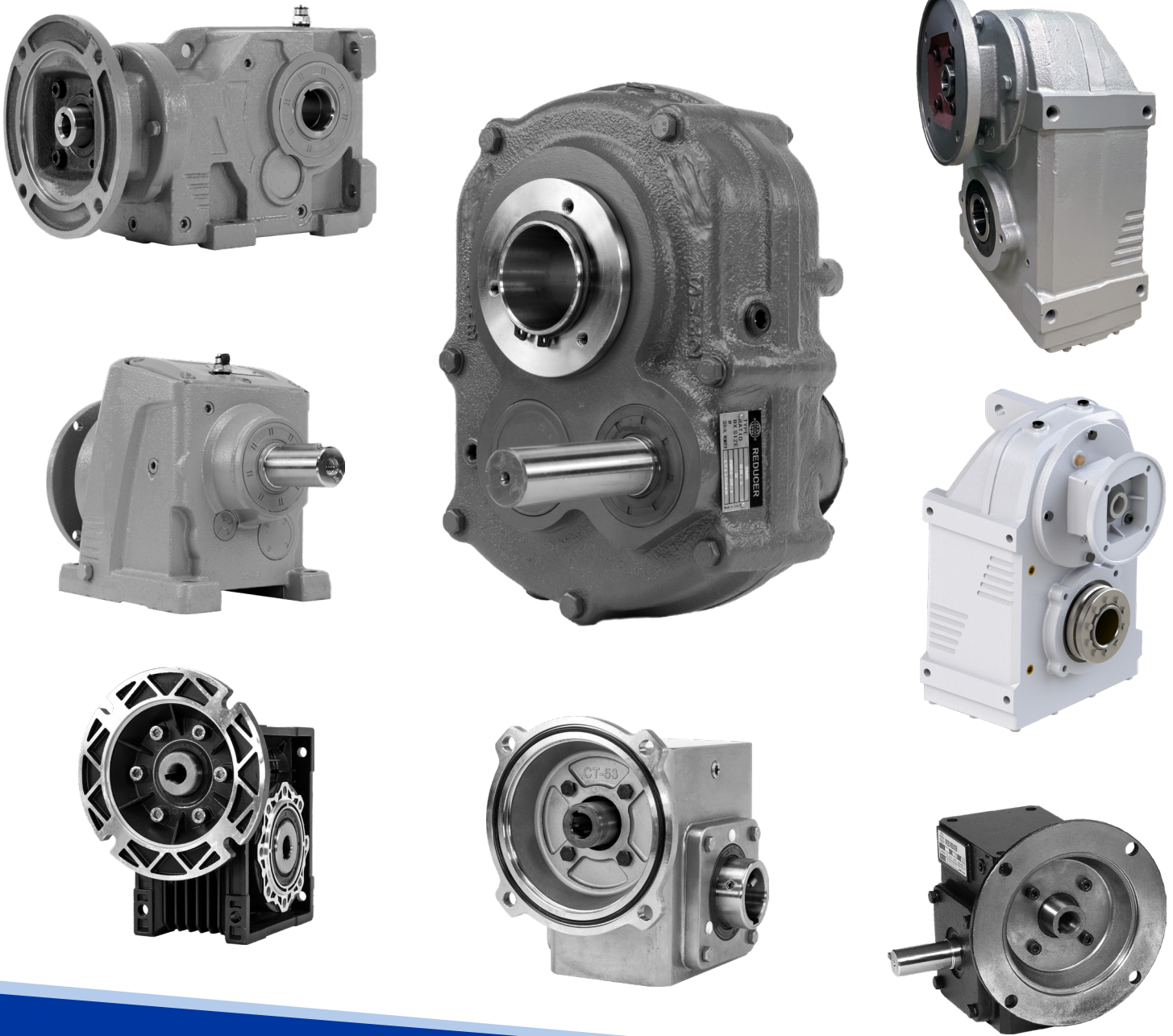




WorldWide
ELECTRIC CORPORATION

**GEARS
REDUCERS**

(800) 808-2131
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Gear Reducers

Stock Products Catalog

2023

WorldWide Electric's complete line of Worm Gear, Inline, Helical, Bevel, and Shaft Mount Reducers



WorldWide Electric Gear Reducers

Proven, reliable designs

WorldWide Electric's line of Gear Reducers includes Worm Gear Reducers, Shaft Mount Reducers, Inline Helical Reducers, Helical-Bevel Reducers and our new FHN series Parallel Shaft Helical Reducers. Reduce speed, increase torque, and maintain exceptional efficiency and performance with our field-tested and industry proven Gear Reducers.

WorldWide Electric has been in the motor business for over two decades, providing reliable and affordable electric motors, gear reducers, motor controls and generators. We continue to meet the needs of the most unique applications and strive to have the best customer service in the industry.



Application Questionnaire for Gear Selection



Company Name: _____

Phone: _____ Fax: _____ Email: _____

Application description: _____

Ambient operating temperature range (°F): _____

Operating environment description: _____

Hours operated per day: _____ Start/Stops per day: _____

Is this a reversing application? Yes ☐ No ☐ if Yes, how often per hour: _____

Are there any size restrictions? Explain: _____

Moment of Inertia of Driven Machine: _____

PRIME MOVER INFORMATION:

Electric motor? ☐ Frame size: _____ Rated HP: _____ at _____ RPM

Foot mount? ☐ C-face? ☐ Integral gearmotor? ☐ Peak torque (lbs.): _____

Frequency of peak torque: _____/hour

Duration of peak motor torque (seconds): _____ Phase/ frequency/ voltage: _____

Internal combustion engine? ☐ Single cylinder? ☐ Multi-cylinder? ☐

HP _____ or torque (lbs.) _____ developed at _____ RPM

Other prime mover? Explain: _____

Is the prime mover directly coupled to the reducers? Yes ☐ No ☐ If No, explain: _____

GEAR DRIVE INFORMATION:

Type of unit required:	<u>Shaft Mount Reducer</u>	<u>Worm Gear Reducer</u>	<u>Helical/Helical-Bevel</u>
	☐ Original (SMR)	☐ Cast Iron (HdR)	☐ Inline (WINL)
	☐ Eliminator (SCSMR)	☐ Stainless Steel (SSHdR)	☐ Helical-Bevel (KAN/KHN)
	☐ Ultimate (WSMR)	☐ Aluminum (CALM)	☐ Parallel Helical (FHN)

Desired ratio: _____ Ratio tolerance: _____ Mounting position: _____

Constant speed? ☐ Variable speed? ☐ If variable speed, what is the desired speed range? _____

Backstop required? Yes ☐ No ☐ Direction of rotation: Clockwise? ☐ Counter Clock? ☐

Overhung Load? Input shaft ☐ Output shaft ☐ Radial load ☐ Thrust load ☐

Radial load location on shaft of OHL from shaft shoulder (N): _____ (in.)

Angle of applied load: _____ (degrees) Load: (F_N Perm): _____ (lb.)

Thrust load - toward unit? ☐ Away from unit? ☐

Special features or accessories required? Yes ☐ No ☐

If Yes, detail features required (i.e. output covers, mounting brackets, etc.): _____

Information required to size a motor and shaft mount reducer for a belt conveyor drive system

- 1) What is the length of conveyor?
- 2) What is the conveyor belt width?
- 3) What is the incline angle or discharge height from load zone/ground?
- 4) What is the head-pulley (drum) diameter?
- 5) What type of material is being conveyed?
- 6) What is the productivity or through-put expressed in either tons per hour and/or feet per minute?
- 7) How many hours of operation does the equipment operate per day or per week?
- 8) Is there the presence of shock loading, and if so what is the frequency and severity?
- 9) What is the number of starts and stops (cycles) per hour or day?

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Section 1: Shaft Mount Reducers

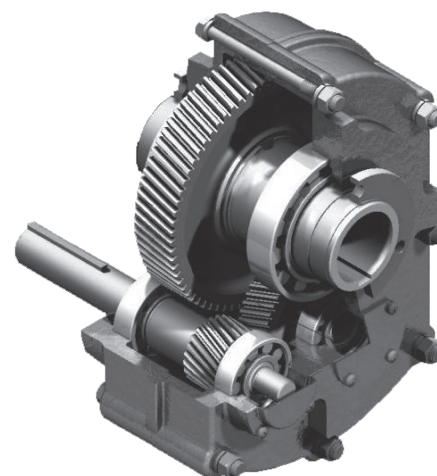
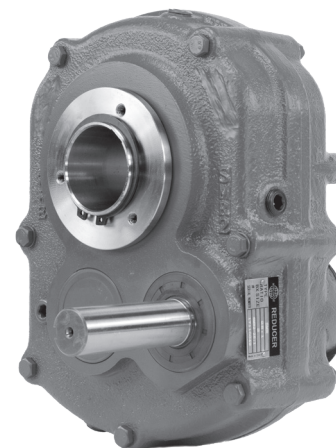
The Original Shaft Mount Reducer



Original SMR Series Reducers: Overview

Product Specifications

- » 15:1 and 25:1 ratios
- » Box sizes 2 - 12
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » 2 year warranty



Accessories and Parts are shown on Pages 25-27.

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	15:1	1 15/16"	58	SMR2-15/1	\$1,121.66
	25:1			SMR2-25/1	
3	15:1	2 3/16"	98	SMR3-15/1	\$1,992.33
	25:1			SMR3-25/1	
4	15:1	2 7/16"	139	SMR4-15/1	\$2,694.74
	25:1			SMR4-25/1	
5	15:1	2 15/16"	207	SMR5-15/1	\$4,047.00
	25:1			SMR5-25/1	
6	15:1	3 7/16"	285	SMR6-15/1	\$5,287.99
	25:1			SMR6-25/1	
7	15:1	3 15/16"	462	SMR7-15/1	\$8,438.61
	25:1			SMR7-25/1	
8	15:1	4 7/16"	633	SMR8-15/1	\$14,348.34
	25:1			SMR8-25/1	
9	15:1	4 15/16"	760	SMR9-15/1	\$18,820.04
	25:1			SMR9-25/1	
10	15:1	5 7/16"	882	SMR10-15/1	\$30,963.22
	25:1			SMR10-25/1	
12	15:1	6 1/2"	1785	SMR12-15/1	\$54,324.42
	25:1			SMR12-25/1	

SMR Series Reducers: Overhung Load Capacity of Output Shaft (lbs)

Box Size	Shaft Size	Output Speed (RPM)										
		10	20	30	50	80	100	120	140	160	180	200
2	1 7/16	2000	1510	1270	1010	840	820	720	720	710	710	700
	1 15/16	1750	1320	1110	890	730	710	630	630	620	620	610
3	1 15/16	5400	4250	3680	3050	2620	2440	2310	2210	2110	2040	1980
	2 3/16	5240	4120	3570	2960	2540	2370	2240	2140	2050	1980	1920
4	2 3/16	6520	5180	4510	3800	3230	3000	2830	2710	2600	2510	2430
	2 7/16	6360	5060	4410	3710	3160	2930	2770	2640	2530	2450	2370
5	2 7/16	7460	5860	5080	4280	3690	3450	3270	3110	2980	2880	2790
	2 15/16	7060	5540	4800	4040	3490	3260	3090	2940	2820	2720	2640
6	2 15/16	9100	7100	6100	5000	4100	4050	3700	3550	3400	3300	3200
	3 7/16	8200	6400	5500	4500	3700	3650	3400	3300	3250	3200	3150
7	3 7/16	11400	9500	7300	5950	4750	5050	4500	4300	4250	4200	4150

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



Original SMR Series Reducers: Mechanical Ratings

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR2-15/1	2	18-32	6700-3769	1.5	19-34	4761-2660	1.5	27-51	3350-1774
	3	27-51	6700-3547	2	25-47	4824-2566	2	37-71	3260-1699
	5	71-85	4247-3547	3	39-75	4639-2412	3	58-113	3119-1601
	7.5	75-140	6030-3230	5	70-136	4307-2217	5	104-140	2899-2154
	10	104-140	5798-4307	7.5	111-140	4074-3230	—	—	—
SMR2-25/1	0.5	4-6	7538-5025	0.33	4-6	5025-3350	0.25	4-6	3769-2513
	0.75	6-10	7538-4523	0.5	6-9	5025-3350	0.33	5-9	4020-2233
	1	8-15	7538-4020	0.75	9-16	5025-2827	0.5	8-15	3769-2010
	1.5	13-23	6958-3933	1	12-22	5025-2741	0.75	13-23	3479-1966
	2	18-32	6700-3769	1.5	19-34	4761-2660	1	18-32	3350-1884
	3	27-51	6700-3547	2	25-47	4824-2566	1.5	27-51	3350-1774
	5	47-70	6415-4307	3	39-75	4639-2412	2	37-71	3260-1699
SMR3-15/1	7.5	75-85	6030-5321	5	70-85	4307-3547	3	58-85	3119-2128
	5	27-46	11167-6555	2	15-24	8040-5025	2	22-36	5482-3350
	7.5	41-74	11031-6112	3	23-38	7865-4761	3	33-57	5482-3174
	10	57-103	10579-5855	5	38-69	7934-4370	5	57-103	5290-2927
	15	94-140	9623-6461	7.5	60-110	7538-4111	7.5	94-140	4811-3230
SMR3-25/1	—	—	—	10	85-140	7094-4307	—	—	—
	0.75	4-5	11307-9045	0.5	4-5	7538-6030	0.5	6-7	5025-4307
	1	6-7	10050-8615	0.75	6-8	7538-5653	0.75	8-12	5653-3769
	1.5	8-12	11307-7538	1	8-11	7538-5482	1	11-17	5482-3547
	2	11-17	10964-7094	1.5	12-18	7538-5025	1.5	16-26	5653-3479
	3	16-26	11307-6958	2	15-24	8040-5025	2	22-36	5482-3350
	5	27-46	11167-6555	3	23-38	7865-4761	3	33-57	5482-3174
	7.5	41-74	11031-6112	5	38-69	7934-4370	5	57-85	5290-3547
SMR4-15/1	10	57-85	10579-7094	7.5	60-85	7538-5321	—	—	—
	5	18-26	16750-11596	3	15-22	12060-8223	3	21-32	8615-5653
	7.5	27-40	16750-11307	5	25-37	12060-8149	5	37-56	8149-5384
	10	37-56	16298-10768	7.5	39-59	11596-7665	7.5	57-93	7934-4863
	15	57-93	15869-9726	10	53-84	11378-7179	10	79-141	7633-4277
	20	79-140	15266-8615	15	83-140	10898-6461	—	—	—
SMR4-25/1	25	102-140	14780-10768	—	—	—	—	—	—
	1	4-5	15075-12060	0.75	4-5	11307-9045	0.5	4-5	7538-6030
	1.5	5-7	18091-12922	1	5-7	12060-8515	0.75	5-7	9045-6461
	2	7-10	17229-12060	1.5	7-11	12922-8223	1	7-10	8615-6030
	3	11-15	16446-12060	2	10-14	12060-8615	1.5	11-15	8223-6030
	5	18-26	16750-11596	3	15-22	12060-8223	2	14-21	8615-5743
	7.5	27-40	16750-11307	5	25-37	12060-8149	3	21-32	8615-5653
	10	37-56	16298-10768	7.5	39-59	11596-7665	5	37-56	8149-5384
	15	57-85	15869-10641	10	53-84	11378-7179	7.5	57-85	7934-5321
SMR5-15/1	20	79-85	15266-14189	—	—	—	—	—	—
	10	21-36	28715-16750	7.5	22-38	20557-11902	5	21-36	14358-8375
	15	33-56	27410-16152	10	30-52	20101-11596	7.5	33-56	13705-8076
	20	46-78	26218-15462	15	48-82	118844-11031	10	46-78	13109-7731
	25	60-101	25126-14926	20	69-117	17479-10308	15	76-125	11902-7236
	30	76-125	23803-14472	25	95-125	15869-12060	20	115-125	10487-9648
	40	115-125	20975-19297	—	—	—	—	—	—

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



Original SMR Series Reducers: Mechanical Ratings (Cont)

1

THE ORIGINAL
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR5-25/1	1.5	4	22613	1.5	5-6	18091-15075	0.75	4	11307
	2	4-6	30151-20101	2	6-9	20101-13400	1	4-6	15075-10050
	3	6-10	30151-18091	3	9-14	20101-12922	1.5	6-10	15075-9045
	5	10-17	30151-17736	5	15-24	20101-12563	2	8-13	15075-9277
	7.5	16-26	28266-17395	7.5	22-38	20557-11902	3	13-20	13916-9045
	10	21-36	28715-16750	10	30-52	20101-11596	5	21-36	14358-8375
	15	33-56	27410-16152	15	48-82	18844-11031	7.5	33-56	13705-8076
	20	46-78	26218-15462	20	69-80	17479-15075	10	46-78	13109-7731
SMR6-15/1	25	60-80	25126-18844	—	—	—	—	—	—
	15	20-32	45226-28266	10	19-29	31738-20794	7.5	20-32	22613-14133
	20	27-45	44668-26801	15	28-47	32304-19245	10	27-45	22334-13400
	25	34-59	44339-25552	20	39-68	30924-17736	15	42-75	21536-12060
	30	42-75	43073-24121	25	50-94	30151-16038	20	58-114	20794-10579
SMR6-25/1	40	58-114	41587-21158	30	61-125	29657-14472	25	75-125	20101-12060
	50	75-125	40201-24121	40	89-120	27102-20101	30	99-125	18276-14472
	3	4-5	45226-36181	2	4-5	30151-24121	1.5	4-5	22613-18091
	5	7-9	43073-33501	3	6-8	30151-22613	2	5-7	24121-17229
	7.5	10-15	45226-30151	5	9-14	33501-21536	3	8-12	22613-15075
	10	13-20	46386-30151	7.5	14-21	32304-21536	5	13-20	23193-15075
	15	20-32	45226-28266	10	19-29	31738-20794	7.5	20-32	22613-14133
	20	27-45	44668-26801	15	28-47	32304-19245	10	27-45	22334-13400
SMR7-15/1	25	34-59	44339-25552	20	39-68	30924-17736	15	42-75	21536-12060
	30	42-75	43073-24121	25	50-80	30151-18844	20	58-70	20794-17229
	40	58-81	41587-29779	30	61-76	29657-23803	—	—	—
	20	19-26	63480-46392	20	27-38	44664-31740	10	19-26	31740-23196
	25	24-33	62820-45684	25	34-49	44340-30768	15	29-41	31188-22056
	30	29-41	62388-44124	30	42-60	43068-30156	20	39-57	30924-21156
	40	39-57	61848-42312	40	57-88	42312-27408	25	50-74	30156-20376
	50	50-74	60300-40740	—	—	—	30	61-98	29652-18456
SMR7-25/1	—	—	—	—	—	—	40	85-89	28380-27108
	5	5-6	60300-50256	3	4-5	45228-36180	3	6-7	30156-25848
	7.5	7-9	64608-50256	5	7-8	43068-37692	5	9-12	33504-25128
	10	9-12	67008-50256	7.5	10-13	45228-34788	7.5	14-19	32304-23808
	15	14-19	64608-47604	10	13-18	46392-33504	10	19-26	31740-23196
	20	19-26	63480-46392	15	20-27	45228-33504	15	29-41	31188-22056
	25	24-33	62820-45684	20	27-38	44664-31740	20	39-57	30924-21156
	30	29-41	62388-44124	25	34-49	44340-30768	25	50-74	30156-20376
SMR8-15/1	40	39-57	61848-42312	30	42-60	43068-30156	30	61-70	29652-25848
	50	50-74	60300-40740	40	57-75	42312-32160	—	—	—
	30	20-28	90456-64608	25	23-33	65544-45684	15	20-28	45228-32304
	40	26-38	92772-63480	30	28-41	64608-44124	20	26-38	46392-31740
	50	33-49	91368-61536	40	37-56	65196-43068	25	33-49	45684-30768
	60	40-60	90456-60300	50	47-72	64152-41880	30	40-60	45228-30156
	75	51-70	88680-64608	60	57-89	63480-40656	40	54-84	44664-28716
	—	—	—	75	74-75	61116-60300	50	70-110	43068-27408
SMR8-25/1	—	—	—	—	—	—	60	86-115	42072-31464
	7.5	4-6	113064-75384	5	4-6	75384-50256	3	4-5	45228-36180
	10	6-8	100500-75384	7.5	6-9	75384-50256	5	6-8	50256-37692
	15	9-13	100500-69576	10	8-12	75384-50256	7.5	9-13	50256-34788
	20	13-18	92772-67008	15	13-19	69576-47604	10	13-18	46392-33504
	25	16-23	94224-65544	20	18-26	67008-46392	15	20-28	45228-32304
	30	20-28	90456-64608	25	23-33	65544-45684	20	26-38	46392-31740
	40	26-38	92772-63480	30	28-41	64608-44124	25	33-49	45684-30768
	50	33-49	91368-61536	40	37-56	65196-43068	30	40-60	45228-30156

All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



Original SMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR8-25/1	60	40-60	90456-60300	50	47-72	64152-41880	40	54-70	44664-34464
	75	51-70	88680-64608	60	57-75	63480-48240	50	70-75	43068-40200
	—	—	—	75	74-75	61116-60300	—	—	—
SMR9-15/1	40	19-25	126948-96480	30	20-27	90456-67008	20	19-25	63480-48240
	50	23-32	131088-94224	40	26-36	92772-67008	25	23-32	65544-47112
	60	28-39	129216-92772	50	33-46	91368-65544	30	28-39	64608-46392
	75	35-50	129216-90456	60	40-56	90456-64608	40	38-53	63480-45516
	—	—	—	75	50-73	90456-61956	50	47-69	64152-43692
	—	—	—	—	—	—	60	57-85	63480-42564
SMR9-25/1	10	5	120600	7.5	5	90456	5	5	60300
	15	7-8	129216-113064	10	6-7	100500-86148	7.5	7-8	64608-56532
	20	9-12	134004-100500	15	10-12	90456-75384	10	9-12	67008-50256
	25	11-15	137052-100500	20	13-17	92772-70944	15	14-19	64608-47604
	30	14-19	129216-95220	25	16-22	94224-68520	20	19-25	63480-48240
	40	19-25	126948-96480	30	20-27	90456-67008	25	23-32	65544-47112
	50	23-32	131088-94224	40	26-36	92772-67008	30	28-39	64608-46392
	60	28-39	129216-92772	50	33-46	91368-65544	40	38-53	63480-45516
	75	35-50	129216-90456	60	40-56	90456-64608	50	47-69	64152-43692
	—	—	—	75	50-73	90456-61956	60	57-75	63480-48240
SMR10-15/1	60	19-27	189075-133053	50	22-32	136077-93553	30	19-27	94538-66526
	75	24-34	187105-132074	60	27-39	133053-92113	40	26-37	92113-64728
	100	32-46	187105-130160	75	34-49	132074-91643	50	32-46	93553-65080
	125	41-59	182542-126851	100	46-67	130160-89364	60	39-56	92113-64150
	150	50-70	179621-128301	125	76-85	98477-88050	75	50-72	89811-62368
	—	—	—	—	—	—	100	59-120	10148-49895
SMR10-25/1	15	5-6	179621-149684	10	5	119748	7.5	5-6	89811-74842
	20	7-8	171068-149684	15	7-9	128301-99790	10	7-8	85534-74842
	25	8-10	187105-149684	20	9-12	133053-99790	15	10-13	89811-69085
	30	10-13	179621-138170	25	11-15	136077-99790	20	13-18	92113-65526
	40	13-18	184227-133053	30	13-19	138170-94538	25	16-22	93553-68038
	50	16-22	187105-136077	40	18-25	133053-95798	30	19-27	94538-66526
	60	19-27	189075-133053	50	22-32	136077-93553	40	26-37	92113-64728
	75	24-34	187105-132074	60	27-39	133053-92113	50	32-46	93553-65080
	100	32-46	187105-130160	75	34-49	132074-91643	60	39-56	92113-64150
	125	41-59	182542-126851	100	46-67	130160-89364	75	50-72	89811-62368
	150	50-70	179621-128301	125	59-75	126851-99790	—	—	—
	—	—	—	—	—	—	—	—	—
SMR12-15/1	100	23 - 31	262000 - 194000	75	25 - 33	181000 - 137000	50	23 - 31	131000 - 97000
	125	30 - 40	251000 - 188000	100	34 - 45	177000 - 134000	60	29 - 38	124000 - 95000
	150	37 - 49	244000 - 184000	125	44 - 58	171000 - 130000	75	37 - 49	122000 - 92000
	200	52 - 68*	232000 - 177000	150	55 - 72 +	164000 - 125000	100	52 - 68 +	116000 - 88000
	250	68 - 75*	222000 - 201000	200	77 - 120 +	156000 - 100000	125	68 - 70 +	110000 - 107000
	--	--	--	--	--	--	150	83 - 110*	109000 - 82000
SMR12-25/1	20	4 - 6	301000 - 201000	10	4	150000	10	4 - 9	150000 - 100000
	25	5 - 7	301000 - 215000	15	4 - 6	226000 - 150000	15	6 - 9	150000 - 100000
	30	6 - 9	301000 - 201000	20	6 - 8	201000 - 150000	20	8 - 12	150000 - 100000
	40	8 - 12	301000 - 201000	25	7 - 10	215000 - 150000	25	10 - 15	150000 - 100000
	50	10 - 15	301000 - 201000	30	9 - 12	201000 - 150000	30	13 - 18	139000 - 100000
	60	13 - 18	278000 - 201000	40	12 - 17	201000 - 142000	40	18 - 25	134000 - 96000
	75	16 - 23	282000 - 196000	50	15 - 21	201000 - 143000	50	23 - 31	131000 - 97000
	100	23 - 31	262000 - 194000	60	19 - 26	190000 - 139000	60	29 - 38	124000 - 95000
	125	30 - 40	251000 - 188000	75	25 - 33	181000 - 137000	75	37 - 49	122000 - 92000
	150	37 - 49	244000 - 184000	100	34 - 45	177000 - 134000	100	52 - 68 +	115000 - 88000
	200	52 - 68	232000 - 177000	125	44 - 58	171000 - 130000	125	68 - 70 +	110000 - 107000
	250	68 - 75*	221000 - 201000	150	55 - 72 +	164000 - 125000	--	--	--
	—	—	—	—	—	—	—	—	—

All output torque ratings listed in inch-pounds

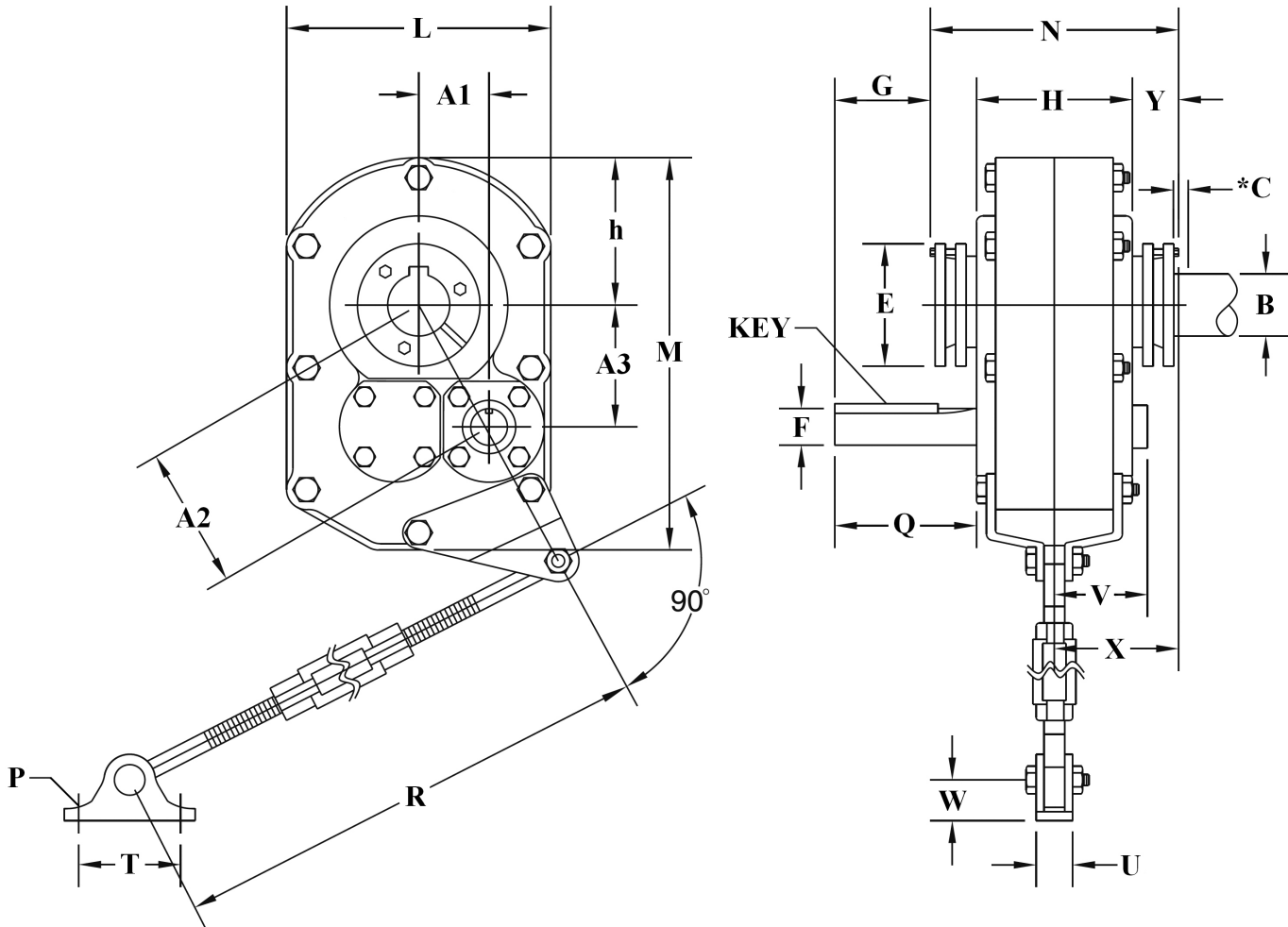
+ Fan cooling required

* Heat exchanger required

Original SMR Series Reducers: Drawings and Dimensions

1

THE ORIGINAL
SHAFT MOUNT REDUCER



All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.38	7.32	1.125	1 15/16	1.25	4.06	1.06	3.68	3.59	4.56	2.14	3.75	26.94	0.44
	11.41		0.25 x 0.125 x 2.50			2.22	1.25	2.89	1.4		4.32	4.09	32.94	3
3	9.25	9.22	1.25	2 3/16	1.5	4.38	1.06	4.52	4.34	5.63	2.33	4.17	26.94	0.44
	12.88		0.25 x 0.125 x 2.875			2.34	1.25	3.3	1.59		4.78	4.84	32.94	3
4	10.38	9.98	1.4375	2 7/16	1.75	4.81	1.75	4.79	5.57	6.13	2.76	4.79	29.19	0.55
	15.13		0.375 x 0.1875 x 4.06			3.44	1.44	3.41	1.72		5.53	5.5	35.19	4
5	13.13	10.52	1.9375	2 15/16	1.81	5.63	1.75	5.05	5.74	6.31	3.04	5.67	29.19	0.5
	18.31		0.50 x 0.25 x 4.50			3.44	1.44	4.45	1.91		6.43	6.56	35.19	4
6	15.13	11.53	2.1875	3 7/16	1.81	6.13	2	5.73	6.08	6.88	4.09	6.71	29.19	0.63
	21.31		0.50 x 0.25 x 4.50			3.73	2.75	4.57	2.3		7.88	7.56	35.19	4.75
7	18.75	12.85	2.4375	3 15/16	2.06	7.25	2	6.38	6.35	7.75	5.11	8.3	29.44	0.63
	25.94		0.625 x 0.312 x 4.75			3.75	2.75	4.69	2.5		9.74	9.38	35.44	4.75
8	20.25	14.03	2.4375	4 7/16	2.06	7.75	3.13	7.04	7.11	8.37	6.03	9.5	30	0.75
	28.25		0.625 x 0.312 x 5.375			4.31	4	5.85	2.86		11.25	10.13	36	7
9	22.63	14.12	2.4375	4 15/16	2.44	8.75	3.13	7.04	9.65	8.12	6.59	10.81	30	0.75
	31.69		0.625 x 0.312 x 7.75			6.63	4	5.66	2.98		12.66	11.31	36	7
10	25.50	15.63	2.6875	5 7/16	2.5	10.04	3.15	7.83	9.10	9.49	6.58	12.50	30	0.75
	35.00		0.625 x 0.312 x 7.875			6.53	4	6.91	3.07		14.13	12.75	36	7.09
12	31.5	18.49	2.69	6 1/2	2.69	10.95	3.38	9.1	9.39	12	0	22.91	30.5	1.12
	43.5		0.625 x 0.3125 x 7.375			6.12	4.91	8.2	3.21		22.91	15.38	36.5	8.44

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



SMR Series Reducers - Hydraulically Powered: Overview

Product Specifications

- » 15:1 and 25:1 ratios
- » Box sizes 3 - 5
- » Tapered bushing type (bushing not included)
- » Spline Input SA498b - 13 Tooth 16/32 DP 30°
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » 2 year warranty

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
3	15:1	2 3/16"	101	HYSMR3-15/1	\$3,794.88
4	15:1	2 7/16"	142	HYSMR4-15/1	\$4,985.97
	25:1			HYSMR4-25/1	
5	15:1	2 15/16"	207	HYSMR5-15/1	\$8,517.68
	25:1			HYSMR5-25/1	

Accessories and Parts are shown on Page 25.



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THE ORIGINAL
SHAFT MOUNT REDUCER

SMR Series Reducers: Overhung Load Capacity of Output Shaft (lbs)

Box Size	Shaft Size	Output Speed (RPM)							
		10	20	30	50	80	100	120	140
3	1 15/16	5400	4250	2680	3050	2620	2440	2310	2210
	2 3/16	5240	4120	3570	2690	2540	2370	2240	2140
4	2 3/16	6520	5180	4510	3800	3230	3000	2830	2710
	2 7/16	6360	5060	4410	3710	3160	2930	2770	2640
5	2 7/16	7460	5860	5080	4280	3690	3450	3270	3110
	2 15/16	7060	5540	4800	4040	3490	3260	3090	2940

Motor Size	Displacement (in ³ /rev.)	Running Torque (in lb/100 psi)	Starting Torque (in lb/100 psi)	Flow Rate (gpm/100rpm)	Internal Leakage (gpm/1000 rpm)	Minimum Motor RPM
B30	3.58	51.3	46.2	1.6	1.5	100

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



SMR Series Reducers: Service Class I Selection Tables

1

THE ORIGINAL
SHAFT MOUNT REDUCER

Reducer Model Number	Requirements	Output Speed													
		10	15	20	25	30	35	40	45	50	55	60	65	70	75
HYSMR3-15/1	OUTPUT HP (RUNNING)	1.8	2.6	3.4	4.3	5.1	5.9	6.8	7.4	8.1	8.7	9.4	10.0	10.7	11.4
	Running Torque (lb.-in.)	11096	10892	10793	10730	10687	10660	10638	10378	10171	10003	9861	9740	9639	9549
	Starting Torque (lb.-in.)	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185
	Running Pressure (psi)	1520	1495	1483	1473	1467	1463	1461	1425	1396	1375	1353	1337	1322	1311
	Flow Rate (gpm)	4.6	5.7	6.9	8.0	9.2	10.3	11.5	12.6	13.7	14.8	15.9	17.1	18.2	19.4
HYSMR4-15/1	OUTPUT HP (RUNNING)	2.6	3.9	5.1	6.3	7.5	8.7	9.9	11.0	12.1	13.1	14.2	15.3	16.3	17.4
	Running Torque (lb.-in.)	16675	16229	16005	15871	15783	15717	15669	15423	15227	15066	14932	14817	14721	14636
	Starting Torque (lb.-in.)	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475
	Running Pressure (psi)	2250	2191	2162	2142	2130	2121	2115	2082	2056	2035	2016	2000	1987	1976
	Flow Rate (gpm)	5.7	6.8	8.0	9.1	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.3	19.5	20.7
HYSMR4-25/1	OUTPUT HP (RUNNING)	2.6	3.9	5.1	6.3	7.5	8.7	9.9	11.0	12.1	13.1	14.2	15.3	16.3	17.4
	Running Torque (lb.-in.)	16673	16229	16005	15871	15780	15717	15669	15425	15227	15066	14932	14818	14721	14636
	Starting Torque (lb.-in.)	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160
	Running Pressure (psi)	1396	1360	1341	1330	1323	1317	1313	1292	1275	1262	1251	1241	1233	1226
	Flow Rate (gpm)	5.9	7.7	9.6	11.5	13.4	15.3	17.2	19.0	20.9	22.8	24.7	26.6	28.5	30.3
HYSMR5-15/1	OUTPUT HP (RUNNING)	4.6	6.5	8.5	10.5	12.5	14.4	16.4	17.9	19.3	20.8	22.3	23.7	24.8	24.2
	Running Torque (lb.-in.)	28750	27473	26835	26451	26196	26013	25876	25046	24380	23838	23383	23001	22329	20336
	Starting Torque (lb.-in.)	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920
	Running Pressure (psi)	2125	2031	1983	1953	1936	1923	1913	1851	1800	1762	1728	1700	1650	1503
	Flow Rate (gpm)	10.0	11.9	13.9	16.0	18.1	20.2	22.3	24.3	26.3	28.4	30.5	32.5	34.6	36.3
HYSMR5-25/1	OUTPUT HP (RUNNING)	4.6	6.5	8.5	10.5	12.5	14.4	16.4	17.9	19.3	20.8	22.3	23.7	24.8	24.2
	Running Torque (lb.-in.)	28751	27472	26835	26451	26196	26013	25876	25046	24381	23838	23385	23001	22329	20336
	Starting Torque (lb.-in.)	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525
	Running Pressure (psi)	2296	2195	2144	2115	2093	2079	2068	2001	1947	1905	1869	1838	1781	1625
	Flow Rate (gpm)	7.4	9.3	11.2	13.1	15.1	17.1	19.0	20.9	22.8	24.8	26.7	28.7	30.6	32.3

Reducer Model Number	Output Speed													
	Requirements	80	85	90	95	100	105	110	115	120	125	130	135	140
HYSMR3-15/1	OUTPUT HP (RUNNING)	12.0	12.7	13.3	13.8	14.3	14.8	15.3	15.8	15.9	15.7	15.5	15.2	15.0
	Running Torque (lb.-in.)	9472	9400	9340	9171	9020	8882	8758	8641	8351	7916	7515	7095	6751
	Starting Torque (lb.-in.)	17185	17185	17185	17185	17185	17185	17185	17185	17075	16860	16660	16475	16305
	Running Pressure (psi)	1300	1291	1282	1259	1239	1219	1202	1185	1146	1087	1031	974	926
	Flow Rate (gpm)	20.5	21.7	22.8	23.9	25.1	26.2	27.3	28.5	29.6	30.6	31.7	32.8	33.9
HYSMR4-15/1	OUTPUT HP (RUNNING)	18.5	19.6	20.6	21.5	22.0	21.5	21.0	20.5	20.0	19.5	19.0	18.5	18.0
	Running Torque (lb.-in.)	14563	14497	14440	14295	13866	12905	12032	11235	10503	9832	9210	8637	8102
	Starting Torque (lb.-in.)	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475
	Running Pressure (psi)	1966	1957	1949	1930	1872	1742	1625	1517	1418	1327	1244	1166	1095
	Flow Rate (gpm)	21.8	23.0	24.1	25.3	26.4	27.4	28.4	29.4	30.4	31.5	32.5	33.6	34.7
HYSMR4-25/1	OUTPUT HP (RUNNING)	18.5	19.6											
	Running Torque (lb.-in.)	14563	14496											
	Starting Torque (lb.-in.)	28160	28160											
	Running Pressure (psi)	1220	1213											
	Flow Rate (gpm)	32.2	34.1											
HYSMR5-15/1	OUTPUT HP (RUNNING)	23.5	22.9	22.3	21.7	21.1	20.5	19.8	19.2	18.6	18.0			
	Running Torque (lb.-in.)	18512	16980	15616	14396	13298	12305	11345	10522	9769	9075			
	Starting Torque (lb.-in.)	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920			
	Running Pressure (psi)	1368	1255	1153	1062	983	909	838	778	722	671			
	Flow Rate (gpm)	38.1	40.0	41.8	43.8	45.7	47.7	49.6	51.6	53.6	55.6			
HYSMR5-25/1	OUTPUT HP (RUNNING)	23.5												
	Running Torque (lb.-in.)	18512												
	Starting Torque (lb.-in.)	29525												
	Running Pressure (psi)	1479												
		34.1												

Output Hp – Horsepower rating of the reducer/motor under continuous operation after load has been started.

Running torque – Continuous output torque rating of reducer/motor (in.-lbs.)

Starting torque – Momentary output torque available for starting (in.-lbs.)

Running pressure – Motor pressure required to generate running torque. This will start loads not to exceed 75% of the running load. For greater starting requirements, motor pressure may be increased – see table (PSI).

Flow rate – Flow required for given output RPM. With oil viscosity of 200SUS @ 100°F. for B30 motors.

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



SMR Series Reducers: Service Class II Selection Tables

Reducer Model Number	Requirements	Output Speed													
		10	15	20	25	30	35	40	45	50	55	60	65	70	75
HYSMR3-15/1	OUTPUT HP (RUNNING)	1.3	1.9	2.4	3.0	3.6	4.2	4.8	5.3	5.8	6.2	6.7	7.2	7.6	8.1
	Running Torque (lb.-in.)	7925	7781	7708	7665	7635	7614	7599	7413	7265	7145	7043	6957	6884	6820
	Starting Torque (lb.-in.)	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185
	Running Pressure (psi)	1086	1068	1058	1052	1047	1045	1043	1018	997	981	967	955	945	936
	Flow Rate (gpm)	4.0	5.1	6.2	7.4	8.5	9.7	10.8	12.0	13.1	14.2	15.4	16.5	17.7	18.8
HYSMR4-15/1	OUTPUT HP (RUNNING)	1.9	2.8	3.6	4.5	5.4	6.2	7.1	7.9	8.6	9.4	10.2	10.9	11.7	12.4
	Running Torque (lb.-in.)	11910	11592	11432	11336	11272	11227	11192	11017	10876	10761	10665	10583	10515	10455
	Starting Torque (lb.-in.)	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475
	Running Pressure (psi)	1606	1565	1543	1530	1522	1516	1511	1487	1467	1453	1440	1429	1419	1411
	Flow Rate (gpm)	4.8	5.9	7.0	8.2	9.4	10.5	11.7	12.8	14.0	15.2	16.3	17.5	18.6	19.8
HYSMR4-25/1	OUTPUT HP (RUNNING)	1.9	2.8	3.6	4.5	5.4	6.2	7.1	7.9	8.6	9.4	10.2	10.9	11.7	12.4
	Running Torque (lb.-in.)	11910	11592	11432	11336	11272	11227	11192	11018	10876	10761	10665	10584	10515	10455
	Starting Torque (lb.-in.)	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160
	Running Pressure (psi)	996	971	958	950	945	941	938	923	911	902	894	887	881	876
	Flow Rate (gpm)	5.3	7.2	9.0	10.9	12.8	14.7	16.6	18.5	20.4	22.3	24.1	26.0	27.9	29.8
HYSMR5-15/1	OUTPUT HP (RUNNING)	3.3	4.7	6.1	7.5	8.9	10.3	11.7	12.8	13.8	14.9	15.9	16.9	18.0	19.0
	Running Torque (lb.-in.)	20536	19624	19168	18893	18711	18581	18483	17890	17415	17027	16703	16429	16195	15991
	Starting Torque (lb.-in.)	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920
	Running Pressure (psi)	1517	1450	1417	1396	1383	1373	1366	1322	1287	1256	1235	1214	1197	1182
	Flow Rate (gpm)	8.4	10.3	12.4	14.5	16.6	18.7	20.9	22.9	25.0	27.1	29.1	31.2	33.3	35.5
HYSMR5-25/1	OUTPUT HP (RUNNING)	3.3	4.7	6.1	7.5	8.9	10.3	11.7	12.8	13.8	14.9	15.9	16.9	18.0	19.0
	Running Torque (lb.-in.)	20537	19625	19168	18895	18711	18581	18483	17890	17415	17027	16703	16429	16195	15991
	Starting Torque (lb.-in.)	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525
	Running Pressure (psi)	1641	1566	1532	1510	1495	1483	1477	1430	1392	1361	1335	1313	1294	1278
	Flow Rate (gpm)	6.4	8.3	10.3	12.2	14.2	16.2	18.2	20.1	22.0	24.0	25.9	27.9	29.8	31.8

Reducer Model Number	Output Speed													
	Requirements	80	85	90	95	100	105	110	115	120	125	130	135	140
HYSMR3-15/1	OUTPUT HP (RUNNING)	8.6	9.1	9.5	9.9	10.2	10.6	10.9	11.3	11.6	11.9	12.3	12.6	12.9
	Running Torque (lb.-in.)	6765	6716	6672	6552	6443	6345	6256	6174	6099	6022	5951	5885	5825
	Starting Torque (lb.-in.)	17185	17185	17185	17185	17185	17185	17185	17185	17075	16860	16660	16475	16305
	Running Pressure (psi)	929	922	916	899	884	871	859	847	837	827	817	808	799
	Flow Rate (gpm)	20.0	21.1	22.2	23.4	24.5	25.7	26.8	27.9	29.1	30.2	31.4	32.5	33.7
HYSMR4-15/1	OUTPUT HP (RUNNING)	13.2	14.0	14.7	15.4	16.1	16.7	17.4	18.0	18.7	19.2	19.0	18.5	18.0
	Running Torque (lb.-in.)	10402	10355	10312	10211	10118	10034	9957	9887	9823	9693	9211	8637	8103
	Starting Torque (lb.-in.)	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475
	Running Pressure (psi)	1403	1398	1392	1378	1366	1355	1344	1335	1326	1309	1244	1166	1095
	Flow Rate (gpm)	21.0	22.1	23.3	24.5	25.6	26.8	28.0	29.1	30.3	31.4	32.5	33.6	34.7
HYSMR4-25/1	OUTPUT HP (RUNNING)	13.2	14.0											
	Running Torque (lb.-in.)	10402	10353											
	Starting Torque (lb.-in.)	28160	28160											
	Running Pressure (psi)	871	867											
	Flow Rate (gpm)	31.7	33.6											
HYSMR5-15/1	OUTPUT HP (RUNNING)	20.1	21.1	22.2	21.7	21.1	20.5	19.8	19.2	18.6	18.0			
	Running Torque (lb.-in.)	15813	15656	15517	14396	13296	12305	11345	10522	9769	9075			
	Starting Torque (lb.-in.)	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920			
	Running Pressure (psi)	1169	1157	1147	1064	983	909	836	778	722	671			
	Flow Rate (gpm)	37.6	39.7	41.8	43.8	45.7	47.7	49.6	51.6	53.6	55.6			
HYSMR5-25/1	OUTPUT HP (RUNNING)	20.1												
	Running Torque (lb.-in.)	15815												
	Starting Torque (lb.-in.)	29525												
	Running Pressure (psi)	1265												
		33.8												

1
THE ORIGINAL
SHAFT MOUNT REDUCER

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



SMR Series Reducers: Service Class III Selection Tables

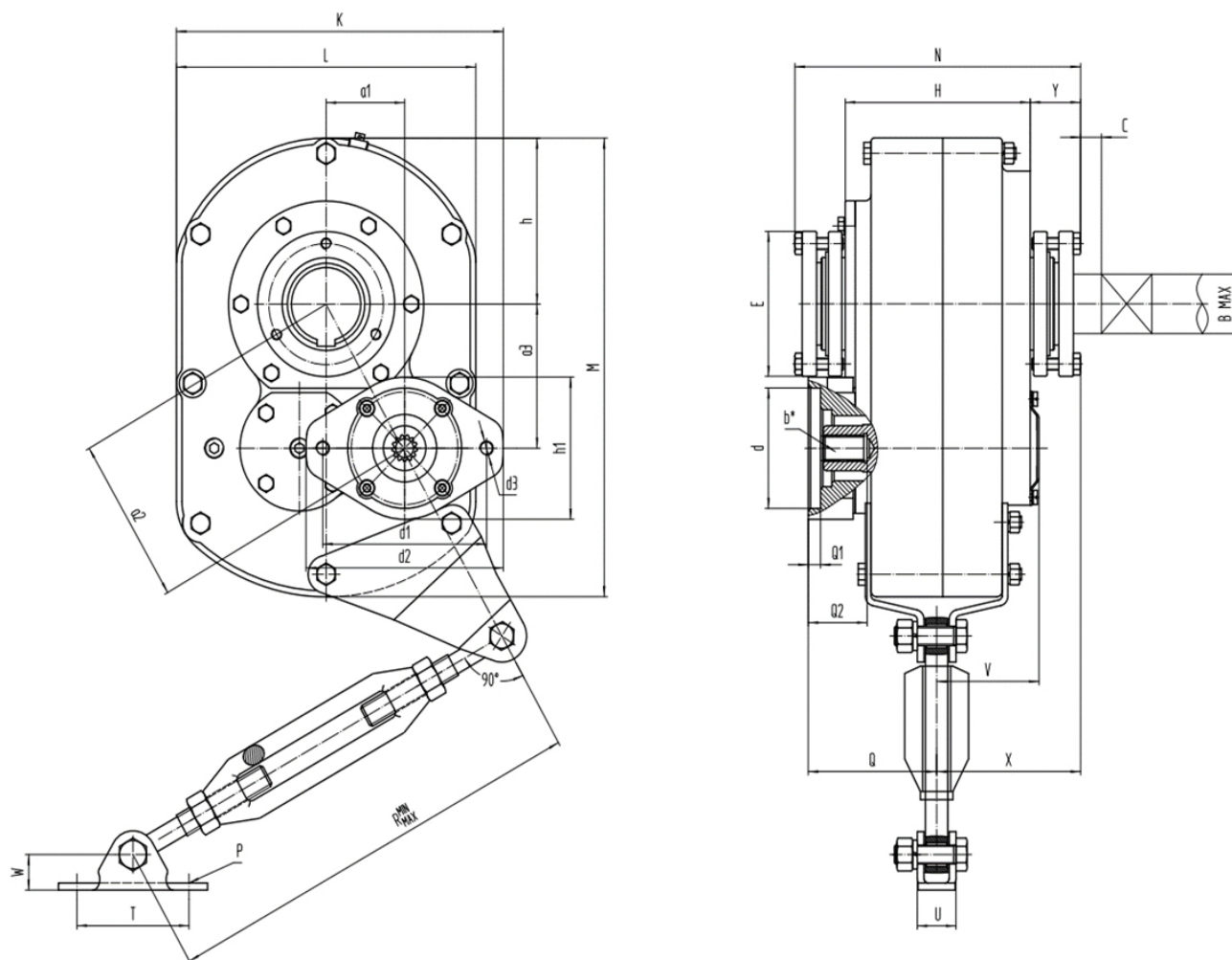
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THE ORIGINAL
SHAFT MOUNT REDUCER

Reducer Model Number	Output Speed														
	Requirements	10	15	20	25	30	35	40	45	50	55	60	65	70	75
HYSMR3-15/1	OUTPUT HP (RUNNING)	0.9	1.3	1.7	2.1	2.5	3.0	3.4	3.7	4.0	4.4	4.7	5.0	5.4	5.7
	Running Torque (lb.-in.)	5547	5446	5396	5365	5345	5330	5319	5189	5086	5001	4930	4870	4819	4774
	Starting Torque (lb.-in.)	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185	17185
	Running Pressure (psi)	762	747	741	736	734	732	730	712	698	686	677	668	661	655
	Flow Rate (gpm)	3.5	4.6	5.8	6.9	8.1	9.2	10.4	11.5	12.6	13.8	14.9	16.1	17.2	18.4
HYSMR4-15/1	OUTPUT HP (RUNNING)	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.5	6.0	6.6	7.1	7.6	8.2	8.7
	Running Torque (lb.-in.)	8339	8115	8002	7935	7891	7859	7835	7712	7613	7533	7466	7409	7360	7318
	Starting Torque (lb.-in.)	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475
	Running Pressure (psi)	1126	1095	1081	1071	1065	1061	1058	1043	1028	1017	1008	1000	994	988
	Flow Rate (gpm)	4.1	5.2	6.3	7.5	8.7	9.8	11.0	12.2	13.3	14.5	15.7	16.8	18.0	19.2
HYSMR4-25/1	OUTPUT HP (RUNNING)	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.5	6.0	6.6	7.1	7.6	8.2	8.7
	Running Torque (lb.-in.)	8338	8113	8002	7935	7891	7859	7835	7712	7613	7533	7466	7409	7360	7318
	Starting Torque (lb.-in.)	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160	28160
	Running Pressure (psi)	699	683	670	665	661	659	656	646	638	631	625	621	617	613
	Flow Rate (gpm)	4.9	6.7	8.6	10.5	12.4	14.3	16.2	18.1	20.0	21.8	23.7	25.6	27.5	29.4
HYSMR5-15/1	OUTPUT HP (RUNNING)	2.3	3.3	4.3	5.2	6.2	7.2	8.2	8.9	9.7	10.4	11.1	11.9	12.6	13.3
	Running Torque (lb.-in.)	14375	13737	13417	13226	13099	13007	12938	12523	12191	11919	11692	11501	11336	11193
	Starting Torque (lb.-in.)	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920
	Running Pressure (psi)	1065	1015	992	978	968	961	956	926	903	881	865	850	838	827
	Flow Rate (gpm)	7.1	9.2	11.3	13.4	15.5	17.6	19.8	21.9	23.9	26.0	28.2	30.3	32.4	34.5
HYSMR5-25/1	OUTPUT HP (RUNNING)	2.3	3.3	4.3	5.2	6.2	7.2	8.2	8.9	9.7	10.4	11.1	11.9	12.6	13.3
	Running Torque (lb.-in.)	14376	13737	13417	13225	13098	13007	12938	12523	12191	11919	11692	11501	11336	11193
	Starting Torque (lb.-in.)	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525	29525
	Running Pressure (psi)	1147	1098	1072	1057	1046	1039	1034	1001	975	952	934	919	906	895
		5.7	7.6	9.6	11.5	13.5	15.5	17.5	19.4	21.4	23.3	25.3	27.3	29.2	31.2

Reducer Model Number	Requirements	Output Speed												
		80	85	90	95	100	105	110	115	120	125	130	135	140
HYSMR3-15/1	OUTPUT HP (RUNNING)	6.0	6.3	6.7	6.9	7.2	7.4	7.6	7.9	8.1	8.4	8.6	8.8	9.1
	Running Torque (lb.-in.)	4735	470	4671	4586	4510	4441	4379	4322	4270	4216	4166	4119	4077
	Starting Torque (lb.-in.)	17185	17185	17185	17185	17185	17185	17185	17185	17075	16860	16660	16475	16305
	Running Pressure (psi)	650	645	641	630	619	610	601	593	586	579	572	565	560
	Flow Rate (gpm)	19.5	20.7	21.8	23.0	24.1	25.3	26.4	27.6	28.7	29.9	31.0	32.2	33.3
HYSMR4-15/1	OUTPUT HP (RUNNING)	9.2	9.8	10.3	10.8	11.2	11.7	12.2	12.6	13.1	13.5	13.8	14.2	14.6
	Running Torque (lb.-in.)	7281	7249	7220	7147	7082	7025	6970	6921	6876	6785	6701	6623	6550
	Starting Torque (lb.-in.)	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475	17475
	Running Pressure (psi)	983	979	975	965	956	948	941	934	928	916	905	894	885
	Flow Rate (gpm)	20.3	21.5	22.7	23.9	25.0	26.2	27.4	28.5	29.7	30.9	32.0	33.2	34.3
HYSMR4-25/1	OUTPUT HP (RUNNING)	9.2	9.8											
	Running Torque (lb.-in.)	7281	7250											
	Starting Torque (lb.-in.)	28160	28160											
	Running Pressure (psi)	610	607											
	Flow Rate (gpm)	31.3	33.2											
HYSMR5-15/1	OUTPUT HP (RUNNING)	14.1	14.8	15.5	16.1	16.6	17.2	17.7	18.2	18.6	18.0			
	Running Torque (lb.-in.)	11069	10959	10862	10653	10466	10296	10141	10000	9769	9076			
	Starting Torque (lb.-in.)	31920	31920	31920	31920	31920	31920	31920	31920	31920	31920			
	Running Pressure (psi)	818	810	803	787	774	761	750	739	722	671			
	Flow Rate (gpm)	36.6	38.8	40.9	43.0	45.1	47.3	49.4	51.5	53.6	55.6			
HYSMR5-25/1	OUTPUT HP (RUNNING)	14.1												
	Running Torque (lb.-in.)	11069												
	Starting Torque (lb.-in.)	29525												
	Running Pressure (psi)	885												
	Flow Rate (gpm)	33.2												

SMR - Hydraulically Powered: Drawings and Dimensions



Reducer Model Number	K	M	B Max	C	E	W	X	Q	H	a1	a3	R Min R Max	P	b* Spline to fit SA 498b Flat Root Side Fit	d	Q1	h1	d2	d3
	L	N			G	U	V	Y		a2	h		T		Q	Q2	d1		
SMRY3-H	10.42	12.88	2-3/16"	1.50	4.38	1.06	4.52	4.34	5.63	2.33	4.17	26.94	0.44	"13 Tooth 16/32 DP 30°"	4.00	0.43	4.72	6.93	2*1/2"-13-UNC-2A
	9.25	9.22			2.34	1.25	3.30	1.59		4.78	4.84	32.94	3.00		4.34	2.07	5.75		
SMRY4-H	11.48	15.13	2-7/16"	1.75	4.81	1.75	4.79	5.57	6.13	2.76	4.79	29.19	0.50	"13 Tooth 16/32 DP 30°"	4.00	0.43	4.72	6.93	2*1/2"-13-UNC-2A
	10.38	9.98			3.44	1.44	3.41	1.72		5.53	5.50	35.19	4.00		4.51	2.07	5.75		
SMRY5-H	13.08	18.31	2-15/16"	1.81	5.63	1.75	5.05	5.74	6.31	3.04	5.67	29.19	0.50	"13 Tooth 16/32 DP 30°"	4.00	0.43	4.72	6.93	2*1/2"-13-UNC-2A
	13.13	10.52			3.44	1.44	4.45	1.91		6.43	6.56	35.19	4.00		4.69	2.07	5.75		

Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Overview

Product Specifications

- » 9:1, 15:1, 25:1 ratios
- » Box sizes 2 - 10
- » Unit sizes 2 - 6 are suitable for screw conveyor applications
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seal
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Extended gear centers and tooth contact
- » Industrial grade all-cast iron housings protect gearing for life
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for most major makes
- » Torque arm included
- » 2 year warranty

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	9:1	1-15/16"	68	SCSMR2-9/1	\$1,289.91
	15:1			SCSMR2-15/1	
	25:1			SCSMR2-25/1	
3	9:1	2-3/16"	106	SCSMR3-9/1	\$2,291.18
	15:1			SCSMR3-15/1	
	25:1			SCSMR3-25/1	
4	9:1	2-7/16"	156	SCSMR4-9/1	\$3,098.95
	15:1			SCSMR4-15/1	
	25:1			SCSMR4-25/1	
5	9:1	2-15/16"	204	SCSMR5-9/1	\$4,654.05
	15:1			SCSMR5-15/1	
	25:1			SCSMR5-25/1	
6	9:1	3-7/16"	314	SCSMR6-9/1	\$6,081.19
	15:1			SCSMR6-15/1	
	25:1			SCSMR6-25/1	
7	15:1	3-15/16"	487	SCSMR7-15/1	\$9,704.40
	25:1			SCSMR7-25/1	
8	15:1	4-7/16"	655	SCSMR8-15/1	\$16,500.59
	25:1			SCSMR8-25/1	
9	15:1	4-15/16"	783	SCSMR9-15/1	\$21,643.05
	25:1			SCSMR9-25/1	
10	15:1	5-7/16"	882	SCSMR10-15/1	\$35,607.71
	25:1			SCSMR10-25/1	



Screw Conveyors Drive Shafts and Flanges for the Eliminator Series are shown on Page 28.

SCSMR Series Reducers: Overhung Load Capacity of Output Shaft (lbs)

Box Size	Shaft Size (inches)	Output Speed (RPM)									
		10	20	30	40	50	60	80	100	120	140
2	1 7/16	2416	1918	1675	1522	1413	1330	1208	1121	1055	1003
	1 15/16	2202	1748	1527	1387	1288	1212	1101	1022	962	914
3	1 15/16	4336	3520	3120	2856	2672	2536	2320	2176	2056	1960
	2 3/16	4176	3392	3008	2760	2576	2440	2240	2096	1984	1896
4	2 3/16	6024	4896	4336	3976	3720	3520	3232	3016	2856	2728
	2 7/16	5832	4736	4192	3848	3600	3408	32158	2920	2768	2640
5	2 7/16	6272	5096	4512	4136	3872	3664	3360	144	2976	2840
	2 15/16	5928	4816	4264	3912	3656	3464	3176	2968	2816	2688
6	2 15/16	7408	6016	5328	4888	4568	4328	3968	3712	3512	3360
	3 7/16	7064	5736	5080	4664	4360	4128	3784	3544	3352	3200
7	3 7/16	5968	4848	4296	3936	3688	3488	3200	2992	2832	2704
	3 15/16	5736	4656	4120	3784	3536	3352	3072	2872	2720	2600
8	3 15/16	7472	6072	5376	4928	4608	4368	4008	3744	3544	3384
	4 7/16	7208	5826	5184	4760	4448	4208	3864	3616	3424	3264
9	4 7/16	9032	7336	6496	5960	5576	5272	4840	4528	4288	4088
	4 15/16	8744	7104	6288	5768	5400	5112	4688	4384	4152	3960
10	5 7/16	11134	8161	7588	7181	6828	6607	6145	5881	5660	-

Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Mechanical Ratings

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR2-9/1	7.5	85-105	5035-4076	5	85-105	3357-2717	3	85-100	2014-1712
	10	105-150	5435-3804	7.5	110-150	3891-2853	5	105-150	2717-1902
	15	160-200	5350-4280	10	150-200	3804-2853	7.5	160-200	2675-2140
SCSMR2-15/1	2	16-24	7065-4710	1.5	18-24	4710-3532	1.5	26-34	3261-2493
	3	26-45	6521-3768	2	24-34	4710-3324	2	38-58	2975-1949
	5	46-74	6143-3819	3	38-70	4462-2422	3	58-100	2923-1695
	7.5	78-105	5434-4037	5	70-105	4037-2691	5	105-140	2691-2018
	10	105-140	5382-4037	7.5	110-140	3853-3028			
SCSMR2-25/1	0.5	4-6	7065-4710	0.33	4-5	4663-3730	0.25	4-5	3532-2826
	0.75	6-8	7065-5298	0.5	6-8	4710-3532	0.33	6-8	3108-2331
	1	8-10	7065-5652	0.75	8-12	5298-3532	0.5	8-12	3532-2355
	1.5	12-16	7065-5298	1	12-16	4710-3532	0.75	12-16	3532-2649
	2	16-24	7065-4710	1.5	18-24	4710-3532	1	16-24	3532-2355
	3	26-45	6521-3768	2	24-34	4710-3324	1.5	26-34	3261-2493
	5	46-74	6143-3819	3	38-70	4462-2422	2	38-58	2975-1949
	7.5	78-85	5434-4987	5	70-85	4037-3324	3	58-85	2923-1995
SCSMR3-9/1	10	85-105	6714-5435	7.5	85-105	5035-4076	5	85-105	3357-2717
	15	110-140	7782-6114	10	100-140	5707-4076	7.5	110-140	3891-3057
	20	150-200	7609-5707	15	150-200	5707-4280	10	150-200	3804-2853
SCSMR3-15/1	3	28-30	6055-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-105	3819-2691
	10	78-105	7246-5382	7.5	78-105	5434-4037	7.5	110-140	3853-3028
	15	110-140	7707-6055	10	100-140	5652-4037	-	-	-
SCSMR3-25/1	0.75	4-5	10597-8477	0.5	4-5	7065-5652	0.5	6-7	4710-4037
	1	6-7	9419-8074	0.75	6-7	7065-6055	0.75	8-10	5298-4239
	1.5	8-10	10597-8477	1	8-10	7065-5652	1	10-16	5652-3532
	2	12-16	9419-7065	1.5	12-16	7065-5298	1.5	18-24	4710-3532
	3	18-30	9419-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-85	3819-3324
	10	78-85	7246-6649	7.5	78-85	5434-4987	-	-	-
SCSMR4-9/1	20	85-105	13427-10870	15	85-115	10071-7443	10	85-115	6714-4962
	25	100-135	14267-10568	20	110-150	10376-7609	15	120-150	7133-5707
	30	120-160	14267-10700	25	140-190	10190-7509	20	160-200	7133-5707
	40	160-200	14267-11413	30	170-200	10700-8560	-	-	-
SCSMR4-15/1	5	18-24	15699-11774	3	14-22	12111-7707	3	20-34	8477-4987
	7.5	26-34	16303-12467	5	24-34	11774-8311	5	38-54	7436-5233
	10	38-54	14873-10466	7.5	38-54	11154-7849	7.5	58-80	7308-5298
	15	58-80	14616-10597	10	54-80	10466-7065	10	80-140	7065-4037
	20	80-110	14219-10276	15	85-115	9973-7372	-	-	-
	25	100-140	14129-10092	20	110-140	10276-8074	-	-	-

* All output torque ratings listed in inch-pounds

Data Revised 03.18.2022

Continued On Next Page

Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Mechanical Ratings (Cont)

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THE ELIMINATOR
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR4-25/1	1	4-5	14129-11303	0.75	4-5	10597-8477	0.5	4-5	7065-5652
	1.5	5-7	16955-12111	1	5-6	11303-9419	0.75	5-6	8477-7065
	2	6-8	18839-14129	1.5	6-8	14129-10597	1	6-8	9419-7065
	3	10-14	16955-12111	2	10-12	11303-9419	1.5	10-12	8477-7065
	5	16-24	17661-11774	3	14-22	12111-7707	2	14-18	8074-6280
	7.5	26-34	16303-12467	5	24-34	11774-8311	3	20-34	8477-4987
	10	38-54	14873-10466	7.5	38-54	11154-7849	5	38-54	7436-5233
	15	58-80	14616-10597	10	54-85	10466-6649	7.5	58-85	7308-4987
SCSMR5-9/1	20	80-85	14129-13298	-	-	-	-	-	-
	25	78-95	18291-15018	20	78-105	14632-10870	10	78-80	7316-7133
	30	85-115	20141-14887	25	100-135	14267-10568	15	85-105	10071-8152
	40	110-150	20752-15218	30	120-160	14267-10700	20	110-135	10376-8454
	50	140-180	20381-15852	40	160-200	14267-11413	25	140-160	10190-8917
SCSMR5-15/1	60	170-200	20141-17120	-	-	-	30	170-200	10071-14267
	7.5	22-24	19267-17661	7.5	24-34	17661-12467	5	24-34	11774-8311
	10	24-34	23548-16622	10	38-54	14873-10466	7.5	38-52	11154-8151
	15	38-54	22309-15699	15	58-80	14616-10597	10	54-80	10466-7065
	20	54-78	20932-14491	20	78-110	14491-10276	15	85-110	9973-7707
	25	70-95	20184-14873	25	100-125	14129-11303	20	110-125	10276-9043
	30	85-115	19947-14743	-	-	-	-	-	-
SCSMR5-25/1	40	110-125	20551-18085	-	-	-	-	-	-
	2	4-5	28258-22606	1.5	4-5	21194-16955	1	4-5	14129-11303
	3	6-8	28258-21194	2	5-6	22606-18839	1.5	6-7	14129-12111
	5	10-14	28258-20184	3	8-14	21194-12111	2	8-12	14129-9419
	7.5	16-24	26492-17661	5	16-24	17661-11774	3	14-22	12111-7707
	10	24-34	23548-16622	7.5	24-34	17661-12467	5	24-34	11774-8311
	15	38-54	22309-15699	10	38-54	14873-10466	7.5	38-52	11154-8151
	20	54-78	20932-14491	15	58-80	14616-10597	10	54-78	10466-7246
SCSMR6-9/1	20184-17661	70-80	20184-17661	20	78-80	14491-14129	-	-	-
	50	78-105	36581-27175	30	78-90	21949-19022	25	78-95	18291-15018
	60	95-125	36042-27392	40	90-120	25363-19022	30	95-120	18021-14267
	75	120-200	35667-21400	50	110-150	25939-19022	40	125-150	18261-15218
	-	-	-	60	130-180	26338-19022	50	160-200	17833-14267
SCSMR6-15/1	-	-	-	75	160-200	26750-21400	60	190-200	18021-17120
	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-74	18231-15275
	40	62-85	36462-26596	30	66-90	25689-18839	25	78-95	18114-14873
	50	78-105	36228-26912	40	90-120	25118-18839	30	95-125	17847-13564
SCSMR6-25/1	60	95-125	35694-27128	-	-	-	-	-	-
	3	4-5	42387-33910	2	4-5	28258-22606	1.5	4-5	21194-16955
	5	6-8	47097-35323	3	6-8	28258-21194	2	6-7	18839-16147
	7.5	10-12	42387-35323	5	10-12	28258-23548	3	8-12	21194-14129
	10	14-18	40369-31398	7.5	14-18	30276-23548	5	14-18	20184-15699
	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-70	18231-16147
	40	62-80	36462-28258	30	66-78	25689-21737	-	-	-

* All output torque ratings listed in inch-pounds

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Continued On Next Page

Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR7-15/1	20	18-22	62796-51378	20	26-34	43474-33245	10	16-24	35323-23548
	25	22-30	64223-47097	25	32-46	44153-30715	15	26-34	32605-24934
	30	26-38	65211-44618	30	40-58	42387-29232	20	38-46	29745-24572
	40	38-54	59491-41864	40	58-80	38977-28258	25	50-62	28258-22789
	50	50-74	56516-38187	50	74-100	38188-28259	30	62-80	27346-21194
	60	62-85	54696-39896	60	90-115	37679-29488	40	85-100	26596-22607
	75	90-115	47099-36860	-	-	-	50	105-115	26914-24573
SCSMR7-25/1	5	4-5	70645-56516	3	4-5	42387-33910	3	5-7	33910-24221
	7.5	6-7	70645-60553	5	6-7	47097-40369	5	8-10	35323-28258
	10	8-10	70645-56516	7.5	8-10	52984-42387	7.5	12-14	35323-30276
	15	12-16	70645-52984	10	12-16	47097-35323	10	16-24	35323-23548
	20	16-22	70645-51378	15	18-26	47097-32605	15	26-34	32605-24934
	25	22-30	64223-47097	20	24-34	47097-33245	20	38-46	29745-24572
	30	26-38	65211-44618	25	32-46	44153-30715	25	50-62	28258-22789
	40	38-54	59491-41864	30	40-58	42387-29232	30	62-80	27346-21195
	50	50-74	56516-38187	40	58-74	38977-30549	-	-	-
	60	62-80	54696-42389	50	74-80	38188-35324	-	-	-
SCSMR8-15/1	40	20-30	113032-75355	25	20-26	70645-54342	15	18-20	47097-42387
	50	28-40	100922-70645	30	22-32	77067-52984	20	20-26	56516-43474
	60	34-46	99734-73717	40	32-46	70645-49144	25	28-34	50461-41556
	75	45-70	94193-60553	50	40-58	70645-48721	30	34-46	49867-36858
	100	62-85	91159-66493	60	50-74	67819-45824	40	50-58	45213-38977
	125	80-125	88310-56519	75	66-90	64223-47099	50	62-78	45577-36228
	-	-	-	100	90-125	62799-45215	60	78-95	43474-35696
SCSMR8-25/1	-	-	-	-	-	-	75	95-125	44620-33911
	7.5	4-5	105968-84774	5	4-5	70645-56516	3	4-5	42387-33910
	10	6-7	94193-80737	7.5	6-7	70645-60553	5	5-7	56516-40369
	15	8-9	105968-94193	10	8-9	70645-62796	7.5	7-9	60553-47097
	20	10-12	113032-94193	15	10-14	84774-60553	10	10-14	56516-40369
	25	12-16	117742-88306	20	14-20	80737-56516	15	16-20	52984-42387
	30	16-20	105968-84774	25	18-26	78495-54342	20	20-26	56516-43474
	40	20-30	113032-75355	30	22-32	77067-52984	25	28-34	50461-41556
	50	28-40	100922-70645	40	32-46	70645-49144	30	34-46	49867-36858
	60	34-46	99734-73717	50	40-58	70645-48721	40	50-58	45213-38977
	75	45-70	94193-60553	60	50-74	67819-45824	50	62-80	45577-35324
	100	62-80	91159-70648	75	66-80	64223-52986	-	-	-
SCSMR9-15/1	50	18-26	156989-108685	30	20-22	84774-77067	25	18-22	78495-64223
	60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
	75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
	100	45-58	125597-97449	60	34-50	99734-67819	50	45-52	62796-54342
	125	54-80	130830-88310	75	45-66	94193-64226	60	52-66	65211-42387
	150	70-125	121111-67822	100	62-90	91159-62799	75	70-90	60556-47099
	-	-	-	125	85-125	83116-56519	100	95-125	59493-45215

* All output torque ratings listed in inch-pounds

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Data Revised 03.18.2022

Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Mechanical Ratings (Cont)

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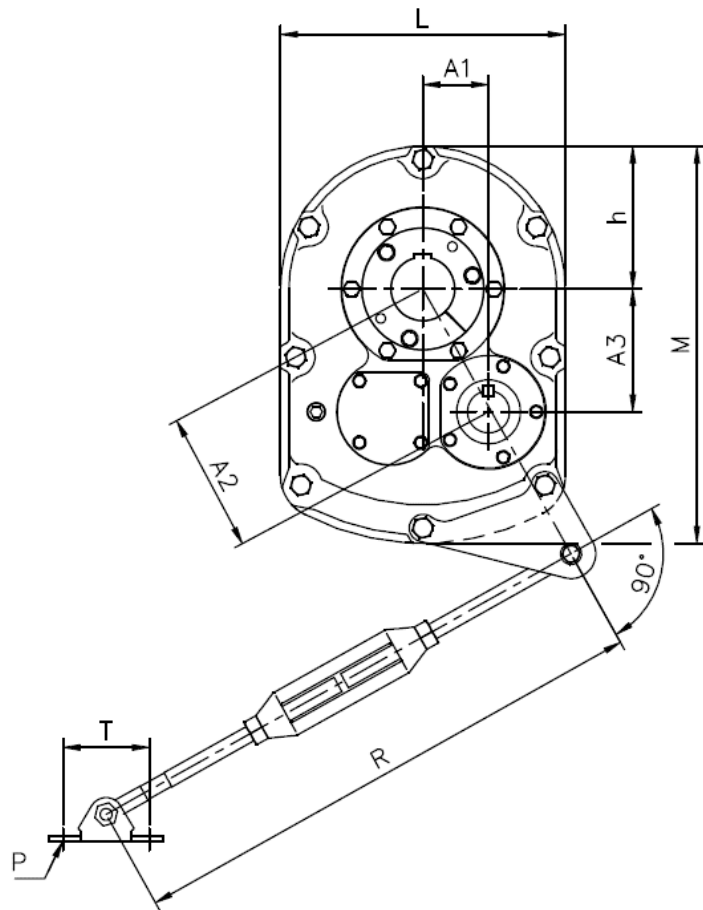
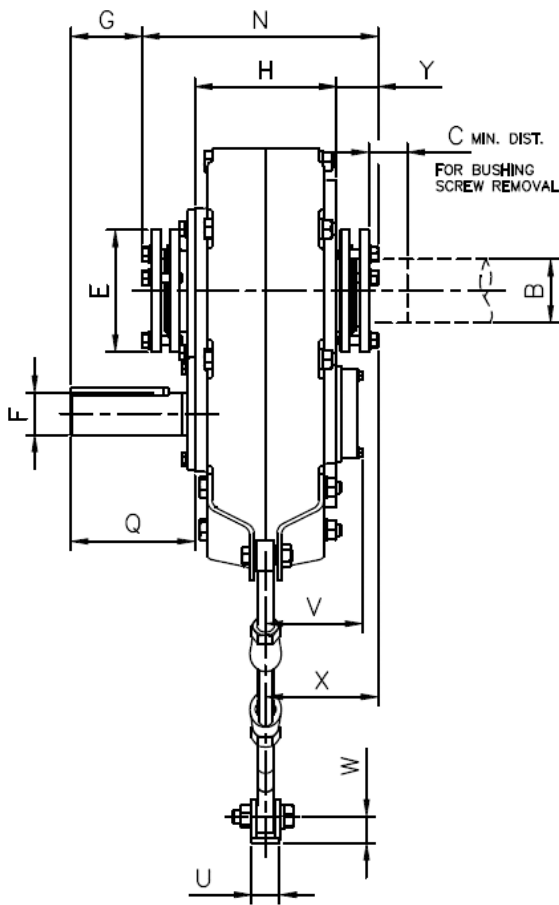
THE ELIMINATOR
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR9-25/1	15	5-6	169548-141290	7.5	4-5	105968-84774	5	4-5	70645-56516
	20	6-8	188387-141290	10	4-6	141290-94193	7.5	5-6	84774-70645
	25	8-10	176613-141290	15	8-9	105968-94193	10	6-8	94193-70645
	30	10-14	169548-121106	20	10-12	113032-94193	15	10-12	84774-70645
	40	14-20	161475-113032	25	12-16	117742-88306	20	14-16	80737-70645
	50	18-26	156989-108685	30	16-22	105968-77067	25	18-22	78495-64223
	60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
	75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
	100	45-62	125597-91159	60	34-50	99734-67819	50	45-52	62796-54342
	125	54-78	130830-90575	75	45-62	94193-68369	60	52-66	65211-51381
	-	-	-	100	62-78	91159-72460	75	70-78	60556-54345
SCSMR10-15/1	75	18-22	235495-192677	60	18-26	188396-130428	40	18-24	125597-94198
	100	24-32	235495-176621	75	24-34	176621-124674	50	24-32	117747-88310
	125	30-40	235495-176621	100	34-50	166231-113037	60	28-40	121111-84778
	150	38-54	223100-156996	125	45-62	156996-113949	75	38-54	111550-78498
	200	52-125	217380-90430	150	58-80	146169-105973	100	52-74	108690-76377
	-	-	-	200	78-125	144920-90430	125	70-95	100926-74367
	-	-	-	-	-	-	150	85-125	99739-67822
SCSMR10-25/1	25	5-6	299899-235495	15	4-6	211945-141297	10	4-6	141297-94198
	30	6-8	282593-211945	20	6-8	188396-141297	15	6-8	141297-105973
	40	8-10	282593-226075	25	8-10	176621-141297	20	8-10	141297-113037
	50	10-14	282593-201852	30	10-12	169556-141297	25	10-14	141297-100926
	60	12-16	282593-211945	40	12-16	188396-141297	30	12-18	141297-94198
	75	16-22	264931-192677	50	16-20	176621-141297	40	18-24	125597-94198
	100	24-32	235495-176621	60	18-26	188396-130428	50	24-32	117747-88310
	125	30-40	235495-176621	75	24-34	176621-124674	60	28-40	121111-84778
	150	38-54	223100-156996	100	34-50	166231-113037	75	38-54	111550-78498
	200	52-78	217380-144920	125	45-62	156996-113949	100	52-78	108690-72460
	-	-	-	150	58-78	146169-108690	-	-	-

* All output torque ratings listed in inch-pounds

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Eliminator SCSMR Series Reducers: Drawings and Dimensions



All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.39	7.44	1-1/8	1-15/16	1.25	4.06	1.06	3.74	3.58	4.57	2.13	3.76	26.94	0.51
	11.42		1/4x1/8x2-5/8			2.15	1.10	2.87	1.44		4.32	4.09	32.94	3.00
3	9.25	9.36	1-1/4	2-3/16	1.5	4.37	1.06	4.72	4.33	5.63	2.34	4.17	26.94	0.51
	12.87		1/4x1/8x2-15/16			2.31	1.10	3.49	1.70		4.78	4.84	32.94	3.00
4	10.39	10.29	1-7/16	2-7/16	1.75	4.81	1.23	5.20	5.40	6.38	2.76	4.79	29.19	0.67
	15.16		3/8x3/16x4			3.26	1.34	4.03	1.78		5.53	5.50	35.19	4.00
5	13.15	10.89	1-15/16	2-15/16	1.81	5.63	1.23	5.19	5.72	6.54	3.03	5.67	29.19	0.67
	18.31		1/2x1/4x4-1/2			3.29	1.34	4.47	1.92		6.43	6.57	35.19	4.00
6	15.12	11.76	2-3/16	3-7/16	1.81	6.12	2.00	5.79	6.03	7.36	4.08	6.73	29.19	0.67
	21.34		1/2x1/4x4-1/2			3.58	2.75	5.24	1.94		7.87	7.56	35.19	4.75
7	18.74	13.35	2-7/16	3-15/16	2.06	7.24	2.00	6.71	6.34	7.36	5.10	8.30	29.44	0.67
	25.94		5/8x5/16x4-3/4			3.35	2.75	4.57	3.01		9.74	9.37	35.44	4.75
8	20.24	14.56	2-7/16	4-7/16	2.06	7.80	3.15	7.35	7.11	8.46	6.03	9.50	30.00	0.83
	28.27		5/8x5/16x5-3/8			4.07	4.02	5.89	3.06		11.25	10.12	36.00	7.00
9	22.64	14.74	2-7/16	4-15/16	2.44	8.66	3.15	7.51	9.65	8.27	6.59	10.81	30.00	0.83
	31.69		5/8x5/16x7-3/4			6.50	4.02	6.13	3.33		12.66	11.32	36.00	7.00
10	25.76	15.69	2-11/16	5-7/16	2.44	10.12	3.15	7.86	10.26	9.45	6.59	12.5	29.92	0.83
	34.96		5/8x5/8x8			7.14	3.5	6.9	3.12		14.13	12.94	36.22	7.00

Dimensions shown in this catalog are for general use only.
 For an exact drawing on a specific rating, please contact our sales office.

Section 1: Shaft Mount Reducers

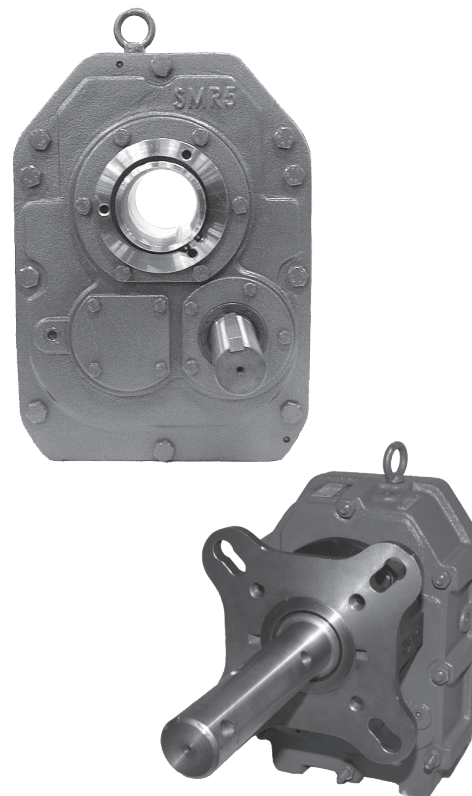
The Ultimate Shaft Mount Reducer



Ultimate WSMR Series Reducers: Product Overview

Product Specifications

- » 9:1, 15:1 and 25:1 ratios
- » Box sizes 2 - 9
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » Made in Taiwan (highest level of manufacturing expertise)
- » 3 year warranty



All-in-1 Ultimate Shaft Mount Reducer System Components can be found on Page 28

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	9:1 15:1 25:1	1 15/16"	68	WSMR2-9/1 WSMR2-15/1 WSMR2-25/1	\$1,569.07
3	9:1 15:1 25:1	2 3/16"	106	WSMR3-9/1 WSMR3-15/1 WSMR3-25/1	\$2,343.93
4	9:1 15:1 25:1	2 7/16"	156	WSMR4-9/1 WSMR4-15/1 WSMR4-25/1	\$3,170.28
5	9:1 15:1 25:1	2 15/16"	204	WSMR5-9/1 WSMR5-15/1 WSMR5-25/1	\$4,761.18
6	9:1 15:1 25:1	3 7/16"	314	WSMR6-9/1 WSMR6-15/1 WSMR6-25/1	\$6,221.16
7	15:1 25:1	3 15/16"	487	WSMR7-15/1 WSMR7-25/1	\$11,554.47
8	15:1 25:1	4 7/16"	655	WSMR8-15/1 WSMR8-25/1	\$14,842.65
9	15:1 25:1	4 15/16"	783	WSMR9-15/1 WSMR9-25/1	\$21,023.38

WSMR Series Reducers: Overhung Load Capacity of Output Shaft (lbs)

Box Size	Shaft Size (inches)	Output Speed (RPM)									
		10	20	30	40	50	60	80	100	120	140
2	1 7/16	2416	1918	1675	1522	1413	1330	1208	1121	1055	1003
	1 15/16	2202	1748	1527	1387	1288	1212	1101	1022	962	914
3	1 15/16	4336	3520	3120	2856	2672	2536	2320	2176	2056	1960
	2 3/16	4176	3392	3008	2760	2576	2440	2240	2096	1984	1896
4	2 3/16	6024	4896	4336	3976	3720	3520	3232	3016	2856	2728
	2 7/16	5832	4736	4192	3848	3600	3408	32158	2920	2768	2640
5	2 7/16	6272	5096	4512	4136	3872	3664	3360	144	2976	2840
	2 15/16	5928	4816	4264	3912	3656	3464	3176	2968	2816	2688
6	2 15/16	7408	6016	5328	4888	4568	4328	3968	3712	3512	3360
	3 7/16	7064	5736	5080	4664	4360	4128	3784	3544	3352	3200
7	3 7/16	5968	4848	4296	3936	3688	3488	3200	2992	2832	2704
	3 15/16	5736	4656	4120	3784	3536	3352	3072	2872	2720	2600
8	3 15/16	7472	6072	5376	4928	4608	4368	4008	3744	3544	3384
	4 7/16	7208	5826	5184	4760	4448	4208	3864	3616	3424	3264
9	4 7/16	9032	7336	6496	5960	5576	5272	4840	4528	4288	4088
	4 15/16	8744	7104	6288	5768	5400	5112	4688	4384	4152	3960

Section 1: Shaft Mount Reducers

The Ultimate Shaft Mount Reducer



Ultimate WSMR Series Reducers: Mechanical Ratings

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
WSMR2-9/1	7.5	85-105	5035-4076	5	85-105	3357-2717	3	85-100	2014-1712
	10	105-150	5435-3804	7.5	110-150	3891-2853	5	105-150	2717-1902
	15	160-200	5350-4280	10	150-200	3804-2853	7.5	160-200	2675-2140
WSMR2-15/1	2	16-24	7065-4710	1.5	18-24	4710-3532	1.5	26-34	3261-2493
	3	26-45	6521-3768	2	24-34	4710-3324	2	38-58	2975-1949
	5	46-74	6143-3819	3	38-70	4462-2422	3	58-100	2923-1695
	7.5	78-105	5434-4037	5	70-105	4037-2691	5	105-140	2691-2018
	10	105-140	5382-4037	7.5	110-140	3853-3028	-	-	-
WSMR2-25/1	0.5	4-6	7065-4710	0.33	4-5	4663-3730	0.25	4-5	3532-2826
	0.75	6-8	7065-5298	0.5	6-8	4710-3532	0.33	6-8	3108-2331
	1	8-10	7065-5652	0.75	8-12	5298-3532	0.5	8-12	3532-2355
	1.5	12-16	7065-5298	1	12-16	4710-3532	0.75	12-16	3532-2649
	2	16-24	7065-4710	1.5	18-24	4710-3532	1	16-24	3532-2355
	3	26-45	6521-3768	2	24-34	4710-3324	1.5	26-34	3261-2493
	5	46-74	6143-3819	3	38-70	4462-2422	2	38-58	2975-1949
	7.5	78-85	5434-4987	5	70-85	4037-3324	3	58-85	2923-1995
WSMR3-9/1	10	85-105	6714-5435	7.5	85-105	5035-4076	5	85-105	3357-2717
	15	110-140	7782-6114	10	100-140	5707-4076	7.5	110-140	3891-3057
	20	150-200	7609-5707	15	150-200	5707-4280	10	150-200	3804-2853
WSMR3-15/1	3	28-30	6055-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-105	3819-2691
	10	78-105	7246-5382	7.5	78-105	5434-4037	7.5	110-140	3853-3028
	15	110-140	7707-6055	10	100-140	5652-4037	-	-	-
WSMR3-25/1	0.75	4-5	10597-8477	0.5	4-5	7065-5652	0.5	6-7	4710-4037
	1	6-7	9419-8074	0.75	6-7	7065-6055	0.75	8-10	5298-4239
	1.5	8-10	10597-8477	1	8-10	7065-5652	1	10-16	5652-3532
	2	12-16	9419-7065	1.5	12-16	7065-5298	1.5	18-24	4710-3532
	3	18-30	9419-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-85	3819-3324
	10	78-85	7246-6649	7.5	78-85	5434-4987	-	-	-
WSMR4-9/1	20	85-105	13427-10870	15	85-115	10071-7443	10	85-115	6714-4962
	25	100-135	14267-10568	20	110-150	10376-7609	15	120-150	7133-5707
	30	120-160	14267-10700	25	140-190	10190-7509	20	160-200	7133-5707
	40	160-200	14267-11413	30	170-200	10700-8560	-	-	-
WSMR4-15/1	5	18-24	15699-11774	3	14-22	12111-7707	3	20-34	8477-4987
	7.5	26-34	16303-12467	5	24-34	11774-8311	5	38-54	7436-5233
	10	38-54	14873-10466	7.5	38-54	11154-7849	7.5	58-80	7308-5298
	15	58-80	14616-10597	10	54-80	10466-7065	10	80-140	7065-4037
	20	80-110	14219-10276	15	85-115	9973-7372	-	-	-
	25	100-140	14129-10092	20	110-140	10276-8074	-	-	-
WSMR4-25/1	1	4-5	14129-11303	0.75	4-5	10597-8477	0.5	4-5	7065-5652
	1.5	5-7	16955-12111	1	5-6	11303-9419	0.75	5-6	8477-7065
	2	6-8	18839-14129	1.5	6-8	14129-10597	1	6-8	9419-7065
	3	10-14	16955-12111	2	10-12	11303-9419	1.5	10-12	8477-7065
	5	16-24	17661-11774	3	14-22	12111-7707	2	14-18	8074-6280
	7.5	26-34	16303-12467	5	24-34	11774-8311	3	20-34	8477-4987
	10	38-54	14873-10466	7.5	38-54	11154-7849	5	38-54	7436-5233
	15	58-80	14616-10597	10	54-85	10466-6649	7.5	58-85	7308-4987
	25	100-140	14129-10092	20	110-140	10276-8074	-	-	-

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Ultimate Shaft Mount Reducer



Ultimate WSMR Series Reducers: Mechanical Ratings (Cont)

1

THE ULTIMATE
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
WSMR5-9/1	25	78-95	18291-15018	20	78-105	14632-10870	10	78-80	7316-7133
	30	85-115	20141-14887	25	100-135	14267-10568	15	85-105	10071-8152
	40	110-150	20752-15218	30	120-160	14267-10700	20	110-135	10376-8454
	50	140-180	20381-15852	40	160-200	14267-11413	25	140-160	10190-8917
	60	170-200	20141-17120	-	-	-	30	170-200	10071-14267
WSMR5-15/1	7.5	22-24	19267-17661	7.5	24-34	17661-12467	5	24-34	11774-8311
	10	24-34	23548-16622	10	38-54	14873-10466	7.5	38-52	11154-8151
	15	38-54	22309-15699	15	58-80	14616-10597	10	54-80	10466-7065
	20	54-78	20932-14491	20	78-110	14491-10276	15	85-110	9973-7707
	25	70-95	20184-14873	25	100-125	14129-11303	20	110-125	10276-9043
	30	85-115	19947-14743	-	-	-	-	-	-
	40	110-125	20551-18085	-	-	-	-	-	-
WSMR5-25/1	2	4-5	28258-22606	1.5	4-5	21194-16955	1	4-5	14129-11303
	3	6-8	28258-21194	2	5-6	22606-18839	1.5	6-7	14129-12111
	5	10-14	28258-20184	3	8-14	21194-12111	2	8-12	14129-9419
	7.5	16-24	26492-17661	5	16-24	17661-11774	3	14-22	12111-7707
	10	24-34	23548-16622	7.5	24-34	17661-12467	5	24-34	11774-8311
	15	38-54	22309-15699	10	38-54	14873-10466	7.5	38-52	11154-8151
	20	54-78	20932-14491	15	58-80	14616-10597	10	54-78	10466-7246
	25	70-80	20184-17661	20	78-80	14491-14129	-	-	-
WSMR6-9/1	50	78-105	36581-27175	30	78-90	21949-19022	25	78-95	18291-15018
	60	95-125	36042-27392	40	90-120	25363-19022	30	95-120	18021-14267
	75	120-200	35667-21400	50	110-150	25939-19022	40	125-150	18261-15218
	-	-	-	60	130-180	26338-19022	50	160-200	17833-14267
	-	-	-	75	160-200	26750-21400	60	190-200	18021-17120
WSMR6-15/1	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-74	18231-15275
	40	62-85	36462-26596	30	66-90	25689-18839	25	78-95	18114-14873
	50	78-105	36228-26912	40	90-120	25118-18839	30	95-125	17847-13564
	60	95-125	35694-27128	-	-	-	-	-	-
WSMR6-25/1	3	4-5	42387-33910	2	4-5	28258-22606	1.5	4-5	21194-16955
	5	6-8	47097-35323	3	6-8	28258-21194	2	6-7	18839-16147
	7.5	10-12	42387-35323	5	10-12	28258-23548	3	8-12	21194-14129
	10	14-18	40369-31398	7.5	14-18	30276-23548	5	14-18	20184-15699
	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-70	18231-16147
	40	62-80	36462-28258	30	66-78	25689-21737	-	-	-
WSMR7-15/1	20	18-22	62796-51378	20	26-34	43474-33245	10	16-24	35323-23548
	25	22-30	64223-47097	25	32-46	44153-30715	15	26-34	32605-24934
	30	26-38	65211-44618	30	40-58	42387-29232	20	38-46	29745-24572
	40	38-54	59491-41864	40	58-80	38977-28258	25	50-62	28258-22789
	50	50-74	56516-38187	50	74-100	38188-28259	30	62-80	27346-21194
	60	62-85	54696-39896	60	90-115	37679-29488	40	85-100	26596-22607
	75	90-115	47099-36860	-	-	-	50	105-115	26914-24573

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Ultimate Shaft Mount Reducer

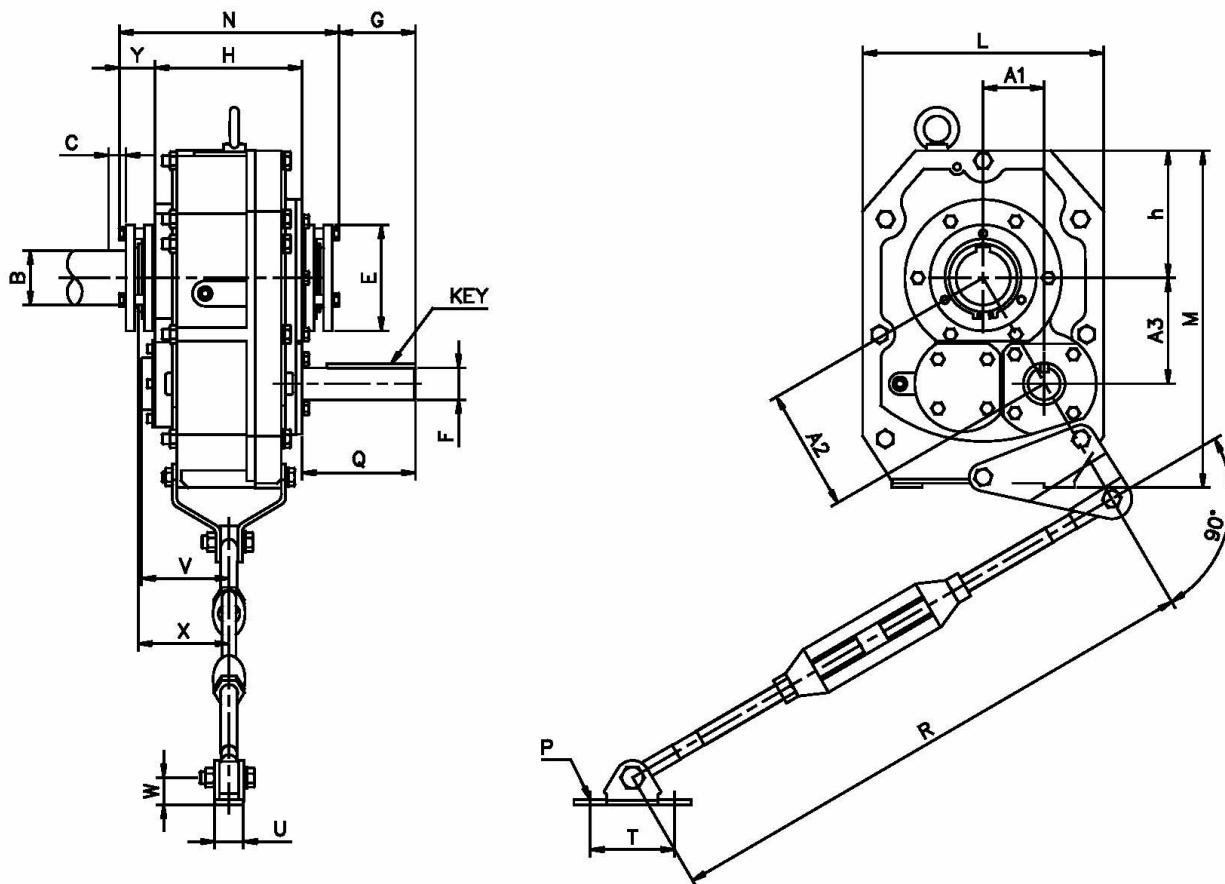


Ultimate WSMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
WSMR7-25/1	5	4-5	70645-56516	3	4-5	42387-33910	3	5-7	33910-24221
	7.5	6-7	70645-60553	5	6-7	47097-40369	5	8-10	35323-28258
	10	8-10	70645-56516	7.5	8-10	52984-42387	7.5	12-14	35323-30276
	15	12-16	70645-52984	10	12-16	47097-35323	10	16-24	35323-23548
	20	16-22	70645-51378	15	18-26	47097-32605	15	26-34	32605-24934
	25	22-30	64223-47097	20	24-34	47097-33245	20	38-46	29745-24572
	30	26-38	65211-44618	25	32-46	44153-30715	25	50-62	28258-22789
	40	38-54	59491-41864	30	40-58	42387-29232	30	62-80	27346-21195
	50	50-74	56516-38187	40	58-74	38977-30549	-	-	-
WSMR8-15/1	60	62-80	54696-42389	50	74-80	38188-35324	-	-	-
	40	20-30	113032-75355	25	20-26	70645-54342	15	18-20	47097-42387
	50	28-40	100922-70645	30	22-32	77067-52984	20	20-26	56516-43474
	60	34-46	99734-73717	40	32-46	70645-49144	25	28-34	50461-41556
	75	45-70	94193-60553	50	40-58	70645-48721	30	34-46	49867-36858
	100	62-85	91159-66493	60	50-74	67819-45824	40	50-58	45213-38977
	125	80-125	88310-56519	75	66-90	64223-47099	50	62-78	45577-36228
	-	-	-	100	90-125	62799-45215	60	78-95	43474-35696
	-	-	-	-	-	-	75	95-125	44620-33911
WSMR8-25/1	7.5	4-5	105968-84774	5	4-5	70645-56516	3	4-5	42387-33910
	10	6-7	94193-80737	7.5	6-7	70645-60553	5	5-7	56516-40369
	15	8-9	105968-94193	10	8-9	70645-62796	7.5	7-9	60553-47097
	20	10-12	113032-94193	15	10-14	84774-60553	10	10-14	56516-40369
	25	12-16	117742-88306	20	14-20	80737-56516	15	16-20	52984-42387
	30	16-20	105968-84774	25	18-26	78495-54342	20	20-26	56516-43474
	40	20-30	113032-75355	30	22-32	77067-52984	25	28-34	50461-41556
	50	28-40	100922-70645	40	32-46	70645-49144	30	34-46	49867-36858
	60	34-46	99734-73717	50	40-58	70645-48721	40	50-58	45213-38977
	75	45-70	94193-60553	60	50-74	67819-45824	50	62-80	45577-35324
WSMR9-15/1	100	62-80	91159-70648	75	66-80	64223-52986	-	-	-
	50	18-26	156989-108685	30	20-22	84774-77067	25	18-22	78495-64223
	60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
	75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
	100	45-58	125597-97449	60	34-50	99734-67819	50	45-52	62796-54342
	125	54-80	130830-88310	75	45-66	94193-64226	60	52-66	65211-42387
	150	70-125	121111-67822	100	62-90	91159-62799	75	70-90	60556-47099
WSMR9-25/1	-	-	-	125	85-125	83116-56519	100	95-125	59493-45215
	15	5-6	169548-141290	7.5	4-5	105968-84774	5	4-5	70645-56516
	20	6-8	188387-141290	10	4-6	141290-94193	7.5	5-6	84774-70645
	25	8-10	176613-141290	15	8-9	105968-94193	10	6-8	94193-70645
	30	10-14	169548-121106	20	10-12	113032-94193	15	10-12	84774-70645
	40	14-20	161475-113032	25	12-16	117742-88306	20	14-16	80737-70645
	50	18-26	156989-108685	30	16-22	105968-77067	25	18-22	78495-64223
	60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
	75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
	100	45-62	125597-91159	60	34-50	99734-67819	50	45-52	62796-54342
	125	54-78	130830-90575	75	45-62	94193-68369	60	52-66	65211-51381
	-	-	-	100	62-78	91159-72460	75	70-78	60556-54345

* All output torque ratings listed in inch-pounds

Ultimate WSMR Series Reducers: Drawings and Dimensions



All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.38 11.41	7.32	1.125 0.25 x 0.125 x 2.50	1 15/16	1.25	4.06 2.22	1.06 1.25	3.68 2.89	3.59 1.4	4.56	2.14 4.32	3.75 4.09	26.94 32.94	0.44 3
3	9.25 12.88	9.22	1.25 0.25 x 0.125 x 2.875	2 3/16	1.5	4.38 2.34	1.06 1.25	4.52 3.3	4.34 1.59	5.63	2.33 4.78	4.17 4.84	26.94 32.94	0.44 3
4	10.38 15.13	9.98	1.4375 0.375 x 0.188 x 4.06	2 7/16	1.75	4.81 3.44	1.75 1.44	4.79 3.41	5.57 1.72	6.13	2.76 5.53	4.79 5.5	29.19 35.19	0.55 4
5	13.13 18.31	10.52	1.9375 0.50 x 0.25 x 4.50	2 15/16	1.81	5.63 3.44	1.75 1.44	5.05 4.45	5.74 1.91	6.31	3.04 6.43	5.67 6.56	29.19 35.19	0.5 4
6	15.13 21.31	11.53	2.1875 0.50 x 0.25 x 4.50	3 7/16	1.81	6.13 3.73	2 2.75	5.73 4.57	6.08 2.3	6.88	4.09 7.88	6.71 7.56	29.19 35.19	0.63 4.75
7	18.75 25.94	12.85	2.4375 0.625 x 0.312 x 4.75	3 15/16	2.06	7.25 3.75	2 2.75	6.38 4.69	6.35 2.5	7.75	5.11 9.74	8.3 9.38	29.44 35.44	0.63 4.75
8	20.25 28.25	14.03	2.4375 0.625 x 0.312 x 5.375	4 7/16	2.06	7.75 4.31	3.13 4	7.04 5.85	7.11 2.86	8.37	6.03 11.25	9.5 10.13	30 36	0.75 7
9	22.63 31.69	14.12	2.4375 0.625 x 0.312 x 7.75	4 15/16	2.44	8.75 6.63	3.13 4	7.04 5.66	9.65 2.98	8.12	6.59 12.66	10.81 11.31	30 36	0.75 7

Dimensions shown in this catalog are for general use only.
 For an exact drawing on a specific rating, please contact our sales office.

Competitive Interchange, Ratios 9:1 and 15:1

9:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
SCSMR2-9/1 WSMR2-9/1	TXT209AT	PT2115S09	115SMTP09	CGUSM2-09
SCSMR3-9/1 WSMR3-9/1	TXT309AT	PT3203S09	203SMTP09	CGUSM3-09
SCSMR4-9/1 WSMR4-9/1	TXT409AT	PT4207S09	207SMTP09	CGUSM4-09
SCSMR5-9/1 WSMR5-9/1	TXT509AT	PT5215S09	215SMTP09	CGUSM5-09
SCSMR6-9/1 WSMR6-9/1	TXT609AT	PT6307S09	307SMTP09	CGUSM6-09

15:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
SMR2-15/1 SCSMR2-15/1 WSMR2-15/1	TXT215AT	PT2115S15	115SMTP15	CGUSM2-15
SMR3-15/1 SCSMR3-15/1 WSMR3-15/1	TXT315AT	PT3203S15	203SMTP15	CGUSM3-15
SMR4-15/1 SCSMR4-15/1 WSMR4-15/4	TXT415AT	PT4207S15	207SMTP15	CGUSM4-15
SMR5-15/1 SCSMR5-15/1 WSMR5-15/1	TXT515AT	PT5215S15	215SMTP15	CGUSM5-15
SMR6-15/1 SCSMR6-15/1 WSMR6-15/1	TXT615AT	PT6307S15	307SMTP15	CGUSM6-15
SMR7-15/1 SCSMR7-15/1 WSMR7-15/1	TXT715AT	PT7315S15	315SMTP15	CGSM7- 15
SMR8-15/1 SCSMR8-15/1 WSMR8-15/1	TXT815AT	PT8407S15	407SMTP15	CGSM8-15
SMR9-15/1 SCSMR9-15/1 WSMR9-15/1	TXT915AT	PT9415S15	415SMTP15	CGSM9-15
SMR10-15/1 SCSMR10-15/1	TXT1015AT	PT10507S15	507SMT15	CGSM10-15
SMR12-15/1	TXT1215TV	-	608SMTP15	-

Continued On Next Page

Competitive Interchange, Ratios 25:1

1

25:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
SMR2-25/1 SCSMR2-25/1 WSMR2-25/1	TXT225AT	PT2115S25	115SMTP25	CGUSM2-25
SMR3-25/1 SCSMR3-25/1 WSMR3-25/1	TXT325AT	PT3203S25	203SMTP25	CGUSM3-25
SMR4-25/1 SCSMR4-25/1 WSMR4-25/4	TXT425AT	PT4207S25	207SMTP25	CGUSM4-25
SMR5-25/1 SCSMR5-25/1 WSMR5-25/1	TXT525AT	PT5215S25	215SMTP25	CGUSM5-25
SMR6-25/1 SCSMR6-25/1 WSMR6-25/1	TXT625AT	PT6307S25	307SMTP25	CGUSM6-25
SMR7-25/1 SCSMR7-25/1 WSMR7-25/1	TXT725AT	PT7315S25	315SMTP25	CGSM7-25
SMR8-25/1 SCSMR8-25/1 WSMR8-25/1	TXT825AT	PT8407S25	407SMTP25	CGSM8-25
SMR9-25/1 SCSMR9-25/1 WSMR9-25/1	TXT925AT	PT9415S25	415SMTP25	CGSM9-25
SMR10-25/1 SCSMR10-25/1	TXT1025AT	PT10507S25	507SMT25	CGSM10-25
SMR12-25/1	TXT1225TV	-	-	-

Backstop Assemblies



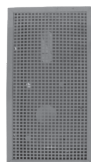
- » Easy mount for WorldWide shaft mount reducers
- » Smooth forward operation of conveyor with no backslip
- » WSMR backstops are also compatible with the Eliminator SCSMR series.

Box Size	Model Number (1)	Model Number (2)	List Price
2	SMR2BSK	WSMR2BSK	\$276.70
3	SMR3BSK	WSMR3BSK	\$354.08
4	SMR4BSK	WSMR4BSK	\$354.08
5	SMR5BSK	WSMR5BSK	\$420.50
6	SMR6/7BSK	WSMR6BSK	\$796.75
7	SMR6/7BSK	WSMR7BSK	\$796.75
8	SMR8/9BSK	WSMR8BSK	\$1,745.22
9	SMR8/9BSK	WSMR9BSK	\$1,745.22
10	SMR10/12BSK	SCSMR10BSK	\$1,877.58
12	SMR10/12BSK	--	\$1,877.58

(1) Use SMR#BSK model number backstop assemblies for WorldWide Electric Original series shaft mount reducers.

(2) Use WSMR#BSK model number backstop assemblies for WorldWide Electric's Ultimate (WSMR) or Eliminator (SCSMR) series shaft mount reducers. The SCSMR10BSK is compatible with the SCSMR10 only.

Belt Guards

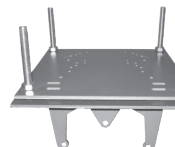


- » Hinged design for easy access to belts and sheaves
- » Slotted metal panel construction
- » Assembles to reducer and motor mount holes
- » Easy mount for WorldWide shaft mount reducers

Box Size	Model Number	List Price
2	BG2	\$500.93
3	BG3	\$569.35
4	BG4	\$653.07
5	BG5	\$720.16
6	BG6	\$820.52
7	BG7	\$965.33
8	BG8	\$1,135.67
9	BG9	\$1,579.75
10	BG10	\$1,710.32
12	BG12	\$2,105.78

* WWE belt guards are painted orange. Yellow belt guards are available by adding the suffix "Y" to the model number (i.e. BG2Y is a box size 2 belt guard painted yellow).

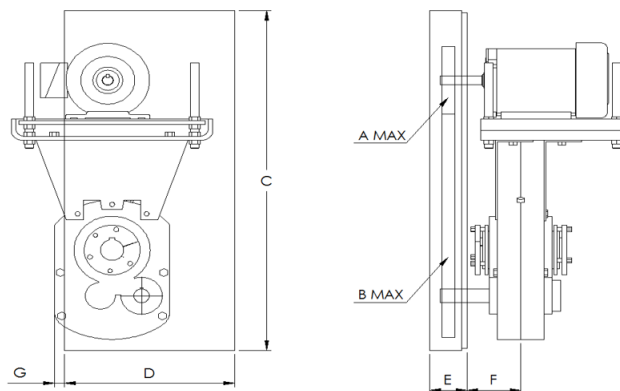
Motor Mounts



- » Heavy gauge steel construction for NEMA frame motors
- » Adjustable top plate for belt tensioning

Box Size	NEMA Frame	Model Number	List Price
2	56-215T	MM2	\$501.30
3	56-215T	MM3A	\$515.67
4	143T-286T	MM4	\$803.40
5	143T-286T	MM5A	\$803.40
6	143T-326T	MM6A	\$1,117.68
7	143T-365T	MM7	\$1,198.83
8	213T-365T	MM8A	\$1,438.58
9	284T-365T	MM9	\$1,438.58
9	404T-445T	MM9L	\$1,976.51
10	254T-365T	MM10	\$1,615.94
10	404T-445T	MM10L	\$2,685.84
12	286T-445T	MM12	\$4,174.16

Maximum Allowable Sheave Sizes for Belt Guards



Reducer Size	Belt Guard Size	Motor Mount Part Number	NEMA Motor Frame	Center Distances		A	B	C	D	E	F	G
				Min	Max							
SMR2, WSMR2, SCSMR2	BG2	MM2	56T-215T	18.7	23.9	6	12	34	15	4	3.5	---
SMR3, WSMR3, SCSMR3	BG3	MM3A	56T-215T	20.2	26.3	7	14	37	17	4	3.94	---
SMR4, WSMR4, SCSMR4	BG4	MM4	143T-286T	21.2	28.7	7	15	43	18	4.5	5.19	---
SMR5, WSMR5, SCSMR5	BG5	MM5A	143T-286T	22.7	31.1	7	15	45	18	4.25	5.13	0.625
SMR6, WSMR6, SCSMR6	BG6	MM6A	143T-326T	25.9	34.2	8	18	50	20	6	6.06	1.63
SMR7, WSMR7, SCSMR7	BG7	MM7	143T-365T	30.6	40.0	10	20	56	23	6	6.88	0.5
SMR8, WSMR8, SCSMR8	BG8	MM8A	213T-365T	35.5	44.2	12	25	63	27	6.5	7.46	0.156
SMR9, WSMR9, SCSMR9	BG9	MM9	284T-365T	38.0	46.7	12	25	66	30	9	7.63	2.91
SMR10, SCSMR10	BG10	MM10	284T-365T	42.6	50.2	12	25	72.5	30	9	8.25	4.31
SMR12	BG12	MM12	320T-445T	58.1	66.6	15	30	91	34	9.5	8.13	---

V-Belt Drive Center Distances for MM Series Motor Mounts

1

ACCESSORIES
AND PARTS

Motor Mount	SMR Size	Center Distances For Various NEMA Motor Frames (Table ratings for 1800 RPM Motors only.)																			
		56C		143/5T		182/4T		213/5T		254/6T		284/6T		324/6T		364/5T		404/5T		444/5T	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MM2	SMR2 SCSMR2 WSMR2	18.7	22.1	18.7	22.1	19.7	23.1	20.5	23.9	---	---	---	---	---	---	---	---	---	---	---	---
MM3A	SMR3 SCSMR3 WSMR3	20.2	23.6	20.2	23.6	21.2	24.6	22.0	25.3	23.0	26.3	---	---	---	---	---	---	---	---	---	---
MM4	SMR4 SCSMR4 WSMR4	---	---	21.2	25.2	22.2	26.2	23.0	26.9	23.9	27.9	24.7	28.7	---	---	---	---	---	---	---	---
MM5A	SMR5 SCSMR5 WSMR5	---	---	22.7	26.6	23.7	27.6	24.4	28.4	25.4	29.4	26.2	30.1	27.2	31.1	---	---	---	---	---	---
MM6A	SMR6 SCSMR6 WSMR6	---	---	25.9	29.7	26.9	30.7	27.6	31.4	28.6	32.4	29.4	33.2	30.4	34.2	---	---	---	---	---	---
MM7	SMR7 SCSMR7 WSMR7	---	---	30.6	34.4	31.6	35.4	32.4	36.2	33.4	37.2	34.1	37.9	35.1	38.9	36.1	40.0	36.1	40.0	36.1	40.0
MM8	SMR8 SCSMR8 WSMR8	---	---	---	---	---	---	35.5	40.5	36.4	41.2	37.2	42.2	38.2	43.2	39.2	44.2	39.2	44.2	39.2	44.2
MM9	SMR9 SCSMR9 WSMR9	---	---	---	---	---	---	38.0	43.0	39.0	44.0	39.8	44.7	40.7	45.7	41.7	46.7	41.7	46.7	41.7	46.7
MM10	SMR10 SCSMR10	---	---	---	---	---	---	---	---	42.6	47.5	43.3	48.2	44.3	49.2	45.3	50.2	45.3	50.2	45.3	50.2
MM12	SMR12	---	---	---	---	---	---	---	---	---	---	57.0	61.0	57.7	62.1	58.7	63.1	59.7	64.1	60.7	65.1

Torque Arms



- » Included with every shaft mount reducer
- » Heavy gauge steel construction
- » Machine precision ground interlocking parts for easy and accurate tensioning and tightening
- » SMR torque arms are compatible with the Original SMR series only.
- » WSMR torque arms are compatible with the Ultimate WSMR series and the Eliminator SCSMR series. The SCSMR10-TA is compatible with the SCSMR10 only.

Box Size	Model Number	List Price	Model Number	List Price
2	SMR2-TA	\$77.16	WSMR2-TA	\$116.97
3	SMR3-TA	\$77.16	WSMR3-TA	\$116.97
4	SMR4-TA	\$137.89	WSMR4-TA	\$137.89
5	SMR5-TA	\$137.89	WSMR5-TA	\$151.43
6	SMR6-TA	\$206.13	WSMR6-TA	\$270.86
7	SMR7-TA	\$403.62	WSMR7-TA	\$433.38
8	SMR8-TA	\$510.33	WSMR8-TA	\$695.63
9	SMR9-TA	\$510.33	WSMR9-TA	\$695.63
10	SMR10-TA	\$608.82	SCSMR10-TA	\$887.78
12	SMR12-TA	\$937.15	--	--

Original SMR Rebuild Kits

Rebuild Kit is compatible with the Original SMR Series.

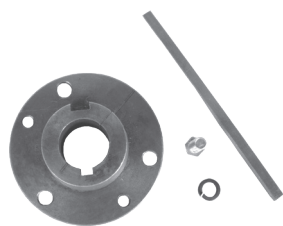


Kits Include (Sold As Kit Only):

- » High speed input shaft
- » First gear reduction gear
- » Input bearings
- » Input seal
- » Output seals

Box Size	Ratio	Model Number	List Price
3	15:1 25:1	SMR315RBKIT SMR325RBKIT	\$523.93
4	15:1 25:1	SMR415RBKIT SMR425RBKIT	\$645.35
5	15:1 25:1	SMR515RBKIT SMR525RBKIT	\$859.78
6	15:1 25:1	SMR615RBKIT SMR625RBKIT	\$1,158.34
7	15:1 25:1	SMR715RBKIT SMR725RBKIT	\$1,424.49
8	15:1 25:1	SMR815RBKIT SMR825RBKIT	\$1,754.46
9	15:1 25:1	SMR915RBKIT SMR925RBKIT	\$2,246.94
10	15:1 25:1	SMR1015RBKIT SMR1025RBKIT	\$3,760.07
12	25:1	SMR1225RBKITWIP	\$8,277.371

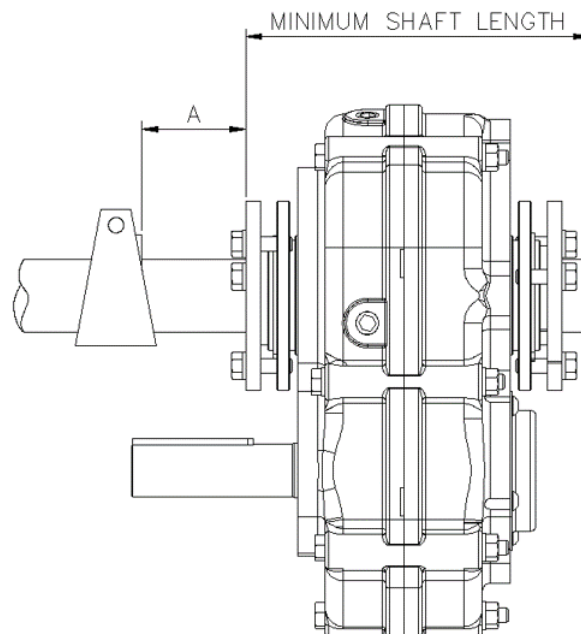
Tapered Bushing Kits



- » Sized for WorldWide shaft mount reducers
- » Interchangeable with other manufacturers
- » Fast and simple installation
- » Tapered support on both sides of the reducer
- » Includes fastening bolts and a full length shaft key

Box Size	Bushing Size (in.)	Model Number	List Price
2	1-3/16	2WTBK-1.316	\$173.26
	1-1/4	2WTBK-1.14	
	1-5/16	2WTBK-1.516	
	1-3/8	2WTBK-1.38	
	1-7/16	2WTBK-1.716	
	1-1/2	2WTBK-1.12	
	1-5/8	2WTBK-1.58	
	1-11/16	2WTBK-1.1116	
	1-3/4	2WTBK-1.34	
	1-15/16	2WTBK-1.1516	
3	1-11/16	3WTBK-1.1116	\$213.20
	1-3/4	3WTBK-1.34	
	1-15/16	3WTBK-1.1516	
	2	3WTBK-2	
4	2-3/16	3WTBK-2.316	\$293.92
	1-15/16	4WTBK-1.1516	
	2	4WTBK-2	
	2-3/16	4WTBK-2.316	
	2-1/4	4WTBK-2.14	
5	2-7/16	4WTBK-2.716	\$404.88
	2-3/16	5WTBK-2.316	
	2-7/16	5WTBK-2.716	
	2-1/2	5WTBK-2.12	
	2-11/16	5WTBK-2.1116	
6	2-15/16	5WTBK-2.1516	\$526.71
	2-1/2	6WTBK-2.12	
	2-11/16	6WTBK-2.1116	
	2-15/16	6WTBK-2.1516	
	3	6WTBK-3	
7	3-7/16	6WTBK-3.716	\$708.21
	2-7/16	7WTBK-2.716	
	2-11/16	7WTBK-2.1116	
	2-15/16	7WTBK-2.1516	
	3	7WTBK-3	
	3-3/16	7WTBK-3.316	
8	3-7/16	7WTBK-3.716	\$858.71
	3-15/16	7WTBK-3.1516	
	2-15/16	8WTBK-2.1516	
	3-7/16	8WTBK-3.716	
	3-15/16	8WTBK-3.1516	
9	4-3/16	8WTBK-4.316	\$1,009.20
	4-7/16	8WTBK-4.716	
	3-7/16	9WTBK-3.716	
	3-15/16	9WTBK-3.1516	
	4-7/16	9WTBK-4.716	
10	4-15/16	9WTBK-4.1516	\$1,158.31
	3-15/16	10WTBK-3.1516	
	4-7/16	10WTBK-4.716	
	4-15/16	10WTBK-4.1516	
	5-7/16	10WTBK-5.716	
12	5-7/16	12WTBK-5.716	\$2,239.67
	5-15/16	12WTBK-5.1516	
	6	12WTBK-6	
	6-7/16	12WTBK-6.716	
	6-1/2	12WTBK-6.12	

Minimum Mounting Dimensions



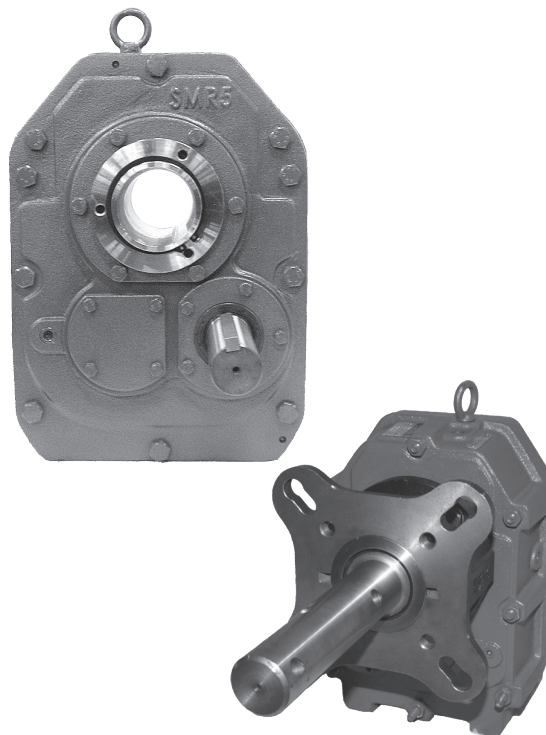
Preferred Minimum Required Shaft Length	
Reducer Size	Preferred Minimum Required Shaft Length (inches)
SMR2, WSMR2, SCSMR2	7.84
SMR3, WSMR3, SCSMR3	9.93
SMR4, WSMR4, SCSMR4	10.71
SMR5, WSMR5, SCSMR5	11.48
SMR6, WSMR6, SCSMR6	12.49
SMR7, WSMR7, SCSMR7	13.73
SMR8, WSMR8, SCSMR8	14.91
SMR9, WSMR9, SCSMR9	15.11
SMR10, SCSMR10	16.62
SMR12	19.81

Bushing Screw Information and Minimum Clearance for Removal			
Reducer Size	Fastener Size	Torque (in.-lbs)	Dimension A
SMR2, WSMR2, SCSMR2	5/16-18	200	1.25
SMR3, WSMR3, SCSMR3	3/8-16	360	1.5
SMR4, WSMR4, SCSMR4	3/8-16	360	1.75
SMR5, WSMR5, SCSMR5	7/16-14	800	1.81
SMR6, WSMR6, SCSMR6	7/16-14	800	1.81
SMR7, WSMR7, SCSMR7	1/2-13	1000	2.06
SMR8, WSMR8, SCSMR8	1/2-13	1000	2.06
SMR9, WSMR9, SCSMR9	5/8-11	1900	2.44
SMR10, SCSMR10	5/8-11	1900	2.44
SMR12	5/8-11	1900	2.44

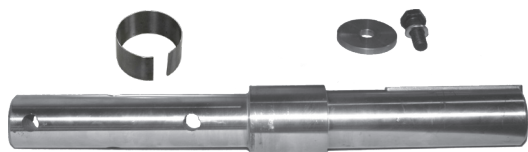
Screw Conveyor Components for Eliminator SCSMR & Ultimate WSMR Series Reducers

Product Specifications (for screw conveyor applications)

- » 9:1, 15:1 and 25:1 ratios
- » Box sizes 2 - 6
- » Heavy duty FCD45 cast iron housing for corrosion resistance
- » CEMA adapter flange bolt-on design allows for easy mounting
- » Drive shaft machined from high strength alloy steel
- » Hardened gears for long-life, A.G.M.A. rated class 11
- » Double lip seal and braided felt seal installed
- » Flat bottom with four (4) tapped holes for additional mounting flexibility
- » Compatible with the Ultimate WSMR and Eliminator SCSMR series shaft mount reducers.



Screw Conveyor Drive Shafts



- » Machined from high tensile strength alloy steel
- » Conforms to CEMA standards
- » Three-hole design for easy installation onto screw

Box Size	Model Number	Drive Shaft Size (inches)	List Price
2	2SCDS-1.12	1 1/2"	\$326.32
	2SCDS-2	2"	\$326.32
	2SCDS-2.716	2 7/16"	\$411.83
	2SCDS-3	3"	\$411.83
3	3SCDS-1.12	1 1/2"	\$423.63
	3SCDS-2	2"	\$423.63
	3SCDS-2.716	2 7/16"	\$423.63
	3SCDS-3	3"	\$484.94
4	4SCDS-1.12	1 1/2"	\$494.16
	4SCDS-2	2"	\$494.16
	4SCDS-2.716	2 7/16"	\$494.16
	4SCDS-3	3"	\$542.35
5	4SCDS-3.716	3 7/16"	\$575.59
	5SCDS-2	2"	\$615.34
	5SCDS-2.716	2 7/16"	\$615.34
	5SCDS-3	3"	\$615.34
6	5SCDS-3.716	3 7/16"	\$622.25
	6SCDS-2.716	2 7/16"	\$825.51
	6SCDS-3	3"	\$825.51
	6SCDS-3.716	3 7/16"	\$924.58

Screw Conveyor Flanges



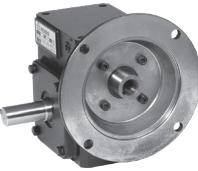
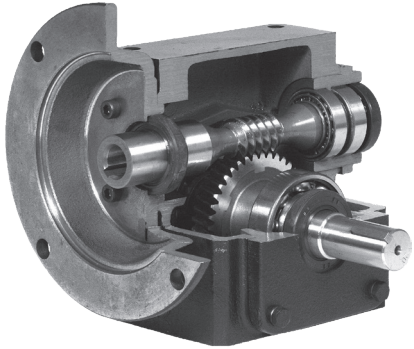
- » Conforms to CEMA standards
- » Bolt-on design allows for easy mounting
- » Heavy duty FCD45 cast iron construction
- » Double lip seal and braided felt seal installed

Box Size	Model Number	List Price
2	2SCF	\$307.27
3	3SCF	\$351.19
4	4SCF	\$405.43
5	5SCF	\$471.60
6	6SCF	\$604.21

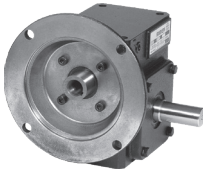
HD Cast Iron Worm Gear Reducers: Overview

Product Specifications

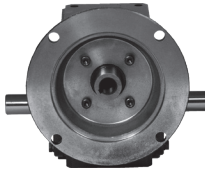
- » 5:1 - 60:1 ratios
- » Box sizes (Center distances of 1.33" to 3.25")
- » One piece # FC20 all cast iron housing
- » Embedded double-lip oil seals
- » Double bearings used on both shaft ends
- » Anti-rust primer applied outside gearbox before top painting
- » S45C carbon steel shafts
- » AIBC3 aluminum - bronze gear
- » Interior oil channel guide directly and constantly lube bearings
- » Tapered roller bearing on output and input shafts
- » All angle - radiused mounting holes
- » Air dry special black paint
- » Shaft sleeve protects all shafts
- » Compact design
- » Units filled with Mobil #SHC632 synthetic oil for "A" position mounting
- » Adjust oil level for alternative mounting positions
- » Universally interchangeable
- » 1 year warranty



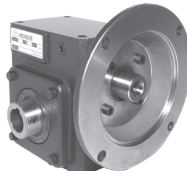
Flange Input
Shaft Output
Left Hand Output



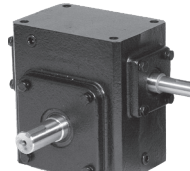
Flange Input
Shaft Output
Right Hand Output



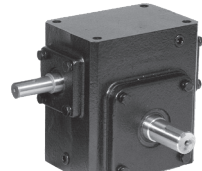
Flange Input
Shaft Output
Double End Output



Flange Input
Hollow Bore Output



Shaft Input
Shaft Output
Left Hand Output



Shaft Input
Shaft Output
Right Hand Output

2

HEAVY DUTY
CAST IRON REDUCERS

HD Cast Iron Worm Gear Reducers: How To Order

» Please use the following table and nomenclature for ordering WorldWide Electric Worm Gear Reducers

Style	Box Size	Ratio	Output	Motor Frame*
S - Shaft Input	133	5:1	L - Left Hand	56C
F - Flange Input	154	10:1	R - Right Hand	145TC
	175	15:1	DE - Double End	182/4TC
	206	20:1	H - Hollow Bore	
	237	30:1		
	262	40:1		
	325	50:1		
		60:1		*Leave Blank for Shaft Input
HdR _____	_____	____/____	_____	_____

HD Cast Iron Worm Gear Reducers: Mechanical Ratings

Input Speed		1750 RPM									
Box Size	Ratio	Mechanical (1.0 SF)			Thermal			Efficiency (%)	O.H.L. (lbs.)	Output Shaft Thrust Load (lbs.)	Backlash (ft.) (Angular Minutes)
		Input HP	Output Torque (lbs. in.)	Output HP	Input HP	Output Torque (lbs. in.)	Output HP				
133	5:1	1.15	209	1.05	1.15	209	1.05	91	300	300	27
	10:1	0.77	247	0.66	0.75	240	0.64	86			
	15:1	0.63	283	0.50	0.53	238	0.42	80			
	20:1	0.50	276	0.39	0.48	266	0.38	78			
	25:1	0.48	321	0.36	0.42	282	0.32	75			
	30:1	0.47	336	0.31	0.31	221	0.20	66			
	40:1	0.38	356	0.25	0.30	282	0.19	65			
	50:1	0.29	312	0.17	0.26	282	0.15	59			
154	60:1	0.23	261	0.12	0.22	252	0.12	53	450	400	23
	5:1	2.04	341	1.88	2.04	341	1.88	92			
	10:1	1.03	327	0.90	1.03	327	0.90	88			
	15:1	0.78	363	0.67	0.78	363	0.67	86			
	20:1	0.65	384	0.53	0.65	384	0.53	81			
	25:1	0.53	354	0.40	0.53	354	0.40	75			
	30:1	0.48	388	0.36	0.48	388	0.36	74			
	40:1	0.40	397	0.27	0.40	397	0.27	68			
175	50:1	0.34	407	0.22	0.34	407	0.22	66	650	550	20
	60:1	0.29	373	0.17	0.29	373	0.17	59			
	5:1	2.83	499	2.62	2.28	402	2.11	93			
	10:1	1.57	515	1.38	1.36	445	1.19	88			
	15:1	1.24	554	1.06	1.13	506	0.96	85			
	20:1	1.02	596	0.85	0.98	572	0.81	83			
	25:1	0.82	547	0.61	0.66	441	0.49	75			
	30:1	0.78	666	0.56	0.69	533	0.50	69			
206	40:1	0.74	714	0.49	0.59	558	0.39	62	700	750	17
	50:1	0.50	575	0.32	0.50	575	0.32	59			
	60:1	0.38	469	0.20	0.38	469	0.20	52			
	5:1	3.62	685	3.33	2.57	486	2.36	92			
	10:1	2.77	935	2.50	2.10	708	1.89	90			
	15:1	2.09	1002	1.78	1.40	673	1.20	85			
	20:1	1.57	914	1.29	1.17	681	0.96	82			
	25:1	1.48	1016	1.14	0.89	607	0.68	77			
237	30:1	1.65	1310	1.21	0.76	606	0.56	73	900	900	17
	40:1	1.09	1120	0.77	0.71	726	0.50	71			
	50:1	0.74	830	0.46	0.54	606	0.33	62			
	60:1	0.60	750	0.35	0.48	606	0.28	58			
	5:1	4.57	798	4.24	3.56	630	3.31	93			
	10:1	3.47	1158	3.09	2.24	746	1.99	89			
	15:1	2.64	1249	2.22	1.55	732	1.30	84			
	20:1	2.06	1195	1.69	1.36	791	1.12	82			
262	25:1	1.85	1297	1.45	1.13	793	0.89	78	1000	1000	17
	30:1	1.82	1507	1.39	1.02	847	0.78	76			
	40:1	1.45	1483	1.02	0.83	845	0.58	71			
	50:1	1.32	1527	0.84	0.67	779	0.43	64			
	60:1	0.86	1149	0.53	0.63	844	0.39	61			
	100:1	0.39	809	0.23	0.39	809	0.23	58			
	5:1	5.24	924	4.86	4.32	761	4.00	93			
	10:1	4.17	1445	3.74	3.06	1061	2.75	90			
325	15:1	3.22	1577	2.81	2.47	1212	2.16	87	1200	1100	15
	20:1	2.67	1563	2.21	1.84	1078	1.53	83			
	25:1	2.37	1707	1.91	1.62	1167	1.30	81			
	30:1	2.22	1827	1.68	1.30	1072	0.99	76			
	40:1	1.85	1919	1.32	1.11	1153	0.80	72			
	50:1	1.37	1658	0.92	0.95	1152	0.64	67			
	60:1	1.16	1670	0.77	0.94	1346	0.62	66			
	5:1	9.72	1724	9.06	6.93	1228	6.46	93			
	10:1	7.19	2419	6.46	4.63	1558	4.16	90			
	15:1	5.45	2611	4.65	3.19	1527	2.72	85			
	20:1	4.74	2875	4.07	3.31	2011	2.85	86			
	25:1	3.85	2838	3.17	2.67	1965	2.20	82			
	30:1	3.66	3045	2.80	2.00	1661	1.53	77			
	40:1	3.35	3692	2.55	1.96	2156	1.49	76			
	50:1	2.49	3413	1.88	1.92	2637	1.46	76			
	60:1	2.03	3127	1.44	1.61	2476	1.14	71			

* Thermal limit ratings - max. input HP at 20 °C ambient temperature with Mobil SHC 632 lubricant

HD Cast Iron Worm Gear Reducers: Flange Input, Shaft Output

Ratio	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number Left Hand Output	Model Number Right Hand Output	Model Number Double End Output	List Price
5:1	350	1.33	56C	17	HdRF133-5/1-L-56C	HdRF133-5/1-R-56C	HdRF133-5/1-DE-56C	\$275.79
		1.54	56C	22	---	HdRF154-5/1-R-56C	HdRF154-5/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-5/1-L-56C	HdRF175-5/1-R-56C	HdRF175-5/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-5/1-L-56C	HdRF206-5/1-R-56C	HdRF206-5/1-DE-56C	\$423.53
		2.37	56C	38	HdRF237-5/1-L-56C	HdRF237-5/1-R-56C	HdRF237-5/1-DE-56C	\$509.71
		2.62	182/4TC	53	HdRF262-5/1-L-182/4TC	HdRF262-5/1-R-182/4TC	HdRF262-5/1-DE-182/4TC	\$549.11
		3.25	182/4TC	90	HdRF325-5/1-L-182/4TC	HdRF325-5/1-R-182/4TC	HdRF325-5/1-DE-182/4TC	\$775.65
10:1	175	1.33	56C	17	HdRF133-10/1-L-56C	HdRF133-10/1-R-56C	HdRF133-10/1-DE-56C	\$275.79
		1.54	56C	22	HdRF154-10/1-L-56C	HdRF154-10/1-R-56C	HdRF154-10/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-10/1-L-56C	HdRF175-10/1-R-56C	HdRF175-10/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-10/1-L-56C	HdRF206-10/1-R-56C	HdRF206-10/1-DE-56C	\$423.53
		2.37	56C	38	HdRF237-10/1-L-56C	HdRF237-10/1-R-56C	HdRF237-10/1-DE-56C	\$509.71
		2.37	145TC	53	HdRF237-10/1-L-145TC	HdRF237-10/1-R-145TC	HdRF237-10/1-DE-145TC	\$509.71
		2.62	182/4TC	53	HdRF262-10/1-L-182/4TC	HdRF262-10/1-R-182/4TC	HdRF262-10/1-DE-182/4TC	\$549.11
15:1	120	3.25	182/4TC	90	HdRF325-10/1-L-182/4TC	HdRF325-10/1-R-182/4TC	HdRF325-10/1-DE-182/4TC	\$775.65
		1.33	56C	17	HdRF133-15/1-L-56C	HdRF133-15/1-R-56C	HdRF133-15/1-DE-56C	\$275.79
		1.54	56C	22	HdRF154-15/1-L-56C	HdRF154-15/1-R-56C	HdRF154-15/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-15/1-L-56C	HdRF175-15/1-R-56C	HdRF175-15/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-15/1-L-56C	HdRF206-15/1-R-56C	HdRF206-15/1-DE-56C	\$423.53
		2.37	56C	38	HdRF237-15/1-L-56C	HdRF237-15/1-R-56C	HdRF237-15/1-DE-56C	\$509.71
		2.62	56C	53	HdRF262-15/1-L-56C	HdRF262-15/1-R-56C	HdRF262-15/1-DE-56C	\$549.11
20:1	88	2.62	145TC	53	HdRF262-15/1-L-145TC	HdRF262-15/1-R-145TC	HdRF262-15/1-DE-145TC	\$549.11
		3.25	182/4TC	90	HdRF325-15/1-L-182/4TC	HdRF325-15/1-R-182/4TC	HdRF325-15/1-DE-182/4TC	\$775.65
		1.33	56C	17	HdRF133-20/1-L-56C	HdRF133-20/1-R-56C	HdRF133-20/1-DE-56C	\$275.79
		1.54	56C	22	HdRF154-20/1-L-56C	HdRF154-20/1-R-56C	HdRF154-20/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-20/1-L-56C	HdRF175-20/1-R-56C	HdRF175-20/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-20/1-L-56C	HdRF206-20/1-R-56C	HdRF206-20/1-DE-56C	\$423.53
		2.37	56C	38	HdRF237-20/1-L-56C	HdRF237-20/1-R-56C	HdRF237-20/1-DE-56C	\$509.71
30:1	58	2.62	56C	53	HdRF262-20/1-L-56C	HdRF262-20/1-R-56C	HdRF262-20/1-DE-56C	\$549.11
		2.62	145TC	53	HdRF262-20/1-L-145TC	HdRF262-20/1-R-145TC	HdRF262-20/1-DE-145TC	\$549.11
		3.25	182/4TC	90	HdRF325-20/1-L-182/4TC	HdRF325-20/1-R-182/4TC	HdRF325-20/1-DE-182/4TC	\$775.65
		1.33	56C	17	HdRF133-30/1-L-56C	HdRF133-30/1-R-56C	HdRF133-30/1-DE-56C	\$275.79
		1.54	56C	22	HdRF154-30/1-L-56C	HdRF154-30/1-R-56C	HdRF154-30/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-30/1-L-56C	HdRF175-30/1-R-56C	HdRF175-30/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-30/1-L-56C	HdRF206-30/1-R-56C	HdRF206-30/1-DE-56C	\$423.53
40:1	44	2.37	56C	38	HdRF237-30/1-L-56C	HdRF237-30/1-R-56C	HdRF237-30/1-DE-56C	\$509.71
		2.62	56C	50	HdRF262-30/1-L-56C	HdRF262-30/1-R-56C	HdRF262-30/1-DE-56C	\$549.11
		2.62	145TC	50	HdRF262-30/1-L-145TC	HdRF262-30/1-R-145TC	HdRF262-30/1-DE-145TC	\$549.11
		3.25	56C	87	HdRF325-30/1-L-56C	HdRF325-30/1-R-56C	HdRF325-30/1-DE-56C	\$775.65
		3.25	145TC	87	HdRF325-30/1-L-145TC	HdRF325-30/1-R-145TC	HdRF325-30/1-DE-145TC	\$775.65
		3.25	182/4TC	90	HdRF325-30/1-L-182/4TC	HdRF325-30/1-R-182/4TC	---	\$775.65
		1.33	56C	17	HdRF133-40/1-L-56C	HdRF133-40/1-R-56C	HdRF133-40/1-DE-56C	\$275.79
50:1	35	1.54	56C	22	HdRF154-40/1-L-56C	HdRF154-40/1-R-56C	HdRF154-40/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-40/1-L-56C	HdRF175-40/1-R-56C	HdRF175-40/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-40/1-L-56C	HdRF206-40/1-R-56C	HdRF206-40/1-DE-56C	\$423.53
		2.37	56C	38	HdRF237-40/1-L-56C	HdRF237-40/1-R-56C	HdRF237-40/1-DE-56C	\$509.71
		2.62	56C	50	HdRF262-40/1-L-56C	HdRF262-40/1-R-56C	HdRF262-40/1-DE-56C	\$549.11
		2.62	145TC	50	HdRF262-40/1-L-145TC	---	---	\$549.11
		3.25	56C	87	HdRF325-40/1-L-56C	HdRF325-40/1-R-56C	HdRF325-40/1-DE-56C	\$775.65
60:1	29	3.25	145TC	87	HdRF325-40/1-L-145TC	HdRF325-40/1-R-145TC	HdRF325-40/1-DE-145TC	\$775.65
		1.33	56C	17	HdRF133-50/1-L-56C	HdRF133-50/1-R-56C	HdRF133-50/1-DE-56C	\$275.79
		1.54	56C	22	HdRF154-50/1-L-56C	HdRF154-50/1-R-56C	HdRF154-50/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-50/1-L-56C	HdRF175-50/1-R-56C	HdRF175-50/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-50/1-L-56C	HdRF206-50/1-R-56C	HdRF206-50/1-DE-56C	\$423.53
		2.37	56C	38	HdRF237-50/1-L-56C	HdRF237-50/1-R-56C	HdRF237-50/1-DE-56C	\$509.71
		2.62	56C	50	HdRF262-50/1-L-56C	HdRF262-50/1-R-56C	HdRF262-50/1-DE-56C	\$549.11
		3.25	56C	87	HdRF325-50/1-L-56C	HdRF325-50/1-R-56C	HdRF325-50/1-DE-56C	\$775.65
		3.25	145TC	87	HdRF325-50/1-L-145TC	HdRF325-50/1-R-145TC	HdRF325-50/1-DE-145TC	\$775.65
		1.33	56C	17	HdRF133-60/1-L-56C	HdRF133-60/1-R-56C	HdRF133-60/1-DE-56C	\$275.79
		1.54	56C	22	HdRF154-60/1-L-56C	HdRF154-60/1-R-56C	HdRF154-60/1-DE-56C	\$302.87
		1.75	56C	27	HdRF175-60/1-L-56C	HdRF175-60/1-R-56C	HdRF175-60/1-DE-56C	\$333.66
		2.06	56C	32	HdRF206-60/1-L-56C	HdRF206-60/1-R-56C	HdRF206-60/1-DE-56C	\$423.53
		2.37	56C	38	HdRF237-60/1-L-56C	HdRF237-60/1-R-56C	HdRF237-60/1-DE-56C	\$509.71
		2.62	56C	50	HdRF262-60/1-L-56C	HdRF262-60/1-R-56C	HdRF262-60/1-DE-56C	\$549.11
		3.25	56C	87	HdRF325-60/1-L-56C	HdRF325-60/1-R-56C	HdRF325-60/1-DE-56C	\$775.65
		3.25	145TC	87	HdRF325-60/1-L-145TC	HdRF325-60/1-R-145TC	HdRF325-60/1-DE-145TC	\$775.65

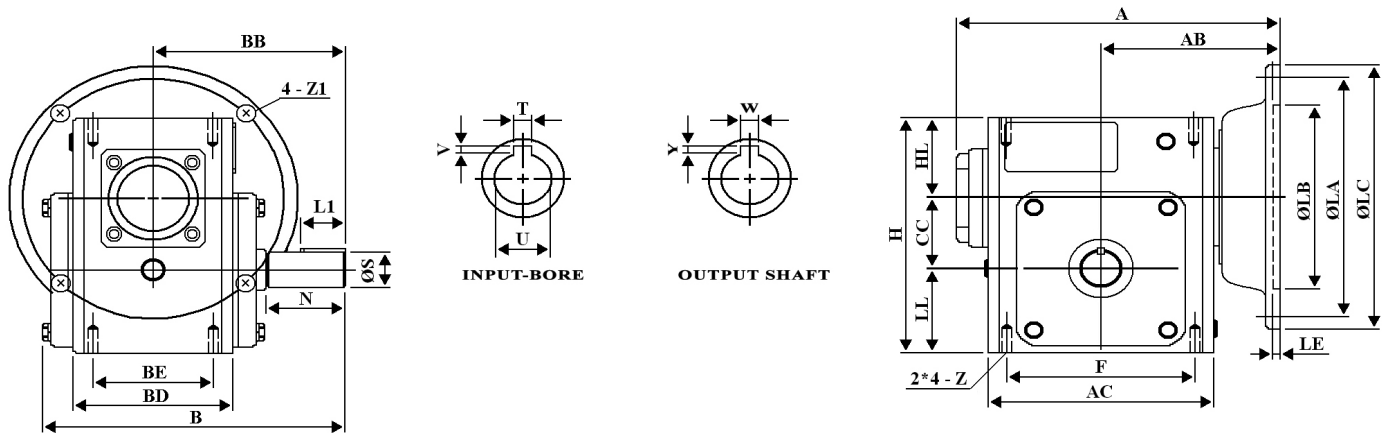
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HEAVY DUTY
CAST IRON REDUCERS

HD Cast Iron Worm Gear Reducers: Dimensions Flange Input, Shaft Output, Left / Right Hand Output

2

HEAVY DUTY
CAST IRON REDUCERS

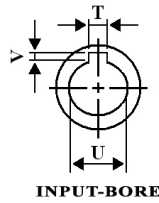
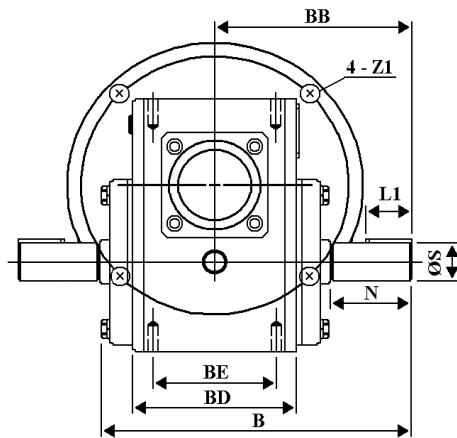


All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	N
133	56C	5.99	3.386	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718	2
154	56C	7.15	3.976	4.961	6.122	4.311	3.622	2.75	1.54	4.188	5.378	1.929	1.909	1.772
175	56C	7.29	4.035	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062	1.781
206	56C	7.95	4.37	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281	2.09
237	56C	8.71	4.705	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5	2.37
262	56C	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	145TC	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	182/4TC	10.57	6.24	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
325	56C	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	145TC	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	182/4TC	12.59	7.244	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25

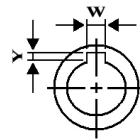
All listed dimensions in inches													
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT SHAFT			FLANGE					Oil (oz.)
			U	T x V	L1	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.625	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	5.82
154	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.75	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	2	1.125	1/4 x 1/8	8.5	7.25	9	0.197	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	182/4TC	7/16 - 14	1.125	1/4 x 1/8	2.438	1.375	5/16 x 5/32	8.5	7.25	9	0.197	0.551	73.75

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

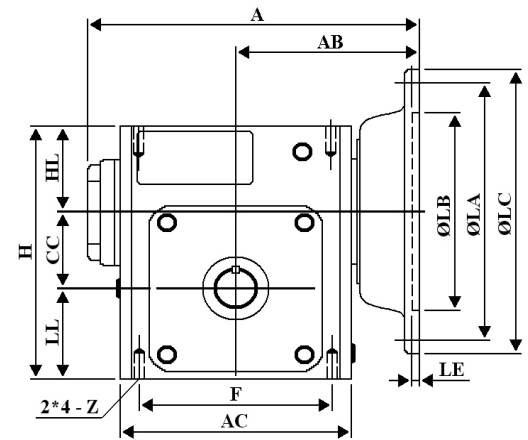
HD Cast Iron Worm Gear Reducers: Dimensions Flange Input, Shaft Output, Double End Output



INPUT-BORE



OUTPUT SHAFT



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HEAVY DUTY
CAST IRON REDUCERS

All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	N
133	56C	5.99	3.386	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718	2
175	56C	7.29	4.035	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062	1.781
206	56C	7.95	4.37	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281	2.09
237	56C	8.71	4.705	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5	2.37
262	56C	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	145TC	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	182/4TC	10.57	6.24	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
325	56C	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	145TC	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	182/4TC	12.59	7.244	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25

All listed dimensions in inches													
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT SHAFT			FLANGE					Oil (oz.)
			U	T x V	L1	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.625	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	5.82
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	2	1.125	1/4 x 1/8	8.5	7.25	9	0.197	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	182/4TC	7/16 - 14	1.125	1/4 x 1/8	2.438	1.375	5/16 x 5/32	8.5	7.25	9	0.197	0.551	73.75

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

HD Cast Iron Worm Gear Reducers: *Flange Input, Hollow Bore Output*

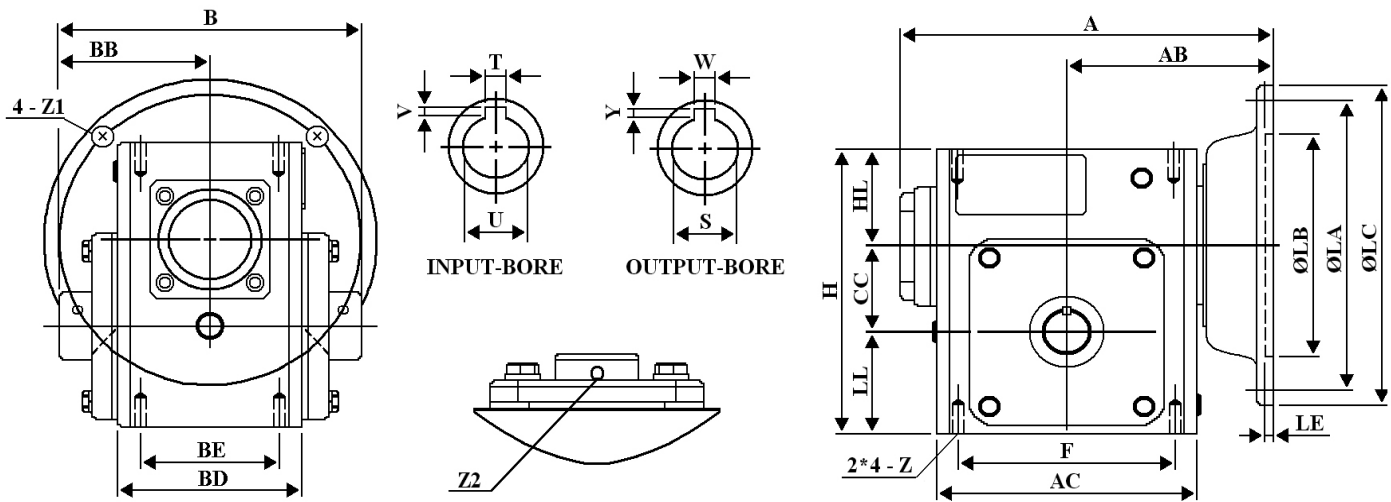
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HEAVY DUTY
CAST IRON REDUCERS

Ratio C	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
5:1	350	1.33	56C	17	HdRF133-5/1-H-56C	\$371.82
		1.75	56C	27	HdRF175-5/1-H-56C	\$440.77
		2.06	56C	32	HdRF206-5/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-5/1-H-56C	\$603.29
		2.62	182/4TC	53	HdRF262-5/1-H-182/4TC	\$742.41
		3.25	182/4TC	90	HdRF325-5/1-H-182/4TC	\$1,031.74
10:1	175	1.33	56C	17	HdRF133-10/1-H-56C	\$371.82
		1.75	56C	27	HdRF175-10/1-H-56C	\$440.77
		2.06	56C	32	HdRF206-10/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-10/1-H-56C	\$603.29
		2.62	182/4TC	53	HdRF262-10/1-H-182/4TC	\$742.41
		3.25	182/4TC	90	HdRF325-10/1-H-182/4TC	\$1,031.74
15:1	120	1.33	56C	17	HdRF133-15/1-H-56C	\$371.82
		1.75	56C	27	HdRF175-15/1-H-56C	\$440.77
		2.06	56C	32	HdRF206-15/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-15/1-H-56C	\$603.29
		2.62	56C	53	HdRF262-15/1-H-56C	\$742.41
		2.62	145TC	53	HdRF262-15/1-H-145TC	\$742.41
20:1	88	3.25	182/4TC	90	HdRF325-15/1-H-182/4TC	\$1,031.74
		1.33	56C	17	HdRF133-20/1-H-56C	\$371.82
		1.75	56C	27	HdRF175-20/1-H-56C	\$440.77
		2.06	56C	32	HdRF206-20/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-20/1-H-56C	\$603.29
		2.62	56C	53	HdRF262-20/1-H-56C	\$742.41
30:1	58	2.62	145TC	53	HdRF262-20/1-H-145TC	\$742.41
		3.25	182/4TC	90	HdRF325-20/1-H-182/4TC	\$1,031.74
		1.33	56C	17	HdRF133-30/1-H-56C	\$371.82
		1.75	56C	27	HdRF175-30/1-H-56C	\$440.77
		2.06	56C	32	HdRF206-30/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-30/1-H-56C	\$603.29
40:1	44	2.62	56C	50	HdRF262-30/1-H-56C	\$742.41
		2.62	145TC	50	HdRF262-30/1-H-145TC	\$742.41
		3.25	56C	87	HdRF325-30/1-H-56C	\$1,031.74
		3.25	145TC	87	HdRF325-30/1-H-145TC	\$1,031.74
		1.33	56C	17	HdRF133-40/1-H-56C	\$371.82
		1.75	56C	27	HdRF175-40/1-H-56C	\$440.77
50:1	35	2.06	56C	32	HdRF206-40/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-40/1-H-56C	\$603.29
		2.62	56C	50	HdRF262-40/1-H-56C	\$742.41
		3.25	56C	87	HdRF325-40/1-H-56C	\$1,031.74
		3.25	145TC	87	HdRF325-40/1-H-145TC	\$1,031.74
		1.33	56C	17	HdRF133-50/1-H-56C	\$371.82
60:1	29	1.76	56C	27	HdRF175-50/1-H-56C	\$440.77
		2.06	56C	32	HdRF206-50/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-50/1-H-56C	\$603.29
		2.62	56C	50	HdRF262-50/1-H-56C	\$742.41
		3.25	56C	87	HdRF325-50/1-H-56C	\$1,031.74
		3.25	145TC	87	HdRF325-50/1-H-145TC	\$1,031.74
		1.33	56C	17	HdRF133-60/1-H-56C	\$371.82
		1.75	56C	27	HdRF175-60/1-H-56C	\$440.77
		2.06	56C	32	HdRF206-60/1-H-56C	\$528.18
		2.37	56C	38	HdRF237-60/1-H-56C	\$603.29
		2.62	56C	50	HdRF262-60/1-H-56C	\$742.41
		3.25	56C	87	HdRF325-60/1-H-56C	\$1,031.74
		3.25	145TC	87	HdRF325-60/1-H-145TC	\$1,031.74
		3.25	182/4TC	90	HdRF325-60/1-H-182/4TC	\$1,031.74

HD Cast Iron Worm Gear Reducers: Dimensions

Flange Input, Hollow Bore Output



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HEAVY DUTY
CAST IRON REDUCERS

All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	Z2
133	56C	5.98	3.386	3.78	4.44	2.218	2.835	2	1.333	3.25	4.656	1.605	1.718	#10 - 32 UNF x 1/4
175	56C	7.28	4.035	5.059	6.18	3.091	3.563	2.75	1.75	4.19	5.75	1.938	2.062	#10 - 32 UNF x 1/4
206	56C	7.95	4.37	5.748	6.44	3.219	3.819	2.88	2.062	5	6.375	2.032	2.281	1/4 - 28 UNF x 3/8
237	56C	8.68	4.705	6.378	6.44	3.22	4.055	2.88	2.375	5	6.937	2.062	2.5	1/4 - 28 UNF x 3/8
262	56C	9.41	5.059	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
	145TC	9.41	5.059	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
	182/4TC	10.59	6.24	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
325	56C	11.42	6.063	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8
	145TC	11.42	6.063	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8
	182/4TC	12.6	7.244	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8

All listed dimensions in inches												
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT BORE		FLANGE					Oil (oz.)
			U	T x V	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	4.5	6.5	0.157	0.433	5.82
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	6.5	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	1.437	3/8 x 3/16	5.875	4.5	6.5	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	1.437	3/8 x 3/16	5.875	4.5	6.5	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	1.437	3/8 x 3/16	7.25	8.5	9	0.2	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	1.937	1/2 x 1/4	5.875	4.5	6.5	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	1.937	1/2 x 1/4	5.875	4.5	6.5	0.157	0.433	73.75
	1842/TC	7/16 - 14	1.125	1/4 x 1/8	1.937	1/2 x 1/4	7.25	8.5	9	0.2	0.551	73.75

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

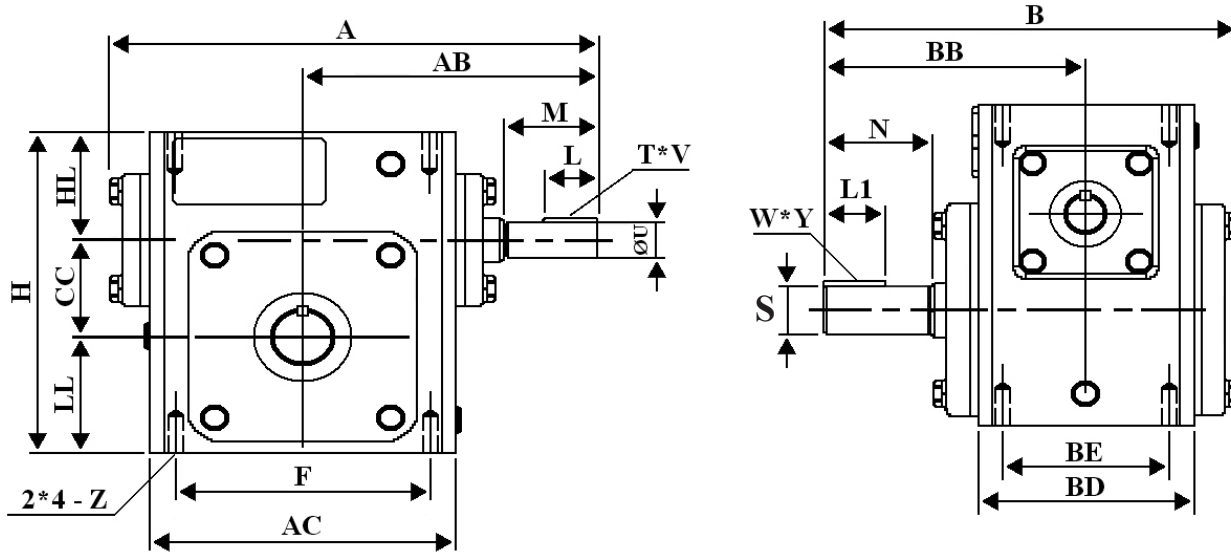
HD Cast Iron Worm Gear Reducers: *Shaft Input, Shaft Output*

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HEAVY DUTY
CAST IRON REDUCERS

Ratio C	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number Left Hand Output	Model Number Right Hand Output	List Price
5:1	350	1.33	56C	17	HdRS133-5/1-L	HdRS133-5/1-R	\$237.63
		1.75	56C	27	HdRS175-5/1-L	HdRS175-5/1-R	\$286.86
		2.06	56C	32	HdRS206-5/1-L	HdRS206-5/1-R	\$343.51
		2.37	56C	38	HdRS237-5/1-L	HdRS237-5/1-R	\$393.98
		2.62	182/4TC	53	HdRS262-5/1-L	HdRS262-5/1-R	\$483.85
		3.25	182/4TC	90	HdRS325-5/1-L	HdRS325-5/1-R	\$682.08
10:1	175	1.33	56C	17	HdRS133-10/1-L	HdRS133-10/1-R	\$237.63
		1.54	56C	22	HdRS154-10/1-L	---	\$262.25
		1.75	56C	27	HdRS175-10/1-L	HdRS175-10/1-R	\$286.86
		2.06	56C	32	HdRS206-10/1-L	HdRS206-10/1-R	\$343.51
		2.37	56C	38	HdRS237-10/1-L	HdRS237-10/1-R	\$393.98
		2.62	182/4TC	53	HdRS262-10/1-L	HdRS262-10/1-R	\$483.85
15:1	120	3.25	182/4TC	90	HdRS325-10/1-L	HdRS325-10/1-R	\$682.08
		1.33	56C	17	HdRS133-15/1-L	HdRS133-15/1-R	\$237.63
		1.75	56C	27	HdRS175-15/1-L	HdRS175-15/1-R	\$286.86
		2.06	56C	32	HdRS206-15/1-L	HdRS206-15/1-R	\$343.51
		2.37	56C	38	HdRS237-15/1-L	HdRS237-15/1-R	\$393.98
		2.62	56C/145TC	53	HdRS262-15/1-L	HdRS262-15/1-R	\$483.85
20:1	88	3.25	182/4TC	90	HdRS325-15/1-L	HdRS325-15/1-R	\$682.08
		1.33	56C	17	HdRS133-20/1-L	HdRS133-20/1-R	\$237.63
		1.54	56C	22	HdRS154-20/1-L	---	\$262.25
		1.75	56C	27	HdRS175-20/1-L	HdRS175-20/1-R	\$286.86
		2.06	56C	32	HdRS206-20/1-L	HdRS206-20/1-R	\$343.51
		2.37	56C	38	HdRS237-20/1-L	HdRS237-20/1-R	\$393.98
30:1	58	2.62	56C/145TC	53	HdRS262-20/1-L	HdRS262-20/1-R	\$483.85
		3.25	182/4TC	90	HdRS325-20/1-L	HdRS325-20/1-R	\$682.08
		1.33	56C	17	HdRS133-30/1-L	HdRS133-30/1-R	\$237.63
		1.75	56C	27	HdRS175-30/1-L	HdRS175-30/1-R	\$286.86
		2.06	56C	32	HdRS206-30/1-L	HdRS206-30/1-R	\$343.51
		2.37	56C	38	HdRS237-30/1-L	HdRS237-30/1-R	\$393.98
40:1	44	2.62	56C/145TC	50	HdRS262-30/1-L	HdRS262-30/1-R	\$483.85
		3.25	56C/145TC	87	HdRS325-30/1-L	HdRS325-30/1-R	\$682.08
		1.33	56C	17	HdRS133-40/1-L	HdRS133-40/1-R	\$237.63
		1.54	56C	22	HdRS154-40/1-L	---	\$262.25
		1.75	56C	27	HdRS175-40/1-L	HdRS175-40/1-R	\$286.86
		2.06	56C	32	HdRS206-40/1-L	HdRS206-40/1-R	\$343.51
50:1	35	2.37	56C	38	HdRS237-40/1-L	HdRS237-40/1-R	\$393.98
		2.62	56C	50	HdRS262-40/1-L	HdRS262-40/1-R	\$483.85
		3.25	56C/145TC	87	HdRS325-40/1-L	HdRS325-40/1-R	\$682.08
		1.33	56C	17	HdRS133-50/1-L	HdRS133-50/1-R	\$237.63
		1.76	56C	27	HdRS175-50/1-L	HdRS175-50/1-R	\$286.86
		2.06	56C	32	HdRS206-50/1-L	HdRS206-50/1-R	\$343.51
60:1	29	2.37	56C	38	HdRS237-50/1-L	HdRS237-50/1-R	\$393.98
		2.62	56C	50	HdRS262-50/1-L	HdRS262-50/1-R	\$483.85
		3.25	56C/145TC	87	HdRS325-50/1-L	HdRS325-50/1-R	\$682.08
		1.33	56C	17	HdRS133-60/1-L	HdRS133-60/1-R	\$237.63
		1.75	56C	27	HdRS175-60/1-L	HdRS175-60/1-R	\$286.86
		2.06	56C	32	HdRS206-60/1-L	HdRS206-60/1-R	\$343.51
60:1	29	2.37	56C	38	HdRS237-60/1-L	HdRS237-60/1-R	\$393.98
		2.62	56C	50	HdRS262-60/1-L	HdRS262-60/1-R	\$483.85
		3.25	56C/145TC/182/4TC	87	HdRS325-60/1-L	HdRS325-60/1-R	\$682.08

HD Cast Iron Worm Gear Reducers: Dimensions Shaft Input, Shaft Output



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HEAVY DUTY
CAST IRON REDUCERS

All listed dimensions in inches													
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL
133	56	6.45	3.907	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718
175	56	8.06	4.872	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062
206	56	8.65	5.128	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281
	145T	8.65	5.128	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281
237	56	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
	145T	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
	182/4T	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
262	56	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
	145T	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
	182/4T	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
325	145T	12.74	7.441	9.016	11.01	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5
	182/4T	12.74	7.441	9.016	11.01	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5

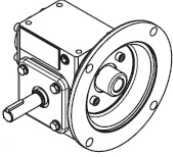
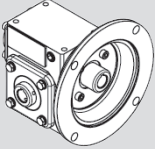
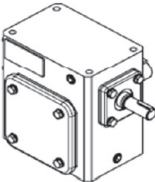
All listed dimensions in inches									
Box Size	NEMA Frame	Z (UNC)	INPUT SHAFT			OUTPUT SHAFT			Oil (oz.)
			L	U	T x V	L1	S	W x Y	
133	56	5/16 - 18	0.625	0.5	1/8 x 1/16	1	0.625	3/16 x 3/32	5.82
175	56	5/16 - 18	0.875	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	11.64
206	56	3/8 - 16	0.875	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	19.41
	145T	3/8 - 16	0.875	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	19.41
237	56	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07
	145T	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07
	182/4T	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07
262	56	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55
	145T	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55
	182/4T	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55
325	145T	7/16 - 14	1	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	73.75
	182/4T	7/16 - 14	1	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	73.75

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

HD Cast Iron Worm Gear Reducers: Competitive Interchange

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HEAVY DUTY
CAST IRON REDUCERS

Center Distance		1.33	1.75	2.06	2.37	2.62	3.25
WorldWide Electric		HdRF133-L/R	HdRF175-L/R	HdRF206-L/R	HdRF237-L/R	HdRF262-L/R	HdRF325-L/R
C-FACE INPUT SHAFT OUTPUT 	Alling Lander	13UF	17UF	20UF	23UF	26UF	32UF
	Baldor	F913	F918	F921	F924	F926	F932
	Boston	F713	F718	F721	F724	F726	F732
	Browning - Raider	Q133	Q175	Q206	Q237	Q262	Q325
	Dodge - Tigear	Q133	Q175	Q200	—	Q262	—
	Electra *	MSC13	MSC17	MSC21	—	MSC26	—
	Falk - Omnibox	1133WBM	1175WBM	1206WBM	1238WBM	1262WBM	1325WBM
	Grove (New)	BMQ213	BMQ218	BMQ220	BMQ224	BMQ226	BMQ232
	Grove (Old)	BMQ1133	BMQ1175	BMQ1206	BMQ1238	BMQ1262	BMQ1325
	Hub City *	134	184	214	—	264	324
	Leeson	BMQ613	BMQ618	BMQ621	BMQ624	BMQ626	BMQ632
	Morse Cobra *	13Q	18Q	21Q	—	26Q	—
	Morse Raider	713F	718F	721F	724F	726F	732F
	Ohio Gear	BMQ2133	BMQ2175	BMQ2206	BMQ2238	BMQ2262	BMQ2325
	Winsmith *	913MDN	917MDN	920MDN	924MDN	926MDN	—
WorldWide Electric		HdRF133-H	HdRF175-H	HdRF206-H	HdRF237-H	HdRF262-H	HdRF325-H
C-FACE INPUT HOLLOW BORE OUTPUT 	Alling Lander	13YF	17YF	20YF	23YF	26YF	32YF
	Baldor	HF913	HF918	HF921	HF924	HF926	HF932
	Boston	HF713	HF718	HF721	HF724	HF726	HF732
	Browning - Raider	QH133	QH175	QH206	QH237	QH262	QH325
	Electra *	—	MHSC17	MHSC21	—	MHSC26	—
	Falk - Omnibox	1133WBQM	1175WBQM	1206WBQM	1238WBQM	1262WBQM	1325WBQM
	Grove (New)	HMQ213	HMQ218	HMQ220	HMQ224	HMQ226	HMQ232
	Grove (Old)	HMQ1133	HMQ1175	HMQ1206	HMQ1238	HMQ1262	HMQ1325
	Hub City *	—	185	215	—	265	325
	Leeson	HMQ613	HMQ618	HMQ621	HMQ624	HMQ626	HMQ632
	Morse Cobra *	13QH	18QH	21QH	—	26QH	—
	Morse Raider	713SF	718SF	721SF	724SF	726SF	732SF
	Ohio Gear	SM2133MQ	SM2175MQ	SM2206MQ	SM2238MQ	SM2262MQ	SM2325MQ
	Winsmith *	—	917MDSN	920MDSN	924MDSN	926MDSN	—
WorldWide Electric		HdRS133	HdRS175	HdRS206	HdRS237	HdRS262	HdRS325
SHAFT INPUT SHAFT OUTPUT 	Alling Lander	13U	17U	20U	23U	26U	32U
	Baldor	S913	S918	S921	S924	S926	S932
	Boston	713	718	721	724	726	732
	Browning - Raider	U133	U175	U206	U237	U262	U325
	Dodge - Tigear	S133	S175	S200	—	S262	—
	Electra *	M13	M17	M21	—	M26	—
	Falk - Omnibox	1133WB	1175WB	1206WB	1238WB	1262WB	1325WB
	Grove (New)	B213	B218	B220	B224	B226	B232
	Grove (Old)	B1133	B1175	B1206	B1238	B1262	B1325
	Hub City *	131	181	211	—	261	321
	Leeson	B613	B618	B621	B624	B626	B632
	Morse Cobra *	13U	18U	21U	—	26U	—
	Morse Raider	713B	718B	721B	724B	726B	732B
	Ohio Gear	B2133	B2175	B2206	B2238	B2262	B2325
	Winsmith *	913DN	917DN	920DN	924DN	926DN	—

* WorldWide worm gearboxes are not dimensionally interchangeable with these manufacturers.

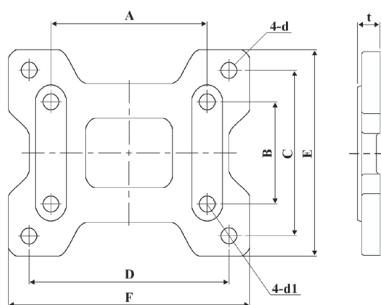
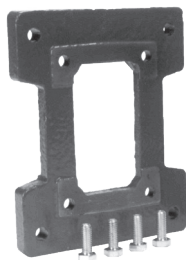
** WorldWide hollow bore worm gearboxes have only one output diameter bore available per center distance.

HD Cast Iron Worm Gear Reducers: Accessories and Parts

Mounting Bases

Product Specifications

- » Box Sizes 1.33 - 3.25
- » Includes Mounting Bolts



Box Size	Model Number	List Price
133	HdRBASE133	\$33.97
154	HdRBASE154	\$38.21
175	HdRBASE175	\$42.46
206	HdRBASE206	\$50.95
237	HdRBASE237	\$59.44
262	HdRBASE262	\$67.94
325	HdRBASE325	\$76.42

All dimensions in inches									
Box Size	A	B	C	D	E	F	t	d	d1
133	3.25	2.00	3.31	4.38	4.19	5.38	0.53	11/32	3/8
154	4.19	2.75	4.31	5.25	5.44	6.44	0.59	11/32	3/8
175	4.19	2.75	4.50	5.75	5.69	7.00	0.69	13/32	3/8
206	5.00	2.88	4.69	6.38	5.94	7.75	0.72	15/32	7/16
237	5.00	2.88	4.88	7.06	6.22	8.50	0.75	15/32	7/16
262	6.38	3.38	5.25	8.00	6.66	9.63	0.75	17/32	7/16
325	7.50	4.00	6.13	9.50	7.66	11.19	0.88	17/32	1/2

HD Cast Iron Worm Gear Reducers: Accessories and Parts

Model Number	Description	List Price
Breather Plugs		
BREATHER_BRR-PT14	BREATHER PLUG HdRF133-HdRF262 / HdRS133-HdRS262	\$21.55
BREATHER_BRR-PT38	BREATHER PLUG HdRF325 / HdRS325	\$23.43
Bearings / Input		
HdR-PBA30203	INPUT BEARING HdRF133-HdRF206	\$38.07
HdR-PBA30204	INPUT BEARING HdRS133	\$32.33
HdR-PBA30205	INPUT BEARING HdRF237-HdRF262 / HdRS175-HdRS206	\$35.74
HdR-PBA30206	INPUT BEARING HdRF133-HdRF206 / HdRF325	\$41.06
HdR-PBA30207	INPUT BEARING HdRS325	\$51.70
Bearings / Output		
HdR-PBA30204	OUTPUT BEARING HdRF133 / HdRS133	\$32.33
HdR-PBA30206	OUTPUT BEARING HdRF175-HdRF206 / HdRS175-HdRS206	\$41.06
HdR-PBA30207	OUTPUT BEARING HdRF237-HdRF262 / HdRS237-HdRS262	\$51.70
HdR-PBA30208	OUTPUT BEARING HdRF325 / HdRS325	\$61.47
HdR-PBA32008	OUTPUT BEARING HdRF175 HOLLOW BORE	\$80.84
HdR-PBA32009	OUTPUT BEARING HdRF206 HOLLOW BORE	\$98.91
HdR-PBA32010	OUTPUT BEARING HdRF237 HOLLOW BORE	\$113.59
HdR-PBA32012	OUTPUT BEARING HdRF262 HOLLOW BORE	\$165.08
HdR-PBA32014	OUTPUT BEARING HdRF325 HOLLOW BORE	\$253.79
Input Flanges		
HdR-KFYG0331651	INPUT FLANGE HdRF133-HdRF154 (56C)	\$112.90
HdR-KFYG0451651	INPUT FLANGE HdRF175-HdRF206 (56C)	\$121.40
HdR-KFYG0611651	INPUT FLANGE HdRF237-HdRF262 (56C/145TC)	\$125.32
HdR-KFYG0612281	INPUT FLANGE HdRF262 (182/4TC)	\$232.08
HdR-KFYG0831651	INPUT FLANGE HdRF325 (56C/145TC)	\$143.06
HdR-KFYG0832281	INPUT FLANGE HdRF325 (182/4TC)	\$270.98
Oil Seals / Sealed		
HdR-PSS000040087	OIL SEAL / SEALED HdRF133-HdRF206	\$11.13
HdR-PSS000052079	OIL SEAL / SEALED HdRF237-HdRF262	\$17.98
HdR-PSS000062107	OIL SEAL / SEALED HdRF325	\$25.43
Oil Seals / Input		
HdR-PSS030042081	OIL SEAL / INPUT HdRF133-HdRF325 (56C)	\$14.46
HdR-PSS0305042081	OIL SEAL / INPUT HdRF237-HdRF262 (145TC)	\$11.29
HdR-PSS0405062081	OIL SEAL / INPUT HdRF262-HdRF325 (182/4TC)	\$11.29
HdR-PSS0405062081	OIL SEAL / INPUT HdRF325 (145TC)	\$11.29
HdR-PSS017035071	OIL SEAL / INPUT HdRS133 (56C)	\$10.22
HdR-PSS020035081	OIL SEAL / INPUT HdRS175-HdRS206 (56C)	\$9.09
HdR-PSS025035061	OIL SEAL / INPUT HdRS237-HdRS262 (56C)	\$10.22
HdR-PSS030040071	OIL SEAL / INPUT HdRS325-(56C)	\$11.29

Model Number	Description	List Price
Oil Seals / Output		
HdR-PSS020032061	OIL SEAL / OUTPUT HdRF133 / HdRS133	\$10.07
HdR-PSS025045081	OIL SEAL / OUTPUT HdRF175 / HdRS175	\$15.37
HdR-PSS030047061	OIL SEAL / OUTPUT HdRF206 / HdRS206	\$17.48
HdR-PSS035050081	OIL SEAL / OUTPUT HdRF237 / HdRS237	\$14.30
HdR-PSS035055081	OIL SEAL / OUTPUT HdRF262 / HdRS262	\$16.43
HdR-PSS040055081	OIL SEAL / OUTPUT HdRF325 / HdRS325	\$14.30
HdR-PSS040062091	OIL SEAL / OUTPUT HdRF175 HOLLOW BORE	\$16.10
HdR-PSS040506101	OIL SEAL / OUTPUT HdRF206 HOLLOW BORE	\$11.29
HdR-PSS050072121	OIL SEAL / OUTPUT HdRF237 HOLLOW BORE	\$26.54
HdR-PSS060082121	OIL SEAL / OUTPUT HdRF262 HOLLOW BORE	\$33.39
HdR-PSS070095131	OIL SEAL / OUTPUT HdRF325 HOLLOW BORE	\$42.38
Output Flanges		
HdR133-OPF	OUTPUT FLANGE HdRF133-H	\$35.22
HdR150-OPF	OUTPUT FLANGE HdRF154-H	\$58.78
HdR175-OPF	OUTPUT FLANGE HdRF175-H	\$82.34
HdR206-OPF	OUTPUT FLANGE HdRF206-H	\$94.00
HdR237-OPF	OUTPUT FLANGE HdRF237-H	\$105.63
HdR262-OPF	OUTPUT FLANGE HdRF262-H	\$117.56
HdR325-OPF	OUTPUT FLANGE HdRF325-H	\$129.19
Set Screws		
HdR-H-PTCB10006F	SET SCREW HdRF133-HdRF175 / HdRS133-HdRS175	\$1.53
HdR-H-PTCB02009F	SET SCREW HdRF206-HdRF237 / HdRS206-HdRS237	\$1.53
HdR-H-PTCB02011F	SET SCREW HdRF262 / HdRS262	\$1.53
HdR-H-PTCBH2009F	SET SCREW HdRF325 / HdRS325	\$1.53

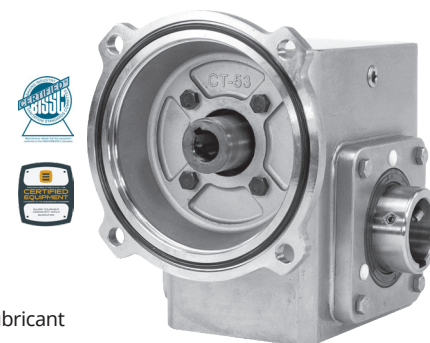
Reducer Size CD (in.)	Output Bore Size	Model Number	Inner Diameter I.D. (in.)	List Price
Bushing Kits				
2.06	1-1/8"	HdRB118.1	1"	\$98.74
2.37	1-1/4"	HdRB114.1	1"	\$98.74
2.62	1-7/16"	HdRB1716.1	1"	\$172.62
3.25	1-15/16"	HdRB11516.114	1-1/4"	\$189.58
		HdRB11516.1716	1-7/16"	\$189.58
		HdRB11516.112	1-1/2"	\$189.58

Stainless Steel Worm Gear Reducers: Product Overview

Product Specifications

- » 5:1 - 100:1 ratios
- » Box sizes (Center distances 1.75" - 3.25")
- » 304 stainless steel housing, covers and flange
- » BISSC certified
- » BEAG certified
- » IP69K protection against close-range high pressure, high temperature spray downs
- » Magnetic hardware allows for recognition by metal detection devices to prevent contamination
- » Double-lipped VITON oil seals (at output)
- » Smooth, polished surfaces and etched nameplate

- » Internal bladder functions as a breather and effectively dispels heat
- » 15CrMo4 NEMA quill input with carburizing heat treatment
- » CuSn12Ni2 bronze alloy worm wheel with high efficiency gear tooth configuration
- » RoHS plastic covers supplied to fill unused mounting slots
- » O-ring provided on input flange to prevent moisture intrusion
- » Performance equivalent to other major brands
- » Units filled with Mobil CIBUS 460 H1 food grade lubricant
- » 1 year warranty



Ratio	Output RPM @ 1750 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
5:1	350	1.75	56C	16	SSHdR175-5/1-H-56C-1.0	\$1,630.10
		2.06	56C	22	SSHdR206-5/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-5/1-H-56C-1.716	\$2,164.44
		2.62	145TC	39	SSHdR262-5/1-H-145TC-1.1516	\$2,814.51
		3.25	56C	66	SSHdR325-5/1-H-56C-2.316	\$3,652.95
		3.25	145TC	66	SSHdR325-5/1-H-145TC-2.316	\$3,652.95
10:1	175	1.75	56C	16	SSHdR175-10/1-H-56C-1.0	\$1,522.98
		2.06	56C	22	SSHdR206-10/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-10/1-H-56C-1.716	\$2,022.86
		2.62	145TC	39	SSHdR262-10/1-H-145TC-1.1516	\$2,640.92
		3.25	56C	66	SSHdR325-10/1-H-56C-2.316	\$3,652.95
		3.25	145TC	66	SSHdR325-10/1-H-145TC-2.316	\$3,652.95
15:1	120	1.75	56C	16	SSHdR175-15/1-H-56C-1.0	\$1,522.98
		2.06	56C	22	SSHdR206-15/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-15/1-H-56C-1.716	\$2,022.86
		2.62	145TC	39	SSHdR262-15/1-H-145TC-1.1516	\$2,640.92
		3.25	145TC	66	SSHdR325-15/1-H-145TC-2.316	\$3,652.95
		1.75	56C	16	SSHdR175-20/1-H-56C-1.0	\$1,522.98
20:1	88	2.06	56C	22	SSHdR206-20/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-20/1-H-56C-1.716	\$2,022.86
		2.62	56C	39	SSHdR262-20/1-H-56C-1.1516	\$2,640.92
		2.62	145TC	39	SSHdR262-20/1-H-145TC-1.1516	\$2,640.92
		3.25	56C	66	SSHdR325-20/1-H-56C-2.316	\$3,652.95
		3.25	145TC	66	SSHdR325-20/1-H-145TC-2.316	\$3,652.95
30:1	58	1.75	56C	16	SSHdR175-30/1-H-56C-1.0	\$1,522.98
		2.06	56C	22	SSHdR206-30/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-30/1-H-56C-1.716	\$2,022.86
		2.62	56C	39	SSHdR262-30/1-H-56C-1.1516	\$2,640.92
		2.62	145TC	39	SSHdR262-30/1-H-145TC-1.1516	\$2,640.92
		3.25	56C	66	SSHdR325-30/1-H-56C-2.316	\$3,652.95
40:1	44	3.25	145TC	66	SSHdR325-30/1-H-145TC-2.316	\$3,652.95
		1.75	56C	16	SSHdR175-40/1-H-56C-1.0	\$1,522.98
		2.06	56C	22	SSHdR206-40/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-40/1-H-56C-1.716	\$2,022.86
		2.62	56C	39	SSHdR262-40/1-H-56C-1.1516	\$2,640.92
		3.25	56C	66	SSHdR325-40/1-H-56C-2.316	\$3,652.95
50:1	35	3.25	145TC	66	SSHdR325-40/1-H-145TC-2.316	\$3,652.95
		1.75	56C	16	SSHdR175-50/1-H-56C-1.0	\$1,522.98
		2.06	56C	22	SSHdR206-50/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-50/1-H-56C-1.716	\$2,022.86
		2.62	56C	39	SSHdR262-50/1-H-56C-1.1516	\$2,640.92
		3.25	56C	66	SSHdR325-50/1-H-56C-2.316	\$3,652.95
60:1	29	3.25	145TC	66	SSHdR325-50/1-H-145TC-2.316	\$3,652.95
		1.75	56C	16	SSHdR175-60/1-H-56C-1.0	\$1,522.98
		2.06	56C	22	SSHdR206-60/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-60/1-H-56C-1.716	\$2,022.86
		2.62	56C	39	SSHdR262-60/1-H-56C-1.1516	\$2,640.92
		3.25	56C	66	SSHdR325-60/1-H-56C-2.316	\$3,652.95
80:1	22	3.25	145TC	66	SSHdR325-60/1-H-145TC-2.316	\$3,652.95
		2.06	56C	22	SSHdR206-80/1-H-56C-1.716	\$1,662.11
		2.37	56C	28	SSHdR237-80/1-H-56C-1.716	\$2,022.86
		2.62	56C	39	SSHdR262-80/1-H-56C-1.1516	\$3,652.95
		3.25	143TC	66	SSHdR325-80/1-H-143TC-2.316	\$1,662.11
		2.06	56C	22	SSHdR206-100/1-H-56C-1.716	\$2,022.86
100:1	18	2.37	56C	28	SSHdR237-100/1-H-56C-1.716	\$3,652.95
		2.62	56C	39	SSHdR262-100/1-H-56C-1.1516	\$2,515.16
		3.25	56C	66	SSHdR325-100/1-H-56C-2.316	\$3,479.00

Stainless Steel Worm Gear Reducers: Mechanical Ratings

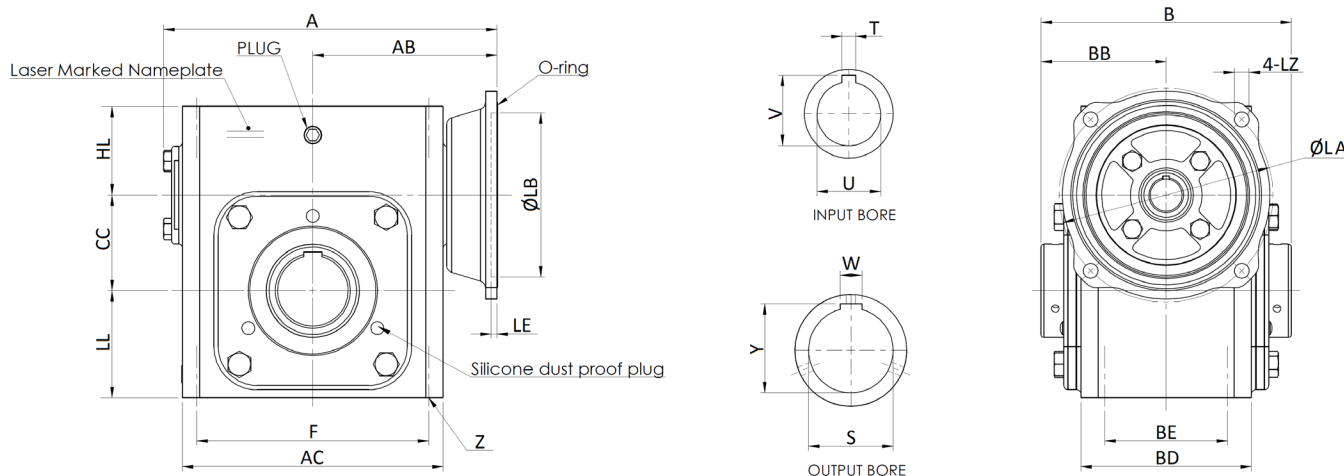
Input Speed: 1750 RPM											
Series Size		Mechanical			Thermal			Efficiency (%)	O.H.L. (lbs.)	Output Shaft Thrust Load (lbs.)	Backlash (Angular Min.) (')
Box Size	Ratio	Input HP	Output Torque (lbs. in.)	Output HP	Input HP	Output Torque (lbs. in.)	Output HP				
175	5:1	2.83	577	2.51	2.42	494	2.15	89	650	550	20
	10:1	1.57	598	1.30	1.57	598	1.30	83			
	15:1	1.24	655	0.95	1.17	618	0.90	77			
	20:1	1.26	827	0.90	0.96	628	0.68	71			
	30:1	0.89	772	0.56	0.74	640	0.46	63			
	40:1	0.79	828	0.45	0.64	667	0.36	57			
	50:1	0.50	598	0.26	0.50	598	0.26	52			
	60:1	0.38	524	0.19	0.38	524	0.19	50			
	80:1	0.25	368	0.10	0.25	368	0.10	40			
	100:1	0.19	322	0.07	0.19	322	0.07	37			
206	5:1	3.62	747	3.25	3.10	640	2.78	90	700	750	17
	10:1	2.77	1067	2.32	1.95	752	1.64	84			
	15:1	2.09	1137	1.65	1.50	816	1.18	79			
	20:1	1.57	1029	1.12	1.10	722	0.79	71			
	30:1	1.65	1504	1.09	0.93	850	0.62	66			
	40:1	1.09	1141	0.62	0.73	768	0.42	57			
	50:1	0.74	920	0.40	0.69	857	0.37	54			
	60:1	0.60	828	0.30	0.60	828	0.30	50			
	80:1	0.39	663	0.18	0.39	663	0.18	46			
	100:1	0.27	505	0.11	0.27	505	0.11	41			
237	5:1	4.32	897	3.90	3.61	750	3.26	90	900	900	17
	10:1	3.47	1342	2.92	2.21	853	1.85	84			
	15:1	2.64	1435	2.08	1.65	899	1.30	79			
	20:1	2.06	1389	1.51	1.31	885	0.96	73			
	30:1	1.82	1654	1.20	1.03	935	0.68	66			
	40:1	1.45	1581	0.86	0.86	940	0.51	59			
	50:1	1.32	1633	0.71	0.76	939	0.41	54			
	60:1	0.86	1158	0.42	0.68	922	0.33	49			
	80:1	0.41	698	0.19	0.41	698	0.19	46			
	100:1	0.30	552	0.12	0.30	552	0.12	40			
262	5:1	5.24	1091	4.75	4.56	951	4.14	91	1000	1000	17
	10:1	4.12	1619	3.52	2.96	1163	2.53	86			
	15:1	3.22	1792	2.60	2.22	1237	1.79	81			
	20:1	2.67	1839	2.00	1.71	1177	1.28	75			
	30:1	2.22	2098	1.52	1.36	1287	0.93	69			
	40:1	1.85	2079	1.13	1.10	1239	0.67	61			
	50:1	1.37	1770	0.77	0.98	1266	0.55	56			
	60:1	1.16	1629	0.59	0.87	1227	0.44	51			
	80:1	0.72	1287	0.35	0.72	1287	0.35	49			
	100:1	0.46	874	0.19	0.46	874	0.19	41			
325	5:1	9.72	2060	8.96	7.87	1667	7.25	92	1200	1100	15
	10:1	7.19	2903	6.31	5.03	2030	4.42	88			
	15:1	5.45	3139	4.55	3.72	2141	3.10	84			
	20:1	4.74	3457	3.76	2.96	2161	2.35	79			
	30:1	3.66	3670	2.66	2.25	2254	1.63	73			
	40:1	3.35	4122	2.24	1.85	2281	1.24	67			
	50:1	2.49	3589	1.56	1.64	2371	1.03	63			
	60:1	2.03	3254	1.18	1.46	2347	0.85	58			
	80:1	1.42	2502	0.68	1.18	2075	0.56	48			
	100:1	0.96	1933	0.42	0.96	1933	0.42	44			

* Thermal limit ratings - max. input HP at 20° ambient temperature with HI Food Grade 460 lubricant

Stainless Steel Worm Gear Reducers: Dimensions

2

STAINLESS STEEL
REDUCERS



All listed dimensions in inches												
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	HL	LL
175	56C	7.05	4.04	5.06	5.7	2.85	3.57	2.75	1.75	4.19	1.94	2.06
206	56C	7.72	4.37	5.75	6.44	3.22	3.82	2.88	2.06	5	2.03	2.28
237	56C	8.41	4.69	6.38	6.44	3.22	4.06	2.88	2.38	5	2.06	2.5
	145TC	8.41	4.69	6.38	6.44	3.22	4.06	2.88	2.38	5	2.06	2.5
262	56C	9.16	5.06	7.17	6.88	3.44	4.69	3.37	2.62	6.37	2.44	2.94
	145TC	9.16	5.06	7.17	6.88	3.44	4.69	3.37	2.62	6.37	2.44	2.94
325	56C	11.17	6.06	9.02	8.62	4.31	5.75	4	3.25	7.5	2.63	3.5
	145TC	11.17	6.06	9.02	8.62	4.31	5.75	4	3.25	7.5	2.63	3.5

Box Size	NEMA Frame	Z	INPUT BORE (inches)			OUTPUT BORE (inches)			FLANGE (inches)			
			U	T	V	S	W	Y	LA	LB	LE	LZ
175	56C	2x4-5/16-18UNCx0.5"	0.625	0.19	0.71	1	0.25	1.11	5.875	4.5	0.16	0.41
206	56C	2x4-3/8-16UNCx0.55"	0.625	0.19	0.71	1.438	0.38	1.54	5.875	4.5	0.16	0.41
237	56C	2x4-3/8-16UNCx0.59"	0.625	0.19	0.71	1.438	0.38	1.54	5.875	4.5	0.16	0.41
	145TC	2x4-3/8-16UNCx0.59"	0.875	0.19	0.96	1.438	0.38	1.54	5.875	4.5	0.16	0.41
262	56C	2x4-3/8-16UNCx1"	0.625	0.19	0.71	1.938	0.5	2.03	5.875	4.5	0.16	0.41
	145TC	2x4-3/8-16UNCx1"	0.875	0.19	0.96	1.938	0.5	2.03	5.875	4.5	0.16	0.41
325	56C	2x4-7/16-14UNCx0.86"	0.625	0.19	0.71	2.188	0.5	2.29	5.875	4.5	0.16	0.41
	145TC	2x4-7/16-14UNCx0.86"	0.875	0.19	0.96	2.188	0.5	2.29	5.875	4.5	0.16	0.41

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Stainless Steel Worm Gear Reducers: Accessories and Parts

Output Covers

- » Stainless Steel output covers.
- » Sizes available for 1.75" through 3.25" center distances.

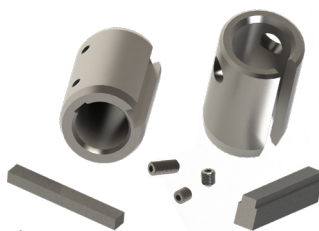
Reducer Size CD (in.)	Model Number	Engineering Make-up	List Price
1.75	SSHdR175-H-OPC	Non Toxic -PP	\$9.24
2.06	SSHdR206-H-OPC	Non Toxic -PP	\$9.24
2.37	SSHdR237-H-OPC	Non Toxic -PP	\$9.24
2.62	SSHdR262-H-OPC	Non Toxic -PP	\$9.24
3.25	SSHdR325-H-OPC	Non Toxic -PP	\$9.24



Stainless Steel Worm Gear Reducers: Accessories and Parts

Stainless Steel Bushing Kits

- » Stainless Steel Bushing Kits include sizing inserts, keys and set screws.
- » Sizes available for 1.75" through 3.25" center distances.
- » Stainless Steel Bushing Kits are not suitable for cast iron gear reducers. Please see page 39 for cast iron bushing kits.



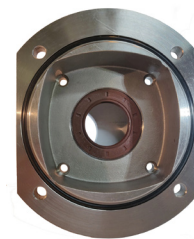
Reducer Size CD (in.)	Output Bore Size	Model Number	Outer Diameter O.D. (in.)	Inner Diameter I.D. (in.)	List Price
1.75	1"	SSB1.58	1"	5/8"	\$115.73
	1"	SSB1.1116	1"	11/16"	\$115.73
	1"	SSB1.34	1"	3/4"	\$115.73
	1"	SSB1.78	1"	7/8"	\$115.73
	1"	NOT REQUIRED	1"	1"	---
2.06	1-7/16"	SSB1716.1	1-7/16"	1"	\$146.52
	1-7/16"	SSB1716.1.18	1-7/16"	1-1/8"	\$146.52
	1-7/16"	SSB1716.1.316	1-7/16"	1-3/16"	\$146.52
	1-7/16"	SSB1716.1.14	1-7/16"	1-1/4"	\$146.52
	1-7/16"	NOT REQUIRED	1-7/16"	1-7/16"	---
2.37	1-7/16"	SSB1716.1	1-7/16"	1"	\$146.52
	1-7/16"	SSB1716.1.18	1-7/16"	1-1/8"	\$146.52
	1-7/16"	SSB1716.1.316	1-7/16"	1-3/16"	\$146.52
	1-7/16"	SSB1716.1.14	1-7/16"	1-1/4"	\$146.52
	1-7/16"	NOT REQUIRED	1-7/16"	1-7/16"	---
2.62	1-15/16"	SSB11516.1	1-15/16"	1"	\$183.45
	1-15/16"	SSB11516.1.18	1-15/16"	1-1/8"	\$183.45
	1-15/16"	SSB11516.1.316	1-15/16"	1-3/16"	\$183.45
	1-15/16"	SSB11516.1.14	1-15/16"	1-1/4"	\$183.45
	1-15/16"	SSB11516.1.716	1-15/16"	1-7/16"	\$183.45
	1-15/16"	SSB11516.1.12	1-15/16"	1-1/2"	\$183.45
	1-15/16"	NOT REQUIRED	1-15/16"	1-15/16"	---
3.25	2-3/16"	SSB2316.1.14	2-3/16"	1-1/4"	\$209.30
	2-3/16"	SSB2316.1.716	2-3/16"	1-7/16"	\$209.30
	2-3/16"	SSB2316.1.12	2-3/16"	1-1/2"	\$209.30
	2-3/16"	SSB2316.1.58	2-3/16"	1-5/8"	\$209.30
	2-3/16"	SSB2316.1.1116	2-3/16"	1-11/16"	\$209.30
	2-3/16"	SSB2316.1.34	2-3/16"	1-3/4"	\$209.30
	2-3/16"	SSB2316.1.1516	2-3/16"	1-15/16"	\$209.30
	2-3/16"	SSB2316.2	2-3/16"	2"	\$209.30
	2-3/16"	NOT REQUIRED	2-3/16"	2-3/16"	---

Hollow Output Shaft Oil Seals

- » Tapered seals sold in quantities of two.

Unit Size	Max. Bore Size	Bearing #	Model Number	List Price
SSHdR175-H	1"	32008	SSHdR-PSS040062083	\$21.37
SSHdR206-H	1-7/16"	32010	SSHdR-PSS050068083	\$24.65
SSHdR237-H	1-7/16"	32010	SSHdR-PSS050072123	\$27.94
SSHdR262-H	1-15/16"	32013	SSHdR-PSS065088123	\$36.73
SSHdR325-H	2-3/16"	32015	SSHdR-PSS075100133	\$46.61

SSHdR Output Flanges



Model Number	Description	List Price
SSHdR175-SCF	OUTPUT FLANGE SSHdR175	\$295.29
SSHdR206-SCF	OUTPUT FLANGE SSHdR206	\$413.79
SSHdR237-SCF	OUTPUT FLANGE SSHdR237	\$473.05
SSHdR262-SCF	OUTPUT FLANGE SSHdR262	\$532.30

Single Output Shafts

- » Kit includes single output shaft, keys, endplate and bolt.



Box Size	Shaft Diameter (in.)	Shaft Length (in.)	Model Number	List Price
175	0.875	1.781	SSHdR175-OPS-S	\$116.97
206	1	2.090	SSHdR206-OPS-S	\$124.35
237	1.125	2.370	SSHdR237-OPS-S	\$158.82
262	1.125	2.626	SSHdR262-OPS-S-1.125	\$177.29
262	1.25	2.626	SSHdR262-OPS-S	\$177.29
325	1.375	3.250	SSHdR325-OPS-S-1.375	\$252.40
325	1.5	3.250	SSHdR325-OPS-S	\$252.40

Double Output Shafts

- » Kit includes double output shaft, keys, retaining rings and C-clips.



Box Size	Shaft Diameter (in.)	Shaft Length (in.)	Model Number	List Price
175	0.875	1.781	SSHdR175-OPS-DS	\$163.75
206	1	2.090	SSHdR206-OPS-DS	\$176.06
237	1.125	2.370	SSHdR237-OPS-DS	\$220.38
262	1.125	2.626	SSHdR262-OPS-DS-1.125	\$242.55
262	1.25	2.626	SSHdR262-OPS-DS	\$242.55
325	1.375	3.250	SSHdR325-OPS-DS-1.375	\$345.96
325	1.5	3.250	SSHdR325-OPS-DS	\$345.96

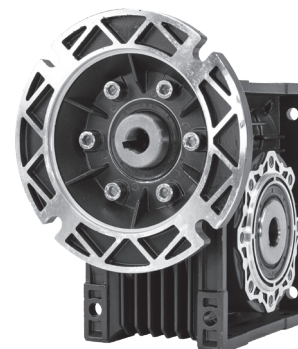
2

STAINLESS STEEL
 REDUCERS

Aluminum Worm Gear Reducers - NEMA: Product Overview

Product Specifications

- » 7.5:1 - 100:1 ratios
- » Box sizes (Center distances 30 mm - 90 mm)
- » Aluminum alloy housing for light weight design
- » Hardened worm shaft for increased durability
- » Two bearings on input and output shafts
- » NEMA motor input flanges
- » All units filled with synthetic oil (Mobil SHC632) for an "M1" position mounting
- » Adjust oil level for alternative mounting positions
- » Double lip oil seals prevent leakage
- » Multiple mounting holes for all angle mounts
- » Powder coat paint plan on external housing to resist corrosion
- » Hollow output bores with plug-in output shafts
- » 1 year warranty



Ratio	Output RPM @ 1750 RPM Input	WCD Center (mm)	HP	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
7.5:1	233	30	0.70	56C	3	CALM30-7.5/1-56C	\$187.14
		40	1.50	56C	5	CALM40-7.5/1-56C	\$229.97
		50	2.72	56C	8	CALM50-7.5/1-56C	\$317.42
		63	4.46	56C	13	CALM63-7.5/1-56C	\$410.99
		63	4.46	145TC	13	CALM63-7.5/1-145TC	\$410.99
		75	6.44	56C	19	CALM75-7.5/1-56C	\$594.64
		75	6.44	145TC	19	CALM75-7.5/1-145TC	\$594.64
		75	6.44	182/4TC	19	CALM75-7.5/1-182/4TC	\$594.64
		90	10.98	56C	28	CALM90-7.5/1-56C	\$680.31
		90	10.98	145TC	28	CALM90-7.5/1-145TC	\$680.31
		90	10.98	182/4TC	28	CALM90-7.5/1-182/4TC	\$680.31
10:1	175	30	0.54	56C	3	CALM30-10/1-56C	\$187.14
		40	1.21	56C	5	CALM40-10/1-56C	\$229.97
		50	2.12	56C	8	CALM50-10/1-56C	\$317.42
		63	3.52	56C	13	CALM63-10/1-56C	\$410.99
		63	3.52	145TC	13	CALM63-10/1-145TC	\$410.99
		75	5.20	56C	19	CALM75-10/1-56C	\$594.64
		75	5.20	145TC	19	CALM75-10/1-145TC	\$594.64
		75	5.20	182/4TC	19	CALM75-10/1-182/4TC	\$594.64
		90	8.92	56C	28	CALM90-10/1-56C	\$680.31
		90	8.92	145TC	28	CALM90-10/1-145TC	\$680.31
		90	8.92	182/4TC	28	CALM90-10/1-182/4TC	\$680.31
15:1	117	30	0.38	56C	3	CALM30-15/1-56C	\$187.14
		40	0.83	56C	5	CALM40-15/1-56C	\$229.97
		50	1.52	56C	8	CALM50-15/1-56C	\$317.42
		63	2.70	56C	13	CALM63-15/1-56C	\$410.99
		63	2.70	145TC	13	CALM63-15/1-145TC	\$410.99
		75	4.07	56C	19	CALM75-15/1-56C	\$594.64
		75	4.07	145TC	19	CALM75-15/1-145TC	\$594.64
		75	4.07	182/4TC	19	CALM75-15/1-182/4TC	\$594.64
		90	7.05	56C	28	CALM90-15/1-56C	\$680.31
		90	7.05	145TC	28	CALM90-15/1-145TC	\$680.31
		90	7.05	182/4TC	28	CALM90-15/1-182/4TC	\$680.31
20:1	88	30	0.28	56C	3	CALM30-20/1-56C	\$187.14
		40	0.63	56C	5	CALM40-20/1-56C	\$229.97
		50	1.14	56C	8	CALM50-20/1-56C	\$317.42
		63	2.06	56C	13	CALM63-20/1-56C	\$410.99
		63	2.06	145TC	13	CALM63-20/1-145TC	\$410.99

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Aluminum Worm Gear Reducers - NEMA: Product Overview

Ratio	Output RPM @ 1800 RPM Input	WCD Center (mm)	HP	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
20:1	88	75	3.24	56C	19	CALM75-20/1-56C	\$594.64
		75	3.24	145TC	19	CALM75-20/1-145TC	\$594.64
		90	5.33	56C	28	CALM90-20/1-56C	\$680.31
		90	5.33	145TC	28	CALM90-20/1-145TC	\$680.31
		90	5.33	182/4TC	28	CALM90-20/1-182/4TC	\$680.31
25:1	70	30	0.30	56C	3	CALM30-25/1-56C	\$187.14
		40	0.48	56C	5	CALM40-25/1-56C	\$229.97
		50	0.86	56C	8	CALM50-25/1-56C	\$317.42
		63	1.56	56C	13	CALM63-25/1-56C	\$410.99
		75	2.43	56C	19	CALM75-25/1-56C	\$594.64
		75	2.43	145TC	19	CALM75-25/1-145TC	\$594.64
		90	4.18	56C	28	CALM90-25/1-56C	\$680.31
		90	4.18	145TC	28	CALM90-25/1-145TC	\$680.31
30:1	58	90	4.18	182/4TC	28	CALM90-25/1-182/4TC	\$680.31
		30	0.25	56C	3	CALM30-30/1-56C	\$187.14
		40	0.53	56C	5	CALM40-30/1-56C	\$229.97
		50	0.94	56C	8	CALM50-30/1-56C	\$317.42
		63	1.64	56C	13	CALM63-30/1-56C	\$410.99
		75	2.41	56C	19	CALM75-30/1-56C	\$594.64
		75	2.41	145TC	19	CALM75-30/1-145TC	\$594.64
		90	4.21	56C	28	CALM90-30/1-56C	\$680.31
40:1	44	90	4.21	145TC	28	CALM90-30/1-145TC	\$680.31
		90	4.21	182/4TC	28	CALM90-30/1-182/4TC	\$680.31
		30	0.19	56C	3	CALM30-40/1-56C	\$187.14
		40	0.40	56C	5	CALM40-40/1-56C	\$229.97
		50	0.70	56C	8	CALM50-40/1-56C	\$317.42
		63	1.21	56C	13	CALM63-40/1-56C	\$410.99
		75	1.90	56C	19	CALM75-40/1-56C	\$594.64
		90	3.01	56C	28	CALM90-40/1-56C	\$680.31
50:1	35	90	3.01	145TC	28	CALM90-40/1-145TC	\$680.31
		30	0.15	56C	3	CALM30-50/1-56C	\$187.14
		40	0.31	56C	5	CALM40-50/1-56C	\$229.97
		50	0.56	56C	8	CALM50-50/1-56C	\$317.42
		63	0.99	56C	13	CALM63-50/1-56C	\$410.99
		75	1.47	56C	19	CALM75-50/1-56C	\$594.64
		90	2.36	56C	28	CALM90-50/1-56C	\$680.31
		90	2.36	145TC	28	CALM90-50/1-145TC	\$680.31
60:1	29	30	0.12	56C	3	CALM30-60/1-56C	\$187.14
		40	0.25	56C	5	CALM40-60/1-56C	\$229.97
		50	0.47	56C	8	CALM50-60/1-56C	\$317.42
		63	0.82	56C	13	CALM63-60/1-56C	\$410.99
		75	1.22	56C	19	CALM75-60/1-56C	\$594.64
		90	1.93	56C	28	CALM90-60/1-56C	\$680.31
80:1	22	40	0.18	56C	5	CALM40-80/1-56C	\$229.97
		50	0.35	56C	8	CALM50-80/1-56C	\$317.42
		63	0.60	56C	13	CALM63-80/1-56C	\$410.99
		75	0.91	56C	19	CALM75-80/1-56C	\$594.64
		90	1.27	56C	28	CALM90-80/1-56C	\$680.31
100:1	17.5	40	0.14	56C	5	CALM40-100/1-56C	\$229.97
		50	0.26	56C	8	CALM50-100/1-56C	\$317.42
		63	0.51	56C	13	CALM63-100/1-56C	\$410.99
		75	0.74	56C	19	CALM75-100/1-56C	\$594.64
		90	1.03	56C	28	CALM90-100/1-56C	\$680.31

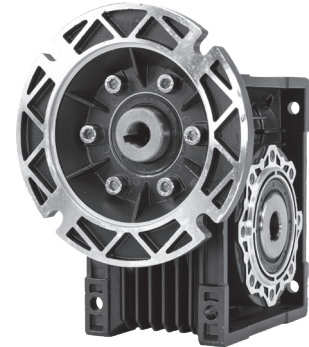
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ALUMINUM WORM
GEAR REDUCERS

Aluminum Worm Gear Reducers - IEC: Product Overview

Product Specifications

- » 7.5:1 - 100:1 ratios
- » Box sizes (Center distances 30 mm - 90 mm)
- » Aluminum alloy housing for light weight design
- » Hardened worm shaft for increased durability
- » Two bearings on input and output shafts
- » IEC motor input flanges
- » All units filled with synthetic oil (Mobil SHC632) for an "M1" position mounting
- » Adjust oil level for alternative mounting positions
- » Double lip oil seals prevent leakage
- » Multiple mounting holes for all angle mounts
- » Powder coat paint plan on external housing to resist corrosion
- » Hollow output bores with plug-in output shafts
- » 1 year warranty



Ratio	Output RPM @ 1750 RPM Input	WCD Center (mm)	HP	IEC Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
7.5:1	233	30	0.70	63B14	3	CALM30-7.5/1-63B14	\$187.14
		40	1.50	63B14	5	CALM40-7.5/1-63B14	\$229.97
		40	1.50	71B14	5	CALM40-7.5/1-71B14	\$229.97
		50	2.72	71B14	8	CALM50-7.5/1-71B14	\$317.42
		50	2.72	80B14	8	CALM50-7.5/1-80B14	\$317.42
		63	4.46	80B14	13	CALM63-7.5/1-80B14	\$410.99
		63	4.46	90B14	13	CALM63-7.5/1-90B14	\$410.99
		75	6.44	90B14	19	CALM75-7.5/1-90B14	\$594.64
		75	6.44	100B14	19	CALM75-7.5/1-100B14	\$594.64
		75	6.44	112B14	19	CALM75-7.5/1-112B14	\$594.64
		90	10.98	112B14	28	CALM90-7.5/1-112B14	\$680.31
		90	10.98	100B14	28	CALM90-7.5/1-100B14	\$680.31
		90	10.98	90B14	28	CALM90-7.5/1-90B14	\$680.31
10:1	175	30	0.54	63B14	3	CALM30-10/1-63B14	\$187.14
		40	1.21	71B14	5	CALM40-10/1-71B14	\$229.97
		40	1.21	63B14	5	CALM40-10/1-63B14	\$229.97
		50	2.12	71B14	8	CALM50-10/1-71B14	\$317.42
		50	2.12	80B14	8	CALM50-10/1-80B14	\$317.42
		63	3.52	80B14	13	CALM63-10/1-80B14	\$410.99
		63	3.52	90B14	13	CALM63-10/1-90B14	\$410.99
		75	5.20	90B14	19	CALM75-10/1-90B14	\$594.64
		75	5.20	100B14	19	CALM75-10/1-100B14	\$594.64
		75	5.20	112B14	19	CALM75-10/1-112B14	\$594.64
		90	8.92	112B14	28	CALM90-10/1-112B14	\$680.31
		90	8.92	100B14	28	CALM90-10/1-100B14	\$680.31
		90	8.92	90B14	28	CALM90-10/1-90B14	\$680.31
15:1	117	30	0.38	63B14	3	CALM30-15/1-63B14	\$187.14
		40	0.83	71B14	5	CALM40-15/1-71B14	\$229.97
		40	0.83	63B14	5	CALM40-15/1-63B14	\$229.97
		50	1.52	71B14	8	CALM50-15/1-71B14	\$317.42
		50	1.52	80B14	8	CALM50-15/1-80B14	\$317.42
		63	2.70	80B14	13	CALM63-15/1-80B14	\$410.99
		63	2.70	90B14	13	CALM63-15/1-90B14	\$410.99
		75	4.07	90B14	19	CALM75-15/1-90B14	\$594.64
		75	4.07	100B14	19	CALM75-15/1-100B14	\$594.64
		75	4.07	112B14	19	CALM75-15/1-112B14	\$594.64
		90	7.05	112B14	28	CALM90-15/1-112B14	\$680.31
		90	7.05	100B14	28	CALM90-15/1-100B14	\$680.31
		90	7.05	90B14	28	CALM90-15/1-90B14	\$680.31
20:1	88	30	0.28	63B14	3	CALM30-20/1-63B14	\$187.14
		40	0.63	71B14	5	CALM40-20/1-71B14	\$229.97
		40	0.63	63B14	5	CALM40-20/1-63B14	\$229.97
		50	1.14	71B14	8	CALM50-20/1-71B14	\$317.42
		50	1.14	80B14	8	CALM50-20/1-80B14	\$317.42
		63	2.06	80B14	13	CALM63-20/1-80B14	\$410.99
		63	2.06	90B14	13	CALM63-20/1-90B14	\$410.99

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Aluminum Worm Gear Reducers - IEC: Product Overview

Ratio	Output RPM @ 1800 RPM Input	WCD Center (mm)	HP	IEC Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
20:1	88	75	3.24	80B14	19	CALM75-20/1-80B14	\$594.64
		75	3.24	90B14	19	CALM75-20/1-90B14	\$594.64
		90	5.33	112B14	28	CALM90-20/1-112B14	\$680.31
		90	5.33	100B14	28	CALM90-20/1-100B14	\$680.31
		90	5.33	90B14	28	CALM90-20/1-90B14	\$680.31
25:1	70	30	0.30	63B14	3	CALM30-25/1-63B14	\$187.14
		40	0.48	71B14	5	CALM40-25/1-71B14	\$229.97
		40	0.48	63B14	5	CALM40-25/1-63B14	\$229.97
		50	0.86	71B14	8	CALM50-25/1-71B14	\$317.42
		50	0.86	80B14	8	CALM50-25/1-80B14	\$317.42
		63	1.56	80B14	13	CALM63-25/1-80B14	\$410.99
		63	1.56	90B14	13	CALM63-25/1-90B14	\$410.99
		75	2.43	80B14	19	CALM75-25/1-80B14	\$594.64
		75	2.43	90B14	19	CALM75-25/1-90B14	\$594.64
		90	4.18	112B14	28	CALM90-25/1-112B14	\$680.31
		90	4.18	100B14	28	CALM90-25/1-100B14	\$680.31
		90	4.18	90B14	28	CALM90-25/1-90B14	\$680.31
30:1	58	30	0.25	63B14	3	CALM30-30/1-63B14	\$187.14
		40	0.53	71B14	5	CALM40-30/1-71B14	\$229.97
		40	0.53	63B14	5	CALM40-30/1-63B14	\$229.97
		50	0.94	71B14	8	CALM50-30/1-71B14	\$317.42
		50	0.94	80B14	8	CALM50-30/1-80B14	\$317.42
		63	1.64	80B14	13	CALM63-30/1-80B14	\$410.99
		63	1.64	90B14	13	CALM63-30/1-90B14	\$410.99
		75	2.41	80B14	19	CALM75-30/1-80B14	\$594.64
		75	2.41	90B14	19	CALM75-30/1-90B14	\$594.64
		90	4.21	112B14	28	CALM90-30/1-112B14	\$680.31
		90	4.21	100B14	28	CALM90-30/1-100B14	\$680.31
		90	4.21	90B14	28	CALM90-30/1-90B14	\$680.31
40:1	44	30	0.19	63B14	3	CALM30-40/1-63B14	\$187.14
		40	0.40	71B14	5	CALM40-40/1-71B14	\$229.97
		50	0.70	71B14	8	CALM50-40/1-71B14	\$317.42
		63	1.21	71B14	13	CALM63-40/1-71B14	\$410.99
		63	1.21	80B14	13	CALM63-40/1-80B14	\$410.99
		75	1.90	80B14	19	CALM75-40/1-80B14	\$594.64
		75	1.90	90B14	19	CALM75-40/1-90B14	\$594.64
		90	3.01	90B14	28	CALM90-40/1-90B14	\$680.31
		90	3.01	80B14	28	CALM90-40/1-80B14	\$680.31
50:1	35	30	0.15	63B14	3	CALM30-50/1-63B14	\$187.14
		40	0.31	63B14	5	CALM40-50/1-63B14	\$229.97
		50	0.56	71B14	8	CALM50-50/1-71B14	\$317.42
		63	0.99	71B14	13	CALM63-50/1-71B14	\$410.99
		63	0.99	80B14	13	CALM63-50/1-80B14	\$410.99
		75	1.47	80B14	19	CALM75-50/1-80B14	\$594.64
		90	2.36	90B14	28	CALM90-50/1-90B14	\$680.31
		90	2.36	80B14	28	CALM90-50/1-80B14	\$680.31
60:1	29	40	0.25	63B14	5	CALM40-60/1-63B14	\$229.97
		50	0.47	71B14	8	CALM50-60/1-71B14	\$317.42
		63	0.82	71B14	13	CALM63-60/1-71B14	\$410.99
		63	0.82	80B14	13	CALM63-60/1-80B14	\$410.99
		75	1.22	80B14	19	CALM75-60/1-80B14	\$594.64
		90	1.93	90B14	28	CALM90-60/1-90B14	\$680.31
80:1	22	40	0.18	63B14	5	CALM40-80/1-63B14	\$229.97
		50	0.35	71B14	8	CALM50-80/1-71B14	\$317.42
		63	0.60	71B14	13	CALM63-80/1-71B14	\$410.99
		63	0.60	80B14	13	CALM63-80/1-80B14	\$410.99
		75	0.91	80B14	19	CALM75-80/1-80B14	\$594.64
		90	1.27	80B14	28	CALM90-80/1-80B14	\$680.31
100:1	17.5	40	0.14	63B14	5	CALM40-100/1-63B14	\$229.97
		63	0.51	80B14	13	CALM63-100/1-80B14	\$410.99
		63	0.51	71B14	13	CALM63-100/1-71B14	\$410.99
		75	0.74	80B14	19	CALM75-100/1-80B14	\$594.64
		90	1.03	80B14	28	CALM90-100/1-80B14	\$680.31

2

ALUMINUM WORM
GEAR REDUCERS

Section 2: Worm Gear Reducers

Aluminum Reducers



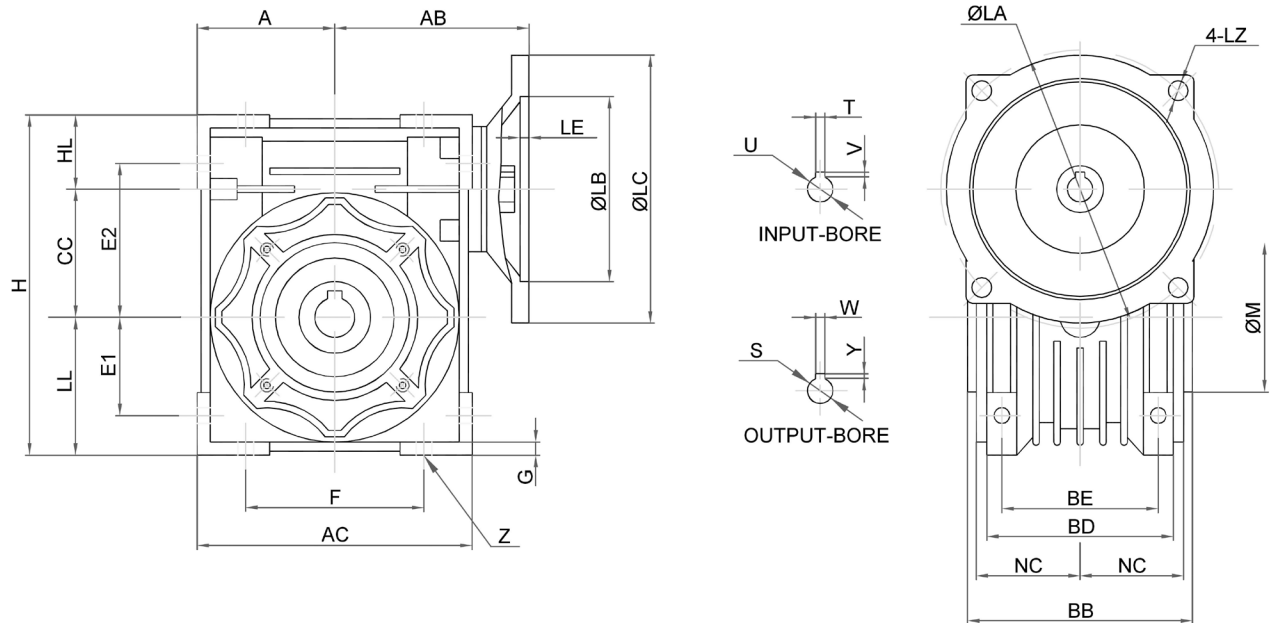
Aluminum Worm Gear Reducers: Mechanical Ratings

2

ALUMINUM WORM
GEAR REDUCERS

Input Speed		1750 RPM					Output Shaft Thrust Load (lbs.)	Backlash (Angular Minutes) (')	
Box Size	Ratio	Mechanical (1.0 SF)			Efficiency (%)	O.H.L. (lbs.)		Min	Max
		Input HP	Output Torque (lbs. in.)	Output Speed					
30	7.5:1	0.70	160	233	85	143	29	13.8	28.8
	10:1	0.54	160	175	83	157	31	13.8	28.8
	15:1	0.38	160	117	78	180	36	13.8	28.8
	20:1	0.28	151	88	74	198	40	13.2	28.2
	25:1	0.30	185	70	69	213	43	13.2	27.0
	30:1	0.25	177	58	66	226	45	13.8	28.8
	40:1	0.19	160	44	60	249	50	13.2	28.2
	50:1	0.15	151	35	56	268	54	13.2	27.0
	60:1	0.12	134	29	52	285	57	12.6	25.8
40	7.5:1	1.50	353	233	87	274	55	11.4	24.0
	10:1	1.21	370	175	85	302	60	11.4	24.0
	15:1	0.83	370	117	83	346	69	11.4	24.0
	20:1	0.63	361	88	79	381	76	11.4	24.0
	25:1	0.48	328	70	76	410	82	10.8	21.0
	30:1	0.53	403	58	71	436	87	11.4	24.0
	40:1	0.40	378	44	66	479	96	11.4	24.0
	50:1	0.31	353	35	63	517	103	10.8	21.0
	60:1	0.25	319	29	59	549	110	11.4	21.6
50	80:1	0.18	277	22	53	604	121	11.4	21.6
	100:1	0.14	244	18	48	651	130	11.4	21.6
	7.5:1	2.72	647	233	88	377	75	8.4	19.2
	10:1	2.12	664	175	87	415	83	8.4	19.2
	15:1	1.52	681	117	83	475	95	8.4	19.2
	20:1	1.14	656	88	80	522	104	6.6	17.4
	25:1	0.86	597	70	77	563	113	7.2	17.4
	30:1	0.94	740	58	73	598	120	8.4	19.2
	40:1	0.70	689	44	68	658	132	6.6	17.4
63	50:1	0.56	647	35	64	709	142	7.2	17.4
	60:1	0.47	605	29	60	753	151	6.6	16.2
	80:1	0.35	546	22	54	829	166	6.6	16.2
	100:1	0.26	462	18	50	893	179	6.6	16.2
	7.5:1	4.46	1076	233	89	492	98	7.8	17.4
	10:1	3.52	1108	175	87	542	108	7.8	17.4
	15:1	2.70	1236	117	85	620	124	7.8	17.4
	20:1	2.06	1225	88	83	683	137	6.6	16.2
	25:1	1.56	1124	70	80	736	147	6.6	13.8
75	30:1	1.64	1345	58	76	782	156	7.8	17.4
	40:1	1.21	1261	44	72	860	172	6.6	16.2
	50:1	0.99	1208	35	68	927	185	6.6	13.8
	60:1	0.82	1135	29	64	985	197	6.0	13.8
	80:1	0.60	1027	22	59	1084	217	6.0	13.8
	100:1	0.51	992	18	54	1168	234	6.0	13.8
	7.5:1	6.44	1555	233	89	581	116	7.8	16.2
	10:1	5.20	1656	175	88	640	128	7.8	16.2
	15:1	4.07	1900	117	86	732	146	7.8	16.2
90	20:1	3.24	1953	88	84	806	161	6.6	14.4
	25:1	2.43	1784	70	82	868	174	6.6	13.2
	30:1	2.41	2028	58	78	923	185	7.8	16.2
	40:1	1.90	2029	44	74	1015	203	6.6	14.4
	50:1	1.47	1881	35	71	1094	219	6.6	13.2
	60:1	1.22	1778	29	67	1162	232	6.0	12.6
	80:1	0.91	1632	22	62	1279	256	6.0	12.6
	100:1	0.74	1517	18	57	1378	276	6.0	12.6
	7.5:1	10.98	2682	233	90	643	129	7.2	14.4
90	10:1	8.92	2867	175	89	708	142	7.2	14.4
	15:1	7.05	3330	117	87	810	162	7.2	14.4
	20:1	5.33	3288	88	86	892	178	6.6	12.0
	25:1	4.18	3145	70	84	961	192	6.0	11.4
	30:1	4.21	3632	58	80	1021	204	7.2	14.4
	40:1	3.01	3330	44	77	1123	225	6.6	12.0
	50:1	2.36	3145	35	74	1210	242	6.0	11.4
	60:1	1.93	2960	29	71	1286	257	5.4	10.8
	80:1	1.27	2397	22	65	1416	283	5.4	10.8
100:1	1.03	2271	18	61	1525	305	5.4	10.8	

Aluminum Worm Gear Reducers - NEMA: Dimensions



2

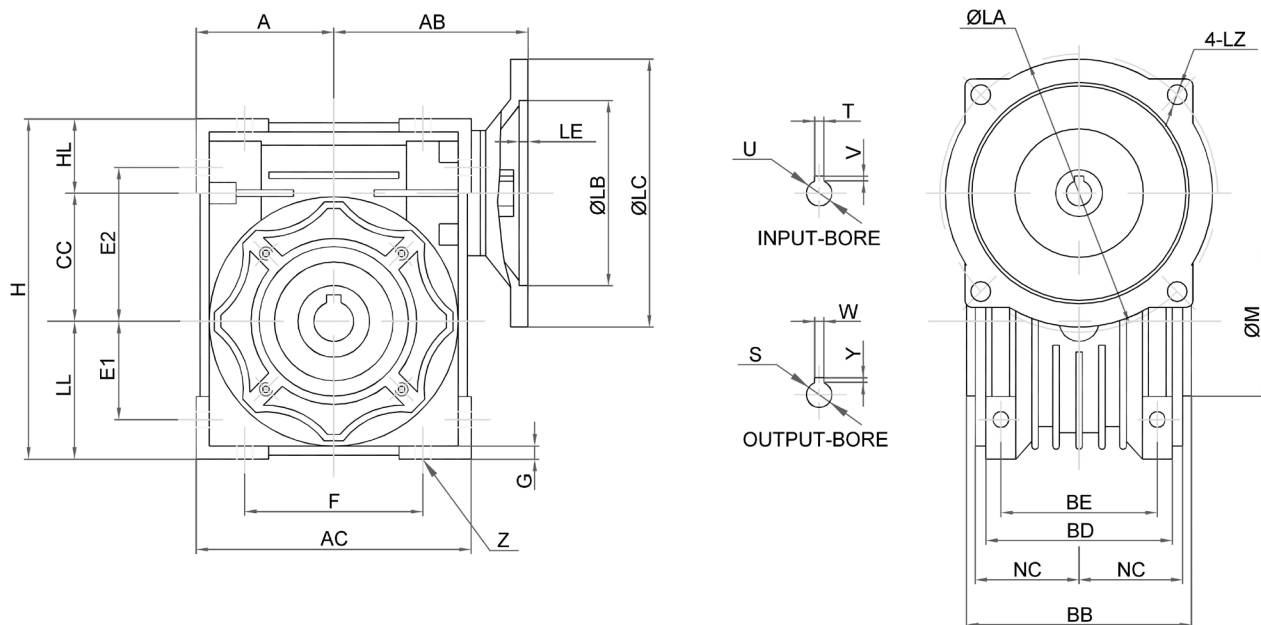
ALUMINUM WORM
GEAR REDUCERS

All listed dimensions in millimeters																
Box Size	NEMA Frame	A	AB	AC	BB	BD	BE	CC	E1	E2	F	G	H	HL	LL	M
30	56C	40	70	80	63	56	44	30	27	44	54	5.5	97	27	40	55
40	56C	50	86	101	78	71	60	40	35	55	70	6.6	121	31.5	50	60
50	56C	60	94	121	92	85	70	50	40	64	80	7	144	34	60	70
63	56C	72	105	146	112	103	85	63	50	80	100	8	174	39	72	80
	145TC	72	105	146	112	103	85	63	50	80	100	8	174	39	72	80
75	56C	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
	145TC	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
	182/4TC	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
90	56C	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110
	145TC	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110
	182/4TC	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110

Box Size	NEMA Frame	NC	Z	INPUT BORE (inches)		OUTPUT BORE (inches)		FLANGE (inches)				
				U	T x V	S	W x Y	LA	LB	LC	LE	LZ
30	56C	29	6.5	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	4.5	5.787	0.177	0.413
40	56C	36.5	6.5	0.625	3/16 x 3/32	0.75	3/16 x 3/32	5.875	4.5	5.787	0.157	0.413
50	56C	43.5	8.4	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	5.787	0.157	0.413
63	56C	53	8.5	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	5.787	0.177	0.413
	145TC	53	8.5	0.875	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	5.787	0.177	0.413
75	56C	57	11	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	5.787	0.157	0.413
	145TC	57	11	0.875	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	5.787	0.157	0.413
	182/4TC	57	11	1.125	1/4 x 1/8	1.25	1/4 x 1/8	7.25	8.5	9	0.217	0.413
90	56C	67	13	0.625	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	5.787	0.157	0.413
	145TC	67	13	0.875	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	5.787	0.157	0.413
	182/4TC	67	13	1.125	1/4 x 1/8	1.375	5/16 x 9/64	7.25	8.5	9	0.217	0.413

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Aluminum Worm Gear Reducers - IEC: Dimensions

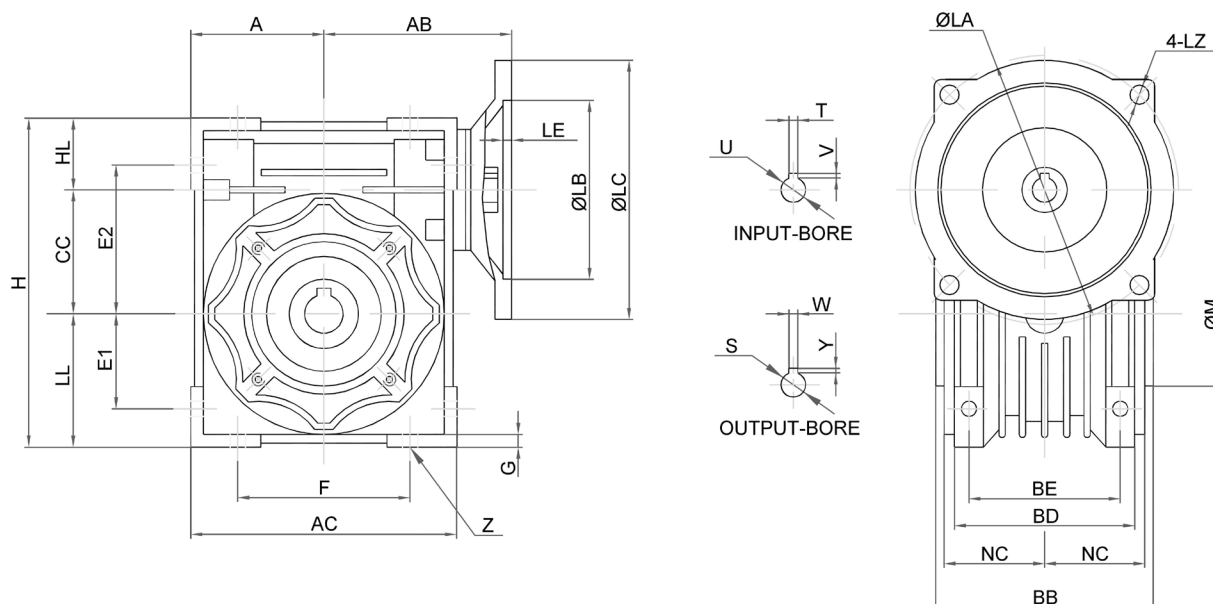


All listed dimensions in millimeters																
Box Size	IEC Frame	A	AB	AC	BB	BD	BE	CC	E1	E2	F	G	H	HL	LL	M
30	63B14	40	55		63	56	44	30	27	44	54	5.5	97	27	40	55
40	63B14	50	86		78	71	6	40	35	55	70	6.6	121	31.5	50	60
	71B14	50	86		78	71	60	40	35	55	70	6.6	121	31.5	50	60
50	71B14	60	94		92	85	70	50	40	64	80	7	144	34	60	70
	80B14	60	94		92	85	70	50	40	64	80	7	144	34	60	70
63	80B14	72	105		112	103	85	63	50	80	100	8	174	39	72	80
	90B14	72	105		112	103	85	63	50	80	100	8	174	39	72	80
75	90B14	86	126		120	112	90	75	60	93	120	10	205	45	86	95
	100B14	86	126		120	112	90	75	60	93	120	10	205	45	86	95
	112B14	86	126		120	112	90	75	60	93	120	10	205	45	86	95
90	90B14	103	143		140	130	100	90	70	102	140	11	238	45	103	110
	100B14	103	143		140	130	100	90	70	102	140	11	238	45	103	110
	112B14	103	143		140	130	100	90	70	102	140	11	238	45	103	110

Box Size	IEC Frame	NC	Z	INPUT BORE (mm)		OUTPUT BORE (mm)		FLANGE (mm)				
				U	T x V	S	W x Y	LA	LB	LC	LE	LZ
30	63B14	29	6.5	11	4 x 1.8	14	5 x 2.3	75	60	90	3	5.5
40	63B14	36.5	6.5	11	4 x 1.8	18	6 x 2.8	75	60	90	4	6
	71B14	36.5	6.5	14	4 x 2.3	18	6 x 2.8	85	70	105	3.5	6.6
50	71B14	43.5	8.4	14	5 x 2.3	25	8 x 3.3	85	70	105	4	6.6
	80B14	43.5	8.4	19	6 x 2.8	25	8 x 3.3	100	80	120	4	6.6
63	80B14	53	8.5	19	6 x 2.8	25	8 x 3.3	100	80	120	3.5	6.6
	90B14	53	8.5	24	8 x 3.3	25	8 x 3.3	115	95	140	3.5	9
75	90B14	57	11	24	8 x 3.3	28	8 x 3.3	115	95	140	3.5	9
	100B14	57	11	28	8 x 3.3	28	8 x 3.3	130	110	160	4	9
	112B14	57	11	28	8 x 3.3	28	8 x 3.3	130	110	160	4	9
90	90B14	67	13	24	8 x 3.3	35	8 x 3.3	115	95	140	3.5	9
	100B14	67	13	28	8 x 3.3	35	8 x 3.3	130	110	160	4	9
	112B14	67	13	28	8 x 3.3	35	8 x 3.3	130	110	160	4	9

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Aluminum Worm Gear Reducers - NEMA: Competitor Dimensional Comparison - Motovario



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ALUMINUM WORM
GEAR REDUCERS

All listed dimensions in millimeters																
Box Size	NEMA Frame	A	AB	AC	BB	BD	BE	CC	E1	E2	F	G	H	HL	LL	M
30	56C	40	67	80	63	56	44	30	27	44	54	5.5	97	27	40	55
40	56C	50	80	100	78	71	60	40	35	55	70	6.5	121.5	31.5	50	60
50	56C	60	90	120	92	85	70	50	40	64	80	7	144	34	60	70
63	56C	72	122	144	112	103	85	63	50	80	100	8	179	44	72	80
	145TC	72	122	144	112	103	85	63	50	80	100	8	179	44	72	80
75	56C	89	140	178	120	112	90	75	60	93	120	10	209	48	86	95
	145TC	89	140	178	120	112	90	75	60	93	120	10	209	48	86	95
	182/4TC	89	150	178	120	112	90	75	60	93	120	10	209	48	86	95
90	56C	103	158	206	140	130	100	90	70	102	140	11	247	54	103	110
	145TC	103	158	206	140	130	100	90	70	102	140	11	247	54	103	110
	182/4TC	103	168	206	140	130	100	90	70	102	140	11	247	54	103	110

Box Size	NEMA Frame	NC	Z	INPUT BORE (inches)		OUTPUT BORE (inches)		FLANGE (inches)				
				U	T x V	S	W x Y	LA	LB	LC	LE	LZ
30	56C	29	6.5	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	3	5.625	NL	0.413
40	56C	36.5	6.5	0.625	3/16 x 3/32	0.75	3/16 x 3/32	5.875	4.5	6.5	NL	0.413
50	56C	43.5	8.4	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	6.5	NL	0.413
63	56C	53	8.5	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	145TC	53	8.5	0.875	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
75	56C	57	11	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	145TC	57	11	0.875	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	182/4TC	57	11	1.125	1/4 x 1/8	1.25	1/4 x 1/8	7.25	8.5	9	NL	0.413
90	56C	67	13	0.625	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	6.5	NL	0.413
	145TC	67	13	0.875	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	6.5	NL	0.413
	182/4TC	67	13	1.125	1/4 x 1/8	1.375	5/16 x 9/64	7.25	8.5	9	NL	0.413

Motovario® dimensional data was derived from their Catalog_VSF_Nema_WEB_3012012111322.
Blue shaded cells indicate a dimensional difference. NL denotes ratings not listed.
All dimensions are in millimeters unless denoted in inches.

Aluminum Worm Gear Reducers: Accessories and Parts

Output Flanges

Box Size	Model Number	List Price
30	CALM30-OPF	\$23.92
40	CALM40-OPF	\$33.50
50	CALM50-OPF	\$39.38
63	CALM63-OPF	\$46.06
75	CALM75-OPF	\$60.14
90	CALM90-OPF	\$75.30



Output Flanges are FA style.
FB and FC style output flanges are available for order as non-stock items.

Output Covers

Box Size	Model Number	List Price
30	CALM30-OPC	\$9.24
40	CALM40-OPC	\$9.24
50	CALM50-OPC	\$15.39
63	CALM63-OPC	\$15.39
75	CALM75-OPC	\$15.39
90	CALM90-OPC	\$15.39



Drain Plugs

Box Size	Model Number	List Price
30	PJK10W	\$4.62
40	PJK10W	\$4.62
50	PJK10W	\$4.62
63	PJK16W	\$4.62
75	PJK16W	\$4.62
90	PJK16W	\$4.62



Torque Arms

Box Size	Model Number	List Price
30	CALM30-TA	\$33.09
40	CALM40-TA	\$35.26
50	CALM50-TA	\$44.85
63	CALM63-TA	\$55.08
75	CALM75-TA	\$67.76
90	CALM90-TA	\$84.64



Single Output Shafts



Double Output Shafts



NEMA - inches

Box Size	Shaft Dia.	Shaft Lgth.	Model Number	List Price
30	0.625	1.57	CALM30-S	\$20.77
40	0.75	1.97	CALM40-S	\$24.05
50	1	1.97	CALM50-S	\$33.55
63	1.125	2.36	CALM63-S	\$38.25
75	1.25	2.76	CALM75-S	\$49.18
90	1.375	3.15	CALM90-S	\$63.48

NEMA - inches

Box Size	Shaft Dia.	Shaft Lgth.	Model Number	List Price
30	0.625	1.57	CALM30-DS	\$27.32
40	0.75	1.97	CALM40-DS	\$32.79
50	1	1.97	CALM50-DS	\$47.06
63	1.125	2.36	CALM63-DS	\$55.05
75	1.25	2.76	CALM75-DS	\$69.45
90	1.375	3.15	CALM90-DS	\$87.96

IEC - mm

Box Size	Shaft Dia.	Shaft Lgth.	Model Number	List Price
30	14	30	CALM30-S-IEC	\$20.77
40	18	40	CALM40-S-IEC	\$24.05
50	25	50	CALM50-S-IEC	\$33.55
63	25	50	CALM63-S-IEC	\$38.25
75	28	60	CALM75-S-IEC	\$49.18
90	35	80	CALM90-S-IEC	\$63.48

IEC - mm

Box Size	Shaft Dia.	Shaft Lgth.	Model Number	List Price
30	14	30	CALM30-DS-IEC	\$27.32
40	18	40	CALM40-DS-IEC	\$32.79
50	25	50	CALM50-DS-IEC	\$47.06
63	25	50	CALM63-DS-IEC	\$55.05
75	28	60	CALM75-DS-IEC	\$69.45
90	35	80	CALM90-DS-IEC	\$87.96

Section 3: Helical Gear Reducers

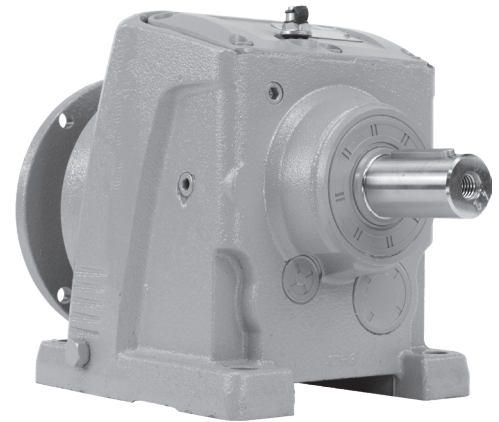
WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Product Specifications

- » 2:1 - 120:1 ratios (other ratios available as custom orders)
- » Box sizes 37 - 147
- » Horsepower range from 1/4 HP to 100 HP
- » Built for high efficiency, high strength and low noise
- » All cast iron housings for increased strength and reliability
- » Gears are precision machined for better rotation and quieter operation
- » Gearbox flanges are designed to accept NEMA C-face electric motors
- » No coupling necessary
- » Drop-in for most major European-produced inline reducer brands
- » Units filled with HD320 mineral oil for an "M1" mounting position
- » Adjust oil level for alternative mounting positions
- » 2 year warranty



3

WINL SERIES - HELICAL
INLINE GEAR REDUCERS

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	S. C.	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
37	5:1	4.88	359	1.00	III	160	465	56C	2	31	WINL37-5/1-56C	\$738.72
	5:1	4.88	359	2.00	III	330	440	145TC	2	31	WINL37-5/1-145TC	\$738.72
	10:1	10.02	175	1.00	III	340	575	56C	2	31	WINL37-10/1-56C	\$738.72
	10:1	10.02	175	2.00	III	670	530	145TC	2	31	WINL37-10/1-145TC	\$738.72
	15:1	15.75	111	1.00	III	530	650	56C	2	31	WINL37-15/1-56C	\$738.72
	15:1	14.08	124	2.00	II	950	580	145TC	3	31	WINL37-15/1-145TC-3S	\$738.72
	20:1	19.95	88	1.00	III	670	690	56C	2	31	WINL37-20/1-56C	\$738.72
	20:1	19.95	88	2.00	I	1350	630	145TC	2	31	WINL37-20/1-145TC	\$738.72
	30:1	31.02	56	1.00	II	1010	760	56C	3	31	WINL37-30/1-56C	\$738.72
	30:1	31.02	56	2.00	I*	2020	700	145TC	3	31	WINL37-30/1-145TC	\$738.72
	40:1	40.08	44	1.00	I	1310	800	56C	3	31	WINL37-40/1-56C	\$738.72
	50:1	52.24	33	1.00	I	1710	840	56C	3	31	WINL37-50/1-56C	\$738.72
	60:1	60.84	29	0.82	I*	1770	705	56C	3	31	WINL37-60/1-56C	\$738.72
47	5:1	4.85	361	2.00	III	330	670	145TC	2	50	WINL47-5/1-145TC	\$849.52
	5:1	4.85	361	3.00	III	490	645	182/4TC	2	50	WINL47-5/1-182/4TC	\$849.52
	10:1	11.27	155	5.00	II	1900	740	182/4TC	2	50	WINL47-10/1-182/4TC	\$849.52
	15:1	15.18	115	3.00	II	1520	880	182/4TC	2	50	WINL47-15/1-182/4TC	\$849.52
	20:1	18.37	95	2.00	III	1240	975	145TC	2	50	WINL47-20/1-145TC	\$849.52
	20:1	19.18	95	3.00	I	1860	910	182/4TC	2	50	WINL47-20/1-182/4TC	\$849.52
	30:1	31.83	55	2.00	I	2080	1070	145TC	3	50	WINL47-30/1-145TC	\$849.52
	40:1	41.51	42	1.00	II	1360	1215	56C	3	50	WINL47-40/1-56C	\$849.52
	50:1	52.84	33	1.00	II	1730	1215	56C	3	50	WINL47-50/1-56C	\$849.52
	60:1	63.37	28	1.00	I	2070	1215	56C	3	50	WINL47-60/1-56C	\$849.52
RX57	3:1	3.19	549	3.00	I	336	345	182TC	1	44	WINL57-3/1-182TC	\$738.72
RX67	2:1	1.86	941	5.00	II	327	365	182/4TC	1	49	WINL67-2/1-182/4TC	\$800.28
	2.5:1	2.35	745	5.00	II	413	385	182/4TC	1	49	WINL67-2.5/1-182/4TC	\$800.28
	3.5:1	3.52	497	3.00	I	371	420	182TC	1	49	WINL67-3.5/1-182TC	\$800.28
67	5:1	5.23	335	2.00	III	350	770	145TC	2	73	WINL67-5/1-145TC	\$1,206.57
	5:1	5.23	335	5.00	III	880	710	182/4TC	2	73	WINL67-5/1-182/4TC	\$1,206.57
	10:1	9.90	177	5.00	III	1670	845	182/4TC	2	73	WINL67-10/1-182/4TC	\$1,206.57
	15:1	15.41	114	2.00	III	1040	1060	145TC	2	73	WINL67-15/1-145TC	\$1,206.57
	15:1	15.41	114	3.00	III	1560	1020	182TC	2	73	WINL67-15/1-182TC	\$1,206.57
	20:1	21.33	82	3.00	III	2160	1100	182TC	3	73	WINL67-20/1-182TC	\$1,206.57
	30:1	28.77	61	2.00	III	1880	1220	145TC	3	73	WINL67-30/1-145TC	\$1,206.57

Service Class I (S.F.=1.0) Service Class II (S.F.=1.5) Service Class III (S.F.=2.0)

*Service Class<I

Actual Max Input HP ratings are shown on pages 54-56 actual Max Input HP ratings are shown on pages 54-56

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Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	S. C.	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
67	40:1	41.22	42	2.00	II	2690	1320	145TC	3	73	WINL67-40/1-145TC	\$1,206.57
	50:1	52.21	34	2.00	I	3410	1430	145TC	3	73	WINL67-50/1-145TC	\$1,206.57
	60:1	63.07	28	1.00	III	2060	1630	56C	3	73	WINL67-60/1-56C	\$1,206.57
	80:1	78.59	22	1.00	II	2570	1700	56C	3	73	WINL67-80/1-56C	\$1,206.57
	100:1	98.69	18	1.00	II	3220	1700	56C	3	73	WINL67-100/1-56C	\$1,206.57
	120:1	125.28	14	1.00	I	4090	1700	56C	3	73	WINL67-120/1-56C	\$1,206.57
RX77	2.5:1	2.38	735	5.00	III	418	650	182/4TC	1	71	WINL77-2.5/1-182/4TC	\$1,046.52
	2.5:1	2.38	735	7.50	II	627	535	213TC	1	71	WINL77-2.5/1-213TC	\$1,046.52
	4:1	4.19	418	3.00	III	442	885	182TC	1	71	WINL77-4/1-182TC	\$1,046.52
77	5:1	4.78	366	5.00	III	800	800	182/4TC	2	83	WINL77-5/1-182/4TC	\$1,415.87
	5:1	4.78	366	7.50	III	1210	765	213TC	2	83	WINL77-5/1-213TC	\$1,415.87
	10:1	10.91	160	5.00	I	1840	1010	182/4TC	2	83	WINL77-10/1-182/4TC	\$1,415.87
	10:1	10.91	160	7.50	III	2760	935	213TC	2	83	WINL77-10/1-213TC	\$1,415.87
	15:1	14.83	118	5.00	III	2500	1080	182/4TC	2	83	WINL77-15/1-182/4TC	\$1,415.87
	20:1	23.31	75	3.00	III	2350	1300	182TC	2	83	WINL77-20/1-182TC	\$1,415.87
	25:1	25.27	69	5.00	II	4130	1150	182/4TC	3	83	WINL77-25/1-182/4TC	\$1,415.87
	30:1	31.97	55	3.00	III	3130	1370	182/4TC	3	83	WINL77-30/1-182/4TC	\$1,415.87
	40:1	39.31	45	3.00	II	3850	1420	182/4TC	3	83	WINL77-40/1-182/4TC	\$1,415.87
	50:1	53.24	33	2.00	II	3480	1680	145TC	3	83	WINL77-50/1-145TC	\$1,415.87
	60:1	57.73	30	2.00	II	3770	1710	145TC	3	83	WINL77-60/1-145TC	\$1,415.87
	80:1	84.62	21	2.00	I	5530	1850	145TC	3	83	WINL77-80/1-145TC	\$1,415.87
	100:1	109.54	16	2.00	I*	7180	1870	145TC	3	83	WINL77-100/1-145TC	\$1,415.87
	120:1	124.34	14	1.00	II	4060	1940	56C	3	83	WINL77-120/1-56C	\$1,415.87
RX87	2:1	2.04	858	10.00	III	717	740	213/5TC	1	124	WINL87-2/1-213/5TC	\$1,723.67
	2:1	2.04	858	20.00	I	1434	655	254/6TC	1	159	WINL87-2/1-254/6TC	\$1,723.67
	2.5:1	2.52	694	10.00	III	886	780	213/5TC	1	124	WINL87-2.5/1-213/5TC	\$1,723.67
	2.5:1	2.52	694	20.00	I	1771	700	254/6TC	1	159	WINL87-2.5/1-254/6TC	\$1,723.67
	3:1	3.19	549	10.00	I	1121	825	213/5TC	1	124	WINL87-3/1-213/5TC	\$1,723.67
	3.5:1	3.54	494	10.00	I	1244	845	213/5TC	1	124	WINL87-3.5/1-213/5TC	\$1,723.67
	4:1	3.77	464	10.00	I	1325	880	213/5TC	1	124	WINL87-4/1-213/5TC	\$1,723.67
	4.5:1	4.43	395	5.00	I	778	990	182/4TC	1	106	WINL87-4.5/1-182/4TC	\$1,723.67
87	5:1	4.73	370	10.00	III	1590	1790	213/5TC	2	160	WINL87-5/1-213/5TC	\$2,246.94
	5:1	4.73	370	15.00	II	2390	1730	254TC	2	160	WINL87-5/1-254TC	\$2,246.94
	10:1	10.66	164	5.00	III	1800	2390	182/4TC	2	160	WINL87-10/1-182/4TC	\$2,246.94
	10:1	10.66	164	10.00	II	3590	2260	213/5TC	2	160	WINL87-10/1-213/5TC	\$2,246.94
	10:1	10.66	164	15.00	I	5390	2140	254TC	2	160	WINL87-10/1-254TC	\$2,246.94
	15:1	15.29	114	5.00	III	2570	2650	182/4TC	2	160	WINL87-15/1-182/4TC	\$2,246.94
	15:1	15.29	114	7.50	III	3860	2570	213/5TC	2	160	WINL87-15/1-213/5TC	\$2,246.94
	20:1	20.06	87	5.00	III	3280	2840	182/4TC	3	160	WINL87-20/1-182/4TC	\$2,246.94
	20:1	20.06	87	7.50	I	4910	2710	213/5TC	3	160	WINL87-20/1-213/5TC	\$2,246.94
	30:1	31.73	55	5.00	II	5180	3200	182/4TC	3	160	WINL87-30/1-182/4TC	\$2,246.94
	40:1	38.20	46	5.00	II	6240	3420	182/4TC	3	160	WINL87-40/1-182/4TC	\$2,246.94
	50:1	49.16	36	2.00	III	3250	3790	145TC	3	160	WINL87-50/1-145TC	\$2,246.94
	50:1	49.16	36	5.00	I	8030	3630	182/4TC	3	160	WINL87-50/1-182/4TC	\$2,246.94
	60:1	61.54	28	2.00	III	4070	3790	145TC	3	160	WINL87-60/1-145TC	\$2,246.94
	60:1	61.54	28	3.00	III	6030	3790	182/4TC	3	160	WINL87-60/1-182/4TC	\$2,246.94
	80:1	87.27	20	2.00	III	5700	3790	145TC	3	160	WINL87-80/1-145TC	\$2,246.94
	80:1	87.27	20	3.00	II	8550	3790	182/4TC	3	160	WINL87-80/1-182/4TC	\$2,246.94
	110:1	112.52	16	2.00	II	7350	3790	145TC	3	160	WINL87-110/1-145TC	\$2,246.94
	120:1	122.17	14	2.00	II	7980	3790	145TC	3	160	WINL87-120/1-145TC	\$2,246.94
	180:1	179.70	10	2.00	I	11740	3790	145TC	3	160	WINL87-180/1-145TC	\$2,246.94

Service Class I (S.F.=1.0) Service Class II (S.F.=1.5) Service Class III (S.F.=2.0)

*Service Class<I

Actual Max Input HP ratings are shown on pages 54-56 actual Max Input HP ratings are shown on pages 54-56

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Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	S. C.	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
RX97	2:1	2.12	825	30.00	II	2235	845	284/6TC	1	214	WINL97-2/1-284/6TC	\$3,016.43
	2:1	1.89	926	40.00	I	2657	765	324TC	1	214	WINL97-2/1-324TC	\$3,016.43
	2.5:1	2.68	653	30.00	I	2826	950	284/6TC	1	214	WINL97-2.5/1-284/6TC	\$3,016.43
	3:1	3.07	570	20.00	II	2158	1300	254/6TC	1	214	WINL97-3/1-254/6TC	\$3,016.43
	3.5:1	3.48	503	20.00	II	2446	1235	254/6TC	1	214	WINL97-3.5/1-254/6TC	\$3,016.43
	3.5:1	3.48	503	30.00	I	3669	1105	284/6TC	1	214	WINL97-3.5/1-284/6TC	\$3,016.43
	4:1	3.81	459	30.00	I	4017	1115	284/6TC	1	214	WINL97-4/1-284/6TC	\$3,016.43
	4.5:1	4.42	396	10.00	II	1553	1470	213/5TC	1	214	WINL97-4.5/1-213/5TC	\$3,016.43
97	5:1	5.42	323	20.00	III	3650	2380	254/6TC	2	244	WINL97-5/1-254/6TC	\$3,724.36
	5:1	5.42	323	30.00	III	5480	2250	284/6TC	2	244	WINL97-5/1-284/6TC	\$3,724.36
	10:1	10.00	175	30.00	II	10100	2650	254/6TC	2	244	WINL97-10/1-254/6TC	\$3,724.36
	10:1	10.00	175	20.00	III	6730	2850	284/6TC	2	244	WINL97-10/1-284/6TC	\$3,724.36
	15:1	13.56	129	10.00	III	4560	3320	213/5TC	2	244	WINL97-15/1-213/5TC	\$3,724.36
	15:1	13.56	129	20.00	III	9130	3050	254/6TC	2	244	WINL97-15/1-254/6TC	\$3,724.36
	15:1	13.56	129	30.00	II	13700	2780	284/6TC	2	244	WINL97-15/1-284/6TC	\$3,724.36
	20:1	21.23	82	20.00	II	14300	3320	254/6TC	2	244	WINL97-20/1-254/6TC	\$3,724.36
	30:1	28.98	60	10.00	III	9470	3940	213/5TC	3	244	WINL97-30/1-213/5TC	\$3,724.36
	30:1	28.98	60	15.00	II	14200	3600	254TC	3	244	WINL97-30/1-254TC	\$3,724.36
	40:1	37.84	46	10.00	III	12400	4060	213/5TC	3	244	WINL97-40/1-213/5TC	\$3,724.36
	50:1	51.10	34	10.00	II	16700	4060	213/5TC	3	244	WINL97-50/1-213/5TC	\$3,724.36
	60:1	59.52	29	7.50	II	14600	4060	213/5TC	3	244	WINL97-60/1-213/5TC	\$3,724.36
	80:1	82.59	21	5.00	II	13500	4060	182/4TC	3	244	WINL97-80/1-182/4TC	\$3,724.36
	80:1	82.59	21	7.50	I	20200	4060	213TC	3	244	WINL97-80/1-213TC	\$3,724.36
	100:1	97.76	18	5.00	II	16000	4060	182/4TC	3	244	WINL97-100/1-182/4TC	\$3,724.36
	120:1	127.61	14	3.00	III	12500	4060	182/4TC	3	244	WINL97-120/1-182/4TC	\$3,724.36
	180:1	181.06	10	3.00	III	1770	4060	182/4TC	3	244	WINL97-180/1-182/4TC	\$3,724.36
RX107	2:1	2.30	761	50.00	I	4052	990	324/6TC	1	286	WINL107-2/1-324/6TC	\$3,816.70
	3:1	3.12	561	30.00	II	3289	1305	284/6TC	1	286	WINL107-3/1-284/6TC	\$3,816.70
	4:1	4.13	424	20.00	II	2903	1535	254/6TC	1	286	WINL107-4/1-254/6TC	\$3,816.70
107	5:1	4.50	389	10.00	III	1510	3000	213/5TC	2	411	WINL107-5/1-213/5TC	\$5,755.84
	5:1	4.50	389	20.00	III	3030	2890	254/6TC	2	411	WINL107-5/1-254/6TC	\$5,755.84
	5:1	4.50	389	30.00	III	4540	2790	284/6TC	2	411	WINL107-5/1-284/6TC	\$5,755.84
	5:1	4.50	389	50.00	III	7570	2580	324/6TC	2	411	WINL107-5/1-324/6TC	\$5,755.84
	10:1	10.44	168	50.00	I	17580	3080	324/6TC	2	411	WINL107-10/1-324/6TC	\$5,755.84
	15:1	14.38	122	10.00	III	4840	4280	213/5TC	2	411	WINL107-15/1-213/5TC	\$5,755.84
	15:1	14.38	122	20.00	III	9680	3980	254/6TC	2	411	WINL107-15/1-254/6TC	\$5,755.84
	20:1	21.79	86	30.00	I	21350	3930	284/6TC	3	411	WINL107-20/1-284/6TC	\$5,755.84
	20:1	21.79	86	40.00	I	28470	3490	324TC	3	411	WINL107-20/1-324TC	\$5,755.84
	30:1	29.23	60	30.00	I	28640	4020	284/6TC	3	411	WINL107-30/1-284/6TC	\$5,755.84
	40:1	39.52	44	20.00	I	22360	4760	254/6TC	3	411	WINL107-40/1-254/6TC	\$5,755.84
	50:1	53.00	33	10.00	III	17300	6040	213/5TC	3	411	WINL107-50/1-213/5TC	\$5,755.84
	50:1	53.00	33	20.00	I	34600	5030	254/6TC	3	411	WINL107-50/1-254/6TC	\$5,755.84
	60:1	62.90	28	10.00	II	20500	6230	213/5TC	3	411	WINL107-60/1-213/5TC	\$5,755.84
	60:1	62.90	28	15.00	I	30800	5620	254TC	3	411	WINL107-60/1-254TC	\$5,755.84
	80:1	79.95	22	10.00	I	26100	6520	213/5TC	3	411	WINL107-80/1-213/5TC	\$5,755.84
	120:1	115.50	15	10.00	I	37700	6620	213/5TC	3	411	WINL107-120/1-213/5TC	\$5,755.84

Service Class I (S.F.=1.0) Service Class II (S.F.=1.5) Service Class III (S.F.=2.0)

*Service Class<I

Actual Max Input HP ratings are shown on pages 54-56 actual Max Input HP ratings are shown on pages 54-56

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Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

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WINL SERIES - HELICAL
INLINE GEAR REDUCERS

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	S. C.	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
137 Non-Stock Items *	5:1	4.87	360	20.00	III	3300	3970	254/6TC	2	619	WINL137-5/1-254/6TC	\$9,627.94
	5:1	4.87	360	30.00	III	4900	3880	284/6TC	2	619	WINL137-5/1-284/6TC	\$9,627.94
	5:1	4.87	360	50.00	III	8200	3700	324/6TC	2	619	WINL137-5/1-324/6TC	\$9,627.94
	5:1	4.87	360	75.00	II	12300	3480	364/5TC	2	619	WINL137-5/1-364/5TC	\$9,627.94
	10:1	10.12	173	75.00	II	25600	4090	364/5TC	2	619	WINL137-10/1-364/5TC	\$9,627.94
	15:1	14.60	120	30.00	III	14300	5200	284/6TC	3	619	WINL137-15/1-284/6TC	\$9,627.94
	15:1	14.60	120	50.00	II	23800	4680	324/6TC	3	619	WINL137-15/1-324/6TC	\$9,627.94
	15:1	14.60	120	75.00	I	35800	4030	364/5TC	3	619	WINL137-15/1-364/5TC	\$9,627.94
	20:1	20.68	85	75.00	I	50600	3950	364/5TC	3	619	WINL137-20/1-364/5TC	\$9,627.94
	30:1	32.81	53	50.00	I	53600	5210	324/6TC	3	619	WINL137-30/1-324/6TC	\$9,627.94
	40:1	43.25	40	30.00	I	42400	6520	284/6TC	3	619	WINL137-40/1-284/6TC	\$9,627.94
	40:1	43.25	40	40.00	I	56500	5830	324TC	3	619	WINL137-40/1-324TC	\$9,627.94
	50:1	50.13	35	20.00	II	32700	7430	254/6TC	3	619	WINL137-50/1-254/6TC	\$9,627.94
	50:1	50.13	35	30.00	I	49100	6620	284/6TC	3	619	WINL137-50/1-284/6TC	\$9,627.94
	60:1	59.14	30	20.00	II	38600	7740	254/6TC	3	619	WINL137-60/1-254/6TC	\$9,627.94
	80:1	79.05	22	20.00	I	51600	8070	254/6TC	3	619	WINL137-80/1-254/6TC	\$9,627.94
	120:1	117.25	15	15.00	I	57400	9300	254TC	3	619	WINL137-120/1-254TC	\$9,627.94
147 Non-Stock Items *	4:1	4.16	421	125.00	III	17500	6140	405TC	2	915	WINL147-4/1-405TC	\$17,175.18
	5:1	5.00	350	30.00	III	5100	7010	284/6TC	2	915	WINL147-5/1-284/6TC	\$16,928.93
	5:1	5.00	350	50.00	III	8400	6890	324/6TC	2	915	WINL147-5/1-324/6TC	\$16,928.93
	5:1	5.00	350	75.00	III	12600	6470	364/5TC	2	915	WINL147-5/1-364/5TC	\$16,928.93
	5:1	5.00	350	125.00	III	21000	6440	405TC	2	915	WINL147-5/1-405TC	\$16,928.93
	10:1	10.24	171	100.00	II	34500	7910	405TC	2	915	WINL147-10/1-405TC	\$16,928.93
	15:1	15.62	112	50.00	III	26300	9600	324/6TC	2	915	WINL147-15/1-324/6TC	\$16,928.93
	15:1	15.62	112	75.00	II	39400	9140	364/5TC	2	915	WINL147-15/1-364/5TC	\$16,928.93
	15:1	15.62	112	125.00	I	65700	8230	405TC	2	915	WINL147-15/1-405TC	\$16,928.93
	20:1	19.99	88	75.00	II	49000	9710	364/5TC	3	915	WINL147-20/1-364/5TC	\$16,928.93
	30:1	30.23	58	50.00	II	49400	11400	324/6TC	3	915	WINL147-30/1-324/6TC	\$16,928.93
	30:1	30.23	58	60.00	II	59200	11000	364/5TC	3	915	WINL147-30/1-364/5TC	\$16,928.93
	40:1	41.70	42	30.00	III	40900	13200	284/6TC	3	915	WINL147-40/1-284/6TC	\$16,928.93
	40:1	41.70	42	50.00	II	68100	12200	324/6TC	3	915	WINL147-40/1-324/6TC	\$16,928.93
	50:1	50.49	35	20.00	III	33000	14100	254/6TC	3	915	WINL147-50/1-254/6TC	\$16,928.93
	50:1	50.49	35	30.00	III	49500	13800	284/6TC	3	915	WINL147-50/1-284/6TC	\$16,928.93
	60:1	60.38	29	20.00	III	39400	14100	254/6TC	3	915	WINL147-60/1-254/6TC	\$16,928.93
	60:1	60.38	29	40.00	I	78900	13800	324TC	3	915	WINL147-60/1-324TC	\$16,928.93
	80:1	83.30	21	20.00	II	54400	14100	254/6TC	3	915	WINL147-80/1-254/6TC	\$16,928.93
	80:1	83.30	21	30.00	I	81600	14100	284/6TC	3	915	WINL147-80/1-284/6TC	\$16,928.93
	120:1	117.29	15	20.00	I	76600	14100	254/6TC	3	915	WINL147-120/1-254/6TC	\$16,928.93

Service Class I (S.F.=1.0) Service Class II (S.F.=1.5) Service Class III (S.F.=2.0)

*Service Class<I

Actual Max Input HP ratings are shown on pages 54-56 actual Max Input HP ratings are shown on pages 54-56

* WINL137 and WINL147 are Non-Stock Items available by special order only.

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Mechanical Ratings

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	56C		143/145TC		182TC		184TC		213TC		215TC		254TC		256TC	
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
37	5:1	4.88	359	5.91	970	305	2	1.0	160	2.0	330												
	10:1	10.02	175	4.04	1360	388	2	1.0	340	2.0	670												
	15:1	14.08	124	2.99	1580	451	2			2.0	950												
	20:1	15.75	111	2.99	1580	650	2	1.0	530														
	30:1	19.95	88	2.49	1670	489	2	1.0	670	2.0	1350												
	40:1	31.02	56	1.75	1770	565	3	1.0	1010														
	50:1	40.08	44	1.35	1770	615	3	1.0	1310														
	60:1	52.24	33	1.04	1770	670	3	1.0	1710														
47	5:1	4.85	361	10.32	1690	440	2					3.0	490										
	10:1	11.27	155	6.68	2530	590	2							5.0	1900								
	15:1	15.18	115	5.20	2660	650	2					3.0	1520										
	20:1	18.37	95	4.30	2660	690	2			2.0	1240												
	30:1	31.83	55	2.56	2660	835	3			2.0	2080												
	40:1	41.51	42	1.96	2660	910	3	1.0	1360														
	50:1	52.84	33	1.54	2660	985	3	1.0	1730														
	60:1	63.37	28	1.28	2660	1050	3	1.0	2070														
RX57	3:1	3.19	549	4.04	447	133	1					3.0	336										
RX67	2:1	1.86	941	9.43	617	43	1							5.0	327								
	2.5:1	2.35	745	7.56	616	94	1							5.0	327								
	3.5:1	3.52	497	4.11	502	301	1					3.0	371										
67	5:1	5.23	335	12.65	2230	710	2			2.0	350	5.0	880	5.0	880								
	10:1	9.90	177	9.99	3330	880	2							5.0	1670								
	15:1	15.41	114	7.44	2860	1020	2			2.0	1040	3.0	1560										
	20:1	21.33	82	5.99	4300	1165	3					3.0	2160										
	30:1	28.77	61	4.19	3930	1305	3			2.0	1880												
	40:1	41.22	42	3.29	4430	1420	3			2.0	2690												
	50:1	52.21	34	3.12	5310	1480	3			2.0	3410												
	60:1	63.07	28	2.58	5310	1480	3	1.0	2060														
	80:1	78.59	22	2.07	5310	1480	3	1.0	2570														
	100:1	98.69	18	1.65	5310	1480	3	1.0	3220														
	120:1	125.28	14	1.30	5310	1480	3	1.0	4090														
RX77	2.5:1	2.38	735	13.43	1108	--	1							5.0	418	7.5	627						
	4:1	4.19	418	6.16	895	474	1					3.0	442										
77	5:1	4.78	366	25.13	4040	785	2							5.0	800								
	10:1	10.91	160	16.89	6210	1035	2							5.0	1840	7.5	1210						
	15:1	14.83	118	12.35	6170	1145	2							5.0	2500								
	20:1	23.31	75	7.84	6150	1330	2					3.0	2350										
	25:1	25.27	69	8.05	6640	1150	3							5.0	4130								
	30:1	31.97	55	6.36	6640	1480	3					3.0	3130										
	40:1	39.31	45	5.17	6640	1555	3					3.0	3850										
	50:1	53.24	33	3.82	6640	1755	3			2.0	3480												
	60:1	57.73	30	3.52	6640	1800	3			2.0	3770												
	80:1	84.62	21	2.40	6640	1935	3			2.0	5530												
	100:1	109.54	16	1.86	6640	1935	3			2.0	7180												
	120:1	124.34	14	1.64	6640	1935	3	1.0	4060														
RX87	2:1	2.04	858	26.27	1859	123	1									7.5	538	10	717	15	1075	20	1434
	2.5:1	2.52	694	20.25	1770	254	1									7.5	664	10	886	15	1328	20	1771
	3:1	3.19	549	14.4	1593	497	1									7.5	841	10	1121				
	3.5:1	3.54	494	12.83	1575	573	1									7.5	933	10	1244				
	4:1	3.77	464	11.51	1505	690	1									7.5	994	10	1325				
	4.5:1	4.43	395	6.91	1062	942	1					3.0	467	5.0	778								
87	5:1	4.73	370	28.03	4460	1800	2									7.5	1190	10	1590	15	2390		
	10:1	10.66	164	19.43	6970	2375	2							5.0	1800			10	3590	15	5390		
	15:1	15.29	114	15.28	7860	2680	2							5.0	2570	7.5	3860						
	20:1	20.06	87	11.02	7220	2925	3							5.0	3280	7.5	4910						
	30:1	31.73	55	8.12	8410	3010	3							5.0	5180								
	40:1	38.2	46	8.55	10700	3010	3							5.0	6240								
	50:1	49.16	36	7.23	11600	3010	3			2	3250			5.0	8030								
	60:1	61.54	28	6.22	12500	3010	3			2.0	4070	3.0	6030										
	80:1	87.27	20	4.82	13700	3010	3			2.0	5700	3.0	8550										
	100:1	112.52	16	3.74	13700	3010	2			2.0	7350												
	120:1	122.17	14	3.44	13700	3010	3			2.0	7980												
	180:1	179.7	10	2.34	13700	3790	3			2.0	11740												

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WINL SERIES - HELICAL
INLINE GEAR REDUCERS

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Mechanical Ratings (cont.)

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WINL SERIES - HELICAL
INLINE GEAR REDUCERS

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	56C		143/145TC		182TC		184TC		213TC		215TC		254TC		256TC	
								HP	T	HP	+T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
RX97	2:1	1.89	926	54.79	3592	152	1																
	2.5:1	2.68	653	43.8	4071	288	1																
	3:1	3.07	570	38.23	4071	506	1													15	1618	20	2158
	3.5:1	3.48	503	33.72	4070	609	1													15	1835	20	2446
	4:1	3.81	459	30.79	4069	946	1																
	4.5:1	4.42	396	18.4	2821	1322	1								7.5	1165	10	1553					
97	5:1	5.42	323	69.67	12700	1980	2													15	2740	20	3650
	10:1	10.00	175	56.47	19000	2430	2													15	5050	20	6730
	15:1	13.56	129	46.1	21000	2900	2									7.5	3420	10	4560	15	6850	20	9130
	20:1	21.23	82	31.82	22700	3125	2													15	10700	20	14300
	30:1	28.98	60	23.63	22400	3465	3									7.5	7100	10	9470	15	14200		
	40:1	37.84	46	19.78	24400	4000	3									7.5	9270	10	12400				
	50:1	51.10	34	15.92	26600	4080	3									7.5	12500	10	16700				
	60:1	59.52	29	13.67	26600	4080	3									7.5	14600						
	80:1	82.59	21	9.85	26600	4080	3						5.0	13500	7.5	20200							
	100:1	97.76	18	8.32	26600	4080	3						5.0	16000									
	120:1	137.61	14	6.38	26600	4080	3				3.0	12500											
	180:1	181.06	10	4.49	26600	4080	3				3.0	1770											
RX107	2:1	2.30	761	71	5664	605	1																
	3:1	3.12	561	52.34	5664	605	1																
	4:1	4.13	424	32.13	4602	1205	1													15.0	2177	20.0	2903
107	5:1	4.50	389	106	16100	2110	2									7.5	1010	10.0	1510	15.0	2020	20.0	3030
	10:1	10.44	168	72	25300	2581	2																
	15:1	14.38	122	34	15991	3076	2											10.0	4840			20.0	9680
	20:1	21.79	86	42.9	30500	3054	3																
	30:1	29.23	60	35.3	33700	3502	3																
	40:1	39.52	44	29.5	38100	3951	3													15.0	19360	20.0	22360
	50:1	53.00	33	22	38100	4422	3									7.5	13000	10.0	17300	15.0	26000	20.0	34600
	60:1	62.90	28	18.5	38100	4794	3									7.5	15400	10.0	20500	15.0	30800		
	80:1	79.95	22	14.6	38100	5309	3									7.5	19600	10.0	26100				
	120:1	115.50	15	10.1	38100	5938	3									7.5	28300	10.0	37700				
137 Non-Stock Items	5:1	4.87	360	122	20100	2716	2													15.0	2500	20.0	3300
	10:1	10.12	173	116	29600	3266	2																
	15:1	14.60	120	98	46800	3210	3																
	20:1	20.68	85	78	52500	3491	3																
	30:1	32.81	53	58	62000	4467	3																
	40:1	43.24	40	44	62000	5017	3																
	50:1	50.13	35	38	62000	5545	3													15.0	24600	20.0	32700
	60:1	59.14	30	32	62000	6331	3													15.0	29000	20.0	38600
	80:1	79.05	22	24	62000	6802	3													15.0	38700	20.0	51600
120:1	117.25	15	16	62000	7835	3													15.0	57400			
147 Non-Stock Items	4:1	5.00	350	309	52100	5700	2																
	5:1	10.24	171	192	66100	7200	2																
	10:1	15.62	112	148	77800	8300	2																
	15:1	19.99	88	129.4	84500	9020	3																
	20:1	30.23	58	98.2	97000	10340																	
	30:1	41.70	42	79.3	108000	11550	3																
	40:1	50.49	35	69.8	115100	12320															20	33000	
	50:1	60.38	29	58.4	115100	13090	3														20	39400	
	60:1	83.30	21	42.3	115100	13640	3														20	54400	
	80:1	117.29	15	30.1	115100	13640	3														20	76600	
120:1	117.29	15	21	83300	13640	3														20	77560		

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



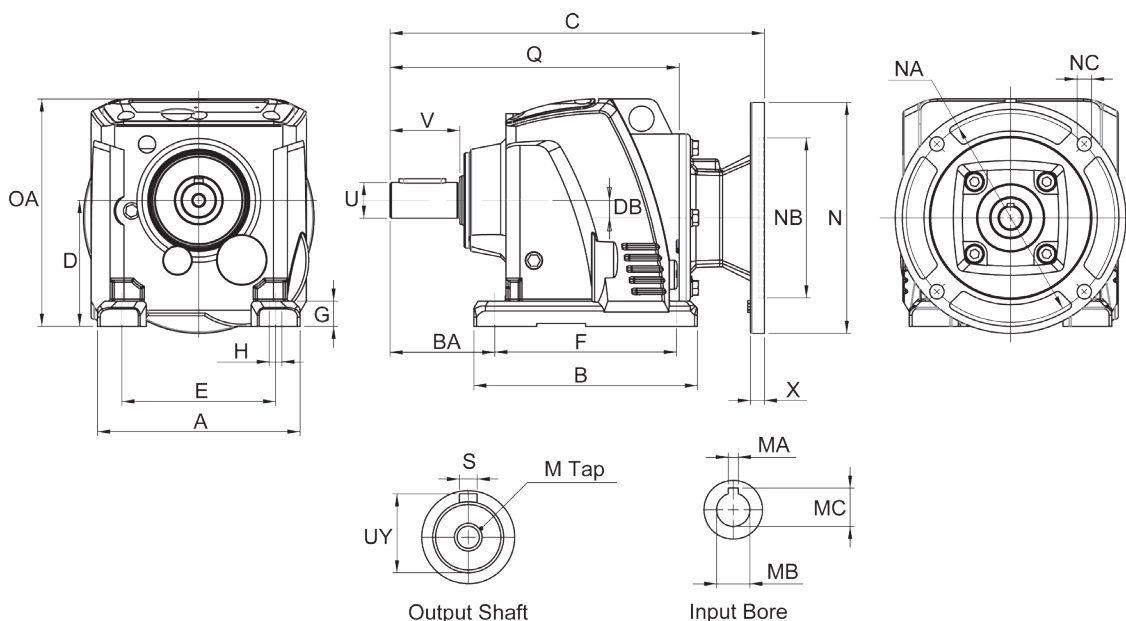
WINL Series - Helical Inline Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	284TC		286TC		324TC		326TC		364TC		365TC		405TC	
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
RX97	2:1	1.89	926	54.79	2592	152	1					40	2657								
	2:1	2.12	825	54.79	2592	152	1	25	1661	30	2235										
	2.5:1	2.68	653	43.8	4071	288	1	25	2355	30	2826										
	3:1	3.07	570	38.23	4071	506	1														
	3.5:1	3.48	503	33.72	4070	609	1	25	3058	30	3669										
	4:1	3.81	459	30.79	4069	946	1	25	3347	30	4017										
RX107	4.5:1	4.42	396	18.4	2821	1322	1														
	2:1	2.30	761	71	5664	605	1							50	4052						
	3:1	3.12	561	52.34	5664	605	1	25	2741	30	3289										
107	4:1	4.13	424	32.13	4602	1205	1														
	5:1	4.50	389	106	16100	2110	2	25	3790	30	4540	40	6060	50	7570						
	10:1	10.44	168	72	25300	2581	2					40	14060	50	17580						
	15:1	14.38	122	34	15991	3076	2														
	20:1	21.79	86	42.9	30500	3054	3	25	17790	30	21350	40	28470								
	30:1	29.23	60	35.3	33700	3502	3	25	23870	30	28640										
	40:1	39.52	44	29.5	38100	3951	3														
	50:1	53.00	33	22	38100	4422	3														
	60:1	62.90	28	18.5	38100	4794	3														
137 Non-Stock Items	80:1	79.95	22	14.6	38100	5309	3														
	120:1	115.50	15	10.1	38100	5938	3														
	5:1	4.87	360	122	20100	2716	2	25	4100	30	4900	40	6600	50	8200	60	9800	75	12300		
	10:1	10.12	173	116	29600	3266	2									60	20400	75	25600		
	15:1	14.60	120	98	46800	3210	3	25	11900	30	14300	40	19100	50	23800	60	28600	75	35800		
	20:1	20.68	85	78	52500	3491	3									60	40500	75	50600		
	30:1	32.81	53	62000	4467	3						40	42900	50	53600						
	40:1	43.25	40	44	62000	5017	3	25	35300	30	42400	40	56500								
	50:1	50.13	35	38	62000	5545	3	25	40900	30	49100										
147 Non-Stock Items	60:1	59.14	30	32	62000	6331	3														
	80:1	79.05	22	24	62000	6802	3														
	120:1	117.25	15	16	62000	7835	3														
	5:1	5.00	350	309	52100	5700	2	25	4200	30	5100	40	6700	50	8400	60	10100	75	12600	125	21000
	10:1	10.24	171	192	66100	7200	2													100	34500
	15:1	15.62	112	148	77800	8300	2					40	26300	50	26300	60	31500	75	39400	125	65700
	20:1	19.99	88	129.4	84500	9020	3									60	39200	75	49000		
	30:1	30.23	58	98.2	97000	10340	3					40	39500	50	49400	60	59200				
	40:1	41.70	42	79.3	108000	11550	3	25	34000	30	40900	40	54500	50	68100						
Non-Stock Items	50:1	50.49	35	69.8	115100	12320	3	25	41200	30	49500										
	60:1	60.38	29	58.4	115100	13090	3					40	78900								
	80:1	83.30	21	42.3	115100	13640	3	25	68000	30	81600										
	120:1	117.29	15	30.1	115100	13640	3														
Non-Stock Items	120:1	117.29	15	21	83300	13640	3														

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WINL SERIES - HELICAL
INLINE GEAR REDUCERS

WINL Series - Helical Inline Reducers: Dimensions



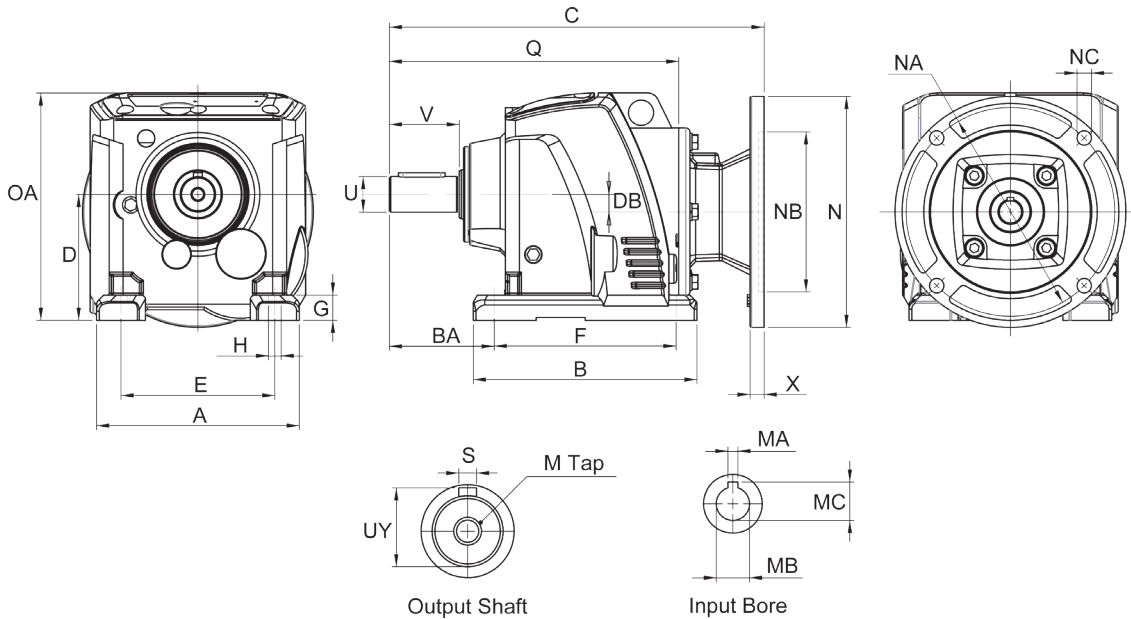
All listed dimensions in inches																										
Box Size	NEMA Frame	A	B	BA	C	D	DB	E	F	G	H	M (UNC)	MA	MB	MC	N	NA	NB	NC	OA	Q	S	U	UY	V	X
37	56C	5.71	6.3	2.95	10.55	3.54	0.49	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	6.4	8.15	0.25	1.0	1.11	1.97	0.39
	145TC	5.71	6.3	2.95	10.94	3.54	0.49	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	6.4	8.15	0.25	1.0	1.11	1.97	0.47
47	56C	6.69	7.68	3.54	11.63	4.53	0.55	5.31	6.5	0.94	0.55	1/2 - 13	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	8.25	9.41	0.25	1.25	1.36	2.36	0.39
	145TC	6.69	7.68	3.54	12.03	4.53	0.55	5.31	6.5	0.94	0.55	1/2 - 13	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	8.25	9.41	0.25	1.25	1.36	2.36	0.47
67	182/4TC	6.69	7.68	3.54	12.76	4.53	0.55	5.31	6.5	0.94	0.55	1/2 - 13	0.25	1.13	1.25	9	7.25	8.5	4 x 0.55	8.25	9.41	0.25	1.25	1.36	2.36	0.67
	56C	8.27	9.25	3.94	13.13	5.12	0.67	5.91	7.68	1.26	0.55	1/2 - 13	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	8.89	10.98	0.31	1.38	1.51	2.76	0.39
77	145TC	8.27	9.25	3.94	13.52	5.12	0.67	5.91	7.68	1.26	0.55	1/2 - 13	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	8.89	10.98	0.31	1.38	1.51	2.76	0.47
	182/4TC	8.27	9.25	3.94	14.25	5.12	0.67	5.91	7.68	1.26	0.55	1/2 - 13	0.25	1.13	1.25	9	7.25	8.5	4 x 0.55	8.89	10.98	0.31	1.38	1.51	2.76	0.67
87	56C	9.06	9.65	4.53	14.23	5.51	0.61	6.69	8.07	1.18	0.71	5/8 - 11	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	10.04	11.91	0.38	1.63	1.79	3.15	0.39
	145TC	9.06	9.65	4.53	14.23	5.51	0.61	6.69	8.07	1.18	0.71	5/8 - 11	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	10.04	11.91	0.38	1.63	1.79	3.15	0.47
97	182/4TC	9.06	9.65	4.53	14.96	5.51	0.61	6.69	8.07	1.18	0.71	5/8 - 11	0.25	1.13	1.25	9	7.25	8.5	4 x 0.55	10.04	11.91	0.38	1.63	1.79	3.15	0.67
	213/5TC	9.06	9.65	4.53	17.22	5.51	0.61	6.69	8.07	1.18	0.71	5/8 - 11	0.31	1.38	1.53	9	7.25	8.5	4 x 0.55	10.04	11.91	0.38	1.63	1.79	3.15	0.67
107	145TC	11.42	12.2	5.51	17.2	7.09	0.71	8.46	10.24	1.77	0.71	3/4 - 10	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	12.99	14.65	0.5	2.13	2.34	3.94	0.47
	182/4TC	11.42	12.2	5.51	17.33	7.09	0.71	8.46	10.24	1.77	0.71	3/4 - 10	0.25	1.13	0.68	9	7.25	8.5	4 x 0.55	12.99	14.65	0.5	2.13	2.34	3.94	0.67
137	213/5TC	11.42	12.2	5.51	19.59	7.09	0.71	8.46	10.24	1.77	0.71	3/4 - 10	0.31	1.38	0.88	9	7.25	8.5	4 x 0.55	12.99	14.65	0.5	2.13	2.34	3.94	0.67
	254/6TC	11.42	12.2	5.51	20.57	7.09	0.71	8.46	10.24	1.77	0.71	3/4 - 10	0.31	1.38	1.53	10	7.25	8.5	4 x 0.55	12.99	14.65	0.5	2.13	2.34	3.94	0.79
147	182/4TC	13.39	14.37	6.3	19.84	8.86	0.81	9.84	12.2	2.17	0.87	3/4 - 11	0.25	1.13	0.68	9	7.25	8.5	4 x 0.55	15.16	17.32	0.63	2.38	2.65	4.72	0.67
	213/5TC	13.39	14.37	6.3	21.95	8.86	0.81	9.84	12.2	2.17	0.87	3/4 - 11	0.31	1.38	0.88	9	7.25	8.5	4 x 0.55	15.16	17.32	0.63	2.38	2.65	4.72	0.67
Non-Stock Items	254/6TC	13.39	14.37	6.3	22.93	8.86	0.81	9.84	12.2	2.17	0.87	3/4 - 11	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	15.16	17.32	0.63	2.38	2.65	4.72	0.79
	284/6TC	13.39	14.37	6.3	23.29	8.86	0.81	9.84	12.2	2.17	0.87	3/4 - 11	0.5	1.88	1.10	11.26	9	10.5	4 x 0.59	15.16	17.32	0.63	2.38	2.65	4.72	0.79
Non-Stock Items	213/5TC	15.75	17.32	7.28	23.74	9.84	0.91	11.42	14.57	2.56	1.02	3/4 - 10	0.31	1.38	1.52	9	7.25	8.5	4 x 0.55	15.92	19.49	0.75	2.88	3.2	5.51	0.67
	254/6TC	15.75	17.32	7.28	24.72	9.84	0.91	11.42	14.57	2.56	1.02	3/4 - 10	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	15.92	19.49	0.75	2.88	3.2	5.51	0.79
Non-Stock Items	284/6TC	15.75	17.32	7.28	25.08	9.84	0.91	11.42	14.57	2.56	1.02	3/4 - 10	0.5	1.88	2.13	11.26	9	10.5	4 x 0.59	15.92	19.49	0.75	2.88	3.2	5.51	0.79
	324/6TC	15.75	17.32	7.28	26.3	9.84	0.91	11.42	14.57	2.56	1.02	3/4 - 10	0.5	2.13	2.38	14.02	11	12.5	4 x 0.65	15.92	19.49	0.75	2.88	3.2	5.51	0.79
Non-Stock Items	254/6TC	17.72	19.29	8.66	28.07	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	19.29	23.23	0.88	3.63	4.01	6.69	0.79
	284/6TC	17.72	19.29	8.66	28.39	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.5	1.88	2.13	11.26	9	10.5	4 x 0.59	19.29	23.23	0.88	3.63	4.01	6.69	0.79
Non-Stock Items	324/6TC	17.72	19.29	8.66	29.61	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.5	2.13	2.38	14.02	11	12.5	4 x 0.65	19.29	23.23	0.88	3.63	4.01	6.69	0.79
	364/5TC	17.72	19.29	8.66	30.67	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.63	2.38	2.65	14.02	11	12.5	4 x 0.65	19.29	23.23	0.88	3.63	4.01	6.69	0.87
Non-Stock Items	254/6TC	20.87	23.23	10.24	31.89	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	24.96	27.36	1	4.38	4.82	8.27	0.79
	284/6TC	20.87	23.23	10.24	32.2	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.5	1.88	2.13	11.26	9	10.5	4 x 0.59	24.96	27.36	1	4.38	4.82	8.27	0.79
Non-Stock Items	324/6TC	20.87	23.23	10.24	33.58	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.5	2.13	2.38	14.02	11	12.5	4 x 0.65	24.96	27.36	1	4.38	4.82	8.27	0.79
	365/5TC	20.87	23.23	10.24	34.65	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.63	2.38	2.65	14.02	11	12.5	4 x 0.65	24.96	27.36	1	4.38	4.82	8.27	0.87
Non-Stock Items	405TC	20.87	23.23	10.24	36.61	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.75	2.88	3.21	13.88	11	12.5	4 x 0.73	24.96	27.36	1	4.38	4.82	8.27	0.75

Dimensions shown in this catalog are for general use only.

RX model dimensions are not shown.

For an exact drawing on a specific rating, please contact our sales office.

WINL Series - Helical Inline Reducers: Competitor Dimensional Comparison - SEW Eurodrive



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WINL SERIES - HELICAL
INLINE GEAR REDUCERS

All listed dimensions in inches

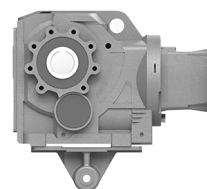
Box Size	NEMA Frame	SEW Model	A	B	BA	C	D	DB	E	F	G	H	M (UNC)	MA	MB	MC	N	NA	NB	NC	OA	Q	S	U	UY	V	X
37	56C	R37	5.71	6.30	2.95	11.77	3.54	0.40	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	5.94	7.91	0.25	1	1.11	1.97	0.61
	145TC		5.71	6.30	2.95	12.70	3.54	0.40	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	5.94	7.91	0.25	1	1.11	1.97	0.65
47	56C	R47	6.69	7.68	3.54	12.86	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	7.36	9.25	0.25	1.25	1.36	2.36	0.61
	145TC		6.69	7.68	3.54	13.78	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	7.36	9.25	0.25	1.25	1.36	2.36	0.65
	182/4TC		6.69	7.68	3.54	15.26	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	7.36	9.25	0.25	1.25	1.36	2.36	0.59
	56C	R67	8.27	9.25	3.94	14.63	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	8.35	11.02	0.31	1.38	1.51	2.76	0.61
67	145TC		8.27	9.25	3.94	15.55	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	8.35	11.02	0.31	1.38	1.51	2.76	0.65
	182/4TC		8.27	9.25	3.94	17.03	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	8.35	11.02	0.31	1.38	1.51	2.76	0.59
	56C	R77	9.06	9.65	4.53	15.18	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	8.98	11.81	0.38	1.63	1.79	3.15	0.61
	145TC		9.06	9.65	4.53	16.06	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	8.98	11.81	0.38	1.63	1.79	3.15	0.65
77	182/4TC		9.06	9.65	4.53	17.50	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	8.98	11.81	0.38	1.63	1.79	3.15	0.59
	213/5TC		9.06	9.65	4.53	19.43	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	8.98	11.81	0.38	1.63	1.79	3.15	0.63
	145TC	R87	11.42	12.20	5.51	18.71	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	11.61	14.65	0.5	2.13	2.35	3.94	0.65
	182/4TC		11.42	12.20	5.51	20.15	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	11.61	14.65	0.5	2.13	2.35	3.94	0.59
87	213/5TC		11.42	12.20	5.51	22.07	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	11.61	14.65	0.5	2.13	2.35	3.94	0.63
	182/4TC	R97	13.39	14.37	6.30	22.62	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.59
97	213/5TC		13.39	14.37	6.30	24.55	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.63
	254/6TC		13.39	14.37	6.30	26.54	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.67
	284/6TC	R107	13.39	14.37	6.30	26.81	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.99
	213/5TC		15.75	17.32	7.28	26.48	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.63
107	254/6TC		15.75	17.32	7.28	28.47	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.67
	284/6TC		15.75	17.32	7.28	28.75	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.79
	324/6TC	R137	15.75	17.32	7.28	31.11	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.50	2.13	2.36	14.02	11	12.5	4 x 0.69	16.06	19.49	0.75	2.88	3.2	5.51	0.87
	254/6TC		17.72	19.29	8.66	31.89	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	19.49	23.19	0.88	3.63	4.01	6.69	0.67
Non-Stock Items	284/6TC		17.72	19.29	8.66	32.17	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	19.49	23.19	0.88	3.63	4.01	6.69	0.79
	324/6TC		17.72	19.29	8.66	34.53	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.50	2.13	2.36	14.02	11	12.5	4 x 0.69	19.49	23.19	0.88	3.63	4.01	6.69	0.87
	365/5TC	R147	17.72	19.29	8.66	34.53	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.63	2.38	2.66	14.02	11	12.5	4 x 0.69	19.49	23.19	0.88	3.63	4.01	6.69	0.87
	254/6TC		20.87	23.23	10.24	35.75	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	22.24	27.36	1	4.38	4.82	8.27	0.67
Non-Stock Items	284/6TC		20.87	23.23	10.24	36.02	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	22.24	27.36	1	4.38	4.82	8.27	0.79
	324/6TC		20.87	23.23	10.24	38.39	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.50	2.13	2.36	14.02	11	12.5	4 x 0.69	22.24	27.36	1	4.38	4.82	8.27	0.87
	365/5TC		20.87	23.23	10.24	38.39	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.63	2.38	2.66	14.02	11	12.5	4 x 0.69	22.24	27.36	1	4.38	4.82	8.27	0.87

SEW Eurodrive dimensional data was derived from their Catalog - US - GM.
Blue shaded cells indicate a dimensional difference.

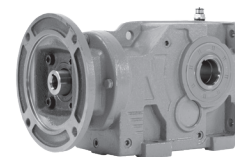
KAN & KHN Series - Helical Bevel Reducers: Product Overview

Product Specifications

- » 5:1 - 120:1 ratios
 - » Additional ratios via custom order
- » Box sizes 37 - 97
- » Horsepower range from 3/4 HP to 30 HP
- » **KAN Series:** Torque arm mounted or flange mounted - hollow bore output series. Torque arm and B5 flange are sold separately.
- » **KHN Series:** Foot mounted - hollow bore output series
- » All cast iron housings for increased strength and reliability
- » Gears are precision machined for better rotation and quieter operation
- » Gearbox flanges are designed to accept NEMA C-face electric motors
- » Drop-in for most major European-produced inline reducer brands
- » 2 year warranty



KAN Series



KHN Series

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Max Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	KAN Model Number	KAN List Price	KHN Model Number	KHN List Price
37	5	4.73	370	8.5	1310	400	56C	3	32	KAN37-5/1-H-56C	\$1,931.57	KHN37-5/1-H-56C	\$1,984.69
	5	4.73	370	8.5	1310	395	143/5TC	3	37	KAN37-5/1-H-143/5TC	\$1,931.57	KHN37-5/1-H-143/5TC	\$1,984.69
	7.5	7.96	220	6	1559	465	56C	3	32	KAN37-7.5/1-H-56C	\$1,931.57	KHN37-7.5/1-H-56C	\$1,984.69
	7.5	7.96	220	6	1559	460	143/5TC	3	37	KAN37-7.5/1-H-143/5TC	\$1,931.57	KHN37-7.5/1-H-143/5TC	\$1,984.69
	10	11.09	158	4.33	1565	520	56C	3	32	KAN37-10/1-H-56C	\$1,931.57	KHN37-10/1-H-56C	\$1,984.69
	10	11.09	158	4.33	1565	510	143/5TC	3	37	KAN37-10/1-H-143/5TC	\$1,931.57	KHN37-10/1-H-143/5TC	\$1,984.69
	15	15.32	114	3.14	1568	575	56C	3	32	KAN37-15/1-H-56C	\$1,931.57	KHN37-15/1-H-56C	\$1,984.69
	15	15.32	114	3.14	1568	560	143/5TC	3	37	KAN37-15/1-H-143/5TC	\$1,931.57	KHN37-15/1-H-143/5TC	\$1,984.69
	25	23.1	76	2.2	1659	635	56C	3	32	KAN37-25/1-H-56C	\$1,931.57	KHN37-25/1-H-56C	\$1,984.69
	25	23.1	76	2.2	1659	610	143/5TC	3	37	KAN37-25/1-H-143/5TC	\$1,931.57	KHN37-25/1-H-143/5TC	\$1,984.69
	30	32.19	54	1.66	1747	705	56C	3	32	KAN37-30/1-H-56C	\$1,931.57	KHN37-30/1-H-56C	\$1,984.69
	30	32.19	54	1.66	1747	680	143TC	3	37	KAN37-30/1-H-143TC	\$1,931.57	KHN37-30/1-H-143TC	\$1,984.69
	40	37.97	46	1.43	1770	735	56C	3	32	KAN37-40/1-H-56C	\$1,931.57	KHN37-40/1-H-56C	\$1,984.69
	40	37.97	46	1.43	1770	705	143TC	3	37	KAN37-40/1-H-143TC	\$1,931.57	KHN37-40/1-H-143TC	\$1,984.69
	50	49.51	35	1.1	1770	785	56C	3	32	KAN37-50/1-H-56C	\$1,931.57	KHN37-50/1-H-56C	\$1,984.69
	60	59.67	29	0.91	1770	815	56C	3	32	KAN37-60/1-H-56C	\$1,931.57	KHN37-60/1-H-56C	\$1,984.69
47	5	5.85	299	9.2	1757	505	145TC	3	51	KAN47-5/1-H-145TC	\$2,097.19	KHN47-5/1-H-145TC	\$2,171.83
	5	5.85	299	9.2	1757	485	182/4TC	3	57	KAN47-5/1-H-182/4TC	\$2,097.19	KHN47-5/1-H-182/4TC	\$2,171.83
	7.5	7.11	246	8.08	1875	530	145TC	3	51	KAN47-7.5/1-H-145TC	\$2,097.19	KHN47-7.5/1-H-145TC	\$2,171.83
	7.5	7.11	246	8.08	1875	510	182/4TC	3	57	KAN47-7.5/1-H-182/4TC	\$2,097.19	KHN47-7.5/1-H-182/4TC	\$2,171.83
	10	9.95	176	6.46	2097	620	56C	3	46	KAN47-10/1-H-56C	\$2,097.19	KHN47-10/1-H-56C	\$2,171.83
	10	9.95	176	6.46	2097	615	143/5TC	3	51	KAN47-10/1-H-143/5TC	\$2,097.19	KHN47-10/1-H-143/5TC	\$2,171.83
	10	9.95	176	6.46	2097	550	182/4TC	3	57	KAN47-10/1-H-182/4TC	\$2,097.19	KHN47-10/1-H-182/4TC	\$2,171.83
	15	16.99	103	4.52	2507	660	145TC	3	51	KAN47-15/1-H-145TC	\$2,097.19	KHN47-15/1-H-145TC	\$2,171.83
	15	16.99	103	4.52	2507	600	182TC	3	57	KAN47-15/1-H-182TC	\$2,097.19	KHN47-15/1-H-182TC	\$2,171.83
	20	20.65	85	3.97	2675	690	143/5TC	3	51	KAN47-20/1-H-143/5TC	\$2,097.19	KHN47-20/1-H-143/5TC	\$2,171.83
	20	20.65	85	3.97	2675	610	182TC	3	57	KAN47-20/1-H-182TC	\$2,097.19	KHN47-20/1-H-182TC	\$2,171.83
	30	28.88	61	3.17	2991	855	56C	3	46	KAN47-30/1-H-56C	\$2,097.19	KHN47-30/1-H-56C	\$2,171.83
	30	28.88	61	3.17	2991	830	143/5TC	3	51	KAN47-30/1-H-143/5TC	\$2,097.19	KHN47-30/1-H-143/5TC	\$2,171.83
	40	41.36	42	2.5	3372	945	56C	3	46	KAN47-40/1-H-56C	\$2,097.19	KHN47-40/1-H-56C	\$2,171.83
	40	41.36	42	2.5	3372	905	143/5TC	3	51	KAN47-40/1-H-143/5TC	\$2,097.19	KHN47-40/1-H-143/5TC	\$2,171.83
	50	47.08	37	2.21	3400	975	56C	3	46	KAN47-50/1-H-56C	\$2,097.19	KHN47-50/1-H-56C	\$2,171.83
	50	47.08	37	2.21	3400	935	143TC	3	51	KAN47-50/1-H-143TC	\$2,097.19	KHN47-50/1-H-143TC	\$2,171.83
	60	58.99	30	1.84	3540	1030	56C	3	46	KAN47-60/1-H-56C	\$2,097.19	KHN47-60/1-H-56C	\$2,171.83
	60	58.99	30	1.84	3540	980	143TC	3	51	KAN47-60/1-H-143TC	\$2,097.19	KHN47-60/1-H-143TC	\$2,171.83
	70	71.78	24	1.51	3540	1070	56C	3	46	KAN47-70/1-H-56C	\$2,097.19	KHN47-70/1-H-56C	\$2,171.83
	70	71.78	24	1.51	3540	1000	143TC	3	51	KAN47-70/1-H-143TC	\$2,097.19	KHN47-70/1-H-143TC	\$2,171.83
	85	86.89	20	1.42	3540	1110	56C	3	46	KAN47-85/1-H-56C	\$2,097.19	KHN47-85/1-H-56C	\$2,171.83
67	10	9.66	181	12.06	3800	1500	145TC	3	73	KAN67-10/1-H-145TC	\$2,561.13	KHN67-10/1-H-145TC	\$2,716.02
	10	9.66	181	12.06	3800	1410	182/4TC	3	80	KAN67-10/1-H-182/4TC	\$2,561.13	KHN67-10/1-H-182/4TC	\$2,716.02
	15	14.16	124	9.23	4265	1770	56C	3	69	KAN67-15/1-H-56C	\$2,561.13	KHN67-15/1-H-56C	\$2,716.02
	15	14.16	124	9.23	4265	1740	143/5TC	3	73	KAN67-15/1-H-143/5TC	\$2,561.13	KHN67-15/1-H-143/5TC	\$2,716.02
	15	14.16	124	9.23	4265	1500	182/4TC	3	80	KAN67-15/1-H-182/4TC	\$2,561.13	KHN67-15/1-H-182/4TC	\$2,716.02
	20	22.18	79	6.26	4530	1760	145TC	3	73	KAN67-20/1-H-145TC	\$2,561.13	KHN67-20/1-H-145TC	\$2,716.02
	20	22.18	79	6.26	4530	1570	182/4TC	3	80	KAN67-20/1-H-182/4TC	\$2,561.13	KHN67-20/1-H-182/4TC	\$2,716.02
	30	30.9	57	5.34	5390	1820	145TC	3	73	KAN67-30/1-H-145TC	\$2,561.13	KHN67-30/1-H-145TC	\$2,716.02
	30	30.9	57	5.34	5390	1550	182/4TC	3	80	KAN67-30/1-H-182/4TC	\$2,561.13	KHN67-30/1-H-182/4TC	\$2,716.02
	40	37.98	46	4.62	5730	2140	56C	3	69	KAN67-40/1-H-56C	\$2,561.13	KHN67-40/1-H-56C	\$2,716.02
	40	37.98	46	4.62	5730	1850	143/5TC	3	73	KAN67-40/1-H-143/5TC	\$2,561.13	KHN67-40/1-H-143/5TC	\$2,716.02
	40	37.98	46	4.62	5730	1510	182TC	3	80	KAN67-40/1-H-182TC	\$2,561.13	KHN67-40/1-H-182TC	\$2,716.02
	45	46.33	38	4.02	6080	2140	56C	3	69	KAN67-45/1-H-56C	\$2,561.13	KHN67-45/1-H-56C	\$2,716.02
	45	46.33	38	4.02	6080	2140	143/5TC	3	73	KAN67-45/1-H-143/5TC	\$2,561.13	KHN67-45/1-H-143/5TC	\$2,716.02
	45	46.33	38	4.02	6080	1450	182TC	3	80	KAN67-45/1-H-182TC	\$2,561.13	KHN67-45/1-H-182TC	\$2,716.02
	65	64.97	27	2.95	6260	2140	56C	3	69	KAN67-65/1-H-56C	\$2,561.13	KHN67-65/1-H-56C	\$2,716.02
	65	64.97	27	2.95	6260	2140	143/5TC	3	73	KAN67-65/1-H-143/5TC	\$2,561.13	KHN67-65/1-H-143/5TC	\$2,716.02
	85	84.1	21	2.46	6760	2140	56C	3	69	KAN67-85/1-H-56C	\$2,561.13	KHN67-85/1-H-56C	\$2,716.02
	85	84.1	21	2.46	6760	2140	143/5TC	3	73	KAN67-85/1-H-143/5TC	\$2,561.13	KHN67-85/1-H-143/5TC	\$2,716.02

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Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KAN & KHN Series - Helical Bevel Reducers: Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Max Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	KAN Model Number	KAN List Price	KHN Model Number	KHN List Price
67	110	108.03	16	2.06	7260	2140	56C	3	69	KAN67-110/1-H-56C	\$2,561.13	KHN67-110/1-H-56C	\$2,716.02
	110	108.03	16	2.06	7260	2140	143TC	3	73	KAN67-110/1-H-143TC	\$2,561.13	KHN67-110/1-H-143TC	\$2,716.02
	120	118.14	15	1.88	7260	2140	56C	3	69	KAN67-120/1-H-56C	\$2,561.13	KHN67-120/1-H-56C	\$2,716.02
	120	118.14	15	1.88	7260	2140	143TC	3	73	KAN67-120/1-H-143TC	\$2,561.13	KHN67-120/1-H-143TC	\$2,716.02
77	7.5	8.40	208	27.05	7415	1810	184TC	3	132	KAN77-7.5/1-H-184TC	\$3,942.41	KHN77-7.5/1-H-184TC	\$4,128.19
	7.5	8.40	208	27.05	7415	1660	213/5TC	3	148	KAN77-7.5/1-H-213/5TC	\$3,942.41	KHN77-7.5/1-H-213/5TC	\$4,128.19
	10	9.96	176	24.02	7800	1860	184TC	3	132	KAN77-10/1-H-184TC	\$3,942.41	KHN77-10/1-H-184TC	\$4,128.19
	10	9.96	176	24.02	7800	1690	213/5TC	3	148	KAN77-10/1-H-213/5TC	\$3,942.41	KHN77-10/1-H-213/5TC	\$4,128.19
	15	15.73	111	17.64	9050	2030	184TC	3	132	KAN77-15/1-H-184TC	\$3,942.41	KHN77-15/1-H-184TC	\$4,128.19
	15	15.73	111	17.64	9050	1760	213/5TC	3	148	KAN77-15/1-H-213/5TC	\$3,942.41	KHN77-15/1-H-213/5TC	\$4,128.19
	20	20.24	86	14.78	9765	2080	184TC	3	132	KAN77-20/1-H-184TC	\$3,942.41	KHN77-20/1-H-184TC	\$4,128.19
	20	20.24	86	14.78	9765	1740	213/5TC	3	148	KAN77-20/1-H-213/5TC	\$3,942.41	KHN77-20/1-H-213/5TC	\$4,128.19
	30	30.48	57	10.97	10915	2020	184TC	3	132	KAN77-30/1-H-184TC	\$3,942.41	KHN77-30/1-H-184TC	\$4,128.19
	30	30.48	57	10.97	10915	1470	213/5TC	3	148	KAN77-30/1-H-213/5TC	\$3,942.41	KHN77-30/1-H-213/5TC	\$4,128.19
	40	39.76	44	9.21	11955	2050	184TC	3	132	KAN77-40/1-H-184TC	\$3,942.41	KHN77-40/1-H-184TC	\$4,128.19
	40	39.76	44	9.21	11955	1390	213TC	3	148	KAN77-40/1-H-213TC	\$3,942.41	KHN77-40/1-H-213TC	\$4,128.19
	50	51.18	34	7.72	12900	1940	184TC	3	132	KAN77-50/1-H-184TC	\$3,942.41	KHN77-50/1-H-184TC	\$4,128.19
	60	57.05	31	7.16	13325	2620	182/4TC	3	132	KAN77-60/1-H-182/4TC	\$3,942.41	KHN77-60/1-H-182/4TC	\$4,128.19
	65	64.06	27	6.56	13710	2610	182/4TC	3	132	KAN77-65/1-H-182/4TC	\$3,942.41	KHN77-65/1-H-182/4TC	\$4,128.19
	80	78.07	22	5.38	13710	3080	145TC	3	128	KAN77-80/1-H-145TC	\$3,942.41	KHN77-80/1-H-145TC	\$4,128.19
	80	78.07	22	5.38	13710	2570	182TC	3	132	KAN77-80/1-H-182TC	\$3,942.41	KHN77-80/1-H-182TC	\$4,128.19
	100	100.66	17	4.18	13710	3090	145TC	3	128	KAN77-100/1-H-145TC	\$3,942.41	KHN77-100/1-H-145TC	\$4,128.19
	100	100.66	17	4.18	13710	2450	182TC	3	132	KAN77-100/1-H-182TC	\$3,942.41	KHN77-100/1-H-182TC	\$4,128.19
	120	122.94	14	3.42	12240	3090	143TC	3	128	KAN77-120/1-H-143TC	\$3,942.41	KHN77-120/1-H-143TC	\$4,128.19
87	7.5	8.27	212	49.53	13365	2400	213/5TC	3	230	KAN87-7.5/1-H-213/5TC	\$6,181.12	KHN87-7.5/1-H-213/5TC	\$6,431.41
	7.5	8.27	212	49.53	13365	2070	254/6TC	3	257	KAN87-7.5/1-H-254/6TC	\$6,181.12	KHN87-7.5/1-H-254/6TC	\$6,431.41
	10	10.53	166	41.81	14370	2660	184TC	3	208	KAN87-10/1-H-184TC	\$6,181.12	KHN87-10/1-H-184TC	\$6,431.41
	10	10.53	166	41.81	14370	2520	213/5TC	3	230	KAN87-10/1-H-213/5TC	\$6,181.12	KHN87-10/1-H-213/5TC	\$6,431.41
	10	10.53	166	41.81	14370	2100	254/6TC	3	257	KAN87-10/1-H-254/6TC	\$6,181.12	KHN87-10/1-H-254/6TC	\$6,431.41
	15	15.66	112	31.67	16185	2690	213/5TC	3	230	KAN87-15/1-H-213/5TC	\$6,181.12	KHN87-15/1-H-213/5TC	\$6,431.41
	15	15.66	112	31.67	16185	2060	254/6TC	3	257	KAN87-15/1-H-254/6TC	\$6,181.12	KHN87-15/1-H-254/6TC	\$6,431.41
	20	20.90	84	25.88	17650	2780	213/5TC	3	230	KAN87-20/1-H-213/5TC	\$6,181.12	KHN87-20/1-H-213/5TC	\$6,431.41
	20	20.90	84	25.88	17650	1940	254/6TC	3	257	KAN87-20/1-H-254/6TC	\$6,181.12	KHN87-20/1-H-254/6TC	\$6,431.41
	30	28.30	62	20.93	19330	3200	184TC	3	208	KAN87-30/1-H-184TC	\$6,181.12	KHN87-30/1-H-184TC	\$6,431.41
	30	28.30	62	20.93	19330	2820	213/5TC	3	230	KAN87-30/1-H-213/5TC	\$6,181.12	KHN87-30/1-H-213/5TC	\$6,431.41
	30	28.30	62	20.93	19330	1700	254/6TC	3	257	KAN87-30/1-H-254/6TC	\$6,181.12	KHN87-30/1-H-254/6TC	\$6,431.41
	40	43.31	40	14.76	20870	3450	184TC	3	208	KAN87-40/1-H-184TC	\$6,181.12	KHN87-40/1-H-184TC	\$6,431.41
	40	43.31	40	14.76	20870	2930	213/5TC	3	230	KAN87-40/1-H-213/5TC	\$6,181.12	KHN87-40/1-H-213/5TC	\$6,431.41
	50	50.45	35	13.04	21470	3490	184TC	3	208	KAN87-50/1-H-184TC	\$6,181.12	KHN87-50/1-H-184TC	\$6,431.41
	50	50.45	35	13.04	21470	2890	213/5TC	3	230	KAN87-50/1-H-213/5TC	\$6,181.12	KHN87-50/1-H-213/5TC	\$6,431.41
	60	61.42	28	11.11	22270	3510	184TC	3	208	KAN87-60/1-H-184TC	\$6,181.12	KHN87-60/1-H-184TC	\$6,431.41
	60	61.42	28	11.11	22270	2780	213/5TC	3	230	KAN87-60/1-H-213/5TC	\$6,181.12	KHN87-60/1-H-213/5TC	\$6,431.41
	70	72.35	24	9.73	22970	3500	184TC	3	208	KAN87-70/1-H-184TC	\$6,181.12	KHN87-70/1-H-184TC	\$6,431.41
	70	72.35	24	9.73	22970	2640	213TC	3	230	KAN87-70/1-H-213TC	\$6,181.12	KHN87-70/1-H-213TC	\$6,431.41
97	80	82.86	21	8.72	23570	4260	182/4TC	3	208	KAN87-80/1-H-182/4TC	\$6,181.12	KHN87-80/1-H-182/4TC	\$6,431.41
	110	108.00	16	6.78	23900	4350	182TC	3	208	KAN87-110-H-182TC	\$6,181.12	KHN87-110-H-182TC	\$6,431.41
	120	117.56	15	6.23	23900	4370	182TC	3	208	KAN87-120-H-182TC	\$6,181.12	KHN87-120-H-182TC	\$6,431.41
	7.5	8.31	211	81.48	22095	5190	254/6TC	3	393	KAN97-7.5/1-H-254/6TC	\$9,300.75	KHN97-7.5/1-H-254/6TC	\$9,613.17
	7.5	8.31	211	81.48	22095	4820	284/6TC	3	402	KAN97-7.5/1-H-284/6TC	\$9,300.75	KHN97-7.5/1-H-284/6TC	\$9,613.17
	10	10.16	172	70.80	23465	5770	213/5TC	3	362	KAN97-10/1-H-213/5TC	\$9,300.75	KHN97-10/1-H-213/5TC	\$9,613.17
	10	10.16	172	70.80	23465	5420	254/6TC	3	393	KAN97-10/1-H-254/6TC	\$9,300.75	KHN97-10/1-H-254/6TC	\$9,613.17
	10	10.16	172	70.80	23465	4970	284/6TC	3	402	KAN97-10/1-H-284/6TC	\$9,300.75	KHN97-10/1-H-284/6TC	\$9,613.17
	15	14.11	124	64.78	29820	6320	213/5TC	3	362	KAN97-15/1-H-213/5TC	\$9,300.75	KHN97-15/1-H-213/5TC	\$9,613.17
	15	14.11	124	64.78	29820	5900	254/6TC	3	393	KAN97-15/1-H-254/6TC	\$9,300.75	KHN97-15/1-H-254/6TC	\$9,613.17
	15	14.11	124	64.78	29820	5350	284/6TC	3	402	KAN97-15/1-H-284/6TC	\$9,300.75	KHN97-15/1-H-284/6TC	\$9,613.17
	20	21.33	82	48.50	33760	7000	213/5TC	3	362	KAN97-20/1-H-213/5TC	\$9,300.75	KHN97-20/1-H-213/5TC	\$9,613.17
	20	21.33	82	48.50	33760	6360	254/6TC	3	393	KAN97-20/1-H-254/6TC	\$9,300.75	KHN97-20/1-H-254/6TC	\$9,613.17
	20	21.33	82	48.50	33760	5520	284/6TC	3	402	KAN97-20/1-H-284/6TC	\$9,300.75	KHN97-20/1-H-284/6TC	\$9,613.17
	30	31.19	56	28.65	29165	6450	254/6TC	3	393	KAN97-30/1-H-254/6TC	\$9,300.75	KHN97-30/1-H-254/6TC	\$9,613.17
	30	31.19	56	28.65	29165	5060	284/6TC	3	402	KAN97-30/1-H-284/6TC	\$9,300.75	KHN97-30/1-H-284/6TC	\$9,613.17
	40	38.12	46	23.33	29030	7800	213/5TC	3	362	KAN97-40/1-H-213/5TC	\$9,300.75	KHN97-40/1-H-213/5TC	\$9,613.17
	40	38.12	46	23.33	29030	6520	254/6TC	3	393	KAN97-40/1-H-254/6TC	\$9,300.75	KHN97-40/1-H-254/6TC	\$9,613.17
	50	47.16	37	18.78	28910	8100	213/5TC	3	362	KAN97-50/1-H-213/5TC	\$9,300.75	KHN97-50/1-H-213/5TC	\$9,613.17
	50	47.16	37	18.78	28910	6510	254/6TC	3	393	KAN97-50/1-H-254/6TC	\$9,300.75	KHN97-50/1-H-254/6TC	\$9,613.17
97	65	64.72	27	18.02	38060	8550	213/5TC	3	362	KAN97-65/1-H-213/5TC	\$9,300.75	KHN97-65/1-H-213/5TC	\$9,613.17
	65	64.72	27	18.02	38060	6810	254TC	3	393	KAN97-65/1-H-254TC	\$9,300.75	KHN97-65/1-H-254TC	\$9,613.17
	70	71.78	24	16.24	38060	8550	213/5TC	3	362	KAN97-70/1-H-213/5TC	\$9,300.75	KHN97-70/1-H-213/5TC	\$9,613.17
	80	80.07	22	14.56	38060	8550	213/5TC	3	362	KAN97-80/1-H-213/5TC	\$9,300.75	KHN97-80/1-H-213/5TC	\$9,613.17
	100	101.37	17	11.50	38060	8550	213/5TC	3	362	KAN97-100/1-H-213/5TC	\$9,300.75	KHN97-100/1-H-213/5TC	\$9,613.17
	120	119.87	15	9.73	38060	8550	213TC	3	362	KAN97-120/1-H-213TC	\$9,300.75	KHN97-120/1-H-213TC	\$9,613.17

3
KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

KAN & KHN Series with Power Lock

Product Overview

Product Specifications

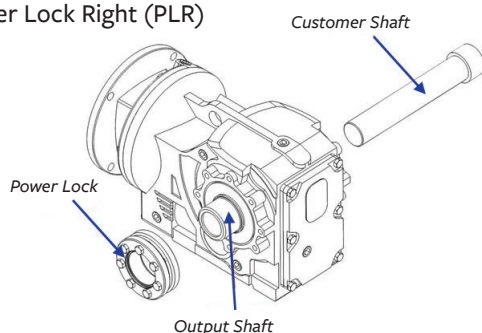
- » KAN and KHN Series Helical-Bevel Speed Reducers are available with power lock bushings for a more secure connection.
- » The power lock assembly achieves a non-positive connection between the driven shaft and the hollow shaft in the gear unit.
- » Available on units with frame sizes 87 or 97
- » The power lock configuration is not field convertible from left to right or vice versa. The proper configuration must be selected at the time the unit is purchased.
- » Power Lock Right (PLR): When facing the input, the power lock is on the right, and the customer shaft is on the left. *See illustration below.*
- » Power Lock Left (PLL): When facing the input, the power lock is on the left, and the customer shaft is on the right. *See illustration below.*
- » All product features (aside from power lock bushing) and mechanical ratings are consistent with the standard design KAN and KHN Helical Bevel Gear Reducers.



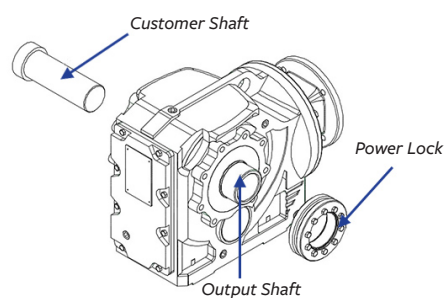
KAN Series
with Power Lock

KHN Series
with Power Lock

Power Lock Right (PLR)



Power Lock Left (PLL)



Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Max Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	KAN Model Number	KAN List Price	KHN Model Number	KHN List Price
87	7.5	8.27	212	49.53	13365	2400	213/5TC	3	230	KAN87-7.5/1-H-213/5TC-PLL	\$7,028.06	KHN87-7.5/1-H-213/5TC-PLL	\$7,028.06
	7.5	8.27	212	49.53	13365	2400	213/5TC	3	230	KAN87-7.5/1-H-213/5TC-PLR	\$7,028.06	KHN87-7.5/1-H-213/5TC-PLR	\$7,028.06
	7.5	8.27	212	49.53	13365	2070	254/6TC	3	257	KAN87-7.5/1-H-254/6TC-PLL	\$7,028.06	KHN87-7.5/1-H-254/6TC-PLL	\$7,028.06
	7.5	8.27	212	49.53	13365	2070	254/6TC	3	257	KAN87-7.5/1-H-254/6TC-PLR	\$7,028.06	KHN87-7.5/1-H-254/6TC-PLR	\$7,028.06
	10	10.53	166	41.81	14370	2660	184TC	3	208	KAN87-10/1-H-184TC-PLR	\$7,028.06	KHN87-10/1-H-184TC-PLR	\$7,028.06
	10	10.53	166	41.81	14370	2660	184TC	3	208	KAN87-10/1-H-184TC-PLL	\$7,028.06	KHN87-10/1-H-184TC-PLL	\$7,028.06
	10	10.53	166	41.81	14370	2520	213/5TC	3	230	KAN87-10/1-H-213/5TC-PLL	\$7,028.06	KHN87-10/1-H-213/5TC-PLL	\$7,028.06
	10	10.53	166	41.81	14370	2520	213/5TC	3	230	KAN87-10/1-H-213/5TC-PLR	\$7,028.06	KHN87-10/1-H-213/5TC-PLR	\$7,028.06
	10	10.53	166	41.81	14370	2100	254/6TC	3	257	KAN87-10/1-H-254/6TC-PLL	\$7,028.06	KHN87-10/1-H-254/6TC-PLL	\$7,028.06
	10	10.53	166	41.81	14370	2100	254/6TC	3	257	KAN87-10/1-H-254/6TC-PLR	\$7,028.06	KHN87-10/1-H-254/6TC-PLR	\$7,028.06
	15	15.66	112	31.67	16185	2690	213/5TC	3	230	KAN87-15/1-H-213/5TC-PLL	\$7,028.06	KHN87-15/1-H-213/5TC-PLL	\$7,028.06
	15	15.66	112	31.67	16185	2690	213/5TC	3	230	KAN87-15/1-H-213/5TC-PLR	\$7,028.06	KHN87-15/1-H-213/5TC-PLR	\$7,028.06
	15	15.66	112	31.67	16185	2060	254/6TC	3	257	KAN87-15/1-H-254/6TC-PLL	\$7,028.06	KHN87-15/1-H-254/6TC-PLL	\$7,028.06
	15	15.66	112	31.67	16185	2060	254/6TC	3	257	KAN87-15/1-H-254/6TC-PLR	\$7,028.06	KHN87-15/1-H-254/6TC-PLR	\$7,028.06
	20	20.90	84	25.88	17650	2780	213/5TC	3	230	KAN87-20/1-H-213/5TC-PLL	\$7,028.06	KHN87-20/1-H-213/5TC-PLL	\$7,028.06
	20	20.90	84	25.88	17650	2780	213/5TC	3	230	KAN87-20/1-H-213/5TC-PLR	\$7,028.06	KHN87-20/1-H-213/5TC-PLR	\$7,028.06
	20	20.90	84	25.88	17650	1940	254/6TC	3	257	KAN87-20/1-H-254/6TC-PLL	\$7,028.06	KHN87-20/1-H-254/6TC-PLL	\$7,028.06
	20	20.90	84	25.88	17650	1940	254/6TC	3	257	KAN87-20/1-H-254/6TC-PLR	\$7,028.06	KHN87-20/1-H-254/6TC-PLR	\$7,028.06
	30	28.30	62	20.93	19330	3200	184TC	3	208	KAN87-30/1-H-184TC-PLL	\$7,028.06	KHN87-30/1-H-184TC-PLL	\$7,028.06
	30	28.30	62	20.93	19330	3200	184TC	3	208	KAN87-30/1-H-184TC-PLR	\$7,028.06	KHN87-30/1-H-184TC-PLR	\$7,028.06
	30	28.30	62	20.93	19330	2820	213/5TC	3	230	KAN87-30/1-H-213/5TC-PLL	\$7,028.06	KHN87-30/1-H-213/5TC-PLL	\$7,028.06
	30	28.30	62	20.93	19330	2820	213/5TC	3	230	KAN87-30/1-H-213/5TC-PLR	\$7,028.06	KHN87-30/1-H-213/5TC-PLR	\$7,028.06
	30	28.30	62	20.93	19330	1700	254/6TC	3	257	KAN87-30/1-H-254/6TC-PLL	\$7,028.06	KHN87-30/1-H-254/6TC-PLL	\$7,028.06
	30	28.30	62	20.93	19330	1700	254/6TC	3	257	KAN87-30/1-H-254/6TC-PLR	\$7,028.06	KHN87-30/1-H-254/6TC-PLR	\$7,028.06
	40	43.31	40	14.76	20870	3450	184TC	3	208	KAN87-40/1-H-184TC-PLL	\$7,028.06	KHN87-40/1-H-184TC-PLL	\$7,028.06
	40	43.31	40	14.76	20870	3450	184TC	3	208	KAN87-40/1-H-184TC-PLR	\$7,028.06	KHN87-40/1-H-184TC-PLR	\$7,028.06
	40	43.31	40	14.76	20870	2930	213/5TC	3	230	KAN87-40/1-H-213/5TC-PLL	\$7,028.06	KHN87-40/1-H-213/5TC-PLL	\$7,028.06
	40	43.31	40	14.76	20870	2930	213/5TC	3	230	KAN87-40/1-H-213/5TC-PLR	\$7,028.06	KHN87-40/1-H-213/5TC-PLR	\$7,028.06
	50	50.45	35	13.04	21470	3490	184TC	3	208	KAN87-50/1-H-184TC-PLL	\$7,028.06	KHN87-50/1-H-184TC-PLL	\$7,028.06
	50	50.45	35	13.04	21470	3490	184TC	3	208	KAN87-50/1-H-184TC-PLR	\$7,028.06	KHN87-50/1-H-184TC-PLR	\$7,028.06
	50	50.45	35	13.04	21470	2890	213/5TC	3	230	KAN87-50/1-H-213/5TC-PLL	\$7,028.06	KHN87-50/1-H-213/5TC-PLL	\$7,028.06
	50	50.45	35	13.04	21470	2890	213/5TC	3	230	KAN87-50/1-H-213/5TC-PLR	\$7,028.06	KHN87-50/1-H-213/5TC-PLR	\$7,028.06

Continued On Next Page

Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KAN & KHN Series with Power Lock Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Max Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	KAN Model Number	KAN List Price	KHN Model Number	KHN List Price
87	60	61.42	28	11.11	22270	3510	184TC	3	208	KAN87-60/1-H-184TC-PLL	\$7,028.06	KHN87-60/1-H-184TC-PLL	\$7,028.06
	60	61.42	28	11.11	22270	3510	184TC	3	208	KAN87-60/1-H-184TC-PLR	\$7,028.06	KHN87-60/1-H-184TC-PLR	\$7,028.06
	60	61.42	28	11.11	22270	2780	213/5TC	3	230	KAN87-60/1-H-213/5TC-PLL	\$7,028.06	KHN87-60/1-H-213/5TC-PLL	\$7,028.06
	60	61.42	28	11.11	22270	2780	213/5TC	3	230	KAN87-60/1-H-213/5TC-PLR	\$7,028.06	KHN87-60/1-H-213/5TC-PLR	\$7,028.06
	70	72.35	24	9.73	22970	3500	184TC	3	208	KAN87-70/1-H-184TC-PLL	\$7,028.06	KHN87-70/1-H-184TC-PLL	\$7,028.06
	70	72.35	24	9.73	22970	3500	184TC	3	208	KAN87-70/1-H-184TC-PLR	\$7,028.06	KHN87-70/1-H-184TC-PLR	\$7,028.06
	70	72.35	24	9.73	22970	2640	213TC	3	230	KAN87-70/1-H-213TC-PLL	\$7,028.06	KHN87-70/1-H-213TC-PLL	\$7,028.06
	70	72.35	24	9.73	22970	2640	213TC	3	230	KAN87-70/1-H-213TC-PLR	\$7,028.06	KHN87-70/1-H-213TC-PLR	\$7,028.06
	80	82.86	21	8.72	23570	4260	182/4TC	3	208	KAN87-80/1-H-182/4TC-PLL	\$7,028.06	KHN87-80/1-H-182/4TC-PLL	\$7,028.06
	80	82.86	21	8.72	23570	4260	182/4TC	3	208	KAN87-80/1-H-182/4TC-PLR	\$7,028.06	KHN87-80/1-H-182/4TC-PLR	\$7,028.06
	110	108.00	16	6.78	23900	4350	182TC	3	208	KAN87-110-H-182TC-PLL	\$7,028.06	KHN87-110-H-182TC-PLL	\$7,028.06
	110	108.00	16	6.78	23900	4350	182TC	3	208	KAN87-110-H-182TC-PLR	\$7,028.06	KHN87-110-H-182TC-PLR	\$7,028.06
97	120	117.56	15	6.23	23900	4370	182TC	3	208	KAN87-120-H-182TC-PLL	\$7,028.06	KHN87-120-H-182TC-PLL	\$7,028.06
	120	117.56	15	6.23	23900	4370	182TC	3	208	KAN87-120-H-182TC-PLR	\$7,028.06	KHN87-120-H-182TC-PLR	\$7,028.06
	7.5	8.31	211	81.48	22095	5190	254/6TC	3	393	KAN97-7.5/1-H-254/6TC-PLL	\$10,333.75	KHN97-7.5/1-H-254/6TC-PLL	\$10,333.75
	7.5	8.31	211	81.48	22095	5190	254/6TC	3	393	KAN97-7.5/1-H-254/6TC-PLR	\$10,333.75	KHN97-7.5/1-H-254/6TC-PLR	\$10,333.75
	7.5	8.31	211	81.48	22095	4820	284/6TC	3	402	KAN97-7.5/1-H-284/6TC-PLL	\$10,333.75	KHN97-7.5/1-H-284/6TC-PLL	\$10,333.75
	7.5	8.31	211	81.48	22095	4820	284/6TC	3	402	KAN97-7.5/1-H-284/6TC-PLR	\$10,333.75	KHN97-7.5/1-H-284/6TC-PLR	\$10,333.75
	10	10.16	172	70.80	23465	5770	213/5TC	3	362	KAN97-10/1-H-213/5TC-PLL	\$10,333.75	KHN97-10/1-H-213/5TC-PLL	\$10,333.75
	10	10.16	172	70.80	23465	5770	213/5TC	3	362	KAN97-10/1-H-213/5TC-PLR	\$10,333.75	KHN97-10/1-H-213/5TC-PLR	\$10,333.75
	10	10.16	172	70.80	23465	5420	254/6TC	3	393	KAN97-10/1-H-254/6TC-PLL	\$10,333.75	KHN97-10/1-H-254/6TC-PLL	\$10,333.75
	10	10.16	172	70.80	23465	5420	254/6TC	3	393	KAN97-10/1-H-254/6TC-PLR	\$10,333.75	KHN97-10/1-H-254/6TC-PLR	\$10,333.75
	10	10.16	172	70.80	23465	4970	284/6TC	3	402	KAN97-10/1-H-284/6TC-PLL	\$10,333.75	KHN97-10/1-H-284/6TC-PLL	\$10,333.75
	10	10.16	172	70.80	23465	4970	284/6TC	3	402	KAN97-10/1-H-284/6TC-PLR	\$10,333.75	KHN97-10/1-H-284/6TC-PLR	\$10,333.75
	15	14.11	124	64.78	29820	6320	213/5TC	3	362	KAN97-15/1-H-213/5TC-PLL	\$10,333.75	KHN97-15/1-H-213/5TC-PLL	\$10,333.75
	15	14.11	124	64.78	29820	6320	213/5TC	3	362	KAN97-15/1-H-213/5TC-PLR	\$10,333.75	KHN97-15/1-H-213/5TC-PLR	\$10,333.75
	15	14.11	124	64.78	29820	5900	254/6TC	3	393	KAN97-15/1-H-254/6TC-PLL	\$10,333.75	KHN97-15/1-H-254/6TC-PLL	\$10,333.75
	15	14.11	124	64.78	29820	5900	254/6TC	3	393	KAN97-15/1-H-254/6TC-PLR	\$10,333.75	KHN97-15/1-H-254/6TC-PLR	\$10,333.75
	15	14.11	124	64.78	29820	5350	284/6TC	3	402	KAN97-15/1-H-284/6TC-PLL	\$10,333.75	KHN97-15/1-H-284/6TC-PLL	\$10,333.75
	15	14.11	124	64.78	29820	5350	284/6TC	3	402	KAN97-15/1-H-284/6TC-PLR	\$10,333.75	KHN97-15/1-H-284/6TC-PLR	\$10,333.75
	20	21.33	82	48.50	33760	7000	213/5TC	3	362	KAN97-20/1-H-213/5TC-PLL	\$10,333.75	KHN97-20/1-H-213/5TC-PLL	\$10,333.75
	20	21.33	82	48.50	33760	7000	213/5TC	3	362	KAN97-20/1-H-213/5TC-PLR	\$10,333.75	KHN97-20/1-H-213/5TC-PLR	\$10,333.75
	20	21.33	82	48.50	33760	6360	254/6TC	3	393	KAN97-20/1-H-254/6TC-PLL	\$10,333.75	KHN97-20/1-H-254/6TC-PLL	\$10,333.75
	20	21.33	82	48.50	33760	6360	254/6TC	3	393	KAN97-20/1-H-254/6TC-PLR	\$10,333.75	KHN97-20/1-H-254/6TC-PLR	\$10,333.75
	20	21.33	82	48.50	33760	5520	284/6TC	3	402	KAN97-20/1-H-284/6TC-PLL	\$10,333.75	KHN97-20/1-H-284/6TC-PLL	\$10,333.75
	20	21.33	82	48.50	33760	5520	284/6TC	3	402	KAN97-20/1-H-284/6TC-PLR	\$10,333.75	KHN97-20/1-H-284/6TC-PLR	\$10,333.75
	30	31.19	56	28.65	29165	6450	254/6TC	3	393	KAN97-30/1-H-254/6TC-PLL	\$10,333.75	KHN97-30/1-H-254/6TC-PLL	\$10,333.75
	30	31.19	56	28.65	29165	6450	254/6TC	3	393	KAN97-30/1-H-254/6TC-PLR	\$10,333.75	KHN97-30/1-H-254/6TC-PLR	\$10,333.75
	30	31.19	56	28.65	29165	5060	284/6TC	3	402	KAN97-30/1-H-284/6TC-PLL	\$10,333.75	KHN97-30/1-H-284/6TC-PLL	\$10,333.75
	30	31.19	56	28.65	29165	5060	284/6TC	3	402	KAN97-30/1-H-284/6TC-PLR	\$10,333.75	KHN97-30/1-H-284/6TC-PLR	\$10,333.75
	40	38.12	46	23.33	29030	7800	213/5TC	3	362	KAN97-40/1-H-213/5TC-PLL	\$10,333.75	KHN97-40/1-H-213/5TC-PLL	\$10,333.75
	40	38.12	46	23.33	29030	7800	213/5TC	3	362	KAN97-40/1-H-213/5TC-PLR	\$10,333.75	KHN97-40/1-H-213/5TC-PLR	\$10,333.75
	40	38.12	46	23.33	29030	6520	254/6TC	3	393	KAN97-40/1-H-254/6TC-PLL	\$10,333.75	KHN97-40/1-H-254/6TC-PLL	\$10,333.75
	40	38.12	46	23.33	29030	6520	254/6TC	3	393	KAN97-40/1-H-254/6TC-PLR	\$10,333.75	KHN97-40/1-H-254/6TC-PLR	\$10,333.75
	50	47.16	37	18.78	28910	8100	213/5TC	3	362	KAN97-50/1-H-213/5TC-PLL	\$10,333.75	KHN97-50/1-H-213/5TC-PLL	\$10,333.75
	50	47.16	37	18.78	28910	8100	213/5TC	3	362	KAN97-50/1-H-213/5TC-PLR	\$10,333.75	KHN97-50/1-H-213/5TC-PLR	\$10,333.75
	50	47.16	37	18.78	28910	6510	254/6TC	3	393	KAN97-50/1-H-254/6TC-PLL	\$10,333.75	KHN97-50/1-H-254/6TC-PLL	\$10,333.75
	50	47.16	37	18.78	28910	6510	254/6TC	3	393	KAN97-50/1-H-254/6TC-PLR	\$10,333.75	KHN97-50/1-H-254/6TC-PLR	\$10,333.75
	65	64.72	27	18.02	38060	8550	213/5TC	3	362	KAN97-65/1-H-213/5TC-PLL	\$10,333.75	KHN97-65/1-H-213/5TC-PLL	\$10,333.75
	65	64.72	27	18.02	38060	8550	213/5TC	3	362	KAN97-65/1-H-213/5TC-PLR	\$10,333.75	KHN97-65/1-H-213/5TC-PLR	\$10,333.75
	65	64.72	27	18.02	38060	6810	254TC	3	393	KAN97-65/1-H-254TC-PLL	\$10,333.75	KHN97-65/1-H-254TC-PLL	\$10,333.75
	65	64.72	27	18.02	38060	6810	254TC	3	393	KAN97-65/1-H-254TC-PLR	\$10,333.75	KHN97-65/1-H-254TC-PLR	\$10,333.75
	70	71.78	24	16.24	38060	8550	213/5TC	3	362	KAN97-70/1-H-213/5TC-PLL	\$10,333.75	KHN97-70/1-H-213/5TC-PLL	\$10,333.75
	70	71.78	24	16.24	38060	8550	213/5TC	3	362	KAN97-70/1-H-213/5TC-PLR	\$10,333.75	KHN97-70/1-H-213/5TC-PLR	\$10,333.75
	80	80.07	22	14.56	38060	8550	213/5TC	3	362	KAN97-80/1-H-213/5TC-PLL	\$10,333.75	KHN97-80/1-H-213/5TC-PLL	\$10,333.75
	80	80.07	22	14.56	38060	8550	213/5TC	3	362	KAN97-80/1-H-213/5TC-PLR	\$10,333.75	KHN97-80/1-H-213/5TC-PLR	\$10,333.75
	100	101.37	17	11.50	38060	8550	213/5TC	3	362	KAN97-100/1-H-213/5TC-PLL	\$10,333.75	KHN97-100/1-H-213/5TC-PLL	\$10,333.75
	100	101.37	17	11.50	38060	8550	213/5TC	3	362	KAN97-100/1-H-213/5TC-PLR	\$10,333.75	KHN97-100/1-H-213/5TC-PLR	\$10,333.75
	120	119.87	15	9.73	38060	8550	213TC	3	362	KAN97-120/1-H-213TC-PLL	\$10,333.75	KHN97-120/1-H-213TC-PLL	\$10,333.75
	120	119.87	15	9.73	38060	8550	213TC	3	362	KAN97-120/1-H-213TC-PLR	\$10,333.75	KHN97-120/1-H-213TC-PLR	\$10,333.75

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KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KAN & KHN Series - Helical Bevel Reducers: Mechanical Ratings

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	56C			143TC			145TC			182TC			184TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
37	5	4.73	370	8.50	1310	56C	3	0.75	117	400												
	5	4.73	370	8.50	1310	143/5TC	3				1	156	395	2	312	375						
	7.5	7.96	220	6.00	1559	56C	3	0.75	197	465												
	7.5	7.96	220	6.00	1559	143/5TC	3				1	263	460	2	526	425						
	10	11.09	158	4.33	1565	56C	3	0.75	275	520												
	10	11.09	158	4.33	1565	143/5TC	3				1	367	510	2	733	475						
	15	15.32	114	3.14	1568	56C	3	0.75	380	575												
	15	15.32	114	3.14	1568	143/5TC	3				1	506	560	2	1013	510						
	25	23.10	76	2.20	1659	56C	3	0.75	573	635												
	25	23.10	76	2.20	1659	143/5TC	3				1	764	610	2	1528	505						
	30	32.19	54	1.66	1747	56C	3	0.75	798	705												
	30	32.19	54	1.66	1747	143TC	3				1	1065	680									
	40	37.97	46	1.43	1770	56C	3	0.75	942	735												
	40	37.97	46	1.43	1770	143TC	3				1	1256	705									
	50	49.51	35	1.10	1770	56C	3	0.75	1228	785												
	60	59.67	29	0.91	1770	56C	3	0.75	1480	815												
47	5	5.85	299	9.20	1757	145TC	3							2	387	505						
	5	5.85	299	9.20	1757	182/4TC	3										3	581	485	5	968	445
	7.5	7.11	246	8.08	1875	143/5TC	3							2	470	530						
	7.5	7.11	246	8.08	1875	182/4TC	3										3	706	510	5	1176	460
	10	9.95	176	6.46	2097	56C	3	0.75	247	620												
	10	9.95	176	6.46	2097	143/5TC	3				1	329	615	2	658	580						
	10	9.95	176	6.46	2097	182/4TC	3										3	987	550	5	1645	470
	15	16.99	103	4.52	2507	143/5TC	3							2	1123	660						
	15	16.99	103	4.52	2507	182TC	3										3	1685	600			
	20	20.65	85	3.97	2675	143/5TC	3							2	1365	690						
	20	20.65	85	3.97	2675	182TC	3										3	2048	610			
	30	28.88	61	3.17	2991	56C	3	0.75	716	855												
	30	28.88	61	3.17	2991	143/5TC	3				1	955	830	2	1910	730						
	40	41.36	42	2.50	3372	56C	3	0.75	1026	945												
	40	41.36	42	2.50	3372	143/5TC	3				1	1368	905	2	2735	750						
	50	47.08	37	2.21	3400	56C	3	0.75	1168	975												
	50	47.08	37	2.21	3400	143TC	3				1	1557	935	2	3114	745						
	60	58.99	30	1.84	3540	56C	3	0.75	1463	1030												
	60	58.99	30	1.84	3540	143TC	3				1	1951	980									
	70	71.78	24	1.51	3540	56C	3	0.75	1780	1070												
	70	71.78	24	1.51	3540	143TC	3				1	2373	1000									
	85	86.89	20	1.42	3540	56C	3	0.75	2155	1110												
67	10	9.66	181	12.06	3800	145TC	3							2	639	1500						
	10	9.66	181	12.06	3800	182/4TC	3										3	958	1410	5	1597	1240
	15	14.16	124	9.23	4265	56C	3	0.75	351	1770												
	15	14.16	124	9.23	4265	143/5TC	3				1	468	1740	2	936	1620						
	15	14.16	124	9.23	4265	182/4TC	3										3	1404	1500	5	2341	1250
	20	22.18	79	6.26	4530	145TC	3							1	1467	1760						
	20	22.18	79	6.26	4530	182/4TC	3										3	2201	1570	5	3668	1190
	30	30.90	57	5.34	5390	145TC	3							2	2043	1820						
	30	30.90	57	5.34	5390	182/4TC	3										3	3065	1550	5	5109	1010
	40	37.98	46	4.62	5730	56C	3	0.75	942	2140												
	40	37.98	46	4.62	5730	143/5TC	3				1	1256	2140	2	2512	1850						
	40	37.98	46	4.62	5730	182TC	3										3	3768	1510			
	45	46.33	38	4.02	6080	56C	3	0.75	1149	2140												
	45	46.33	38	4.02	6080	143/5TC	3				1	1532	2140	2	3064	1850						
	45	46.33	38	4.02	6080	182TC	3										3	4596	1450			
	65	64.97	27	2.95	6260	56C	3	0.75	1611	2140												
	65	64.97	27	2.95	6260	143/5TC	3				1	2148	2140	2	4297	1840						
	85	84.10	21	2.46	6760	56C	3	0.75	2086	2140												
	85	84.10	21	2.46	6760	143/5TC	3				1	2781	2140	2	5562	1750						
	110	108.03	16	2.06	7260	56C	3	0.75	2679	2140												
	110	108.03	16	2.06	7260	143TC	3				1	3572	2140									
	120	118.14	15	1.88	7260	56C	3	0.75	2930	2140												
	120	118.14	15	1.88	7260	143TC	3				1	3906	2140									

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Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KAN & KHN Series - Helical Bevel Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	56C			143TC			145TC			182TC			184TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
77	7.5	8.40	208	27.05	7415	184TC	3													5	1389	1810
	7.5	8.40	208	27.05	7415	213/5TC	3															
	10	9.96	176	24.02	7800	184TC	3													5	1646	1860
	10	9.96	176	24.02	7800	213/5TC	3															
	15	15.73	111	17.64	9050	184TC	3													5	2600	2030
	15	15.73	111	17.64	9050	213/5TC	3															
	20	20.24	86	14.78	9765	184TC	3													5	3347	2080
	20	20.24	86	14.78	9765	213/5TC	3															
	30	30.48	57	10.97	10915	184TC	3													5	5039	2020
	30	30.48	57	10.97	10915	213/5TC	3															
	40	39.76	44	9.21	11955	184TC	3													5	6574	2050
	40	39.76	44	9.21	11955	213TC	3															
	50	51.18	34	7.72	12900	184TC	3													5	8461	1940
	60	57.05	31	7.16	13325	182/4TC	3										3	5660	2620	5	9433	1860
	65	64.06	27	6.56	13710	182/4TC	3										3	6355	2610	5	10591	1760
	80	78.07	22	5.38	13710	145TC	3							2	5163	3080						
	80	78.07	22	5.38	13710	182TC	3										3	7745	2570			
	100	100.66	17	4.18	13710	145TC	3							2	6657	3090						
	100	100.66	17	4.18	13710	182TC	3										3	9986	2450			
	120	122.94	14	3.42	8125	143TC	3				1	4065	3090									
87	7.5	8.27	212	49.53	13365	213/5TC	3															
	7.5	8.27	212	49.53	13365	254/6TC	3															
	10	10.53	166	41.81	14370	184TC	3													5	1741	2660
	10	10.53	166	41.81	14370	213/5TC	3															
	10	10.53	166	41.81	14370	254/6TC	3															
	15	15.66	112	31.67	16185	213/5TC	3															
	15	15.66	112	31.67	16185	254/6TC	3															
	20	20.90	84	25.88	17650	213/5TC	3															
	20	20.90	84	25.88	17650	254/6TC	3															
	30	28.30	62	20.93	19330	184TC	3													5	4679	3200
	30	28.30	62	20.93	19330	213/5TC	3															
	30	28.30	62	20.93	19330	254/6TC	3															
	40	43.31	40	14.76	20870	184TC	3													5	7161	3450
	40	43.31	40	14.76	20870	213/5TC	3															
	50	50.45	35	13.04	21470	184TC	3													5	8342	3490
	50	50.45	35	13.04	21470	213/5TC	3															
	60	61.42	28	11.11	22270	184TC	3													5	10154	3510
	60	61.42	28	11.11	22270	213/5TC	3															
97	7.5	8.31	211	81.48	22095	254/6TC	3															
	7.5	8.31	211	81.48	22095	284/6TC	3															
	10	10.16	172	70.80	23465	213/5TC	3															
	10	10.16	172	70.80	23465	254/6TC	3															
	10	10.16	172	70.80	23465	284/6TC	3															
	15	14.11	124	64.78	29820	213/5TC	3															
	15	14.11	124	64.78	29820	254/6TC	3															
	15	14.11	124	64.78	29820	284/6TC	3															
	20	21.33	82	48.50	33760	213/5TC	3															
	20	21.33	82	48.50	33760	254/6TC	3															
	20	21.33	82	48.50	33760	284/6TC	3															
	30	31.19	56	28.65	29165	254/6TC	3															
	30	31.19	56	28.65	29165	284/6TC	3															
	40	38.12	46	23.33	29030	213/5TC	3															
	40	38.12	46	23.33	29030	254/6TC	3															
	50	47.16	37	18.78	28910	213/5TC	3															
	50	47.16	37	18.78	28910	254/6TC	3															
	65	64.72	27	18.02	38060	213/5TC	3															
	65	64.72	27	18.02	38060	254TC	3															
	70	71.78	24	16.24	38060	213/5TC	3															
	80	80.07	22	14.56	38060	213/5TC	3															
	100	101.37	17	11.50	38060	213/5TC	3															
	120	119.87	15	9.73	38060	213TC	3															

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KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers

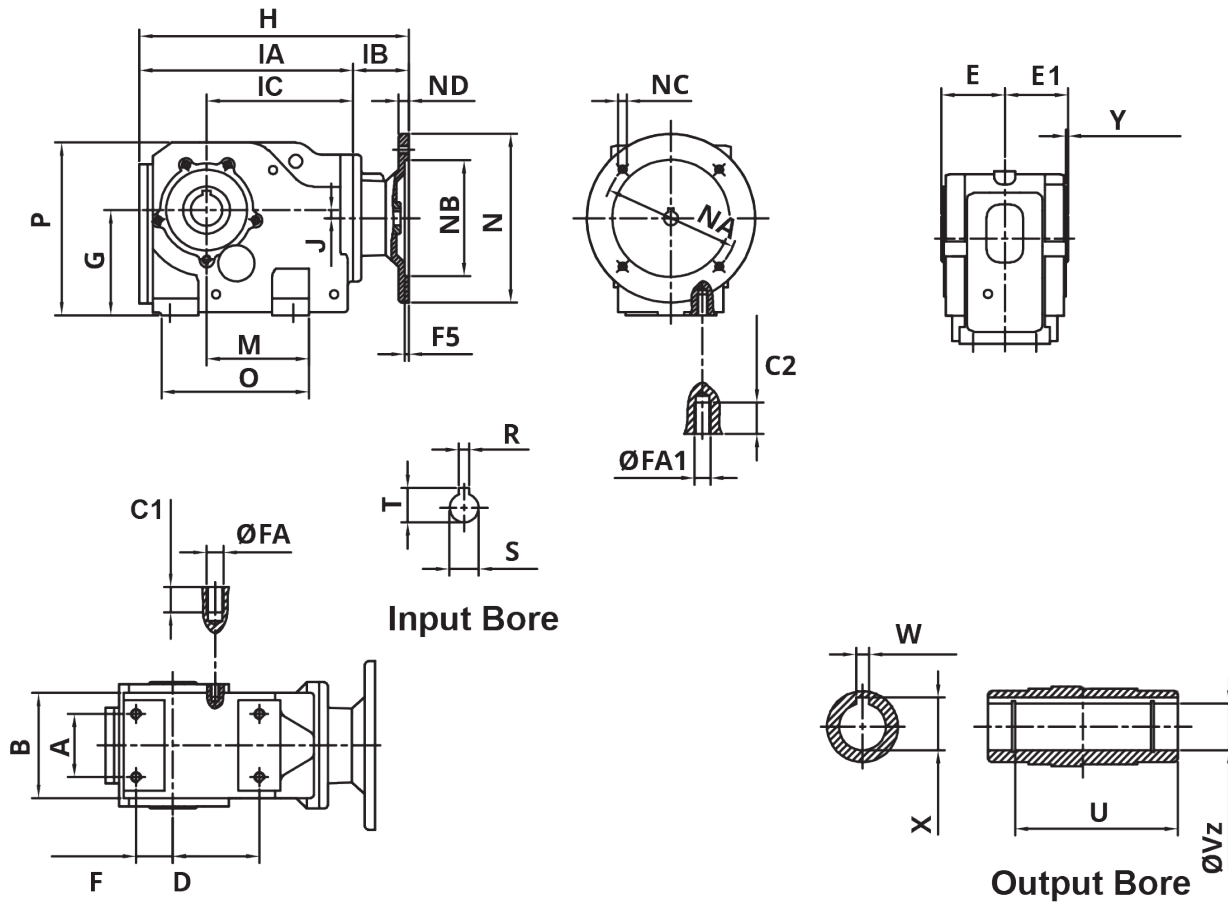


KAN & KHN Series - Helical Bevel Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	213TC			215TC			254TC			256TC			284TC			286TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
77	7.5	8.40	208	27.05	7415	184TC	3																		
	7.5	8.40	208	27.05	7415	213/5TC	3	7.5	2084	1660	10	2778	1510												
	10	9.96	176	24.02	7800	184TC	3																		
	10	9.96	176	24.02	7800	213/5TC	3	7.5	2469	1690	10	3292	1510												
	15	15.73	111	17.64	9050	184TC	3																		
	15	15.73	111	17.64	9050	213/5TC	3	7.5	3900	1760	10	5200	1510												
	20	20.24	86	14.78	9765	184TC	3																		
	20	20.24	86	14.78	9765	213/5TC	3	7.5	5020	1740	10	6694	1410												
	30	30.48	57	10.97	10915	184TC	3																		
	30	30.48	57	10.97	10915	213/5TC	3	7.5	7559	1470	10	10079	925												
	40	39.76	44	9.21	11955	184TC	3																		
	40	39.76	44	9.21	11955	213TC	3	7.5	9861	1390															
	50	51.18	34	7.72	12900	184TC	3																		
	60	57.05	31	7.16	13325	182/4TC	3																		
	65	64.06	27	6.56	13710	182/4TC	3																		
	80	78.07	22	5.38	13710	145TC	3																		
	80	78.07	22	5.38	13710	182TC	3																		
	100	100.66	17	4.18	13710	145TC	3																		
	100	100.66	17	4.18	13710	182TC	3																		
	120	122.94	14	3.42	8125	143TC	3																		
87	7.5	8.27	212	49.53	13365	213/5TC	3	7.5	2050	2400	10	2734	2290	15	4100	2070	20	5467	1850						
	7.5	8.27	212	49.53	13365	254/6TC	3																		
	10	10.53	166	41.81	14370	184TC	3																		
	10	10.53	166	41.81	14370	213/5TC	3	7.5	2612	2520	10	3483	2380												
	10	10.53	166	41.81	14370	254/6TC	3							15	5224	2100	20	6965	1820						
	15	15.66	112	31.67	16185	213/5TC	3	7.5	3885	2690	10	5179	2480												
	15	15.66	112	31.67	16185	254/6TC	3							15	7769	2060	20	10359	1640						
	20	20.90	84	25.88	17650	213/5TC	3	7.5	5183	2780	10	6911	2500												
	20	20.90	84	25.88	17650	254/6TC	3							15	10367	1940	20	13822	1390						
	30	28.30	62	20.93	19330	184TC	3																		
	30	28.30	62	20.93	19330	213/5TC	3	7.5	7019	2820	10	9359	2450												
	30	28.30	62	20.93	19330	254/6TC	3							15	14038	1700	20	18717	940						
	40	43.31	40	14.76	20870	184TC	3																		
	40	43.31	40	14.76	20870	213/5TC	3	7.5	10742	2930	10	14322	2410												
	50	50.45	35	13.04	21470	184TC	3																		
	50	50.45	35	13.04	21470	213/5TC	3	7.5	12512	2890	10	16683	2280												
	60	61.42	28	11.11	22270	184TC	3																		
	60	61.42	28	11.11	22270	213/5TC	3	7.5	15232	2780	10	20309	2040												
	70	72.35	24	9.73	22970	184TC	3																		
	70	72.35	24	9.73	22970	213TC	3	7.5	17942	2640															
	80	82.86	21	8.72	23570	182/4TC	3																		
	110	108.00	16	6.78	23900	182TC	3																		
	120	117.56	15	6.23	23900	182TC	3																		
97	7.5	8.31	211	81.48	22095	254/6TC	3							15	4121	5190	20	5495	5010						
	7.5	8.31	211	81.48	22095	284/6TC	3													25	6869	4820	30	8243	4630
	10	10.16	172	70.80	23465	213/5TC	3	7.5	2519	5770	10	3358	5660												
	10	10.16	172	70.80	23465	254/6TC	3							15	5037	5420	20	6716	5200						
	10	10.16	172	70.80	23465	284/6TC	3													25	8395	4970	30	10074	4740
	15	14.11	124	64.78	29820	213/5TC	3	7.5	3498	6320	10	4665	6180												
	15	14.11	124	64.78	29820	254/6TC	3							15	6997	5900	20	9329	5620						
	15	14.11	124	64.78	29820	284/6TC	3													25	11661	5350	30	13994	5070
	20	21.33	82	48.50	33760	213/5TC	3	7.5	5290	7000	10	7053	6790												
	20	21.33	82	48.50	33760	254/6TC	3							15	10579	6360	20	14106	5940						
	20	21.33	82	48.50	33760	284/6TC	3													25	17632	5520	30	21159	5100
	30	31.19	56	28.65	29165	254/6TC	3							15	15472	6450	20	20629	5760						
	30	31.19	56	28.65	29165	284/6TC	3													25	25786	5060			
	40	38.12	46	23.33	29030	213/5TC	3	7.5	9455	7800	10	12606	7370												
	40	38.12	46	23.33	29030	254/6TC	3							15	18910	6520	20	25213	5670						
	50	47.16	37	18.78	28910	213/5TC	3	7.5	11696	8100	10	15595	7570												
	50	47.16	37	18.78	28910	254/6TC	3							15	23393	6510	20	31191	5460						
	65	64.72	27	18.02	38060	213/5TC	3	7.5	16052	8550	10	21402	8090												
	65	64.72	27	18.02	38060	254TC	3							15	32103	6810									
	70	71.78	24	16.24	38060	213/5TC	3	7.5	17803	8550	10	23737	8140												
	80	80.07	22	14.56	38060	213/5TC	3	7.5	19857	8550	10	26477	8180												
	100	101.37	17	11.50	38060	213/5TC	3	7.5	25141	8550	10	33521	8170												
	120	119.87	15	9.73	38060	213TC	3	7.5	29729	8550															

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KAN Series - Helical Bevel Reducers: Dimensions



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KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

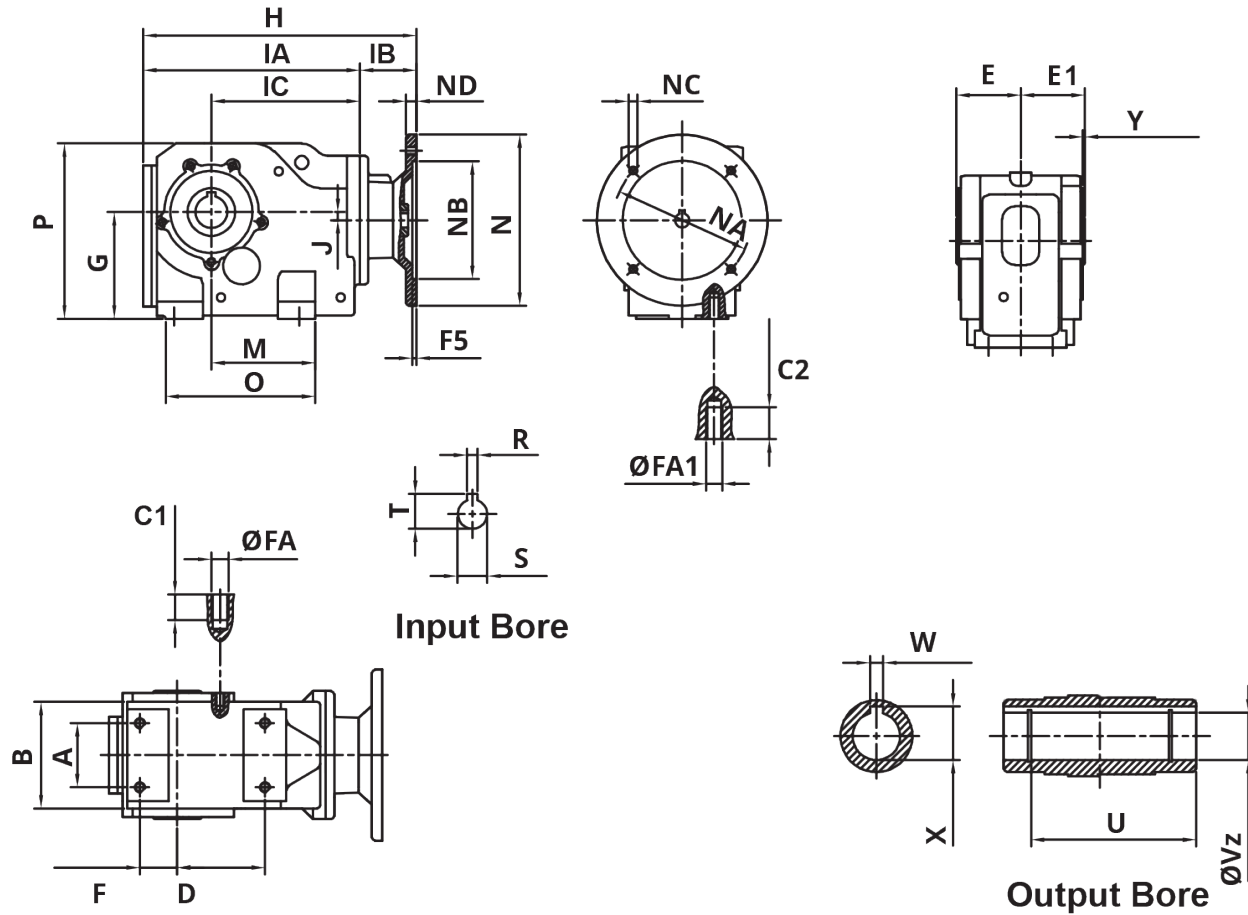
All listed dimensions in inches

Box Size	NEMA Frame	A	B	C1	C2	D	E	E1	F	FA	FA1	F5	G	H	IA	IB	IC	J	M	O	P
37	56C	2.36	3.94	0.47	0.79	3.23	2.36	2.36	1.38	M8	M10	0.08	3.94	10.49	8.10	2.40	5.47	0.31	3.82	5.51	6.46
	143/5TC	2.36	3.94	0.47	0.79	3.23	2.36	2.36	1.38	M8	M10	0.08	3.94	10.89	8.10	2.80	5.47	0.31	3.82	5.51	6.46
47	56C	2.76	4.17	0.47	0.79	3.94	2.95	2.95	1.57	M8	M10	0.12	4.41	11.68	9.41	2.4	6.54	0.21	4.41	6.65	7.32
	143/5TC	2.76	4.17	0.47	0.79	3.94	2.95	2.95	1.57	M8	M10	0.12	4.41	12.06	9.41	2.8	6.54	0.21	4.41	6.65	7.32
	182/4TC	2.76	4.17	0.47	0.79	3.94	2.95	2.95	1.57	M8	M10	0.12	4.41	12.79	9.41	3.35	6.54	0.21	4.41	6.65	7.32
67	56C	3.46	5.28	0.79	0.98	4.33	3.54	3.54	1.65	M12	M12	0.14	5.51	12.89	10.75	2.15	7.05	0.75	4.72	6.89	8.98
	143/5TC	3.46	5.28	0.79	0.98	4.33	3.54	3.54	1.65	M12	M12	0.14	5.51	13.29	10.75	2.54	7.05	0.75	4.72	6.89	8.98
	182/4TC	3.46	5.28	0.79	0.98	4.33	3.54	3.54	1.65	M12	M12	0.14	5.51	14.02	10.75	3.27	7.05	0.75	4.72	6.89	8.98
77	143/5TC	4.02	6.46	0.98	1.26	4.80	4.13	4.13	1.89	M12	M16	0.16	7.09	15.06	12.74	2.32	7.95	1.47	5.91	8.66	11.54
	182/4TC	4.02	6.46	0.98	1.26	4.80	4.13	4.13	1.89	M12	M16	0.20	7.09	15.79	12.74	3.05	7.95	1.47	5.91	8.66	11.54
	213/5TC	4.02	6.46	0.98	1.26	4.80	4.13	4.13	1.89	M12	M16	0.20	7.09	18.05	12.74	5.31	7.95	1.47	5.91	8.66	11.54
	182/4TC	4.65	5.98	1.02	1.26	6.30	4.72	4.72	2.56	M16	M16	0.20	8.35	17.99	15.32	2.68	10.12	1.24	7.48	10.79	13.39
87	213/5TC	4.65	5.98	1.02	1.26	6.30	4.72	4.72	2.56	M16	M16	0.20	8.35	20.26	15.32	5.31	10.12	1.24	7.48	10.79	13.39
	254/6TC	4.65	5.98	1.02	1.26	6.30	4.72	4.72	2.56	M16	M16	0.20	8.35	21.24	15.32	5.93	10.12	1.24	7.48	10.79	13.39
	213/5TC	6.30	9.21	1.02	1.42	6.50	5.91	5.91	3.27	M16	M20	0.20	10.43	22.64	17.64	4.63	10.91	1.82	8.07	12.20	16.42
97	254/6TC	6.30	9.21	1.02	1.42	6.50	5.91	5.91	3.27	M16	M20	0.20	10.43	23.25	17.64	5.61	10.91	1.82	8.07	12.20	16.42
	284/6TC	6.30	9.21	1.02	1.42	6.50	5.91	5.91	3.27	M16	M20	0.20	10.43	23.60	17.64	5.96	10.91	1.82	8.07	12.20	16.42

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

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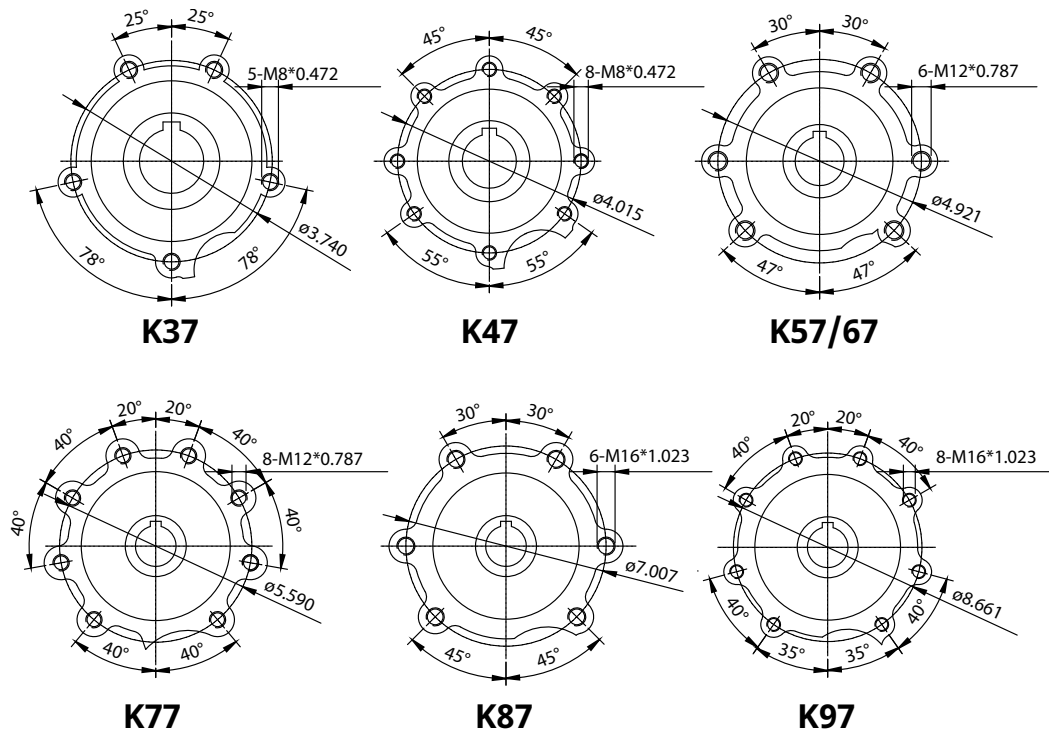
KAN Series - Helical Bevel Reducers: Dimensions (cont.)



All listed dimensions in inches															
Box Size	NEMA Frame	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
		N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z
37	56C	6.50	5.875	4.50	0.41	0.39	0.188	0.625	0.71	4.13	1.25	0.25	1.37	0.08	+0.0018/+0.0008
	143/5TC	6.50	5.875	4.50	0.41	0.47	0.188	0.875	0.97	4.13	1.25	0.25	1.37	0.08	+0.0018/+0.0008
47	56C	6.50	5.875	4.50	0.41	0.39	0.188	0.625	0.71	5.20	1.375	0.31	1.52	0.12	+0.0018/+0.0008
	143/5TC	6.50	5.875	4.50	0.41	0.47	0.188	0.875	0.97	5.20	1.375	0.31	1.52	0.12	+0.0018/+0.0008
	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	5.20	1.375	0.31	1.52	0.12	+0.0018/+0.0008
67	56C	6.50	5.875	4.50	0.41	0.39	0.188	0.625	0.71	6.14	1.50	0.38	1.67	0.14	+0.0018/+0.0008
	143/5TC	6.50	5.875	4.50	0.41	0.47	0.188	0.875	0.96	6.14	1.50	0.38	1.67	0.14	+0.0018/+0.0008
	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	6.14	1.50	0.38	1.67	0.14	+0.0018/+0.0008
77	143/5TC	6.50	5.875	4.50	0.41	0.47	0.188	0.875	0.96	7.20	2.00	0.50	2.22	0.16	+0.002/+0.0008
	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	7.20	2.00	0.50	2.22	0.16	+0.002/+0.0008
	213/5TC	9.00	7.250	8.50	0.55	0.67	0.312	1.375	1.52	7.20	2.00	0.50	2.22	0.16	+0.002/+0.0008
87	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	8.27	2.375	0.63	2.65	0.16	+0.002/+0.0008
	213/5TC	9.00	7.250	8.50	0.55	0.67	0.312	1.375	1.52	8.27	2.375	0.63	2.65	0.16	+0.002/+0.0008
	254/6TC	10.00	7.250	8.50	0.55	0.79	0.375	1.625	1.80	8.27	2.375	0.63	2.65	0.16	+0.002/+0.0008
97	213/5TC	9.00	7.250	8.50	0.55	0.67	0.312	1.375	1.52	10.63	2.75	0.63	3.03	0.16	+0.002/+0.0008
	254/6TC	10.00	7.250	8.50	0.55	0.79	0.375	1.625	1.80	10.63	2.75	0.63	3.03	0.16	+0.002/+0.0008
	284/6TC	11.26	9.000	10.50	0.59	0.79	0.500	1.875	2.10	10.63	2.75	0.63	3.03	0.16	+0.002/+0.0008

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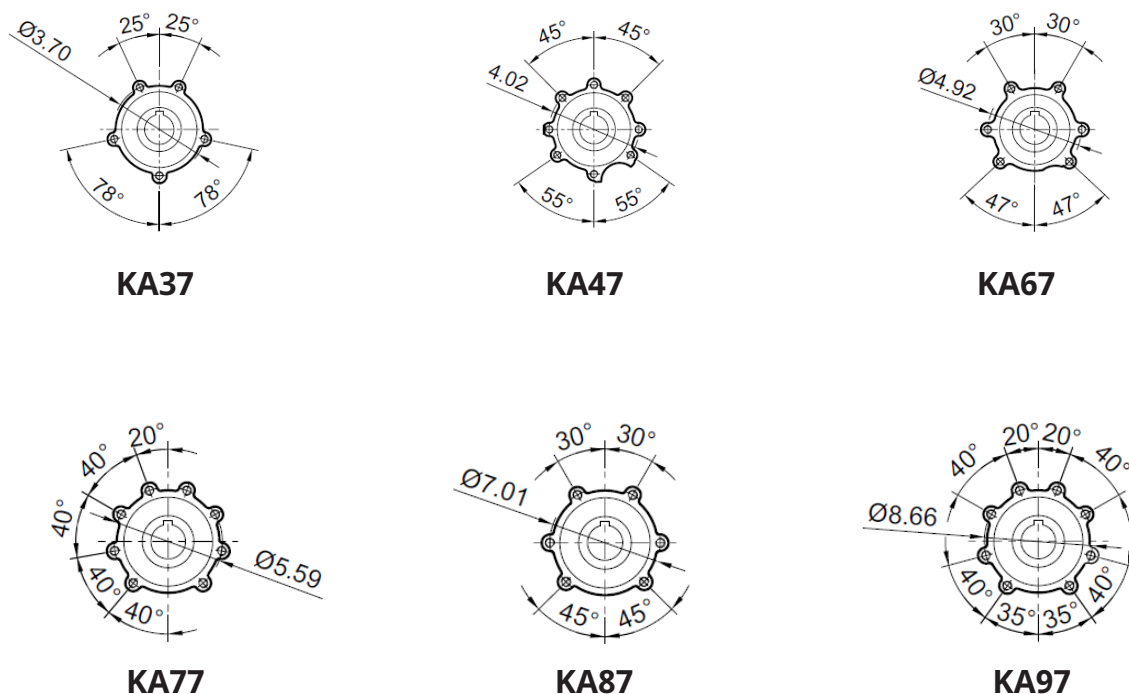
KAN Series - Helical Bevel Reducers: Integrated Output Mounting Dimensions



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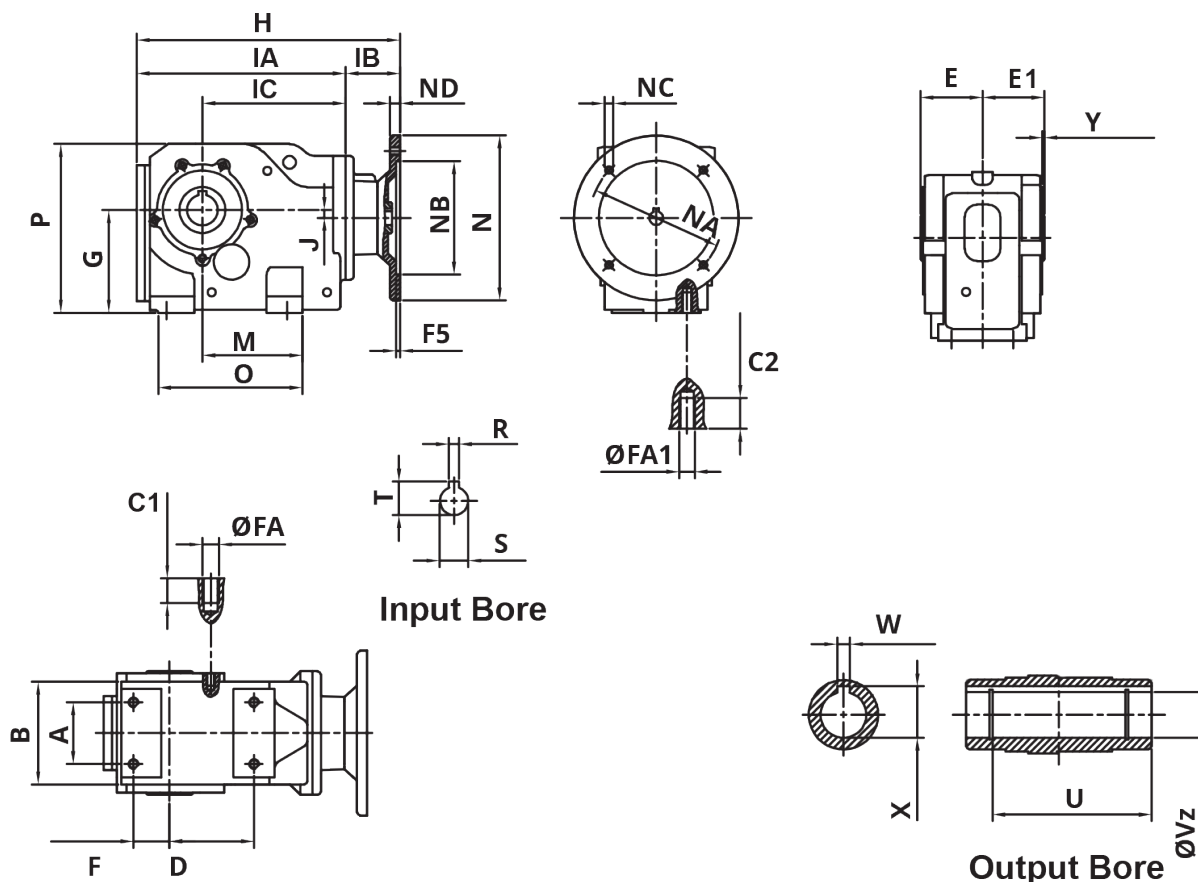
KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

KAN Series Integrated Output Mounting Dimensions Competitor Dimensional Comparison - SEW Eurodrive



KAN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive

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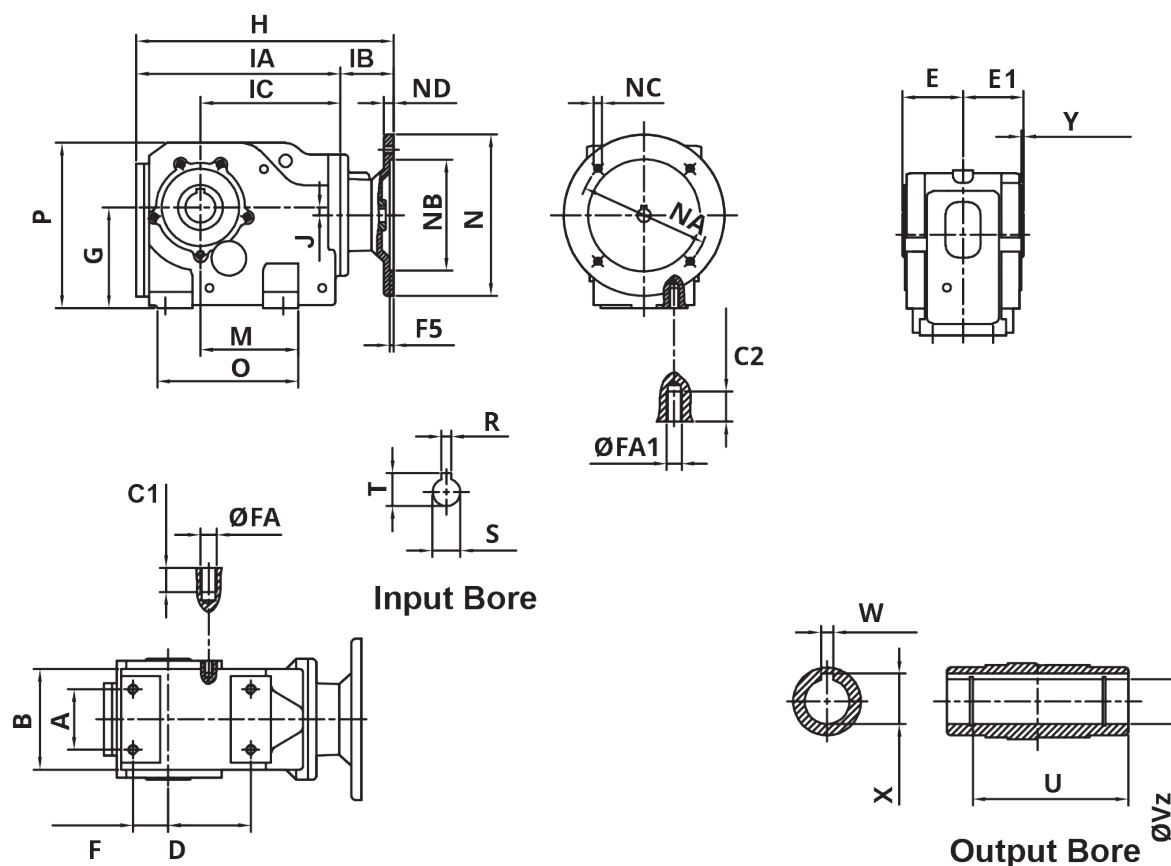
KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

All listed dimensions in inches																					
Box Size	NEMA Frame	A	B	C1	C2	D	E	E1	F	FA	FA1	F5	G	H	IA	IB	IC	J	M	O	P
37	56C	2.36	3.94	0.47	0.79	3.23	2.48	2.36	1.38	M8	M10	0.10	3.94	11.95	8.27	3.68	5.47	0.33	3.82	5.79	6.46
	143/5TC	2.36	3.94	0.47	0.79	3.23	2.48	2.36	1.38	M8	M10	0.10	3.94	12.88	8.27	4.61	5.47	0.33	3.82	5.79	6.46
47	56C	2.76	4.33	0.47	0.79	3.94	3.07	2.95	1.57	M8	M10	0.12	4.41	13.00	9.57	3.43	6.54	0.33	4.53	6.69	7.28
	143/5TC	2.76	4.33	0.47	0.79	3.94	3.07	2.95	1.57	M8	M10	0.12	4.41	13.92	9.57	4.35	6.54	0.33	4.53	6.69	7.28
	182/4TC	2.76	4.33	0.47	0.79	3.94	3.07	2.95	1.57	M8	M10	0.12	4.41	15.38	9.57	5.81	6.54	0.33	4.53	6.69	7.28
67	56C	3.46	5.12	0.79	0.98	4.33	3.70	3.54	1.65	M12	M12	0.14	5.51	14.22	10.79	3.43	7.05	0.79	4.92	7.17	8.90
	143/5TC	3.46	5.12	0.79	0.98	4.33	3.70	3.54	1.65	M12	M12	0.14	5.51	15.14	10.79	4.35	7.05	0.79	4.92	7.17	8.90
	182/4TC	3.46	5.12	0.79	0.98	4.33	3.70	3.54	1.65	M12	M12	0.14	5.51	16.60	10.79	5.81	7.05	0.79	4.92	7.17	8.90
77	143/5TC	4.02	6.06	0.79	1.26	4.80	4.25	4.13	1.89	M12	M16	0.18	7.09	16.35	12.28	4.07	7.95	1.23	5.47	8.03	11.26
	182/4TC	4.02	6.06	0.79	1.26	4.80	4.25	4.13	1.89	M12	M16	0.20	7.09	17.77	12.28	5.49	7.95	1.23	5.47	8.03	11.26
	213/5TC	4.02	6.06	0.79	1.26	4.80	4.25	4.13	1.89	M12	M16	0.20	7.09	19.70	12.28	7.42	7.95	1.23	5.47	10.79	11.26
87	182/4TC	4.65	6.69	1.02	1.26	6.30	4.84	4.72	2.56	M16	M16	0.20	8.35	20.65	15.35	5.3	10.12	1.02	7.48	11.02	13.31
	213/5TC	4.65	6.69	1.02	1.26	6.30	4.84	4.72	2.56	M16	M16	0.20	8.35	22.57	15.35	7.22	10.12	1.02	7.48	11.02	13.31
	254/6TC	4.65	6.69	1.02	1.26	6.30	4.84	4.72	2.56	M16	M16	0.20	8.35	24.56	15.35	9.21	10.12	1.02	7.48	11.02	13.31
97	213/5TC	6.30	8.90	1.02	1.42	6.50	6.02	5.91	3.27	M16	M20	0.20	10.44	24.16	17.13	7.03	10.91	1.27	7.48	11.73	16.30
	254/6TC	6.30	8.90	1.02	1.42	6.50	6.02	5.91	3.27	M16	M20	0.20	10.44	26.15	17.13	9.02	10.91	1.27	7.48	11.73	16.30
	284/6TC	6.30	8.90	1.02	1.42	6.50	6.02	5.91	3.27	M16	M20	0.20	10.44	26.42	17.13	9.29	10.91	1.27	7.48	11.73	16.30

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

Continued On Next Page

KAN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive (cont.)



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KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

All listed dimensions in inches															
Box Size	NEMA Frame	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
		N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z
37	56C	6.69	5.875	4.50	0.41	0.43	0.188	0.625	0.71	4.13	1.25	0.25	1.37	0.10	+ 0.001 / -0.0
	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	4.13	1.25	0.25	1.37	0.10	+ 0.001 / -0.0
47	56C	6.69	5.875	4.50	0.41	0.43	0.188	0.625	0.71	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
	182/4TC	8.98	7.250	8.50	0.59	0.39	0.250	1.125	1.24	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
67	56C	6.69	5.875	4.50	0.41	0.43	0.188	0.625	0.71	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
	182/4TC	8.98	7.250	8.50	0.59	0.39	0.250	1.125	1.24	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
77	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	7.20	2.00	0.50	2.22	0.16	+ 0.001 / -0.0
	182/4TC	6.69	7.250	8.50	0.59	0.39	0.250	1.125	1.24	7.20	2.00	0.50	2.22	0.16	+ 0.001 / -0.0
	213/5TC	8.98	7.250	8.50	0.59	0.43	0.312	1.375	1.52	7.20	2.00	0.50	2.22	0.16	+ 0.001 / -0.0
87	182/4TC	8.98	7.250	8.50	0.59	0.39	0.250	1.125	1.24	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
	213/5TC	8.98	7.250	8.50	0.59	0.43	0.312	1.375	1.52	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
	254/6TC	8.98	7.250	8.50	0.59	0.47	0.375	1.625	1.80	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
97	213/5TC	8.98	7.250	8.50	0.59	0.43	0.312	1.375	1.52	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0
	254/6TC	8.98	7.250	8.50	0.59	0.47	0.375	1.625	1.80	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0
	284/6TC	11.26	9.000	10.50	0.59	0.79	0.500	1.875	2.10	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0

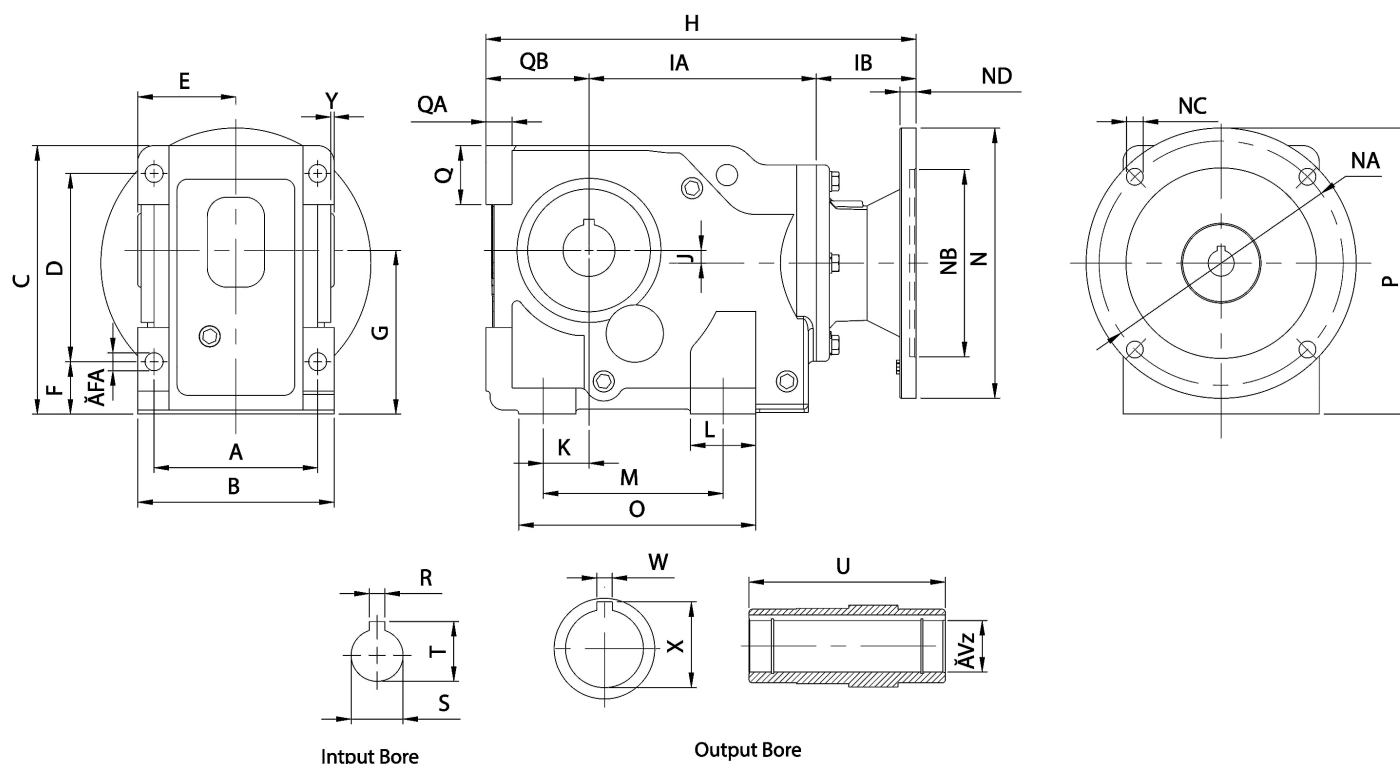
SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KHN Series - Helical Bevel Reducers: Dimensions



All listed dimensions in inches																		
Box Size	NEMA Frame	A	B	C	D	E	F	FA	G	H	IA	IB	J	K	L	M	O	P
37	56C	3.94	4.72	6.46	4.53	2.36	1.26	0.43	3.94	10.35	5.47	2.40	0.31	1.10	1.57	4.33	5.71	6.88
	143/5TC	3.94	4.72	6.46	4.53	2.36	1.26	0.43	3.94	10.75	5.47	2.80	0.31	1.10	1.57	4.33	5.71	6.88
47	56C	4.72	5.71	7.32	5.12	2.95	1.46	0.43	4.41	11.56	6.54	2.22	0.20	1.38	1.52	5.12	6.65	7.46
	143/5TC	4.72	5.71	7.32	5.12	2.95	1.46	0.43	4.41	11.95	6.54	2.62	0.20	1.38	1.52	5.12	6.65	7.46
	182/4TC	4.72	5.71	7.32	5.12	2.95	1.46	0.43	4.41	12.68	6.54	3.35	0.20	1.38	1.52	5.12	6.65	8.71
67	56C	5.51	6.69	8.98	6.30	3.54	1.77	0.53	5.51	12.74	7.05	2.15	0.75	1.18	1.77	4.72	6.69	8.01
	143/5TC	5.51	6.69	8.98	6.30	3.54	1.77	0.53	5.51	13.13	7.05	2.54	0.75	1.18	1.77	4.72	6.69	8.01
	182/4TC	5.51	6.69	8.98	6.30	3.54	1.77	0.53	5.51	13.86	7.05	3.27	0.75	1.18	1.77	4.72	6.69	8.26
77	143/5TC	6.50	7.87	11.54	7.87	4.13	2.17	0.69	7.09	14.69	7.95	2.32	1.47	1.57	2.56	5.91	8.66	8.87
	182/4TC	6.50	7.87	11.54	7.87	4.13	2.17	0.69	7.09	15.41	7.95	3.05	1.47	1.57	2.56	5.91	8.66	8.87
	213/5TC	6.50	7.87	11.54	7.87	4.13	2.17	0.69	7.09	17.68	7.95	5.31	1.47	1.57	2.56	5.91	8.66	10.12
87	182/4TC	7.09	8.82	13.39	9.17	4.72	2.76	0.87	8.34	17.99	10.12	2.68	1.24	2.17	3.39	7.09	11.02	11.61
	213/5TC	7.09	8.82	13.39	9.17	4.72	2.76	0.87	8.34	20.26	10.12	4.94	1.24	2.17	3.39	7.09	11.02	11.61
	254/6TC	7.09	8.82	13.39	9.17	4.72	2.76	0.87	8.34	21.24	10.12	5.93	1.24	2.17	3.39	7.09	11.02	12.11
97	213/5TC	9.45	11.42	16.42	11.61	5.91	2.95	1.02	10.43	21.83	10.91	4.63	1.82	2.95	2.99	9.45	12.20	13.11
	254/6TC	9.45	11.42	16.42	11.61	5.91	2.95	1.02	10.43	22.81	10.91	5.61	1.82	2.95	2.99	9.45	12.20	13.62
	284/6TC	9.45	11.42	16.42	11.61	5.91	2.95	1.02	10.43	23.17	10.91	5.96	1.82	2.95	2.99	9.45	12.20	14.52

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

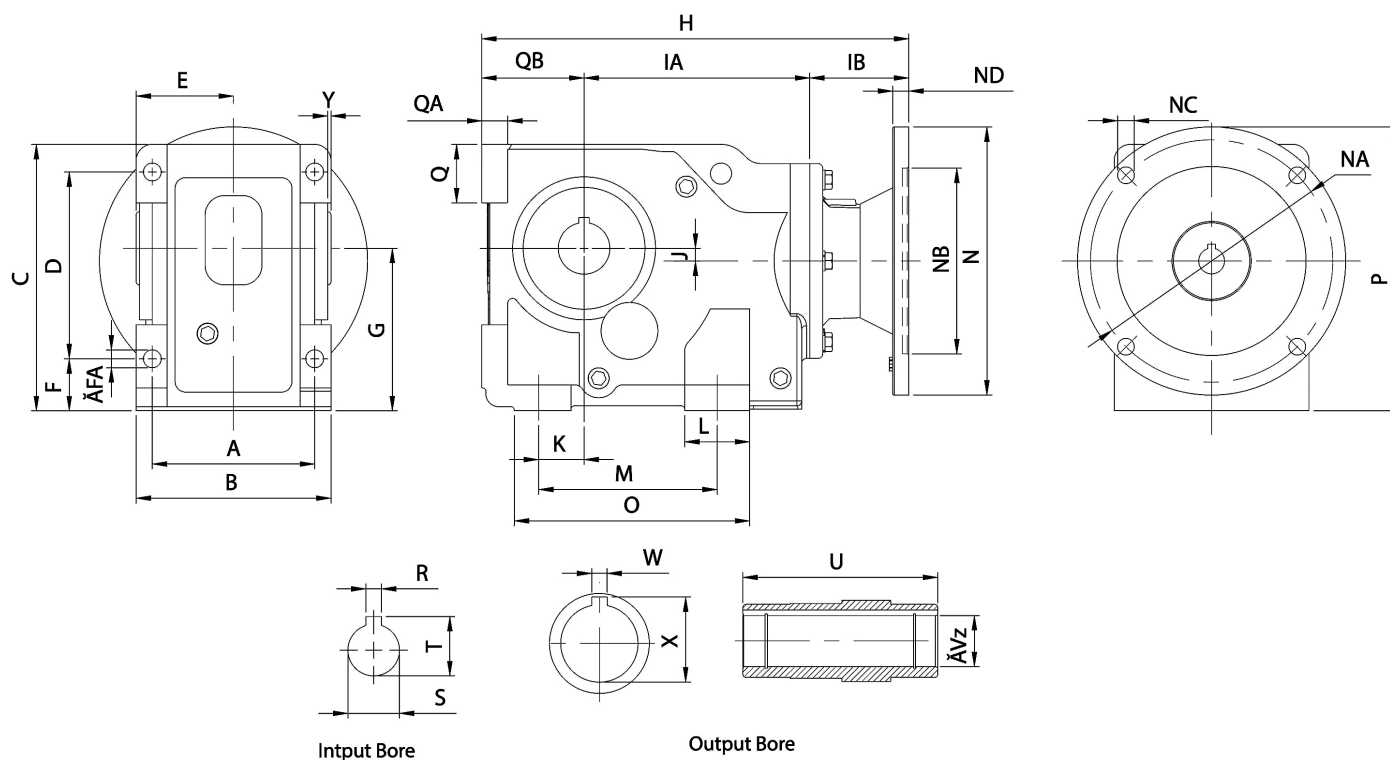
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Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KHN Series - Helical Bevel Reducers: Dimensions (cont.)



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KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

All listed dimensions in inches																		
Box Size	NEMA Frame	Q	QA	QB	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
					N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z
37	56C	1.42	0.63	2.48	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	4.72	1.250	0.25	1.37	0.08	+0.0018/+0.0008
	143/5TC	1.42	0.63	2.48	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.97	4.72	1.250	0.25	1.37	0.08	+0.0018/+0.0008
47	56C	1.57	0.71	2.80	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	5.90	1.375	0.31	1.52	0.10	+0.0018/+0.0008
	143/5TC	1.57	0.71	2.80	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.97	5.90	1.375	0.31	1.52	0.10	+0.0018/+0.0008
	182/4TC	1.57	0.71	2.80	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	5.90	1.375	0.31	1.52	0.10	+0.0018/+0.0008
67	56C	2.32	0.94	3.54	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	7.08	1.500	0.38	1.67	0.14	+0.0018/+0.0008
	143/5TC	2.32	0.94	3.54	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.96	7.08	1.500	0.38	1.67	0.14	+0.0018/+0.0008
	182/4TC	2.32	0.94	3.54	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	7.08	1.500	0.38	1.67	0.14	+0.0018/+0.0008
77	143/5TC	2.36	1.06	4.41	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.96	8.26	2.000	0.50	2.22	0.16	+0.002/+0.0008
	182/4TC	2.36	1.06	4.41	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	8.26	2.000	0.50	2.22	0.16	+0.002/+0.0008
	213/5TC	2.36	1.06	4.41	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	8.26	2.000	0.50	2.22	0.16	+0.002/+0.0008
87	182/4TC	3.46	1.26	5.20	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	9.44	2.375	0.63	2.65	0.16	+0.002/+0.0008
	213/5TC	3.46	1.26	5.20	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	9.44	2.375	0.63	2.65	0.16	+0.002/+0.0008
	254/6TC	3.46	1.26	5.20	10.00	7.250	8.50	4 x 0.55	0.79	0.375	1.625	1.80	9.44	2.375	0.63	2.65	0.16	+0.002/+0.0008
97	213/5TC	3.39	1.42	6.30	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	11.82	2.750	0.63	3.03	0.16	+0.002/+0.0008
	254/6TC	3.39	1.42	6.30	10.00	7.250	8.50	4 x 0.55	0.79	0.375	1.625	1.80	11.82	2.750	0.63	3.03	0.16	+0.002/+0.0008
	284/6TC	3.39	1.42	6.30	11.26	9.000	10.50	4 x 0.59	0.79	0.500	1.875	2.10	11.82	2.750	0.63	3.03	0.16	+0.002/+0.0008

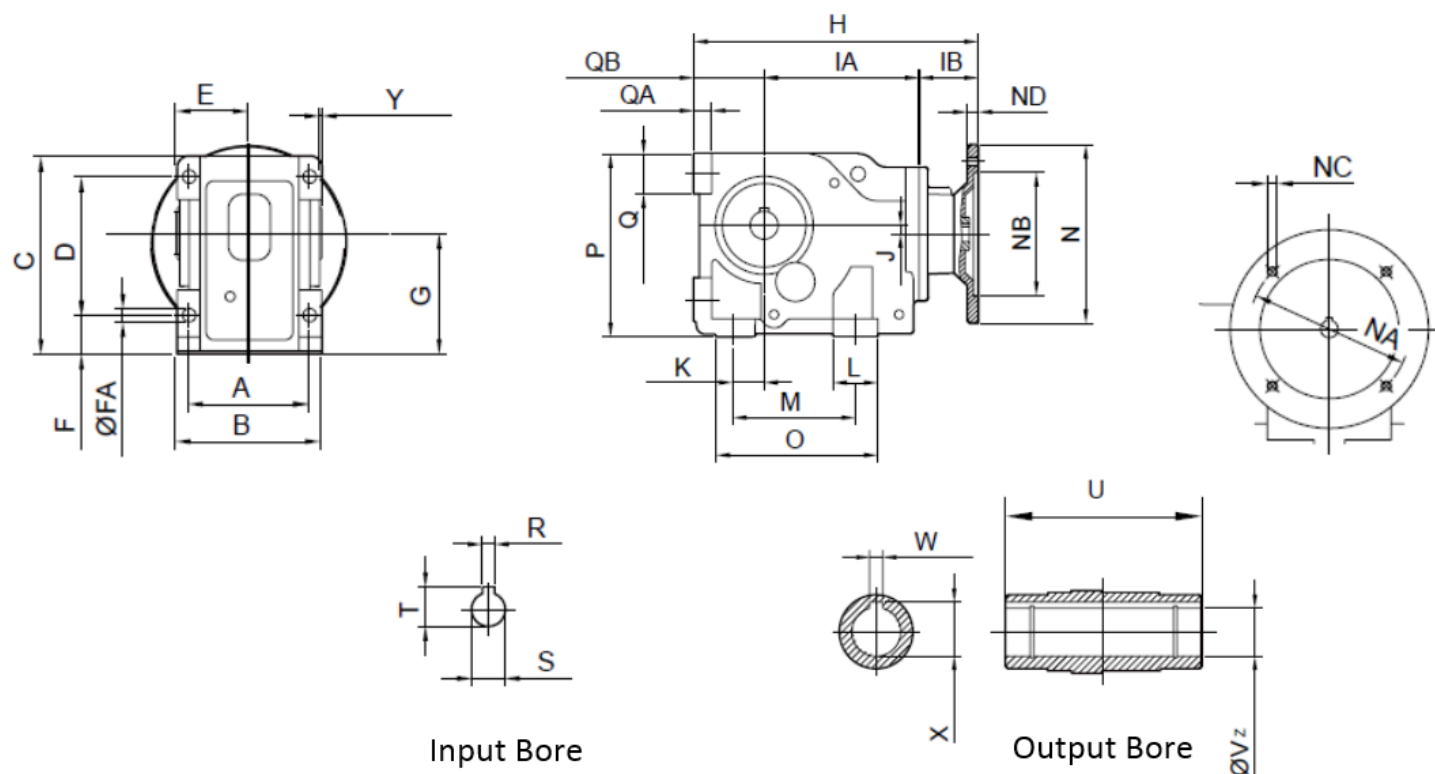
Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KHN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive

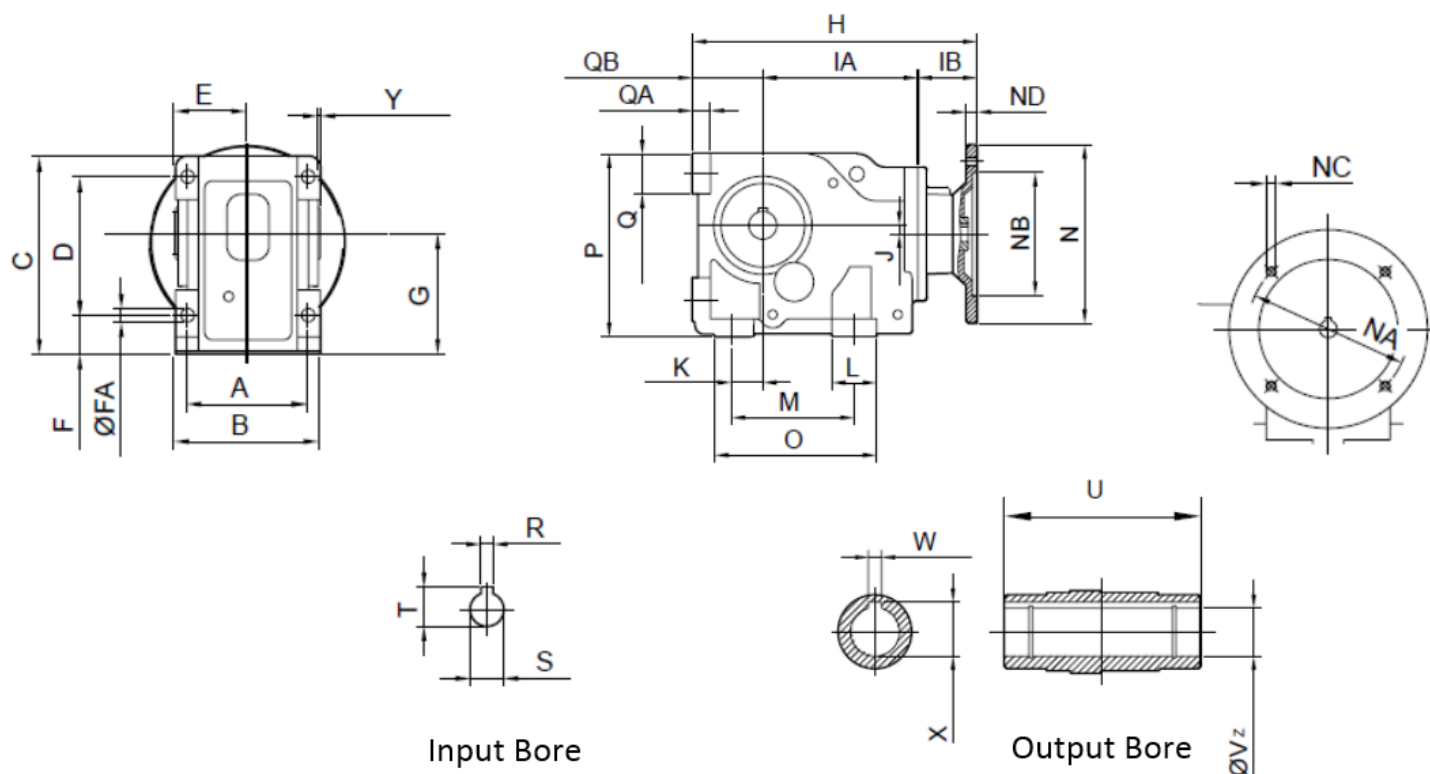


All listed dimensions in inches																		
Box Size	NEMA Frame	A	B	C	D	E	F	FA	G	H	IA	IB	J	K	L	M	O	P
37	56C	3.94	4.72	6.50	4.53	2.36	1.26	0.43	3.94	11.63	5.47	3.68	0.33	1.10	1.50	4.33	5.63	6.50
	143/5TC	3.94	4.72	6.50	4.53	2.36	1.26	0.43	3.94	12.56	5.47	4.61	0.33	1.10	1.50	4.33	5.63	6.50
47	56C	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	12.77	6.54	3.43	0.28	1.38	1.26	5.12	6.38	7.28
	143/5TC	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	13.69	6.54	4.35	0.28	1.38	1.26	5.12	6.38	7.28
	182/4TC	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	15.15	6.54	5.81	0.28	1.38	1.26	5.12	6.38	7.28
67	56C	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	14.02	7.05	3.43	0.79	1.18	1.77	4.72	6.69	8.98
	143/5TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	14.94	7.05	4.35	0.79	1.18	1.77	4.72	6.69	8.98
	182/4TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	16.40	7.05	5.81	0.79	1.18	1.77	4.72	6.69	8.98
77	143/5TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	16.43	7.95	4.07	1.23	1.57	2.17	5.91	8.19	11.34
	182/4TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	17.85	7.95	5.49	1.23	1.57	2.17	5.91	8.19	11.34
	213/5TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	19.78	7.95	7.42	1.23	1.57	2.17	5.91	8.19	11.34
87	182/4TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	20.62	10.12	5.30	1.02	2.17	2.95	7.09	10.24	13.39
	213/5TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	22.54	10.12	7.22	1.02	2.17	2.95	7.09	10.24	13.39
	254/6TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	24.53	10.12	9.21	1.02	2.17	2.95	7.09	10.24	13.39
97	213/5TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	24.24	10.91	7.03	1.27	2.95	2.36	9.45	11.57	16.42
	254/6TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	26.23	10.91	9.02	1.27	2.95	2.36	9.45	11.57	16.42
	284/6TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	26.50	10.91	9.29	1.27	2.95	2.36	9.45	11.57	16.42

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

Continued On Next Page

KHN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive (cont.)



3

KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

All listed dimensions in inches																		
Box Size	NEMA Frame	Q	QA	QB	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
					N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z
37	56C	1.42	0.63	2.48	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	4.72	1.250	0.25	1.37	0.10	+ .0010 / -0.0
	143/5TC	1.42	0.63	2.48	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	4.72	1.250	0.25	1.37	0.10	+ .0010 / -0.0
47	56C	1.34	0.71	2.80	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0
	143/5TC	1.34	0.71	2.80	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0
	182/4TC	1.34	0.71	2.80	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0
67	56C	2.13	0.94	3.54	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	143/5TC	2.13	0.94	3.54	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	182/4TC	2.13	0.94	3.54	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
77	143/5TC	2.36	1.06	4.41	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	182/4TC	2.36	1.06	4.41	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	213/5TC	2.36	1.06	4.41	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
87	182/4TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	213/5TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	254/6TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.67	0.375	1.625	1.80	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
97	213/5TC	3.39	1.42	6.30	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
	254/6TC	3.39	1.42	6.30	8.98	7.250	8.50	4 x 0.59	0.67	0.375	1.625	1.80	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
	284/6TC	3.39	1.42	6.30	11.26	9.000	10.50	4 x 0.59	0.79	0.500	1.875	2.10	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

Section 3: Helical Gear Reducers

KAN & KHN Series - Helical Bevel Gear Reducers



KAN & KHN Series - Helical Gear Reducers: Accessories

Single Output Shafts

Used for mounting into WorldWide Electric hollow bore reducers for the purpose of turning a hollow bore output unit to a shaft output unit. Shaft kits are compatible with the KAN, KHN and FHN Series except when the reducer are used with a B5 flange. Kit includes single output shaft, key, endplate and bolt.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1	6.852	KAN/KHN/FHN37-OPS-S	\$43.09
47	1.25	8.423	KAN/KHN/FHN47-OPS-S	\$60.32
67	1.5	10.433	KAN/KHN/FHN67-OPS-S	\$129.28
77	2	12.444	KAN/KHN/FHN77-OPS-S	\$168.67
87	2.375	14.405	KAN/KHN/FHN87-OPS-S	\$258.55
97	2.75	17.597	KAN/KHN/FHN97-OPS-S	\$397.68

B5 Output Flange

The B5 Output Flange is compatible with the KAN and FHN Series reducer. Kit includes B5 output flange and mounting bolts.



Box Size	Model Number	List Price
37	KAN/FHN37-OPF-B5	\$97.34
47	KAN/FHN47-OPF-B5	\$101.01
67	KAN/FHN67-OPF-B5	\$101.01
77	KAN/FHN77-OPF-B5	\$148.72
87	KAN/FHN87-OPF-B5	\$230.32
97	KAN/FHN97-OPF-B5	\$343.58

B5 Single Output Shafts

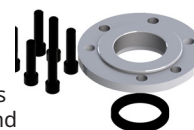
The B5 Single Output Shaft with a B5 Flange is compatible with the KAN and FHN Series reducer. Kit includes single output shaft, key, endplate, and bolt.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1	9.137	KAN/FHN37-OPS-S-B5	\$83.72
47	1.25	11.098	KAN/FHN47-OPS-S-B5	\$121.88
67	1.5	13.938	KAN/FHN67-OPS-S-B5	\$262.25
77	2	16.778	KAN/FHN77-OPS-S-B5	\$339.81
87	2.375	19.519	KAN/FHN87-OPS-S-B5	\$519.56
97	2.75	23.54	KAN/FHN97-OPS-S-B5	\$807.66

B14 Output Flange

The B14 Output Flange is compatible with the KAN and FHN Series reducer. Kit includes B14 output flange, double lip output seal, and mounting bolts.



Box Size	Model Number	Approx. Weight (lbs.)	List Price
37	KAN/FHN37-OPF-B14	1.9	\$47.95
47	KAN/FHN47-OPF-B14	2.3	\$58.75
67	KAN/FHN67-OPF-B14	4.5	\$97.63
77	KAN/FHN77-OPF-B14	7.9	\$127.01
87	KAN/FHN87-OPF-B14	11.7	\$191.38
97	KAN/FHN97-OPF-B14	19.8	\$266.11

KAN Series Torque Arm

The KAN Series Torque Arm is available for box sizes 37-97 and is sold separately from the gearbox. Kit includes torque arm, mounting bolts, and lock washers.



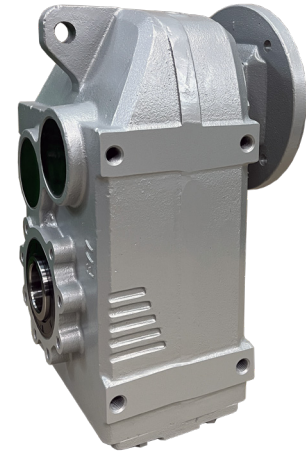
Box Size	Model Number	List Price
37	KAN37-TA	\$49.92
47	KAN47-TA	\$70.48
67	KAN67-TA	\$146.81
77	KAN77-TA	\$176.19
87	KAN87-TA	\$234.91
97	KAN97-TA	\$293.64

FHN Series - Parallel Shaft Helical Gear Reducer

Product Overview

Product Specifications

- » 5:1 - 110:1 ratios
- » Additional ratios via custom order
- » Box sizes 37-97
- » Horsepower range from 3/4 HP to 25 HP
- » Built for high efficiency, high strength and low noise
- » All cast iron housings for increased strength and reliability
- » Gears are precision machined for better rotation and quieter operation
- » Gearbox flanges are designed to accept NEMA C-face electric motors
- » No coupling necessary
- » Drop-in for most major European produced parallel reducer brands
- » Units filled with HD320 mineral oil for an "M1" mounting position
- » Adjust oil level for alternative mounting positions
- » Accessory kits: B5/B14 Output Flanges, CEMA Flanges and Screw Conveyor Shafts



Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM	Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Gross Weight (lbs.)	Model Number	List Price
37	5	5.68	308	0.75	143	660	56C	2	35	FHN37-5/1-H-56C	\$1,168.40
	5	5.68	308	2	382	595	143/5TC	2	40	FHN37-5/1-H-143/5TC	\$1,168.40
	8	8.14	215	0.75	205	735	56C	2	35	FHN37-8/1-H-56C	\$1,168.40
	8	8.14	215	2	548	640	143/5TC	2	40	FHN37-8/1-H-143/5TC	\$1,168.40
	10	10.39	169	0.75	262	800	56C	2	35	FHN37-10/1-H-56C	\$1,168.40
	10	10.39	169	2	699	705	143/5TC	2	40	FHN37-10/1-H-143/5TC	\$1,168.40
	15	16.29	107	0.75	411	905	56C	2	35	FHN37-15/1-H-56C	\$1,168.40
	15	16.29	107	1	548	875	143TC	2	40	FHN37-15/1-H-143TC	\$1,168.40
	25	24.7	71	0.75	623	965	56C	2	35	FHN37-25/1-H-56C	\$1,168.40
	25	24.7	71	1	831	965	143TC	2	40	FHN37-25/1-H-143TC	\$1,168.40
	30	31.69	55	0.75	776	965	56C	3	36	FHN37-30/1-H-56C	\$1,322.50
	30	31.69	55	1	1034	965	143TC	3	42	FHN37-30/1-H-143TC	\$1,322.50
	40	38.31	46	0.75	938	965	56C	3	36	FHN37-40/1-H-56C	\$1,322.50
	40	38.31	46	1	1250	965	143TC	3	42	FHN37-40/1-H-143TC	\$1,322.50
	50	51.7	34	0.75	1266	965	56C	3	36	FHN37-50/1-H-56C	\$1,322.50
	60	58.32	30	0.75	1428	965	56C	3	36	FHN37-60/1-H-56C	\$1,322.50
47	6	5.93	295	2	399	910	143/5TC	2	51	FHN47-6/1-H-143/5TC	\$1,687.28
	7	6.9	253	2	465	945	143/5TC	2	51	FHN47-7/1-H-143/5TC	\$1,687.28
	10	9.89	177	0.75	250	1130	56C	2	46	FHN47-10/1-H-56C	\$1,687.28
	10	9.89	177	1	333	1110	143TC	2	51	FHN47-10/1-H-143TC	\$1,687.28
	15	15.19	115	0.75	383	1295	56C	2	46	FHN47-15/1-H-56C	\$1,687.28
	15	15.19	115	2	1022	1175	143/5TC	2	51	FHN47-15/1-H-143/5TC	\$1,687.28
	20	20.45	86	0.75	516	1330	56C	2	46	FHN47-20/1-H-56C	\$1,687.28
	20	20.45	86	2	1376	1250	143/5TC	2	51	FHN47-20/1-H-143/5TC	\$1,687.28
	30	30.66	57	0.75	750	1330	56C	3	48	FHN47-30/1-H-56C	\$1,917.28
	30	30.66	57	2	2001	1265	143/5TC	3	53	FHN47-30/1-H-143/5TC	\$1,917.28
	40	42.91	41	0.75	1050	1330	56C	3	48	FHN47-40/1-H-56C	\$1,917.28
	40	42.91	41	2	2801	1330	143/5TC	3	53	FHN47-40/1-H-143/5TC	\$1,917.28
	50	50.24	35	0.75	1230	1330	56C	3	48	FHN47-50/1-H-56C	\$1,917.28
	50	50.24	35	2	3279	1330	143/5TC	3	53	FHN47-50/1-H-143/5TC	\$1,917.28
	60	60.83	29	0.75	1489	1330	56C	3	48	FHN47-60/1-H-56C	\$1,917.28
	60	60.83	29	1	1985	1330	143TC	3	53	FHN47-60/1-H-143TC	\$1,917.28
	70	71.21	25	0.75	1743	1330	56C	3	48	FHN47-70/1-H-56C	\$1,917.28
	70	71.21	25	1	2324	1330	143TC	3	53	FHN47-70/1-H-143TC	\$1,917.28
	85	85.41	20	0.75	2091	1330	56C	3	48	FHN47-85/1-H-56C	\$1,917.28

Section 3: Helical Gear Reducers

FHN Series - Helical Bevel Gear Reducers



FHN Series - Parallel Shaft Helical Gear Reducer

Product Overview (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Gross Weight (lbs.)	Model Number	List Price
67	10	11.31	155	0.75	285	2310	56C	2	81	FHN67-10/1-H-56C	\$2,142.68
	10	11.31	155	2	761	2310	143/5TC	2	85	FHN67-10/1-H-143/5TC	\$2,142.68
	10	11.31	155	5	1903	2310	182/4TC	2	93	FHN67-10/1-H-182/4TC	\$2,142.68
	15	14.46	121	0.75	365	2310	56C	2	81	FHN67-15/1-H-56C	\$2,142.68
	15	14.46	121	2	973	2310	143/5TC	2	85	FHN67-15/1-H-143/5TC	\$2,142.68
	15	14.46	121	5	2432	2310	182/4TC	2	93	FHN67-15/1-H-182/4TC	\$2,142.68
	20	18.1	97	0.75	457	2310	56C	2	81	FHN67-20/1-H-56C	\$2,142.68
	20	18.1	97	2	1218	2310	143/5TC	2	85	FHN67-20/1-H-143/5TC	\$2,142.68
	20	18.1	97	5	3044	2310	182/4TC	2	93	FHN67-20/1-H-182/4TC	\$2,142.68
	30	30.15	58	0.75	738	2310	56C	3	83	FHN67-30/1-H-56C	\$2,402.12
	30	30.15	58	2	1968	2310	143/5TC	3	87	FHN67-30/1-H-143/5TC	\$2,402.12
	30	30.15	58	5	4921	2310	182/4TC	3	96	FHN67-30/1-H-182/4TC	\$2,402.12
	40	38.16	46	0.75	934	2310	56C	3	83	FHN67-40/1-H-56C	\$2,402.12
	40	38.16	46	2	2491	2310	143/5TC	3	87	FHN67-40/1-H-143/5TC	\$2,402.12
	40	38.16	46	3	3736	2310	182TC	3	96	FHN67-40/1-H-182TC	\$2,402.12
	45	44.2	40	0.75	1082	2310	56C	3	83	FHN67-45/1-H-56C	\$2,402.12
	45	44.2	40	2	2885	2310	143/5TC	3	87	FHN67-45/1-H-143/5TC	\$2,402.12
	45	44.2	40	3	4328	2310	182TC	3	96	FHN67-45/1-H-182TC	\$2,402.12
	65	64.95	27	0.75	1590	2310	56C	3	83	FHN67-65/1-H-56C	\$2,402.12
	65	64.95	27	2	4239	2310	143/5TC	3	87	FHN67-65/1-H-143/5TC	\$2,402.12
	90	89.11	20	0.75	2181	2310	56C	3	83	FHN67-90/1-H-56C	\$2,402.12
	90	89.11	20	2	5817	2310	143/5TC	3	87	FHN67-90/1-H-143/5TC	\$2,402.12
	110	109.55	16	0.75	2681	2310	56C	3	83	FHN67-110/1-H-56C	\$2,402.12
	110	109.55	16	1	3575	2310	143TC	3	87	FHN67-110/1-H-143TC	\$2,402.12
77	7.5	7.4	237	2	498	3450	143/5TC	2	137	FHN77-7.5/1-H-143/5TC	\$2,586.58
	7.5	7.4	237	5	1244	3360	182/4TC	2	144	FHN77-7.5/1-H-182/4TC	\$2,586.58
	7.5	7.4	237	10	1954	3030	213/5TC	2	157	FHN77-7.5/1-H-213/5TC	\$2,586.58
	10	9.07	193	2	610	3525	143/5TC	2	137	FHN77-10/1-H-143/5TC	\$2,586.58
	10	9.07	193	5	1525	3525	182/4TC	2	144	FHN77-10/1-H-182/4TC	\$2,586.58
	10	9.07	193	10	3051	3425	213/5TC	2	157	FHN77-10/1-H-213/5TC	\$2,586.58
	15	15.64	112	5	2631	3525	182/4TC	2	144	FHN77-15/1-H-182/4TC	\$2,586.58
	15	15.64	112	10	5262	3525	213/5TC	2	157	FHN77-15/1-H-213/5TC	\$2,586.58
	20	21.49	81	2	1446	3525	143/5TC	2	137	FHN77-20/1-H-143/5TC	\$2,586.58
	20	21.49	81	5	3615	3525	182/4TC	2	144	FHN77-20/1-H-182/4TC	\$2,586.58
	30	31.25	56	2	2040	3525	143/5TC	3	140	FHN77-30/1-H-143/5TC	\$2,897.08
	30	31.25	56	5	5099	3525	182/4TC	3	147	FHN77-30/1-H-182/4TC	\$2,897.08
	30	31.25	56	10	10199	3525	213/5TC	3	160	FHN77-30/1-H-213/5TC	\$2,897.08
	40	41.67	9.74	2	2720	3525	143/5TC	3	140	FHN77-40/1-H-143/5TC	\$2,897.08
	40	41.67	9.74	5	6799	3525	182/4TC	3	147	FHN77-40/1-H-182/4TC	\$2,897.08
	40	41.67	9.74	7.5	10199	3525	213TC	3	160	FHN77-40/1-H-213TC	\$2,897.08
	50	49.04	8.3	2	3201	3525	143/5TC	3	140	FHN77-50/1-H-143/5TC	\$2,897.08
	50	49.04	8.3	5	8002	3525	182/4TC	3	147	FHN77-50/1-H-182/4TC	\$2,897.08
	50	49.04	8.3	7.5	12003	3525	213TC	3	160	FHN77-50/1-H-213TC	\$2,897.08
	60	59.38	6.84	2	3876	3525	143/5TC	3	140	FHN77-60/1-H-143/5TC	\$2,897.08
	60	59.38	6.84	5	9689	3525	182/4TC	3	147	FHN77-60/1-H-182/4TC	\$2,897.08
	80	83.63	4.85	2	5459	3525	145TC	3	140	FHN77-80/1-H-145TC	\$2,897.08
	80	83.63	4.85	3	8189	3525	182TC	3	147	FHN77-80/1-H-182TC	\$2,897.08
	95	93.9	4.33	2	6129	3525	143/5TC	3	140	FHN77-95/1-H-143/5TC	\$2,897.08
	95	93.9	4.33	3	9194	3525	182TC	3	147	FHN77-95/1-H-182TC	\$2,897.08

Section 3: Helical Gear Reducers

FHN Series - Helical Bevel Gear Reducers



FHN Series - Parallel Shaft Helical Gear Reducer

Product Overview (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Gros. Weight (lbs.)	Model Number	List Price
87	7.5	7.12	246	5	1197	3265	182/4TC	2	235	FHN87-7.5/1-H-182/4TC	\$3,787.18
	7.5	7.12	246	10	2395	3135	213/5TC	2	248	FHN87-7.5/1-H-213/5TC	\$4,090.15
	7.5	7.12	246	20	4790	2875	254/6TC	2	278	FHN87-7.5/1-H-254/6TC	\$4,090.15
	10	9.76	179	5	1642	3585	182/4TC	2	235	FHN87-10/1-H-182/4TC	\$4,090.15
	10	9.76	179	10	3284	3435	213/5TC	2	248	FHN87-10/1-H-213/5TC	\$4,090.15
	10	9.76	179	20	6569	3140	254/6TC	2	278	FHN87-10/1-H-254/6TC	\$4,090.15
	15	14.76	119	5	2483	4005	182/4TC	2	235	FHN87-15/1-H-182/4TC	\$4,090.15
	15	14.76	119	10	4966	3775	213/5TC	2	248	FHN87-15/1-H-213/5TC	\$4,090.15
	15	14.76	119	20	9932	3325	254/6TC	2	278	FHN87-15/1-H-254/6TC	\$4,090.15
	20	19.61	89	5	3200	4255	182/4TC	3	235	FHN87-20/1-H-182/4TC	\$4,090.15
	20	19.61	89	10	6400	3910	213/5TC	3	248	FHN87-20/1-H-213/5TC	\$4,090.15
	20	19.61	89	20	12801	3210	254/6TC	3	278	FHN87-20/1-H-254/6TC	\$4,090.15
	30	28.41	62	5	4779	4445	182/4TC	2	235	FHN87-30/1-H-182/4TC	\$4,090.15
	45	46.47	38	2	3033	4445	145TC	3	232	FHN87-45/1-H-145TC	\$4,581.98
	45	46.47	38	5	7584	4445	182/4TC	3	241	FHN87-45/1-H-182/4TC	\$4,581.98
	50	53.48	33	2	3491	4445	145TC	3	232	FHN87-50/1-H-145TC	\$4,581.98
	50	53.48	33	3	5237	4445	182TC	3	241	FHN87-50/1-H-182TC	\$4,581.98
	60	61.76	28	5	10078	4445	182/4TC	3	241	FHN87-60/1-H-182/4TC	\$4,581.98
	60	61.76	28	10	20157	4445	213/5TC	3	255	FHN87-60/1-H-213/5TC	\$4,581.98
	70	70.73	25	5	11543	4445	182/4TC	3	241	FHN87-70/1-H-182/4TC	\$4,581.98
	70	70.73	25	10	23085	4445	213/5TC	3	255	FHN87-70/1-H-213/5TC	\$4,581.98
	80	78.67	22	5	12838	4445	182/4TC	3	241	FHN87-80/1-H-182/4TC	\$4,581.98
	80	78.67	22	10	25676	4445	213/5TC	3	255	FHN87-80/1-H-213/5TC	\$4,581.98
	110	108.77	16	5	17749	4445	182/4TC	3	241	FHN87-110/1-H-182/4TC	\$4,581.98
97	7	6.99	250	10	2352	4140	213/5TC	2	426	FHN97-7/1-H-213/5TC	\$5,849.57
	7	6.99	250	20	4705	3920	254/6TC	2	459	FHN97-7/1-H-254/6TC	\$5,849.57
	7	6.99	250	25	5881	3810	284TC	2	464	FHN97-7/1-H-284TC	\$5,849.57
	10	9.09	193	10	3058	4430	213/5TC	2	426	FHN97-10/1-H-213/5TC	\$5,849.57
	10	9.09	193	20	6116	4145	254/6TC	2	459	FHN97-10/1-H-254/6TC	\$5,849.57
	10	9.09	193	25	7645	4000	284TC	2	464	FHN97-10/1-H-284TC	\$5,849.57
	15	13.86	126	10	4663	4990	213/5TC	2	426	FHN97-15/1-H-213/5TC	\$5,849.57
	15	13.86	126	20	9326	4625	254/6TC	2	459	FHN97-15/1-H-254/6TC	\$5,849.57
	15	13.86	126	25	11657	4445	284TC	2	464	FHN97-15/1-H-284TC	\$5,849.57
	20	22.72	77	5	3823	5915	182/4TC	2	415	FHN97-20/1-H-182/4TC	\$5,849.57
	20	22.72	77	10	7646	5615	213/5TC	2	426	FHN97-20/1-H-213/5TC	\$5,849.57
	20	22.72	77	20	15292	5015	254/6TC	2	459	FHN97-20/1-H-254/6TC	\$5,849.57
	30	32.38	54	5	5448	6485	182/4TC	2	415	FHN97-30/1-H-182/4TC	\$5,849.57
	30	32.38	54	10	10895	6055	213/5TC	2	426	FHN97-30/1-H-213/5TC	\$5,849.57
	45	45.69	38	5	7455	6710	182/4TC	3	428	FHN97-45/1-H-182/4TC	\$6,547.08
	45	45.69	38	10	14911	6495	213/5TC	3	439	FHN97-45/1-H-213/5TC	\$6,547.08
	45	45.69	38	20	29822	5325	254/6TC	3	472	FHN97-45/1-H-254/6TC	\$6,547.08
	50	50.96	34	5	8316	6710	182/4TC	3	428	FHN97-50/1-H-182/4TC	\$6,547.08
	50	50.96	34	10	16632	6615	213/5TC	3	439	FHN97-50/1-H-213/5TC	\$6,547.08
	50	50.96	34	15	24947	5960	254TC	3	472	FHN97-50/1-H-254TC	\$6,547.08
	65	64.52	27	5	10528	6710	182/4TC	3	428	FHN97-65/1-H-182/4TC	\$6,547.08
	65	64.52	27	10	21057	6710	213/5TC	3	439	FHN97-65/1-H-213/5TC	\$6,547.08
	65	64.52	27	15	31585	6020	254TC	3	472	FHN97-65/1-H-254TC	\$6,547.08
	80	77.93	22	10	25434	6710	213/5TC	3	439	FHN97-80/1-H-213/5TC	\$6,547.08
	100	98.66	18	10	32201	6710	213/5TC	3	439	FHN97-100/1-H-213/5TC	\$6,547.08

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FHN SERIES - HELICAL
BEVEL GEAR REDUCERS

Section 3: Helical Gear Reducers

FHN Series - Helical Bevel Gear Reducers



FHN Series - Parallel Shaft Helical Gear Reducers

Mechanical Ratings

3

FHN SERIES - HELICAL
BEVEL GEAR REDUCERS

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	Stages	56C			143TC			145TC			182TC			184TC		
							HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
37	5	5.68	308	5.25	50	2	0.75	143	660	1	191	650	2	382	595						
	8	8.14	215	4.22	72	2	0.75	205	735	1	274	715	2	548	640						
	10	10.39	169	5.07	92	2	0.75	262	800	1	349	780	2	699	705						
	15	16.29	107	3.23	144	2	0.75	411	905	1	548	875									
	25	24.7	71	2.13	219	2	0.75	623	965	1	831	965									
	30	31.69	55	1.71	280	3	0.75	776	965	1	1034	965									
	40	38.31	46	1.41	339	3	0.75	938	965	1	1250	965									
	50	51.7	34	1.05	458	3	0.75	1266	965	1	1687	965									
47	60	58.32	30	0.93	516	3	0.75	1428	965												
	6	5.93	295	8.34	1662	2	0.75	150	965	1	200	955	2	399	910						
	7	6.9	253	7.59	1766	2	0.75	174	1015	1	232	1000	2	465	945						
	10	9.89	177	6.13	2039	2	0.75	250	1130	1	333	1110									
	15	15.19	115	6.46	3306	2	0.75	383	1295	1	511	1275	2	1022	1175						
	20	20.45	86	4.78	3291	2	0.75	516	1330	1	688	1330	2	1376	1250						
	30	30.66	57	3.2	3195	3	0.75	750	1330	1	1001	1330	2	2001	1265						
	40	42.91	41	2.53	3538	3	0.75	1050	1330	1	1401	1330	2	2801	1330						
67	50	50.24	35	2.16	3540	3	0.75	1230	1330	1	1640	1330	2	3279	1330						
	60	60.83	29	1.78	3540	3	0.75	1489	1330	1	1985	1330									
	70	71.21	25	1.52	3540	3	0.75	1743	1330	1	2324	1330									
	85	85.41	20	1.27	3540	3	0.75	2091	1330												
	10	11.31	155	14.57	5558	2	0.75	285	2310	1	381	2310	2	761	2310	3	1142	2310	5	1903	2310
	15	14.46	121	11.36	5529	2	0.75	365	2310	1	486	2310	2	973	2310	3	1459	2310	5	2432	2310
	20	18.1	97	9.03	5507	2	0.75	457	2310	1	609	2310	2	1218	2310	3	1826	2310	5	3044	2310
	30	30.15	58	5.62	5538	3	0.75	738	2310	1	984	2310	2	1968	2310	3	2952	2310	5	4921	2310
77	40	38.16	46	4.65	5748	3	0.75	934	2310	1	1245	2310	2	2491	2310	3	3736	2310			
	45	44.2	40	4.12	5940	3	0.75	1082	2310	1	1443	2310	2	2885	2310	3	4328	2310			
	65	64.95	27	3.02	6394	3	0.75	1590	2310	1	2120	2310	2	4239	2310						
	90	89.11	20	2.33	6790	3	0.75	2181	2310	1	2908	2310	2	5817	2310						
	110	109.55	16	1.97	7056	3	0.75	2681	2310	1	3575	2310									
	7.5	7.4	237	42.92	10682	2				1	249	3480	2	498	3450	3	747	3420	5	1244	3360
	10	9.07	193	43.49	13276	2				1	305	3525	2	610	3525	3	915	3525	5	1525	3525
	15	15.64	112	25.21	13276	2				1	526	3525	2	1052	3525	3	1579	3525	5	2631	3525
87	20	21.49	81	18.36	13276	2				1	723	3525	2	1446	3525	3	2169	3525	5	3615	3525
	30	31.25	56	13.01	13276	3				1	1020	3525	2	2040	3525	3	3060	3525	5	5099	3525
	40	41.67	42	9.74	13276	3				1	1360	3525	2	2720	3525	3	4080	3525	5	6799	3525
	50	49.04	36	8.3	13276	3				1	1600	3525	2	3201	3525	3	4801	3525	5	8002	3525
	60	59.38	29	6.84	13276	3				1	1938	3525	2	3876	3525	3	5813	3525	5	9689	3525
	80	83.63	21	4.85	13276	3				1	2730	3525	2	5459	3525	3	8189	3525			
	95	93.9	19	4.33	13276	3				1	3065	3525	2	6129	3525	3	9194	3525			
	7	7.12	246	79.7	19123	2							2	479	3345	3	718	3320	5	1197	3265
97	10	9.76	179	66.4	21850	2							2	657	3675	3	985	3645	5	1642	3585
	15	14.76	119	43.5	21620	2							2	993	4140	3	1490	4095	5	2483	4005
	20	19.61	89	29.2	18734	3							2	1280	4445	3	1920	4395	5	3200	4255
	30	28.41	62	23	22002	2							2	1912	4445	3	2867	4445	5	4779	4445
	45	46.47	38	12.1	18386	3							2	3033	4445	3	4550	4445	5	7584	4445
	50	53.48	33	10.6	18516	3							2	3491	4445	3	5237	4445			
	60	61.76	28	12.5	25363	3							2	4031	4445	3	6047	4445	5	10078	4445
	70	70.73	25	11.3	26019	3							2	4617	4445	3	6926	4445	5	11543	4445
97	80	78.67	22	10.3	26552	3							2	5135	4445	3	7703	4445	5	12838	4445
	110	108.77	16	7.5	26552	3							2	7100	4445	3	10649	4445	5	17749	4445
	7	6.99	250	77.07	18138	2										3	706	4295	5	1176	4255
	10	9.09	193	78.62	24027	2										3	917	4635	5	1529	4575
	15	13.86	126	64.02	29820	2										3	1399	5250	5	2331	5175
	20	22.72	77	38.95	29784	2										3	2294	6035	5	3823	5915
	30	32.38	54	29.14	31755	2										3	3269	6655	5	5448	6485
	45	45.69	38	22.66	33838	3										3	4473	6710	5	7455	6710
97	50	50.96	34	20.74	34522	3										3	4989	6710	5	8316	6710
	65	64.52	27	17.11	36064	3										3	6317	6710	5	10528	6710
	80	77.93	22	14.69	37328	3										3	7630	6710	5	12717	6710
	100	98.66	18	11.84	38058	3										3	9660	6710	5	16100	6710

Section 3: Helical Gear Reducers

FHN Series - Helical Bevel Gear Reducers



FHN Series - Parallel Shaft Helical Gear Reducers

Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Max Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	213TC			215TC			254TC			256TC			284TC			286TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
77	7.5	7.4	237	42.92	10682	2		7.5	1867	3285	10	2489	3210												
	10	9.07	193	43.49	13276	2		7.5	2288	3500	10	3051	3425												
	15	15.64	112	25.21	13276	2		7.5	3947	3525	10	5262	3525												
	20	21.49	81	18.36	13276	2																			
	30	31.25	56	13.01	13276	3		7.5	7649	3525	10	10199	3525												
	40	41.67	42	9.74	13276	3		7.5	10199	3525															
	50	49.04	36	8.3	13276	3		7.5	12003	3525															
	60	59.38	29	6.84	13276	3																			
	80	83.63	21	4.85	13276	3																			
	95	93.9	19	4.33	13276	3																			
87	7	7.12	246	79.7	19123	2	15	7.5	1796	3200	10	2395	3135	15	3592	3005	20	4790	2875						
	10	9.76	179	66.4	21850	2	15	7.5	2463	3510	10	3284	3435	15	4927	3285	20	6569	3140						
	15	14.76	119	43.5	21620	2	15	7.5	3725	3890	10	4966	3775	15	7449	3550	20	9932	3325						
	20	19.61	89	29.2	18734	3	15	7.5	4800	4080	10	6400	3910	15	9600	3560	20	12801	3210						
	30	28.41	62	23	22002	2																			
	45	46.47	38	12.1	18386	3																			
	50	53.48	33	10.6	18516	3																			
	60	61.76	28	12.5	25363	3		7.5	15118	4445	10	20157	4445												
	70	70.73	25	11.3	26019	3		7.5	17314	4445	10	23085	4445												
	80	78.67	22	10.3	26552	3		7.5	19257	4445	10	25676	4445												
	110	108.77	16	7.5	26552	3																			
97	7	6.99	250	77.07	18138	2	15	7.5	1764	4195	10	2352	4140	15	3528	4030	20	4705	3920	25	5881	3810			
	10	9.09	193	78.62	24027	2	15	7.5	2293	4505	10	3058	4430	15	4587	4290	20	6116	4145	25	7645	4000			
	15	13.86	126	64.02	29820	2	15	7.5	3497	5085	10	4663	4990	15	6994	4810	20	9326	4625	25	11657	4445			
	20	22.72	77	38.95	29784	2	15	7.5	5735	5765	10	7646	5615	15	11469	5315	20	15292	5015						
	30	32.38	54	29.14	31755	2		7.5	8172	6270	10	10895	6055												
	45	45.69	38	22.66	33838	3	15	7.5	11183	6710	10	14911	6495	15	22366	5910	20	29822	5325						
	50	50.96	34	20.74	34522	3	15	7.5	12474	6710	10	16632	6615	15	24947	5960									
	65	64.52	27	17.11	36064	3	15	7.5	15793	6710	10	21057	6710	15	31585	6020									
	80	77.93	22	14.69	37328	3		7.5	19075	6710	10	25434	6710												
	100	98.66	18	11.84	38058	3		7.5	24151	6710	10	32201	6710												

3

FHN SERIES - HELICAL
BEVEL GEAR REDUCERS

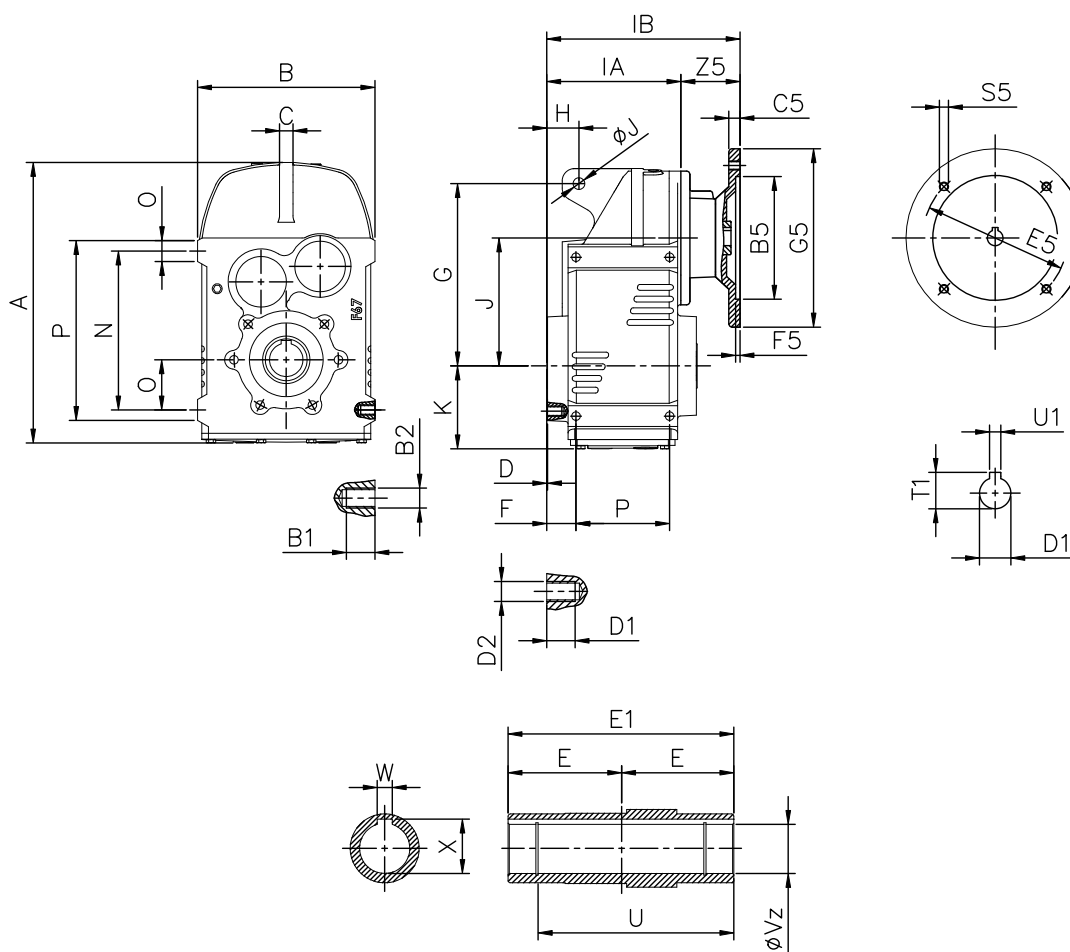
Section 3: Helical Gear Reducers

FHN Series - Helical Bevel Gear Reducers



FHN Series - Parallel Shaft Helical Gear Reducers

Dimensions

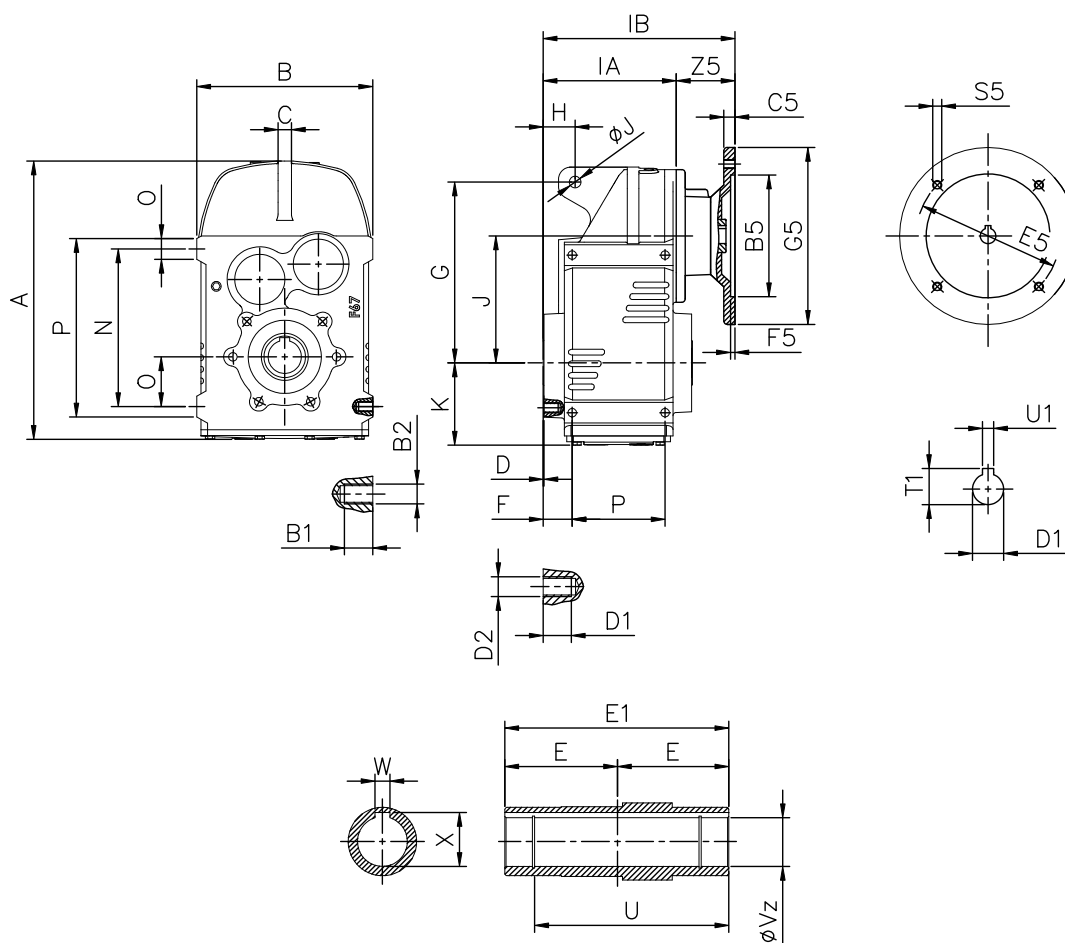


All listed dimensions in inches

Box Size	NEMA Frame	A	B	B1	B2	C	D	D1	D2	E	E1	F	G	H	IA	IB	J	K	L	M	N	O	P	Z5	F5
37	56C	9.92	6.50	0.43	M8	0.47	0.06	0.43	M8	2.36	4.72	0.85	6.22	1.20	4.35	6.75	4.41	2.89	0.79	5.31	4.53	1.22	3.03	2.40	0.16
	143/5TC	9.92	6.50	0.43	M8	0.47	0.06	0.43	M8	2.36	4.72	0.85	6.22	1.20	4.35	7.15	4.41	2.89	0.79	5.31	4.53	1.22	3.03	2.80	0.20
47	56C	10.79	7.09	0.59	M8	0.47	0.04	0.43	M8	2.95	5.91	1.16	6.69	1.26	5.18	7.58	4.80	3.29	0.79	6.50	5.71	1.69	3.66	2.40	0.16
	143/5TC	10.79	7.09	0.59	M8	0.47	0.04	0.43	M8	2.95	5.91	1.16	6.69	1.26	5.18	7.97	4.80	3.29	0.79	6.50	5.71	1.69	3.66	2.80	0.20
67	56C	13.23	8.35	0.67	M12	0.63	0.04	0.67	M12	3.54	7.09	1.38	8.58	1.52	6.32	8.46	6.03	3.94	0.98	8.46	7.48	2.36	4.41	2.15	0.16
	143/5TC	13.23	8.35	0.67	M12	0.63	0.04	0.67	M12	3.54	7.09	1.38	8.58	1.52	6.32	8.86	6.03	3.94	0.98	8.46	7.48	2.36	4.41	2.54	0.20
	182/4TC	13.23	8.35	0.67	M12	0.63	0.04	0.67	M12	3.54	7.09	1.38	8.58	1.52	6.32	9.59	6.03	3.94	0.98	8.46	7.48	2.36	4.41	3.27	0.20
77	143/5TC	17.01	10.63	1.02	M12	0.79	0.16	0.67	M12	4.13	8.27	1.44	10.87	1.48	7.46	9.78	7.87	5.08	1.38	10.83	9.45	2.76	5.51	3.05	0.20
	182/4TC	17.01	10.63	1.02	M12	0.79	0.16	0.67	M12	4.13	8.27	1.44	10.87	1.48	7.46	10.51	7.87	5.08	1.38	10.83	9.45	2.76	5.51	5.31	0.20
	213/5TC	17.01	10.63	1.02	M12	0.79	0.16	0.67	M12	4.13	8.27	1.44	10.87	1.48	7.46	12.78	7.87	5.08	1.38	10.83	9.45	2.76	5.51	5.31	0.20
87	143/5TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	10.93	8.92	6.69	1.57	13.78	12.20	3.94	6.50	1.95	0.20
	182/4TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	11.65	8.92	6.69	1.57	13.78	12.20	3.94	6.50	2.68	0.20
	213/5TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	13.92	8.92	6.69	1.57	13.78	12.20	3.94	6.50	4.94	0.20
	254/6TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	14.90	8.92	6.69	1.57	13.78	12.20	3.94	6.50	5.93	0.20
97	182/4TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	13.39	10.63	7.64	1.97	16.14	13.78	4.72	8.07	2.52	0.20
	213/5TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	15.49	10.63	7.64	1.97	16.14	13.78	4.72	8.07	4.63	0.20
	254/6TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	16.48	10.63	7.64	1.97	16.14	13.78	4.72	8.07	5.61	0.20
	284/6TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	16.83	10.63	7.64	1.97	16.14	13.78	4.72	8.07	5.96	0.20

FHN Series - Parallel Shaft Helical Gear Reducers

Dimensions



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FHN SERIES - HELICAL
BEVEL GEAR REDUCERS

All listed dimensions in inches														
Box Size	NEMA Frame	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)				BORE TOLERANCE
		B5	C5	E5	G5	S5	U1	D1	T1	U	V	W	X	Z
37	56C	4.50	0.39	5.88	6.50	0.41	0.19	0.63	0.71	4.13	1.25	0.25	1.37	+0.002 / +0.001
	143/5TC	4.50	0.47	5.88	6.50	0.41	0.19	0.88	0.96	4.13	1.25	0.25	1.37	+0.002 / +0.001
47	56C	4.50	0.39	5.88	6.50	0.41	0.19	0.63	0.71	5.20	1.38	0.31	1.52	+0.002 / +0.001
	143/5TC	4.50	0.47	5.88	6.50	0.41	0.19	0.88	0.96	5.20	1.38	0.31	1.52	+0.002 / +0.001
67	56C	4.50	0.39	5.88	6.50	0.41	0.19	0.63	0.71	5.59	1.50	0.38	1.67	+0.002 / +0.001
	143/5TC	4.50	0.47	5.88	6.50	0.41	0.19	0.88	0.96	6.14	1.50	0.38	1.67	+0.002 / +0.001
	182/4TC	8.50	0.67	7.25	9.00	0.55	0.25	1.13	1.24	6.14	1.50	0.38	1.67	+0.002 / +0.001
77	143/5TC	4.50	0.47	5.88	6.50	0.41	0.19	0.88	0.96	7.20	2.00	0.50	2.22	+0.002 / +0.001
	182/4TC	8.50	0.67	7.25	9.00	0.55	0.25	1.13	1.24	7.20	2.00	0.50	2.22	+0.002 / +0.001
	213/5TC	8.50	0.67	7.25	9.00	0.55	0.31	1.38	1.52	7.20	2.00	0.50	2.22	+0.002 / +0.001
87	143/5TC	4.50	0.47	5.88	6.50	0.41	0.19	0.88	0.96	8.27	2.38	0.63	2.65	+0.002 / +0.001
	182/4TC	8.50	0.67	7.25	9.00	0.55	0.25	1.13	1.24	8.27	2.38	0.63	2.65	+0.002 / +0.001
	213/5TC	8.50	0.67	7.25	9.00	0.55	0.31	1.38	1.52	8.27	2.38	0.63	2.65	+0.002 / +0.001
	254/6TC	8.50	0.79	7.25	10.00	0.55	0.38	1.63	1.80	8.27	2.38	0.63	2.65	+0.002 / +0.001
97	182/4TC	8.50	0.67	7.25	9.00	0.55	0.25	1.13	1.24	10.63	2.75	0.63	3.03	+0.002 / +0.001
	213/5TC	8.50	0.67	7.25	9.00	0.55	0.31	1.38	1.52	10.63	2.75	0.63	3.03	+0.002 / +0.001
	254/6TC	8.50	0.79	7.25	10.00	0.55	0.375	1.625	1.80	10.63	2.75	0.63	3.03	+0.002 / +0.001
	284/6TC	10.50	0.79	9.00	11.26	0.59	0.50	1.88	2.10	10.63	2.75	0.63	3.03	+0.002 / +0.001

Section 3: Helical Gear Reducers

FHN Series - Helical Bevel Gear Reducers



FHN Series with Power Lock

Product Overview

Product Specifications

- » FHN Series Parallel Shaft Helical Reducers are available with power lock bushings for more secure connections.
- » The power lock assembly achieves a non-positive connection between the driven shaft and the hollow shaft in the gear unit.
- » Available on units with frame sizes 87 or 97
- » All products features (aside from powerlock bushing) and mechanical ratings are consistent with the standard design FHN Reducers.

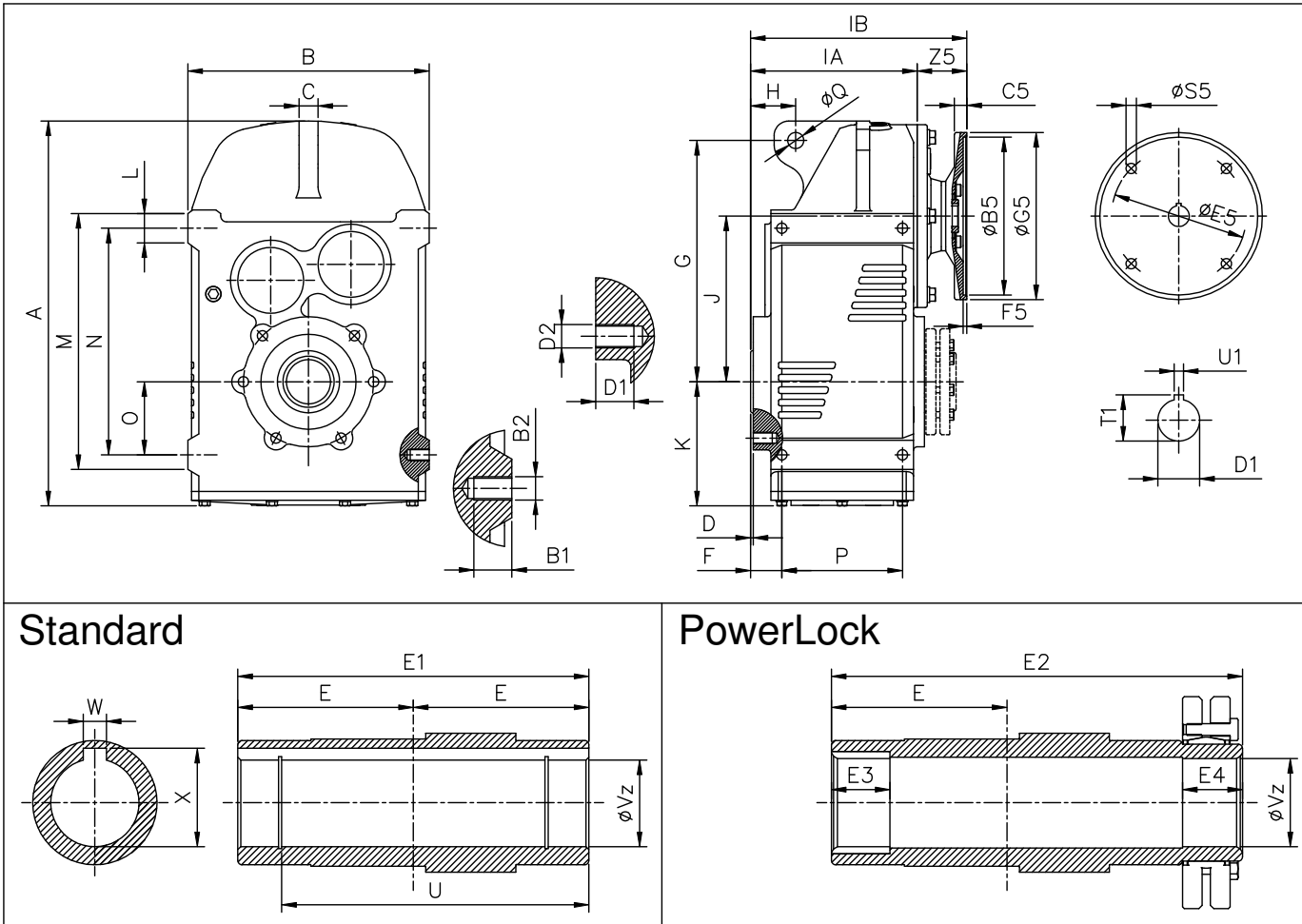


Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Gross Weight (lbs.)	Model Number	List Price
87	7.5	7.12	246	5	1197	3265	182/4TC	2	240.4	FHN87-7.5/1-H-182/4TC-PL	\$4,503.99
	7.5	7.12	246	10	2395	3135	213/5TC	2	253.4	FHN87-7.5/1-H-213/5TC-PL	\$4,503.99
	7.5	7.12	246	20	4790	2875	254/6TC	2	283.4	FHN87-7.5/1-H-254/6TC-PL	\$4,503.99
	10	9.76	179	5	1642	3585	182/4TC	2	240.4	FHN87-10/1-H-182/4TC-PL	\$4,503.99
	10	9.76	179	10	3284	3435	213/5TC	2	253.4	FHN87-10/1-H-213/5TC-PL	\$4,503.99
	10	9.76	179	20	6569	3140	254/6TC	2	283.4	FHN87-10/1-H-254/6TC-PL	\$4,503.99
	15	14.76	119	5	2483	4005	182/4TC	2	240.4	FHN87-15/1-H-182/4TC-PL	\$4,503.99
	15	14.76	119	10	4966	3775	213/5TC	2	253.4	FHN87-15/1-H-213/5TC-PL	\$4,503.99
	15	14.76	119	20	9932	3325	254/6TC	2	283.4	FHN87-15/1-H-254/6TC-PL	\$4,503.99
	20	19.61	89	5	3200	4255	182/4TC	2	246.4	FHN87-20/1-H-182/4TC-PL	\$4,503.99
	20	19.61	89	10	6400	3910	213/5TC	2	260.4	FHN87-20/1-H-213/5TC-PL	\$4,503.99
	20	19.61	89	20	12801	3210	254/6TC	2	289.4	FHN87-20/1-H-254/6TC-PL	\$4,503.99
	30	28.41	62	5	4779	4445	182/4TC	2	246.4	FHN87-30/1-H-182/4TC-PL	\$4,503.99
	45	46.67	38	2	3033	4445	145TC	3	237.4	FHN87-45/1-H-145TC-PL	\$4,995.82
	45	46.67	38	5	7584	4445	182/4TC	3	246.4	FHN87-45/1-H-182/4TC-PL	\$4,995.82
	50	53.48	33	2	3491	4445	145TC	3	237.4	FHN87-50/1-H-145TC-PL	\$4,995.82
	50	53.48	33	3	5237	4445	182TC	3	246.4	FHN87-50/1-H-182TC-PL	\$4,995.82
	60	61.76	28	5	10078	4445	182/4TC	3	246.4	FHN87-60/1-H-182/4TC-PL	\$4,995.82
	60	61.76	28	10	20157	4445	213/5TC	3	260.4	FHN87-60/1-H-213/5TC-PL	\$4,995.82
	70	70.73	25	5	11543	4445	182/4TC	3	246.4	FHN87-70/1-H-182/4TC-PL	\$4,995.82
	70	70.73	25	10	23085	4445	213/5TC	3	260.4	FHN87-70/1-H-213/5TC-PL	\$4,995.82
	80	78.67	22	5	12838	4445	182/4TC	3	246.4	FHN87-80/1-H-182/4TC-PL	\$4,995.82
	80	78.67	22	10	25676	4445	213/5TC	3	260.4	FHN87-80/1-H-213/5TC-PL	\$4,995.82
	110	108.77	16	5	17749	4445	182/4TC	3	246.4	FHN87-110/1-H-182/4TC-PL	\$4,995.82
97	7	6.99	250	10	2352	4140	213/5TC	2	435	FHN97-7/1-H-213/5TC-PL	\$6,316.07
	7	6.99	250	20	4705	3920	254/6TC	2	468	FHN97-7/1-H-254/6TC-PL	\$6,316.07
	7	6.99	250	25	5881	3810	284TC	2	473	FHN97-7/1-H-284TC-PL	\$6,316.07
	10	9.09	193	10	3058	4430	213/5TC	2	435	FHN97-10/1-H-213/5TC-PL	\$6,316.07
	10	9.09	193	20	6116	4145	254/6TC	2	468	FHN97-10/1-H-254/6TC-PL	\$6,316.07
	10	9.09	193	25	7645	4000	284TC	2	473	FHN97-10/1-H-284TC-PL	\$6,316.07
	15	13.86	126	10	4663	4990	213/5TC	2	435	FHN97-15/1-H-213/5TC-PL	\$6,316.07
	15	13.86	126	20	9326	4625	254/6TC	2	468	FHN97-15/1-H-254/6TC-PL	\$6,316.07
	15	13.86	126	25	11657	4445	284TC	2	473	FHN97-15/1-H-284TC-PL	\$6,316.07
	20	22.72	77	5	3823	5915	182/4TC	2	424	FHN97-20/1-H-182/4TC-PL	\$6,316.07
	20	22.72	77	10	7646	5615	213/5TC	2	435	FHN97-20/1-H-213/5TC-PL	\$6,316.07
	20	22.72	77	20	15292	5015	254/6TC	2	468	FHN97-20/1-H-254/6TC-PL	\$6,316.07
	30	32.38	54	5	5448	6485	182/4TC	2	424	FHN97-30/1-H-182/4TC-PL	\$6,316.07
	30	32.38	54	10	10895	6055	213/5TC	2	435	FHN97-30/1-H-213/5TC-PL	\$6,316.07
	45	45.69	38	5	7455	6710	182/4TC	3	437	FHN97-45/1-H-182/4TC-PL	\$7,013.57
	45	45.69	38	10	14911	6495	213/5TC	3	448	FHN97-45/1-H-213/5TC-PL	\$7,013.57
	45	45.69	38	20	29822	5325	254/6TC	3	481	FHN97-45/1-H-254/6TC-PL	\$7,013.57
	50	50.96	34	5	8316	6710	182/4TC	3	437	FHN97-50/1-H-182/4TC-PL	\$7,013.57
	50	50.96	34	10	16632	6615	213/5TC	3	448	FHN97-50/1-H-213/5TC-PL	\$7,013.57
	50	50.96	34	15	24947	5960	254TC	3	481	FHN97-50/1-H-254TC-PL	\$7,013.57
	65	64.52	27	5	10528	6710	182/4TC	3	436.5	FHN97-65/1-H-182/4TC-PL	\$7,013.57
	65	64.52	27	10	21057	6710	213/5TC	3	429.9	FHN97-65/1-H-213/5TC-PL	\$7,013.57
	65	64.52	27	15	31585	6020	254TC	3	434.3	FHN97-65/1-H-254TC-PL	\$7,013.57
	80	77.93	22	10	25434	6710	213/5TC	3	429.9	FHN97-80/1-H-213/5TC-PL	\$7,013.57
	100	98.66	18	10	32201	6710	213/5TC	3	429.9	FHN97-100/1-H-213/5TC-PL	\$7,013.57

FHN Series - Power Lock
Dimensions

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FHN SERIES - HELICAL
BEVEL GEAR REDUCERS



All listed dimensions in inches																									
Box Size	NEMA Frame	A	B	B1	B2	C	D	D1	D2	E	E1	F	G	H	IA	IB	J	K	L	M	N	O	P	Z5	F5
37	56C	9.92	6.50	0.43	M8	0.47	0.06	0.43	M8	2.36	4.72	0.85	6.22	1.20	4.35	6.75	4.41	2.89	0.79	5.31	4.53	1.22	3.03	2.40	0.16
	143/5TC	9.92	6.50	0.43	M8	0.47	0.06	0.43	M8	2.36	4.72	0.85	6.22	1.20	4.35	7.15	4.41	2.89	0.79	5.31	4.53	1.22	3.03	2.80	0.20
47	56C	10.79	7.09	0.59	M8	0.47	0.04	0.43	M8	2.95	5.91	1.16	6.69	1.26	5.18	7.58	4.80	3.29	0.79	6.50	5.71	1.69	3.66	2.40	0.16
	143/5TC	10.79	7.09	0.59	M8	0.47	0.04	0.43	M8	2.95	5.91	1.16	6.69	1.26	5.18	7.97	4.80	3.29	0.79	6.50	5.71	1.69	3.66	2.80	0.20
67	56C	13.23	8.35	0.67	M12	0.63	0.04	0.67	M12	3.54	7.09	1.38	8.58	1.52	6.32	8.46	6.03	3.94	0.98	8.46	7.48	2.36	4.41	2.15	0.16
	143/5TC	13.23	8.35	0.67	M12	0.63	0.04	0.67	M12	3.54	7.09	1.38	8.58	1.52	6.32	8.86	6.03	3.94	0.98	8.46	7.48	2.36	4.41	2.54	0.20
	182/4TC	13.23	8.35	0.67	M12	0.63	0.04	0.67	M12	3.54	7.09	1.38	8.58	1.52	6.32	9.59	6.03	3.94	0.98	8.46	7.48	2.36	4.41	3.27	0.20
77	143/5TC	17.01	10.63	1.02	M12	0.79	0.16	0.67	M12	4.13	8.27	1.44	10.87	1.48	7.46	9.78	7.87	5.08	1.38	10.83	9.45	2.76	5.51	3.05	0.20
	182/4TC	17.01	10.63	1.02	M12	0.79	0.16	0.67	M12	4.13	8.27	1.44	10.87	1.48	7.46	10.51	7.87	5.08	1.38	10.83	9.45	2.76	5.51	5.31	0.20
	213/5TC	17.01	10.63	1.02	M12	0.79	0.16	0.67	M12	4.13	8.27	1.44	10.87	1.48	7.46	12.78	7.87	5.08	1.38	10.83	9.45	2.76	5.51	5.31	0.20
87	143/5TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	10.93	8.92	6.69	1.57	13.78	12.20	3.94	6.50	1.95	0.20
	182/4TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	11.65	8.92	6.69	1.57	13.78	12.20	3.94	6.50	2.68	0.20
	213/5TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	13.92	8.92	6.69	1.57	13.78	12.20	3.94	6.50	4.94	0.20
	254/6TC	20.75	12.99	1.02	M16	1.02	0.16	1.02	M16	4.72	9.45	1.69	12.99	2.44	8.98	14.90	8.92	6.69	1.57	13.78	12.20	3.94	6.50	5.93	0.20
97	182/4TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	13.39	10.63	7.64	1.97	16.14	13.78	4.72	8.07	2.52	0.20
	213/5TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	15.49	10.63	7.64	1.97	16.14	13.78	4.72	8.07	4.63	0.20
	254/6TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	16.48	10.63	7.64	1.97	16.14	13.78	4.72	8.07	5.61	0.20
	284/6TC	24.49	15.75	1.10	M16	1.18	0.04	1.02	M16	5.91	11.81	1.83	15.55	2.76	10.87	16.83	10.63	7.64	1.97	16.14	13.78	4.72	8.07	5.96	0.20

Section 3: Helical Gear Reducers

FHN Series - Helical Bevel Gear Reducers



FHN Series - Parallel Shaft Helical Gear Reducers: Accessories

Single Output Shafts

Used for mounting into WorldWide Electric hollow bore reducers for the purpose of turning a hollow bore output unit to a shaft output unit. Shaft kits are compatible with the KAN, KHN and FHN Series except when the reducer are used with a B5 flange. Kit includes single output shaft, key, endplate and bolt.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1	6.852	KAN/KHN/FHN37-OPS-S	\$43.09
47	1.25	8.423	KAN/KHN/FHN47-OPS-S	\$60.32
67	1.5	10.433	KAN/KHN/FHN67-OPS-S	\$129.28
77	2	12.444	KAN/KHN/FHN77-OPS-S	\$168.67
87	2.375	14.405	KAN/KHN/FHN87-OPS-S	\$258.55
97	2.75	17.597	KAN/KHN/FHN97-OPS-S	\$397.68

B5 Output Flange

The B5 Output Flange is compatible with the KAN and FHN Series reducer. Kit includes B5 output flange and mounting bolts.



Box Size	Model Number	List Price
37	KAN/FHN37-OPF-B5	\$97.34
47	KAN/FHN47-OPF-B5	\$101.01
67	KAN/FHN67-OPF-B5	\$101.01
77	KAN/FHN77-OPF-B5	\$148.72
87	KAN/FHN87-OPF-B5	\$230.32
97	KAN/FHN97-OPF-B5	\$343.58

B5 Single Output Shafts

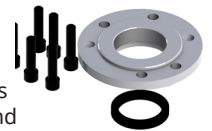
The B5 Single Output Shaft with a B5 Flange is compatible with the KAN and FHN Series reducer. Kit includes single output shaft, key, endplate, and bolt.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1	9.137	KAN/FHN37-OPS-S-B5	\$83.72
47	1.25	11.098	KAN/FHN47-OPS-S-B5	\$121.88
67	1.5	13.938	KAN/FHN67-OPS-S-B5	\$262.25
77	2	16.778	KAN/FHN77-OPS-S-B5	\$339.81
87	2.375	19.519	KAN/FHN87-OPS-S-B5	\$519.56
97	2.75	23.54	KAN/FHN97-OPS-S-B5	\$807.66

B14 Output Flange

The B14 Output Flange is compatible with the KAN and FHN Series reducer. Kit includes B14 output flange, double lip output seal, and mounting bolts.



Box Size	Model Number	Approx. Weight (lbs.)	List Price
37	KAN/FHN37-OPF-B14	1.9	\$47.95
47	KAN/FHN47-OPF-B14	2.3	\$58.75
67	KAN/FHN67-OPF-B14	4.5	\$97.63
77	KAN/FHN77-OPF-B14	7.9	\$127.01
87	KAN/FHN87-OPF-B14	11.7	\$191.38
97	KAN/FHN97-OPF-B14	19.8	\$266.11

Screw Conveyor Drive Shafts

Machined from high tensile strength alloy steel. Conforms to CEMA Standards. Three-hole design for easy installation onto screw.



Box Size	Shaft Diameter (Inches)	Model Number	Approx. Weight (lbs.)	List Price
47	1.5	FHN47-SCDS-1.5	11.0	\$215.48
	2	FHN47-SCDS-2	15.4	\$266.75
	1.5	FHN67-SCDS-1.5	18.1	\$361.86
67	2	FHN67-SCDS-2	18.7	\$361.86
	2.4375	FHN67-SCDS-2.4375	20.3	\$427.99
	2	FHN77-SCDS-2	23.1	\$511.21
77	2.4375	FHN77-SCDS-2.4375	27.6	\$529.79
	3	FHN77-SCDS-3	34.8	\$701.43
87	2	FHN87-SCDS-2	28.7	\$821.80
	2.4375	FHN87-SCDS-2.4375	34.2	\$850.78
	3	FHN87-SCDS-3	39.7	\$858.21
97	2	FHN97-SCDS-2	36.4	\$943.66
	2.4375	FHN97-SCDS-2.4375	43.0	\$972.64
	3	FHN97-SCDS-3	48.5	\$978.58
	3.4375	FHN97-SCDS-3.4375	62.8	\$1,246.82

Screw Conveyor Flange

Conforms to CEMA standards. Bolt-on design allows for easy mounting. Heavy duty FCD45 cast iron construction. Double lip seal and branded felt seal installed.



Box Size	Model Number	Approx. Weight (lbs.)	List Price
47	FHN47-SCF	13.2	\$669.79
67	FHN67-SCF	16.3	\$797.60
77	FHN77-SCF	18.1	\$825.91
87	FHN87-SCF	19.8	\$968.28
97	FHN97-SCF	21.2	\$1,623.50

How To Read A.G.M.A. Service Factors Table

- » The ratings for gear drives in this manual are based on a service factor of 1.00, for uniform load and uniform power source, up to 10 hours of operation per day. For other operating conditions, the application horsepower or torque must be multiplied by the appropriate service factor, to determine the equivalent gear drive power rating. A gear drive should be selected with a rated capacity equal to or greater than the equivalent rating. A condensed service factor chart is located in the selection information pages for each type of gear drive or reducer.
- » A.G.M.A. Service Factors for Worm and Helical Worm Reducers are listed on pages 72-73.
- » Table 1 indicates the relationship between service factors and load classification numbers.
- » A.G.M.A. service factors are based on a uniform power source. If other power sources are used, the service factors must be converted using Table 2. Determine the required service factor with uniform power source. Locate that service factor in the first column and read straight across to obtain required service factor with multi-cylinder or single cylinder engines.
- » Service factors do not need to be used with thermal ratings.
- » Service Factor charts are for general guidelines in determining required service factors. Past experience may indicate that different service factors are required. Consult the factory for unusual or severe applications, or when there are any safety considerations.

Table 1 - Load Classification Numbers

Load Class (S.F.)	Up to 3 Hours Total Operation Per Day	3 to 10 Hours Total Operation Per Day	Over 10 Hours Total Operation Per Day
I (1.0)	Moderate Shock Load	Uniform Load	---
II (1.4)	Heavy Shock Load	Moderate Shock Load	Uniform Load
III (2.0)	---	Heavy Shock Load	Moderate Shock Load

Table 2 - Service Factor Conversion Based on Type of Power Source

Steam or Gas Turbine Hydraulic or Electric Motor	Multi-Cylinder Engine	Single Cylinder Engine
1.00	1.25	1.50
1.25	1.50	1.75
1.50	1.75	2.00
1.75	2.00	2.25
2.00	2.25	2.50
2.50	2.75	3.00
3.00	3.25	3.50

A.G.M.A. Service Factors: Worm Gear Reducers & Gearmotors

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Agitators (mixers)				Cranes				Extruders			
Pure liquids	---	1.00	1.25	Dry dock				General	1.25	1.25	1.25
Liquids and solids	1.00	1.25	1.50	Main hoist	1.25	1.50	1.75	Plastics			
Liquids-variable density	1.00	1.25	1.50	Auxiliary hoist	1.25	1.50	1.75	Variable speed drive	1.50	1.50	1.50
Blowers				Boom hoist	1.25	1.50	1.75	Fixed speed drive	1.75	1.75	1.75
Centrifugal	---	1.00	1.25	Slewing drive	1.25	1.50	1.75	Rubber			
Lobe	1.00	1.25	1.50	Traction drive	1.50	1.50	1.50	Continuous screw operation	1.50	1.50	1.50
Vane	---	1.00	1.25	Container				Intermittent screw operation	1.75	1.75	1.75
Brewing and distilling				Main hoist	---	---	---	Fans			
Bottling machinery	---	1.00	1.25	Boom hoist	---	---	---	Centrifugal	---	1.00	1.25
Brew kettles-continuous duty	---	1.00	1.25	Trolley drive, Gantry drive	---	---	---	Cooling towers	---	---	---
Cookers-continuous duty	---	1.00	1.25	Trolley drive, Traction drive	---	---	---	Forced draft	1.25	1.25	1.25
Mash tubs-continuous duty	---	1.00	1.25	Mill duty				Induced draft	1.00	1.25	1.50
Scale hopper-frequent starts	1.00	1.25	1.50	Main hoist	---	---	---	Industrial and mine	1.00	1.25	1.50
Can filling machines	---	1.00	1.25	Auxiliary	---	---	---	Feeders			
Car dumpers	1.25	1.50	1.75	Bridge	---	---	---	Apron	---	1.25	1.50
Car pullers	1.00	1.25	1.50	Trolley travel	---	---	---	Belt	1.00	1.25	1.50
Clarifiers	---	1.00	1.25	Industrial duty				Disc	---	1.00	1.25
Classifiers	1.00	1.25	1.50	Main	---	---	---	Reciprocating	1.25	1.50	1.75
Clay working machinery				Auxiliary	---	---	---	Screw	1.00	1.25	1.50
Brick press	1.25	1.50	1.75	Bridge	---	---	---	Food industry			
Briquette machine	1.25	1.50	1.75	Trolley travel	---	---	---	Cereal cooker	---	1.00	1.25
Pug mill	1.00	1.25	1.50	Crushers				Dough mixer	1.00	1.25	1.50
Compactors	1.50	1.75	2.00	Stone or ore	1.50	1.75	2.00	Meat grinders	1.00	1.25	1.50
Compressors				Dredges				Slicers	1.00	1.25	1.50
Centrifugal	---	1.00	1.25	Cable reels	1.00	1.25	1.50	Generators and exciters	---	1.00	1.25
Lobe	1.00	1.25	1.50	Conveyors	1.00	1.25	1.50	Hammer mills	1.50	1.50	1.75
Reciprocating, multi-cylinder	1.00	1.25	1.50	Cutter head drives	1.25	1.50	1.75	Hoists			
Reciprocating, single-cylinder	1.25	1.50	1.75	Pumps	1.00	1.25	1.50	Heavy duty	1.25	1.50	1.75
Conveyors-general purpose				Screen drives	1.25	1.50	1.75	Medium duty	1.00	1.25	1.50
Uniformly loaded or fed	---	1.00	1.25	Stackers	1.00	1.25	1.50	Skip hoist	1.00	1.25	1.50
Not uniformly fed	1.00	1.25	1.50	Winches	1.00	1.25	1.50	Laundry			
Reciprocating or shaker	1.25	1.50	1.75	Elevators				Tumblers	1.00	1.25	1.50
				Bucket	1.00	1.25	1.50	Washers	1.25	1.25	1.50
				Centrifugal discharge	---	1.00	1.25				
				Escalators	---	---	---				
				Freight	---	---	---				
				Gravity discharge	---	1.00	1.25				

Section 4: Reference

A.G.M.A Service Factor & Load Class Information



A.G.M.A. Service Factors: Worm Gear Reducers & Gearmotors (cont.)

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Lumber industry				Paper mills				Pumps			
Barkers-spindle feed	1.25	1.25	1.50	Agitator (mixer)	1.50	1.50	1.50	Centrifugal	---	1.00	1.25
Main drive	1.50	1.50	1.50	Agitator for pure liquors	1.25	1.25	1.25	Proportioning	1.00	1.25	1.50
Conveyors-burner	1.25	1.25	1.50	Barking drums	1.75	1.75	1.75	Reciprocating	1.00	1.25	1.50
Main or heavy duty	1.50	1.50	1.50	Barkers - mechanical	1.75	1.75	1.75	Single acting, 3 or more	1.00	1.25	1.50
Main log	1.50	1.50	1.75	Beater	1.50	1.50	1.50	cylinders	1.00	1.25	1.50
Re-saw, merry-go-round	1.25	1.25	1.50	Breaker stack	1.25	1.25	1.25	Double acting, 2 or more	1.00	1.25	1.50
Conveyors				Calender 2)	1.25	1.25	1.25	cylinders	---	1.00	1.50
Slab	1.50	1.50	1.75	Chipper	1.75	1.75	1.75	Rotary	---	1.00	1.50
Transfer	1.25	1.25	1.50	Chip feeder	1.50	1.50	1.50	Gear type	---	1.00	1.25
Chains				Coating rolls	1.25	1.25	1.25	Lobe	---	1.00	1.25
Floor	1.50	1.50	1.50	Conveyors				Vane			
Green	1.50	1.50	1.50	Chip, bark, chemical	1.25	1.25	1.25	Rubber industry			
Cut-off saws				Log (including slab)	1.75	1.75	1.75	Intensive internal mixers			
Chain	1.50	1.50	1.50	Couch rolls	1.25	1.25	1.25	Batch mixers	1.50	1.70	1.75
Drag	1.50	1.50	1.50	Cutter	1.75	1.75	1.75	Continuous mixers	1.25	1.50	1.50
Debarking drums	1.50	1.50	1.75	Cylinder molds	1.25	1.25	1.25	Mixing mill - 2 smooth rolls (if			
Feeds				Dryers 2)				corrugated rolls are used, then			
Edger	1.25	1.25	1.50	Paper machine	1.25	1.25	1.25	use the same service factors			
Gang	1.50	1.50	1.50	Conveyor type	1.25	1.25	1.25	that are used for a cracker warmer)	1.50	1.50	1.50
Trimmer	1.25	1.25	1.50	Emboss	1.25	1.25	1.25	Batch drop mill - 2 smooth rolls	1.50	1.50	1.50
Log deck	1.50	1.50	1.50	Extruder	1.50	1.50	1.50	Cracker-warmer-2 rolls, 1 corrugated roll	1.75	1.75	1.75
Log hauls-incline-well type	1.50	1.50	1.50	Fourdrinier rolls	1.25	1.25	1.25	Cracker - 2 corrugated rolls	1.75	1.75	1.75
Log turning devices	1.50	1.50	1.50	(includes lump breaker, dandy				Holding, feed & blend mill - 2 rolls	1.25	1.25	1.25
Planer feed	1.25	1.25	1.50	roll, wire turning, and return rolls)				Refiner - 2 rolls	1.50	1.50	1.50
Planer tilting hoists	1.50	1.50	1.50	Jordan	1.25	1.25	1.25	Calenders	1.50	1.50	1.50
Rolls-live-off bearing-roll cases	1.50	1.50	1.50	Kiln drive	1.50	1.50	1.50	Sand muller	1.00	1.25	1.50
Sorting table	1.25	1.50	1.50	Mt. Hope roll	1.25	1.25	1.25	Sewage disposal equipment			
Tipple hoist	1.25	1.25	1.50	Paper rolls	1.25	1.25	1.25	Bar screens	---	1.00	1.25
Transfers				Platter	1.50	1.50	1.50	Chemical feeders	1.00	1.00	1.25
Chain	1.50	1.50	1.50	Presses - felt & suction	1.25	1.25	1.25	Dewatering screens	1.00	1.25	1.50
Craneway	1.50	1.50	1.50	Pulper	1.50	1.50	1.75	Scum breakers	1.00	1.25	1.50
Tray drives	1.25	1.25	1.50	Pumps - vacuum	1.50	1.50	1.50	Slow or rapid mixers	1.00	1.25	1.50
Veneer lathe drives	---	---	---	Reel (surface type)	1.25	1.25	1.50	Sludge collectors	1.00	1.00	1.25
Metal mills				Screens				Thickeners	1.00	1.25	1.50
Draw bench carriage and main drive	1.00	1.25	1.50	Chip	1.50	1.50	1.50	Vacuum filters	1.00	1.25	1.50
Runout table				Rotary	1.50	1.50	1.50	Screens			
Non-reversing, Group drives	1.00	1.25	1.50	Vibrating	1.75	1.75	1.75	Air washing	---	1.00	1.25
Non-reversing, Individual drives	1.50	1.50	1.75	Size press	1.25	1.25	1.25	Rotary - stone or gravel	1.00	1.25	1.50
Reversing	1.50	1.50	1.75	Super calender 3)	1.25	1.25	1.25	Traveling water intake	---	1.00	1.25
Slab pushers	1.25	1.25	1.50	Thickener (AC motor)	1.50	1.50	1.50	Sugar industry			
Shears	1.50	1.50	1.75	(DC motor)	1.25	1.25	1.25	Beet slicer	1.50	1.50	1.75
Wire drawing	1.00	1.25	1.50	Washer (AC motor)	1.50	1.50	1.50	Cane knives	1.50	1.50	1.50
Wire winding machine	1.00	1.25	1.50	(DC motor)	1.25	1.25	1.25	Crushers	1.50	1.50	1.50
Metal strip processing machinery				Wind and unwind stand	1.00	1.00	1.00	Mills (low speed end)	1.50	1.50	1.50
Bridles	1.25	1.25	1.50	Winders (surface type)	1.25	1.25	1.25	Textile industry			
Coilers and uncoilers	1.00	1.00	1.25	Yankee dryers 2)	1.25	1.25	1.25	Batchers	1.00	1.25	1.50
Edge trimmers	1.00	1.25	1.50	Plastic industry				Calenders	1.00	1.25	1.50
Flatteners	1.25	1.25	1.50	Primary processing				Cards	1.00	1.25	1.50
Loopers (accumulators)	1.00	1.00	1.00	Intensive internal mixers				Dry cans	1.00	1.25	1.50
Pinch rolls	1.25	1.25	1.50	Batch mixers	1.75	1.75	1.75	Dryers	1.00	1.25	1.50
Scrap choppers	1.00	1.25	1.50	Continuous mixers	1.50	1.50	1.50	Dyeing machinery	1.00	1.25	1.50
Shears	1.50	1.50	1.75	Batch drop mill - 2 smooth rolls	1.25	1.25	1.25	Looms	1.00	1.25	1.50
Slitters	1.00	1.25	1.50	Continuous feed, holding, blend mill	1.25	1.25	1.25	Mangles	1.00	1.25	1.50
Mills, rotary type				Compounding mill	1.25	1.25	1.25	Nappers	1.00	1.25	1.50
Ball & rod				Calenders	1.50	1.50	1.50	Pads	1.00	1.25	1.50
Spur ring gear	1.50	1.50	1.75	Secondary processing				Slashers	1.00	1.25	1.50
Helical ring gear	1.50	1.50	1.50	Blow molders	1.50	1.50	1.50	Soapers	1.00	1.25	1.50
Direct connected	1.50	1.50	1.75	Coating	1.25	1.25	1.25	Spinners	1.00	1.25	1.50
Cement kilns	1.50	1.50	1.50	Film	1.25	1.25	1.25	Tenter frames	1.00	1.25	1.50
Dryers & coolers	1.50	1.50	1.50	Pipe	1.25	1.25	1.25	Washers	1.00	1.25	1.50
Mixers				Pre-plasticizers	1.50	1.50	1.50	Winders	1.00	1.25	1.50
Concrete	1.00	1.25	1.50	Rods	1.25	1.25	1.25				
				Sheet	1.25	1.25	1.25				
				Tubing	1.25	1.25	1.50				
				Pullers - barge haul	1.00	1.50	1.75				

Section 4: Reference

A.G.M.A Service Factor & Load Class Information



A.G.M.A. Load Classifications for Shaft Mount Reducers

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Agitators (mixers)				Laundry				Paper mills (Continued)			
Pure liquids	I	I	II	Tumblers	II	II	II	Screens			
Liquids and solids	I	II	II	Washers	II	II	III	Chip	II	II	II
Liquids-variable density	I	II	II	Lumber industry				Rotary	II	II	II
Blowers				Barkers-spindle feed	II	II	II	Vibrating	III	III	III
Centrifugal	I	I	II	Main drive	III	III	III	Size press	II	II	II
Lobe	I	II	II	Conveyors-burner	II	II	II	Super calender (3)	II	II	II
Vane	I	II	II	Main or heavy duty	II	II	II	Thickener (AC motor)	II	II	II
Brewing and distilling				Main log	III	III	III	(DC motor)	II	II	II
Bottling machinery	I	I	II	Re-saw, merry-go-round	II	II	II	Washer (AC motor)	II	II	II
Brew kettles-continuous duty	II	II	II	Conveyors	III	III	III	(DC motor)	II	II	II
Cookers-continuous duty	II	II	II	Slab	III	III	III	Wind and unwind stand	I	I	I
Mash tubs-continuous duty	II	II	II	Transfer	II	II	II	Winders (surface type)	II	II	II
Scale hopper-frequent starts	II	II	II	Chains				Yankee dryers (2)	II	II	II
Can filling machines	I	I	II	Floor	II	II	II	Plastic industry			
Car dumpers	I	III	III	Green	II	II	III	Primary processing			
Car pullers	I	II	II	Cut-off saws	II	II	III	Intensive internal mixers	III	III	III
Clarifiers	I	I	II	Chain	II	II	III	Batch mixers	II	II	II
Classifiers	I	II	II	Drag	II	II	III	Continuous mixers	II	II	II
Clay working machinery				Debarking drums	III	III	III	Batch drop mill - 2 smooth rolls	II	II	II
Brick press	II	III	III	Feeds	II	II	II	Continuous feed, holding, blend mill	II	II	II
Briquette machine	II	III	III	Edger	II	II	II	Calenders	II	II	II
Pug mill	I	II	II	Gang	III	III	III	Secondary processing			
Compactors	III	III	III	Trimmer	II	II	II	Blow molders	II	II	II
Compressors				Log deck	III	III	III	Coating	II	II	II
Centrifugal	I	I	II	Log hauls-incline-well type	III	III	III	Film	II	II	II
Lobe	I	II	II	Log turning devices	III	III	III	Pipe	II	II	II
Reciprocating, multi-cylinder	II	II	III	Planer feed	II	II	II	Pre-plasticizers	II	II	II
Reciprocating, single-cylinder	III	III	III	Planer tilting hoists	II	II	II	Rods	II	II	II
Cranes (1)				Rolls-live-off bearing-roll cases	III	III	III	Sheet	II	II	II
Dry dock				Sorting table	II	II	II	Tubing	II	II	II
Main hoist	2.50	2.50	2.50	Tipple hoist	II	II	II	Pullers - barge haul	II	II	II
Auxiliary hoist	2.50	2.50	3.00	Transfers				Pumps			
Boom hoist	2.50	2.50	3.00	Chain	II	II	III	Centrifugal	I	I	II
Slewing drive	2.50	2.50	3.00	Craneway	II	II	III	Proportioning	II	II	II
Traction drive	3.00	3.00	3.00	Tray drives	II	II	II	Reciprocating	II	II	II
Container				Veneer lathe drives	II	II	II	Single acting, 3 or more cylinders	II	II	II
Main hoist	3.00	3.00	3.00	Metal mills				Double acting, 2 or more	II	II	II
Boom hoist	2.00	2.00	2.00	Draw bench carriage and main drive	II	II	II	Cylinders			
Trolley drive, Gantry drive	3.00	3.00	3.00	Runout table	II	II	II	Rotary			
Trolley drive, Traction drive	2.00	2.00	2.00	Non-reversing, Group drives	III	III	III	Gear type	I	I	II
Mill duty				Non-reversing, Individual drives	III	III	III	Lobe	I	I	II
Main hoist	3.50	3.50	3.50	Reversing	II	II	II	Vane	I	I	II
Auxiliary	3.50	3.50	3.50	Slab pushers	II	II	II	Rubber industry			
Bridge	2.50	3.00	3.00	Shears	II	II	III	Intensive internal mixers	III	III	III
Trolley travel	2.50	3.00	3.00	Wire drawing	II	II	II	Batch mixers	III	III	III
Industrial duty				Wire winding machine	II	II	II	Continuous mixers	II	II	II
Main	2.50	2.50	3.00	Metal strip processing machinery				Mixing mill - 2 smooth rolls	III	III	III
Auxiliary	2.50	2.50	3.00	Bridles	II	II	II	Mixing mill - 1 or 2 corrugated rolls	III	III	III
Bridge	2.50	3.00	3.00	Coilers and uncoilers	I	I	II	Batch drop mill - 2 smooth rolls	III	III	III
Trolley travel	2.50	3.00	3.00	Edge trimmers	I	II	II	Cracker warmer - 2 rolls; 1 corrugated roll	III	III	III
Crushers				Flatteners	II	II	II	Cracker - 2 corrugated rolls	III	III	III
Stone or ore	III	III	III	Loopers (accumulators)	I	I	I	Holding, feed & blend mill - 2 rolls	II	II	II
Dredges				Pinch rolls	II	II	II	Refiner - 2 rolls	II	II	II
Cable reels	II	II	II	Scrap choppers	II	II	II	Calenders	II	II	II
Conveyors	III	III	III	Slitters	III	III	III	Sand muller	II	II	II
Cutter head drives	III	III	III	Mills, rotary type				Sewage disposal equipment			
Pumps	III	III	III	Ball & rod				Bar screens	II	II	II
Screen drives	III	III	III	Spur ring gear	III	III	III	Chemical feeders	II	II	II
Stackers	II	II	II	Helical ring gear	III	III	III	Dewatering screens	II	II	II
Winches	II	II	II	Direct connected	III	III	III	Scum breakers	II	II	II
Elevators				Cement kilns	II	II	II	Slow or rapid mixers	II	II	II
Bucket	I	II	II	Dryers & coolers	II	II	II	Sludge collectors	II	II	II
Centrifugal discharge	I	I	II	Mixers				Thickeners	II	II	II
Escalators	I	I	II	Concrete	II	II	II	Vacuum filters	II	II	II
Freight	I	II	II	Paper mills				Screens			
Gravity discharge	I	I	II	Agitator (mixer)	II	II	II	Air washing	I	I	II
Extruders				Agitator for pure liquors	II	II	II	Rotary - stone or gravel	II	II	II
General	II	II	II	Barking drums	III	III	III	Traveling water intake	I	I	I
Plastics				Barkers - mechanical	III	III	III	Screw conveyors			
Variable speed drive	III	III	III	Beater	II	II	II	Uniformly loaded or fed	I	I	II
Fixed speed drive	III	III	III	Breaker stack	II	II	II	Heavy duty	I	II	II
Rubber				Calender (2)	II	II	II	Sugar industry			
Continuous screw operation	III	III	III	Chipper	II	II	II	Beet slicer	III	III	III
Intermittent screw operation	III	III	III	Chip feeder	III	III	III	Cane knives	II	II	II
Fans				Coating rolls	II	II	II	Crushers	II	II	II
Centrifugal	I	I	II	Conveyors	II	II	II	Mills (low speed end)	III	III	III
Cooling towers	III	III	III	Chip, bark, chemical	II	II	II	Textile industry			
Forced draft	II	II	II	Log (including slab)	III	III	III	Batchers	II	II	II
Induced draft	II	II	II	Couch rolls	II	II	II	Calenders	II	II	II
Industrial and mine	II	II	II	Cutter	II	II	II	Cards	II	II	II
Feeders				Cylinder molds	III	III	III	Dry cans	II	II	II
Apron	I	II	II	Dryers (2)	II	II	II	Dryers	II	II	II
Belt	I	II	II	Paper machine	II	II	II	Dyeing machinery	II	II	II
Disc	I	I	II	Conveyor type	II	II	II	Looms	II	II	II
Reciprocating	II	III	III	Embossor	II	II	II	Mangles	II	II	II
Screw	I	II	II	Extruder	II	II	II	Nappers	II	II	II
Food industry				Fourdrinier rolls	II	II	II	Pads	II	II	II
Cereal cooker	I	I	II	(includes lump breaker, dandy roll, wire turning, and return rolls)	II	II	II	Slashers	II	II	II
Dough mixer	II	II	II	Jordan	II	II	II	Soapers	II	II	II
Meat grinders	II	II	II	Kiln drive	II	II	II	Spinners	II	II	II
Slicers	I	II	II	Mt. Hope roll	II	II	II	Tenter frames	II	II	II
Generators and exciters	II	II	II	Paper rolls	II	II	II	Washers	II	II	II
Hammer mills	III	III	III	Platter	II	II	II	Winders	II	II	II
Hoists				Presses - felt & suction	II	II	II				
Heavy duty	III	III	III	Pulper	III	III	III				
Medium duty	II	II	II	Pumps - vacuum	II	II	II				
Skip hoist	II	II	II	Reel (surface type)	II	II	II				

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A.G.M.A. SERVICE FACTOR
AND LOAD CLASS INFO.

Terms and Conditions of Sale

4

TERMS AND WARRANTY
INFORMATION

1. **WARRANTY** – WORLDWIDE ELECTRIC CORPORATION (“SELLER”) MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IN RESPECT TO THE PRODUCT AND THERE IS NO WARRANTY EXPRESS OR IMPLIED EXCEPT THAT THE PRODUCT SHALL BE OF THE KIND AND QUALITY DESCRIBED IN THE SPECIFICATIONS.
2. **DELIVERY** – Unless otherwise stated, delivery will be made f.o.b. point of shipment. Shipping dates are approximate and are based on the prompt receipt of all necessary information from the purchaser.
3. **LOSS, DAMAGE OR DELAY** – Seller shall not be liable for loss, damage, detention, or delay resulting from causes beyond its reasonable control or from fire, strike or other concerted action of workmen, act or omission of any Governmental authority or of the Purchaser, insurrection or riot, embargo, car shortage, wreck or delay in transportation, or inability to obtain necessary labor, materials, or manufacturing facilities from usual sources. In the event of delay due to any such cause, the date of delivery will be postponed by such length of time as may be reasonably necessary to compensate for the delay.
4. **RISK OF LOSS** – Risk of loss of the product, or any part of the same, shall pass to the Purchaser upon delivery of such product or part.
5. **PAYMENTS** – If, in the judgment of Seller, the financial condition of the Purchaser at any time prior to shipment does not support the terms of payment specified, Seller may require full or partial payment in advance. Pro-rata payments shall become due as shipments are made. If shipments are delayed by the Purchaser, payments shall become due from date when Seller is prepared to make shipment. If manufacture is delayed by the Purchaser, payment shall be made based on the contract price and percent of completion. Products held for Purchaser shall be at the risk and expense of the Purchaser.
6. **PAYMENT BY CREDIT CARD** – If Seller accepts payment by credit card, Purchaser agrees to pay the issuer of the credit card the total amount shown on this invoice upon presentation of a bill, without offset or deduction.
7. **PRICES** – Prices are those in effect at time of shipment. In the event of a published increase or reduction in prices by Seller, the new price will become effective immediately on the unshipped portion of the order, unless stated at the time of the change. In no case, however, will a reduction in price be retroactive to shipments made prior to the date of the price change. Purchaser's order will be entered promptly upon acceptance by Seller and will not thereafter be subject to Cancellation nor to Deferment of Deliveries without Seller's written consent, except upon terms which take into proper account the work already done and commitments made by Seller. Prices include the Seller's standard packing for domestic shipments.
8. **LIMITATION OF LIABILITY** – In no event shall Seller be liable for any special, indirect, incidental, consequential or punitive damages, including but not limited to damages for lost profits or business opportunities or damage to reputation. Seller's maximum liability for any breach of contract or sale, or any other claim related to the product sold hereunder, shall be limited to the price of the product, or portion thereof, on which such liability is based.
9. **GOVERNING LAW/JURISDICTION/VENUE** – This sale shall be governed by and construed in accordance with the laws of the State of New York, without regard to its conflicts of laws principles, and shall be deemed entered into at Seller's principal place of business in New York. By purchasing Seller's product, Purchaser expressly consents, for any litigation arising out of or related to the sale, to the exclusive jurisdiction and venue of the courts of competent jurisdiction located in Monroe County, New York (i.e., the U.S. District Court, Western District of New York, and the New York State Supreme Court, County of Monroe) and waives the right and hereby agrees not to assert, by way of motion, defense or otherwise in any proceeding brought in either of such courts, any claim that it is not subject to the personal jurisdiction of such court, that such proceeding is brought in an inconvenient forum, or that the venue of such proceeding is improper.
10. **TERMINATION** – Any order or contract may be terminated by the Purchaser only upon payment of reasonable charges based upon expenses already incurred and commitments made by Seller.
11. **RETURN OF GOODS** – No product or part shall be returned to the Seller without written authorization and shipping instructions first having been obtained from the Seller. Returns may be subject to freight charge and/or restocking charge, as circumstances dictate.
12. **REPAIR POLICY** – Positively no allowance will be made for repairs if made by others without Seller's written consent.
13. **NO ASSIGNMENT** – Purchaser's obligations are not transferable or assignable by operation of law, change of control or ownership, or otherwise, without prior written consent of Seller.

Return Policy

1. All WorldWide Electric products (electric motors, motor controls and gearing products) that are purchased as normal stock items may be returned, with freight to be paid, back to the closest WorldWide Electric warehouse by the customer.
2. Any returned products must be new, undamaged and in original cartons/packaging. Final credit will not be issued until WorldWide Electric has verified the products/shipping cartons as such.
3. All RGA requests must be made within 90 days of original purchase.
4. If the returned products were ordered incorrectly by the customer, 20% will be levied as a restocking charge which carries a minimum \$75 charge.
5. If the customer places an order equal to or greater than the goods being returned, then the restocking charge will be 10% (minimum \$75 charge).
6. If the product being returned was originally shipped to the customer prepaid and allowed, the original freight charge will be deducted from the return credit.
7. If the returned products are not in original condition (as well as the packaging), there will be additional fees applied to repair and/or replace those parts/products.

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TERMS AND WARRANTY INFORMATION

Freight Terms

Freight terms are as follows on all orders shipped from any of our warehouses. All products can be assorted from all three divisions; motors, controls and gearing.

FedEx / UPS may be utilized for shipments under 100 lbs. and billed on a prepaid and add basis (excluding cast iron motors and gear reducer products). Customers may always choose to have their shipment sent freight collect.

\$5,000 +	Truck - Prepaid and Allowed
\$1,000 - \$4,999	Truck - 10% of Invoice - Prepaid and Add
\$0 - \$999	Truck - \$100 Minimum - Prepaid and Add

Special Freight Prepaid Programs

Worm Gear Reducers: 25 + Pieces Assorted, Prepaid and Allowed

Orders may be picked up from any of our warehouses as a will call. We would prefer a one-hour advance notification for orders to be picked up. However, allowances will be made for special rush and urgent situations. Freight terms are as follows on all orders shipped from any of our warehouses.

Additional Freight Services

Delivery Appointment	\$65.00
Liftgate Delivery	\$200.00
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Expedited Delivery	Please Call For Quote



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