

OtN Helical Bevel



CbN Inline Helical



		PRODUCT TYPES	
DETAIL	SPECIFICS	CbN	OtN
Capacity	Inch Pounds	134,000	120,000
Ratios	Nominal	0.8 to 10,000:1	3.55 to 10,000:1
Input Options	Gearmotor	.33 to 50 HP	.33 to 50 HP
	G-face	✓	✓
	Input Shaft	✓	✓
	Scoop Mount	✓	✓
Gearmotor	Top Mount	✓	✓
	TEFC Motor 3 Phase	✓	✓
	TEFC Motor 1 Phase	✓	✓
	TEFC Corro-Duty	✓	✓
Motor Efficiency	Explosionproof	✓	✓
	High	STD. <sup>1</sup>	STD. <sup>1</sup>
	Premium	Option > 2HP	Option > 2HP
Gear Efficiency	Standard	Option	Option
	Per Reduction Stage	98%	98%
Output Shaft	Relative to Input	In-Line	Right Angle
Output Options	Foot Mount	✓	✓
	Face Mount	✓	✓
	Flange Mount	✓	✓
	Single Solid Shaft	✓	✓
	Double Solid Shaft	—	✓
	Hollow Shaft	—	✓
	Taper Bushed	—	✓
Variable Speed	Inverter Duty MG1 Part 31	✓	✓
	IntelliGear	✓	✓

✓ This design is an available option

<sup>1</sup> On 3 phase non-explosionproof gearmotors

# Choose Browning® Series 3000 Gearmotors & Speed Reducers

## EMERSON® HE GEARMOTORS LEAD EFFICIENCIES IN NORTH AMERICA

Reference	Full Load Nom. Efficiency % / HP @ 1750 RPM															
	1/3	1/2	3/4	1	1.5	2	3	5	7.5	10	15	20	25	30	40	50
Emerson 6/10	75	80	80	84	84	85.5	89.5	89.5	91	91	92.4	93	93	93.6	94.1	94.5
*Canada 1/11	n/a	n/a	n/a	82.5	84	84	87.5	87.5	89.5	89.5	91	91	92.4	92.4	93.0	93.0
*USA 12/10	n/a	n/a	n/a	82.5	84	84	87.5	87.5	89.5	89.5	91	91	92.4	92.4	93.0	93.0

\* C-face Ftls. Motor Requirements and date effective

Exceeds industry High Efficiency specifications

### FEATURES

### BENEFITS

1	3 Phase HE Gearmotors use High Efficiency motors starting @ .33hp	<ul style="list-style-type: none"> <li>Meets or exceeds Efficiency Standards in North America for gearmotors and C-face motors</li> <li>Delivers maximum power savings coupled with high efficiency gearing</li> </ul>
2	Gearmotors utilize a "modular" connection between gear and motor	<ul style="list-style-type: none"> <li>Allows motor replacements on site without draining oil, disturbing gear-to-load connections or having to remove primary pinion</li> <li>Users can upgrade to High Efficiency motor from original older lower efficiency designs</li> <li>Only one spare motor required per HP/Voltage/Phase regardless of the gear styles present in a factory</li> </ul>
3	Synthetic hydrocarbon lubricant is supplied standard from factory	<ul style="list-style-type: none"> <li>Allows a wider ambient range with stable optimum viscosity</li> <li>Coupled with special breather supplied, maintenance is just checking to ensure correct oil volume without seasonal oil changing cycles</li> </ul>
4	SMTP design taper bushed system with stabilizer ring is a standard option for OtN gearing for shaft mount applications	<ul style="list-style-type: none"> <li>Output shaft machining allows mounting of bushing onto either side of output shaft for maximum mounting flexibility</li> <li>Static bushing locking angle and use of stabilizer ring helps to eliminate fretting making future removal quick and easy</li> </ul>
5	Non-hazardous 3 phase motor constructed with minimum Class F winding materials selected to meet NEMA MG1 Part 31 standards. Motor designs run at lower than Class B temperature rises at full load	<ul style="list-style-type: none"> <li>Cooler operating temperatures of motors with Class F materials translates to thermal capability for 100,000 hours winding life</li> <li>Most gearmotors can deliver 5:1 full constant torque with proper PWM controller tuning and within standard warranty</li> </ul>
6	IntelliGear variable speed gearmotor available from 1/3 to 10 HP for 115V, 230V and 460V power supplies	<ul style="list-style-type: none"> <li>Packages gearmotor with open loop vector controller, pre-programmed and tested for up to 30:1 constant torque speed ranges at 100% load</li> <li>Standard combination is TEFC motor plus IP65 controller for use indoors or outdoors</li> </ul>

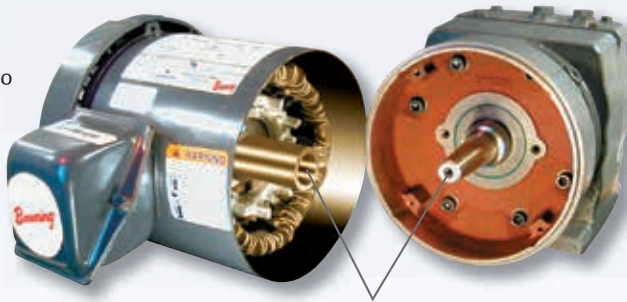
### INTELLIGEAR® VARIABLE SPEED GEARMOTOR

Motor HP	Power Supply		
	115V	230V	460V
.33 to .75	✓	✓	✓
1 to 5	-	✓	✓
7.5 to 10	-	-	✓



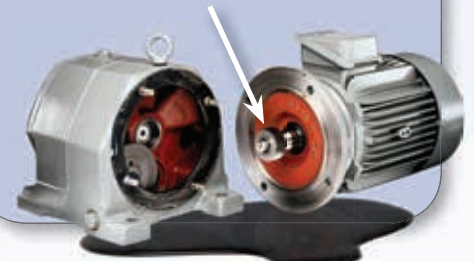
## Highly Modular

- Modular, tapered connection so that one spare of each motor hp size in the plant will allow replacement of that hp on any frame size of the gearmotor – so users can keep fewer spares in stock
- Taper connection makes motor replacement easy, eliminating the need for draining the oil or breaking open the gearcase



*Innovative, self-locking, tapered shaft connection between motor and shaft*

Competitor gearmotor designs have the primary pinion located on the motor shaft.



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#### APPLICATION CONSIDERATIONS

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