

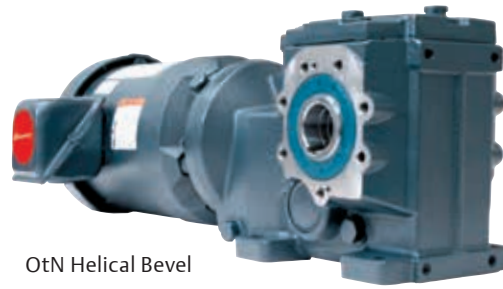


Series 3000

Gearmotors & Speed Reducers



CbN Inline
Helical



OtN Helical Bevel

		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
	C-face	✓	✓
	Input Shaft	✓	✓
	Scoop Mount	✓	✓
	Top Mount	✓	✓
Gearmotor	TEFC Motor 3 Phase	✓	✓
	TEFC Motor 1 Phase	✓	✓
	TEFC Corro-Duty	✓	✓
	Explosionproof	✓	✓
Motor Efficiency	High	STD. ¹	STD. ¹
	Premium	Option > 2HP	Option > 2HP
	Standard	Option	Option
Gear Efficiency	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

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

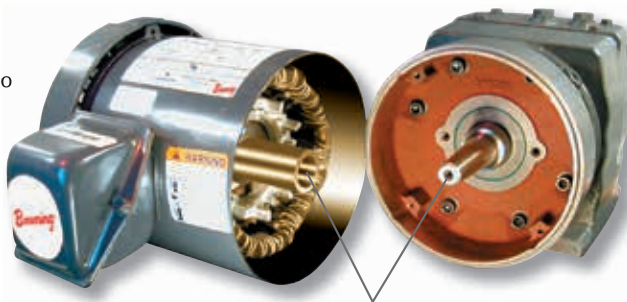
INTELLIGEAR® VARIABLE SPEED GEARMOTOR

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



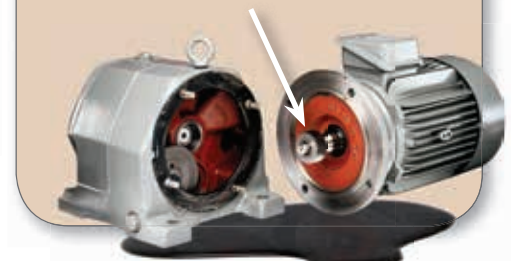
Highly Modular

- 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.



Browning®

Customer Service
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www.emerson-ept.com

APPLICATION CONSIDERATIONS

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