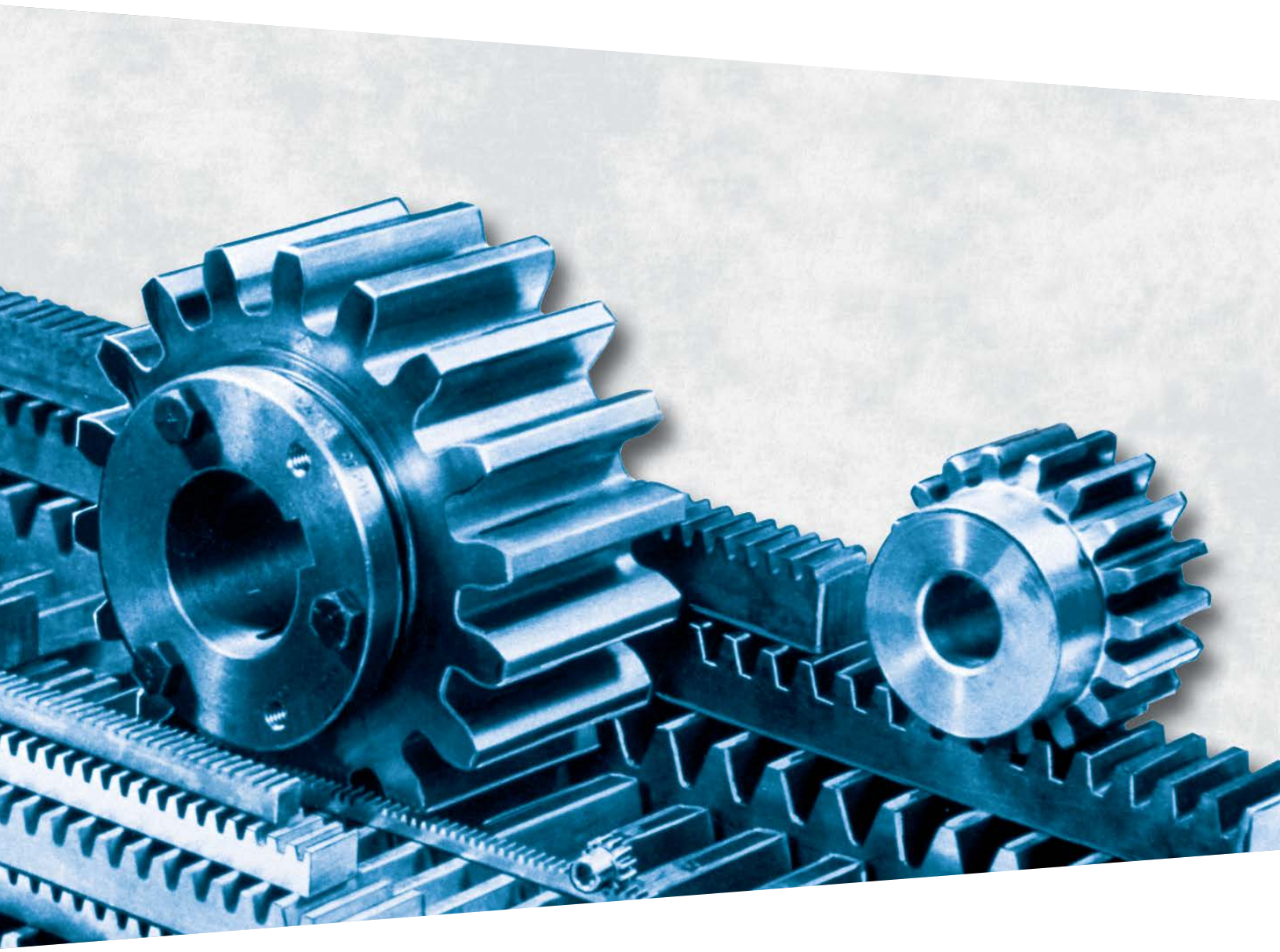
Browning®

Stock Gears



A Regal Brand

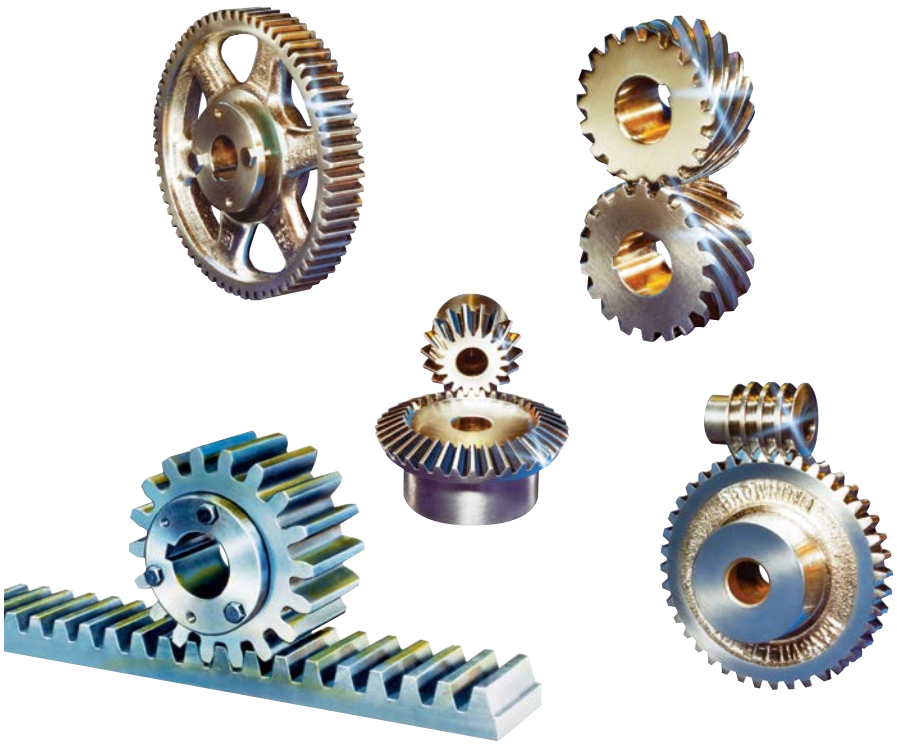
REGAL

EXPERIENCE THE POWER...

Over 2,000 BROWNING® Stock Gears Help You To "Get In Gear" For Greater Productivity

- **Spur**
- **Miter**
- **Bevel**
- **Change**
- **Helical**
- **Worm**
- **Rack... The Most Comprehensive Lines of Off-The-Shelf Gears In Industry.**

These gears are available in 20° pressure angle from 20 to 4 dp, and 14 ½° pressure angle from 32 to 3 dp... all designed to increase output, reduce costs and avoid specials.



- **Thousands Of Shaft-Ready Finished Bore And Bushing Types** (a Browning exclusive) eliminate rework costs, assures true-running precision at all times
- **More Stock Sizes Made Of Steel**... you get weldability plus greater strength, at cast iron prices
- **Extra Tooth Depth And Larger Radii** provide stronger teeth, a deeper lubrication reservoir and more clearance
- **Many Helical And Bevel Gears Are Available Hardened** for longer life. Most worms are hardened and ground
- **Many Odd Number Of Teeth Sizes Available**
- **Custom Gear Capabilities** -- up to 60" diameter and 17" face

STOCK GEARS

SPUR GEARS

Type	Material	Pressure Angle (°)	Pitch Range	Tooth Range	Bore Range
Spur, Min. Bore (Fine Pitch)	Brass	14 ½	24	6 - 180	3/32" - 5/8"
	Steel		32,24,20	11 - 200	3/32" - 1"
Spur, Min. Bore	Steel & Cast Iron	14 ½	16,12,10,8,6,5,4,3	11 - 200	3/8"- 3 5/8"
Spur, Fin. Bore			20,16,12,10,8,6	11 - 35	1/4"- 1 1/4"
Spur, Bushing Type			16,12,10,8,6,5,4,3	15 - 200	3/8"- 4 1/4"
Spur, Min. Bore	Steel & Cast Iron	20	20,16,12,10,8,6,5,4	12 - 240	5/16"- 3 5/8"
Spur, Fin. Bore			20,16,12,10,8,6	12 - 40	1/4"- 1 1/4"
Spur, Bushing Type			16,12,10,8,6,5,4	18 - 240	3/8"- 4 1/4"
Spur, Change Gear	Steel	14 ½	20,16,12,10,8	20 - 129	5/8"- 1 3/8"**
Rack	Brass	14 ½	48,32,24,16	-	-
	Steel	14 ½	32,24,20,16,12,10,8,6,5,4,3	-	-
	Steel	20	20,16,12,10,8,6,5,4	-	-
Spur, Min. Bore	Non-metallic	14 ½	16,12,10,8,6,5	12 - 96	3/8"- 2 1/4"
		20	16,12,8	15 - 24	3/8"- 1 3/4"

BEVEL AND MITER GEARS

Type	Material	Pressure Angle (°)	Pitch Range	Tooth Range	Bore Range
Bevel	Unhardened Steel	20	20,16,14,12,10,8,6,5,4,3	10 - 96	3/16"- 3"
Miter	Hardened & Unhardened Steel	20	32,24,20,16,14,12, 10,8,5,4	12 - 32	3/16"- 3"
Spiral Bevel	Hardened Steel	20	14,10,8	16 -34	½"- 1 ½"
Spiral Miter			12,10,8,7,6,5	15 -28	½"- 1 3/8"

HELICAL GEARS

Type	Material	Pressure Angle (°)	Pitch Range	Tooth Range	Bore Range
Helical Gears (45° Helix)	Bronze & Steel	14 ½	24,16,12,10,8,6	8 - 72	3/16"- 1 1/4"

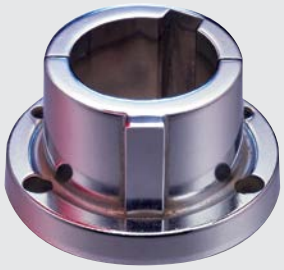
WORMS AND WORM GEARS

Type	Material	Pressure Angle (°)	Pitch Range	Tooth Range	Bore Range
Worm and Gear Single Thread	Cast Iron & Bronze Worm Gears	14 ½	32, 24, 16, 12, 10, 8, 6, 5, 4, 3	20 - 128	3/16" - 2 7/8"
	Steel Worms	14 ½	32, 24, 16, 12, 10, 8, 6, 5, 4, 3	(.438-4. -0 pd)	3/16" - 1 ½"
Worm and Gear Double Thread	Cast Iron & Bronze Worm Gears	20	32, 24, 16, 12, 10, 8, 6	20 - 128	3/16" - 1 13/16"
	Steel Worms	20	32, 24, 16, 12, 10, 8, 6	-	3/16" - 1"
Worm and Gear Quadruple Thread*	Cast Iron & Bronze Worm Gears	25	32, 24, 16, 12, 10, 8, 6	20 - 100	3/16" - 1 13/16"
	Steel Worms	25	32, 24, 16, 12, 10, 8, 6	-	3/16" - 1"

*Triple thread available in 20° PA, 5 pitch, 29-50 tooth bronze worm gears & steel worms.
**Bushing bore range is 7/16 - 1 1/8".

THE ONLY BUSHED SPUR GEAR AVAILABLE FROM STOCK

- 14 1/2° - 3 Pitch through 12 Pitch
- 20° - 4 Pitch through 16 Pitch
- 203 Stock Gears & 168 Stock Bushings give 5,796 Stock Combinations ranging from .75 to 60 H.P.



AND THE BUSHING IS GUARANTEED FOR LIFE!!!

External Key

- High Torque
- Easy to maintain
- Perfect for blind installations

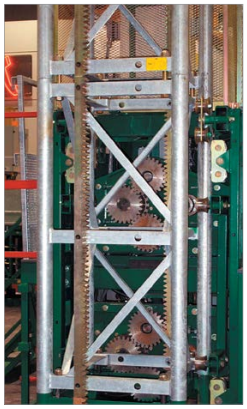
Double Split Barrel

- Better clamping
- Perfect where high torque and thrust loads exist

Solid Flange

- Maintains concentricity
- Won't crack during installation
- Easy removal from shaft

Industries Currently Served Using BROWNING Open Gear Products:



- Accessibility Industry
- Grain Handling
- Construction Hoist
- Concrete and Aggregate
- Machine Tools
- RV Industry
- Fitness & Exercise
- Railcars
- Power Generation
- Packaging
- Food and Beverage
- Flood Management
- Material Handling
- Sewage Treatment
- Oil and Gas

Browning®

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Technical Service: 800-626-2093

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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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