

Cushion Connector

MODELS

18-120-6363 14-30-6353
14-40-6353 14-50-6353

Take the shock
out of drilling



Mining

DRILL PRODUCTS

Function

Threaded directly into the drive spindle of the rotary gear box, the Foremost Cushion Connector will assist in protecting the rotary drive and mast assemblies against both torsional and axial vibrations/shock loading in moderate and extreme drilling conditions. The results will be reduced drill maintenance, increased drill availability and lower production cost.

Operation

Disc springs are utilized within the connector assembly to allow for a certain amount of axial movement between the drill stem and the rotary drive. The disc springs will accommodate operating loads ranging from 8,000 to 120,000 pounds thus in most cases, this will help to maintain the tri-cone bit in continuous contact with the formation thereby reducing the possibility of fracturing or breaking the carbides in the bit. Urethane drive blocks located within the connector assembly serve to provide 100% transfer of rotary torque from the drive spindle to the drill stem as well as absorb torsional vibration transferred by the bit.

Application

Foremost Cushion Connectors are utilized on mid-range and large blast hole drills, which are utilized in production mining applications around the world. The opportunity to select from any one of four independent assemblies allows the operations personnel to select the connector that is most suitable for the drilling application and equipment preferred to perform the drilling. Typical applications would include but not be limited to coal, iron ore, copper, and gold mining operations. In most cases, no modifications are required to the drill. Installation of the connector is made directly into the rotary drive spindle via a threaded connection and usually a saver sub is utilized on the lower end of the connector to make up to the drill stem.

Performance

Foremost Cushion Connectors have proven track records in a variety of locations and applications. It is not uncommon to increase drill availability by an average of 15% to 20% and decrease maintenance cost by 25% to 40%. An average return on investment can be as few as 6 to 12 months. Typical replacement of seals and wear items within the connector assembly may be required on an annual basis, however, the cost is extremely low when compared to other competitor products.

FOREMOST

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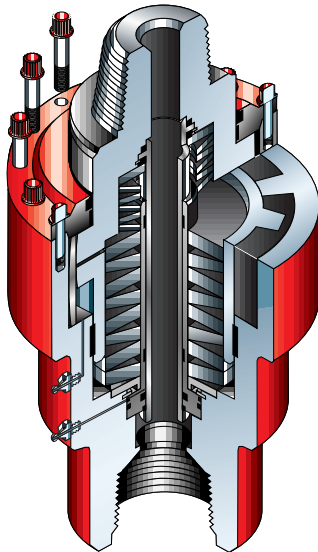
INCREASE PRODUCTION — REDUCE MAINTENANCE

Features

- 100% rotary torque transfer capability
- Controlled axial movement
- Alloy steel construction for increased wear life and strength
- Available with standard thread configurations
- Disc springs incorporated for various drill applications
- Replaceable wear parts, seals, guide rings etc.

Benefits

- No H.P. loss between the rotary drive and the drill stem
- Vibration and shock loading is drastically reduced
- Rebuild cost is fractional compared to competitor products
- No modifications are required to the operators drill
- Shock reduction is achieved under all types of drilling conditions
- Repairs and maintenance can be accomplished at the mine site

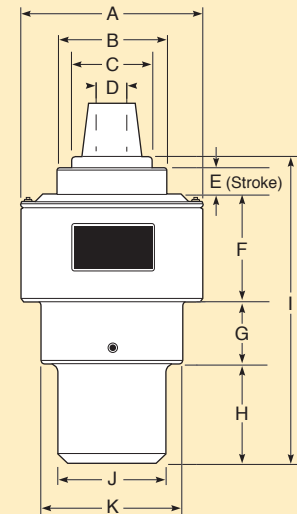


Specifications

Cushion Connector Model Number	Recommended Pull Down Load Range (000's of lbs)	Torque Rating (HP @ 100 rpm)	Weight (lbs)
14-30-6353	8 to 40	265	660
14-40-6353	12 to 50	265	670
14-50-6353	12 to 60	265	680
18-120-6363	20 to 120	400	1000

Dimensions

	14-30-6353	14-40-6353	18-120-6363	14-50-6353
A	18"	14 1/2"		
B	11"	9 1/2"		
C†	10 3/4"	9"		
D‡	2 3/4"*	2 3/4"*		
E	2"	2"		
F	9"	9"		
G	7 1/2"	4"		
H	9"	8 1/4"		
I	29"	26"		
J†	10 3/4"	9 1/2"		
K	14"	12"		



Ordering Information

- Cushion connector model number
- Drill manufacturer and model
- Maximum pull down
- Average pull down
- Pin and box thread type and size
- Drill steel diameter
- Break-out configuration (sketch of details may be required)

† maximum
 ‡ standard through bore
 * may be reduced by pin connection

Foremost Industries Inc.

1225 - 64th Avenue NE, Calgary, Alberta, Canada T2E 8P9
 Tel: 403-295-5800 • Fax: 403-295-5810 • E-mail: sales@foremost.ca
 1-800-661-9190 Canada/U.S.A. • www.foremost.ca

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