

**MODEL
306430**

FLOATING CUSHION SUB

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FUNCTION & OPERATION

To provide a means of mating together threaded connections on drillpipe without heavily loading the flanks of the threads. By incorporating a certain amount of axial movement below the rotary drive spindle, the sliding spindle of the cushion sub will allow the threads of the mating drill string components to float either together or apart during rotation without any movement of the rotary head. This amounts to only the friction and weight of the sliding spindle in the cushion sub on the threads of the drill components rather than the weight of the complete rotary drive.

PERFORMANCE

Reduction in both axial and torsional shock during the drilling operation will decrease maintenance to the drill and extend the life of valuable components. Thread damage to drill pipe and bits during the thread make-up and break-out process will be virtually eliminated by utilizing the floating spindle within the cushion sub. The end result will be increased drill performance, higher drill utilization and lower operating costs.

APPLICATION

The Model 306430 Floating Cushion Sub has been designed specifically to fit all mid range and large blast hole rotary drills which are utilized in soft to medium hard rock formations. The sub will accommodate various drill string combinations up to and including nine and one quarter inch drill pipe diameters. Although the main purpose of the sub is to reduce damage to the threads on the drill string, the unique configuration of the drive system and the cushions incorporated into the design will also provide both axial and torsional dampening of shock and vibration generated by the bit in either DTH or rotary drilling applications.

**INCREASE PRODUCTION TIME.
PROTECT YOUR INVESTMENT.**



FOREMOST

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FLOATING CUSHION SUB

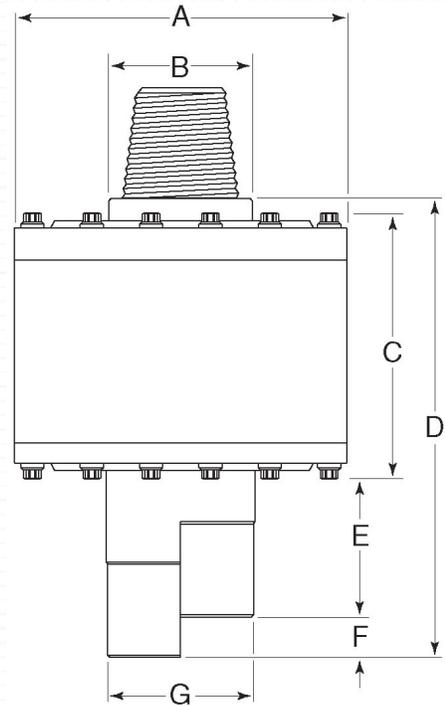
SPECIFICATIONS

Model: 306430

Hoist	200,000 lbs.
Pulldown	200,000 lbs.
Torque	30,000 ft-lbs.
Stroke	2.50 inch
Weight	1,050 lbs.

DIMENSIONS

A	18.00"
B (max.)	9.00"
C	16.37"
D	29.50"
E	8.00"
F (ext.)	2.50"
G (max.)	9.00"



FEATURES

Sliding spindle with 2 ½ inches of extension

Standard seals, wipers and wear rings are utilized to isolate drilling fluids and air

Unique drive system to transfer rotary torque to the drill string

Precision machined components manufactured from high strength alloy steel

Manufactured to suit O.E.M. drill specifications

Large through bore in a stationary wash pipe assembly

Heavy duty urethane upper and lower cushions

BENEFITS

Sliding spindle reduces thread damage to drill pipe and allows drill operators to quickly and easily make-up and breakout connections

Reduced maintenance to rotary drive bearings and gears

Repairs and rebuilds can be accomplished at the mine property

No modifications to the carousel or drill are required

No restriction of air flow to the bit

Maintenance costs on the drill and drilling tools are greatly reduced

Shock reduction in torsional and axial directions

ORDERING INFORMATION

Drill make and model

Thread type and size

Spindle and pipe diameter

Breakout flat details

