Bulldog APS Automated Power Slips



Product Description

The Bulldog Automated Power Slips feature a flush floor design to eliminate tripping hazards, prevent lifting and remove pinch points.

Ease of maintenance is achieved through quick-change die blocks and symmetrical slip housing. HMH's Automated Power Slips are designed for easy integration with the ES Pipe Cleaning System. They feature quick-disconnect, selfenergizing lower centralizers, which prevent pipe contact and contribute to the enhanced performance of the power slips.

Key Features

OPERATIONAL

- Quick change inserts, symmetrical slip housing
- Low profile reduces collision hazards
- Designed for integration with the ES Pipe Cleaning System

PERFORMANCE

- Self-energizing die blocks
- Optional built-in centralizer

- Die profiles designed for grip and applying torque 56 000 ft-lbs (75 926 Nm)
- Quick disconnect and rig-up/down

Benefits

SAVES COSTS

- Optional upper centralizer stabilizes the pipe whip during drilling
- Lower centralizer prevents pipe impact with dies, extending life of dies
- Easy removal and separation for bit pass-through
- Quick change die holder blocks saves time on well and reduces perceived NPT
- Off the shelf slip die inserts

SAFER

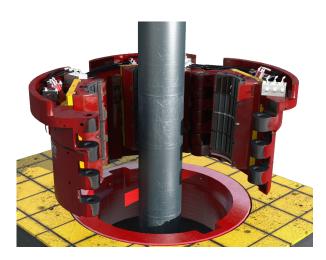
• Eliminates manual pipe handling and personnel around the rotating zone

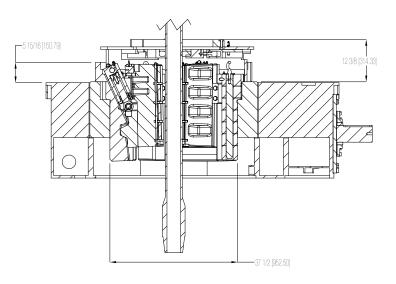
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- Interlocks for open / close / set to prevent pipe drop
- Low profile design helps to reduce tripping hazards



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Technical Specifications

Bulldog APS Automated Power Slips					
	APS 275		APS 275		
Slip Sizes - Rotary Table	27 ½ in / 698 mm		37 ½ in / 953 mm		
Slip Rating	Up to 500T / 453.6 mT		Up to 500T / 453.6 mT		
Slip Length	22 ¾ in / 457 mm		22 ¾ in / 457 mm		
Pipe Inserts Min	2 1/8 in / 73 mm		2 ¾ in / 73 mm		
Pipe Inserts Max	10 % in / 276 mm 14		14 ½ in / 368 mm		
Die Inserts	Varco	Varco Varco			
Hydraulic Feedback	Position and Pressure		Position and Pressure		
Controls	Hydraulic/Electric		Hydraulic/Electric		
RIG INTERFACE					
Input Command	Slips Open / Close		Slips Open / Close		
Feedback	Slips Open		Slips Open		
Feedback	Slips Closed		Slips Closed		
Feedback	Slips Set		Slips Set		
OPERATIONAL					
Height Overall	30 ¼ in / 770 mm		30 ¼ in / 770 mm		
Height Above Floor	5 ¹⁵ / ₁₆ in / 150.8 mm		5 ¹⁵ / ₁₆ in / 150.8 mm		
With Centralizer	12 ¾ in / 314.3 mm		12 ¾ in / 314.3 mm		
Weight With Centralizer	~ 4 800 lbs / 2 200 kg (dependent on insert size)		~ 6 200 lbs / 2 800 kg (dependent on insert size)		
Max Backup Torque	56 000 ft*lbs / 75 000 Nm		56 000 ft*lbs / 75 000 Nm		
Req. Hydraulic Pressure	3 000 PSI / 206 Bar		3 000 PSI / 206 Bar		
Max Return line Press	100 psi / 7 bar		100 psi / 7 bar		
Req. Hydraulic Flow	12 gpm / 45 lpm		12 gpm / 45 lpm		
CERTIFICATION					
Design Certification	API 7K		API 7K		
Electrical Rating	Flame Proof Ex db Zone 1, 2G ATEX I Europe International	ECEx -	Flame Proof Ex db Zone 1, 2G ATEX IECEx - Europe International		
DRILL PIPE PERFORMANCE	MAX VERTICAL DEPTH BASED ON API CRUSH	CASING PERFORMANCE	MAX VERTICAL DEPTH BASED ON API CRUSH		

DRILL PIPE PERFORMANCE	MAX VERTICAL DEPTH BASED ON API CRUSH	CASING PERFORMANCE	MAX VERTICAL DEPTH BASED ON API CRUSH
4 in / 102 mm	24 400 ft / 7 440 m	7 in / 178 mm (Q-125)	21 000 ft / 6 400 m
5 in / 127 mm	22 400 ft / 6 830 m	9 5/8 in / 245 mm (Q-125)	18 000 ft / 5 500 m
5.5 in / 140 mm	21 000 ft / 6 400 m	13 ¾ in / 346 mm (Q-125)	15 000 ft / 4 570 m

