

PIPE HANDLING EQUIPMENT

GENERAL CATALOG • HANDLING TOOLS

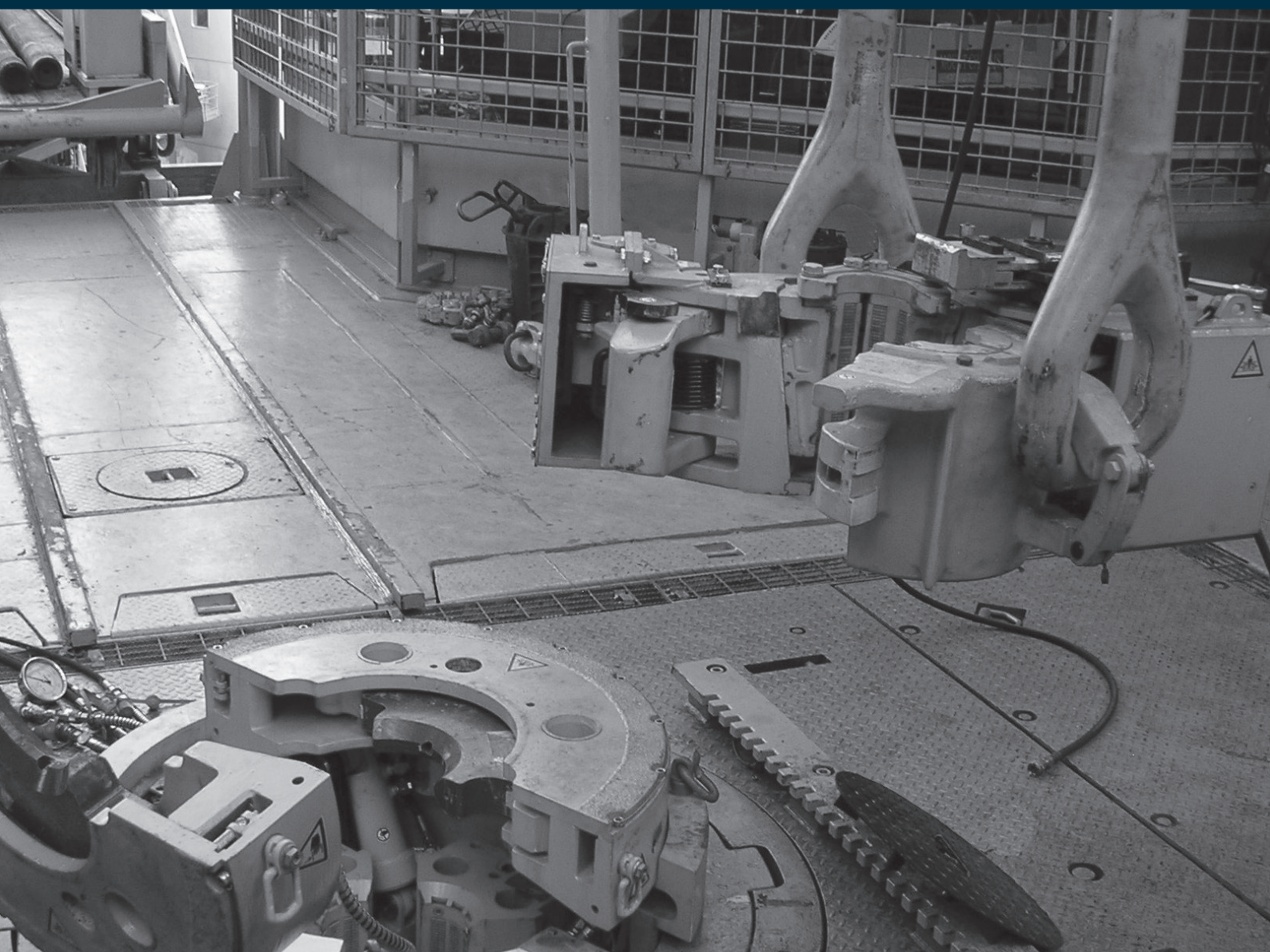
US: +1 337-373-1880

 EU: +49 40 37022 6855

UAE: +971 4 883 5266

 f-e-t.com/drilling

 US: handling.tools@f-e-t.com
EU: oiltools@f-e-t.com



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General Information

The manufacturing and assembly facilities of FORUM are located in the port of Hamburg, Germany and in Broussard, Louisiana, USA.

www.f-e-t.com

Applicable Standards & Approvals

Manufacturing, Quality/Safety Standards: API-8C, API-7K, API-Q1, CE, ATEX, GOST / DECLARATION, NORSOK R002

Type Approvals Classification Societies: ABS, DNV-GL



Testing Capabilities

Elevator Load Test Units up to 4000 ton

Torque Testing Unit up to 250 000 ft/lbs

Elevator Link Pull Test Units up to 1020 ton/set, max. 720" (60 ft)

Slip Test Units up to 3200 ton

All Load Capacities in Short Ton unless stated otherwise.

Introduction

FORUM has been a leading manufacturer of Pipe Handling Equipment for the Oil and Gas Industry for over 45 years. In 2013, we combined the legacy product lines of AOT (est. 1984) and B+V (est. 1972).

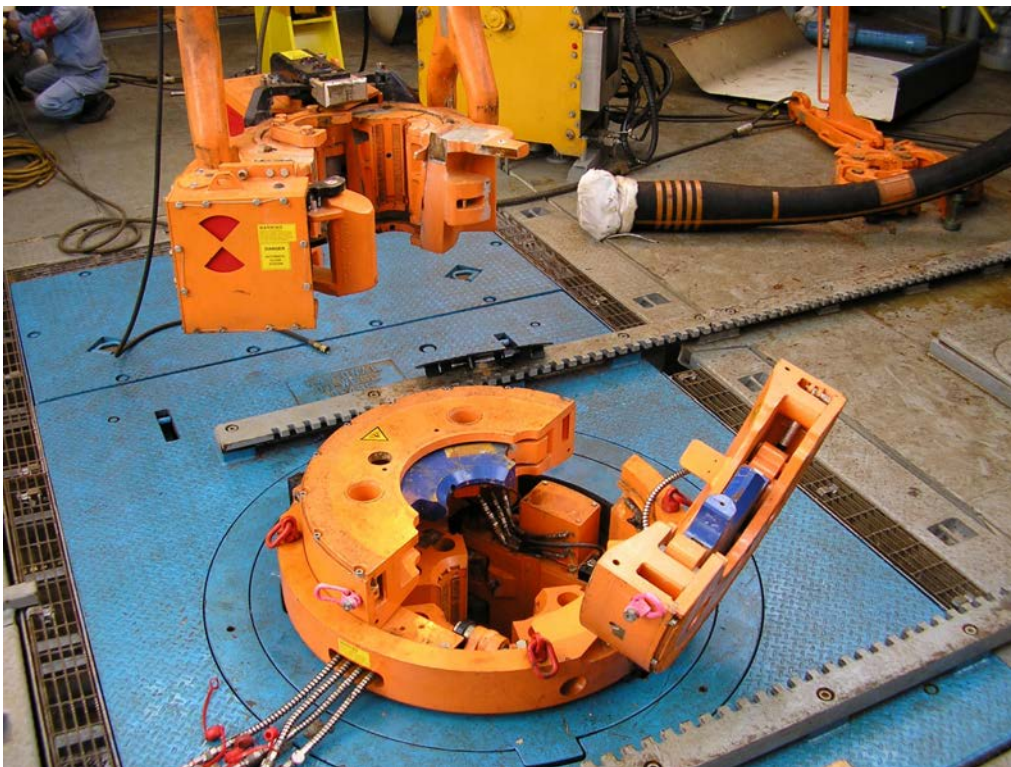
Today FORUM offers an extensive, innovative portfolio of Handling Tools up to 1750 ton load capacity, which meets and exceeds the on- and offshore market requirements worldwide.

Our products are designed and manufactured in Hamburg, Germany in accordance with the latest standards of the American Petroleum Institute (API).

Customer satisfaction is the highest priority of our dedicated professionals. To be your preferred partner for innovative Pipe Handling Solutions.

FORUM OFFERS

- Hydraulic, pneumatic and manual Elevators up to 1500 ton
- Elevator / Spiders up to 1000 ton
- Elevator Links, Link Extensions, Link Connections up to 720" length and up to 1750 ton capacity
- Power Slips from 350 up to 1500 ton
- Bushing Type Elevators which allow the user to utilize one Elevator frame for various pipe sizes
- Drill Pipe Spinners
- Casing Bushings & Hinged Casing Spiders
- Manual Tongs up to 160 000 ft/lbs
- Manual Slips
- Safety Clamps
- Master Bushings
- Load Rated Master Bushing up to 1500 ton
- Slip Lifter / BackSaver
- Rotating Mousehole
- Spare Parts & Inserts



NEW PRODUCT DEVELOPMENTS

SDL-250/1

DESCRIPTION

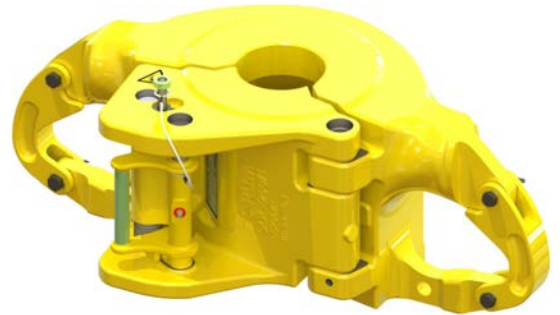
The SDL series are weight optimized side door elevators designed for one hand operation

FEATURES

- Latch with safety latch lock
- "Elevator closed" verification pin
- Safe area operating handles

Additional information on page 22

SDL-250/1				
P/N Elevator	Weight	Link Size	Load Rating	Range
652510-Y-BC	158 kg	250-500	250 ton	4.1/2" - 6.5/8"



SDL-250/1

AMP-350/1

DESCRIPTION

The AMP-350/1 combines efficiency and safety features of the AMP series with compact and weight optimized design

FEATURES

- Mechanically operated Latch Lock when load is attached
- Swivel Motor for opening/closing actuator
- New Trigger system setting for easier bushing installation
- Weight optimized bushing design

Additional information on page 13

AMP-350/1				
P/N Elevator	Weight	Link Size	Load Rating	Range
639100-Y	758 kg	250-500	350 ton	2.3/8" - 6.5/8" DP / 7.5/8" CSG



AMP-350/1

Note: For BC (Bore Code) please see Page 64-66

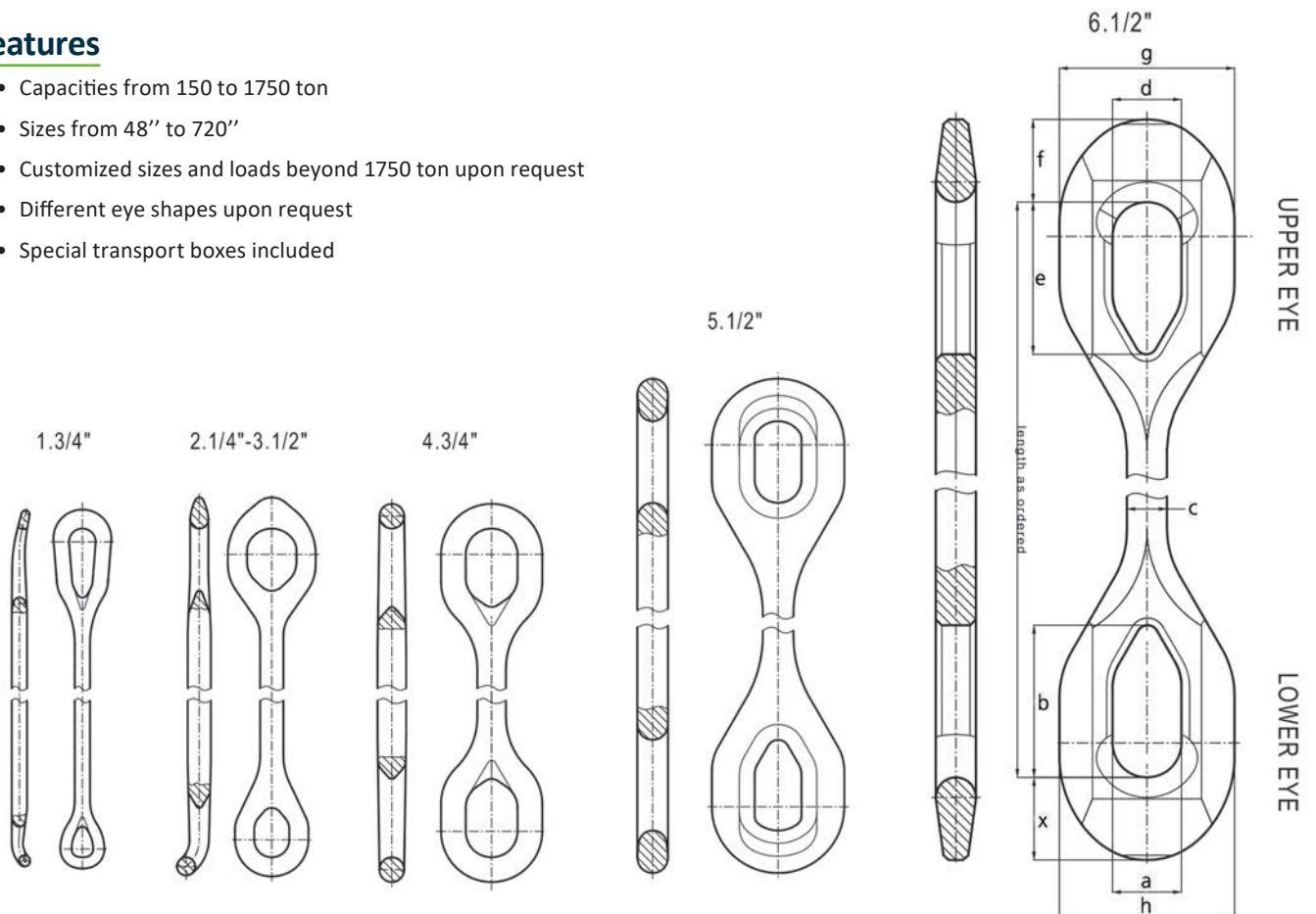
LINKS / BAILS

Description

Elevator Links connect Top Drive and Elevator to lift and hold heavy tubulars. FORUM's links are forged from one single piece of high grade steel, to reach strength. FORUM offers lengths between 48" & 720" and up to 1750 ton capacity.

Features

- Capacities from 150 to 1750 ton
- Sizes from 48" to 720"
- Customized sizes and loads beyond 1750 ton upon request
- Different eye shapes upon request
- Special transport boxes included



DIMENSIONS										
Ton	Size	x	a	b	c	d	e	f	g	h
150	1.3/4"	2.1/4"	4.3/16"	5.1/2"	3"	5.1/4"	13"	3.3/4"	11.3/8"	8.1/2"
250	2.1/4"	2.2/5"	5.1/2"	8"	3"	8"	10.1/4"	5"	14.1/8"	10.1/4"
350	2.3/4"	2.3.8"	5.53/64"	8"	3.2/3"	9.1/4"	11.3/4"	5.3/8"	15.3/4"	11.13/16"
500	3.1/2"	3.1/2"	6.3/4"	10.1/4"	4.1/2"	9.1/2"	12"	6.1/16"	17.3/8"	14"
750	4.3/4"	4.3/4"	10"	15"	5.1/2"	10"	15"	4.3/4"	19.1/2"	19.1/2"
1000	5.1/2"	8.3/16"	12.1/2"	17.1/2"	5.1/2"	12.3/4"	17.1/2"	8.3/16"	25.1/2"	25.1/2"
1250	5.1/2"	8.3/16"	12.1/2"	17.1/2"	5.1/2"	12.1/2"	17.1/2"	8.3/16"	25.1/2"	25.1/2"
1500	6.1/2"	6.1/2"	12.1/2"	17"	6.45/64"	12.1/2"	17"	6.1/2"	25.1/2"	25.1/2"

All shown values in the table are nominal values and not toleranced. These values should not be used for integration or fitting purposes. Should be taken for anything like integration or fitting purposes. Contact FET to get accurate toleranced dimensions!

Hoisting Equipment

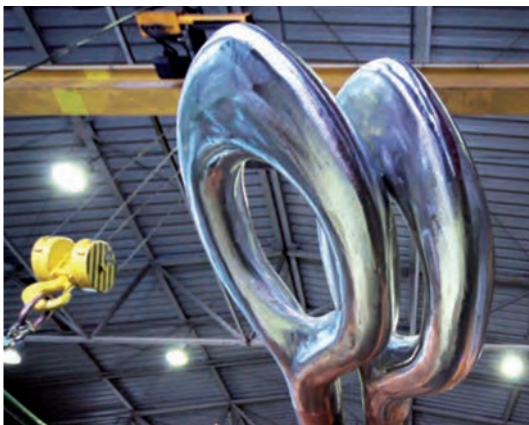
LINKS		
Load Rating	Size	P/N
150 ton	1.3/4" x 48"	134 048-Y
	12" increases	
	1.3/4" x 360"	134 360-Y
250 ton	2.1/4" x 48"	214 048-Y
	12" increases	
	2.1/4" x 480"	214 480-Y
350 ton	2.3/4" x 48"	234 048-Y
	12" increases	
	2.3/4" x 720"	234 720-Y
500 ton	3.1/2" x 72"	312 072-Y
	12" increases	
	3.1/2" x 720"	312 720-Y
750 ton	4.3/4" x 72"	434 072-Y
	12" increases	
	4.3/4" x 720"	434 720-Y
1000 ton	5.1/2" x 96"	512 096-Y
	12" increases	
	5.1/2" x 540"	512 540-Y
1250 ton	6.1/2" x 120"	512 120-Z-1250
	12" increases	
	6.1/2" x 240"	512 240-Z-1250
1500 ton	6.1/2" x 120"	612 120-Z-1500
	12" increases	
	6.1/2" x 240"	612 240-Z-1500
1750 ton	6.1/2" x 120"	612 120-Z-1750
	12" increases	
	6.1/2" x 240"	612 240-Z-1750

Build your P/N

Example	134	048	-Y*
			-Z**
	Size	Length	Suffix



-Y for API 8C-PSL1 **-Z for API 8C-PSL2



Length - Available sizes/inch (")									
ton	150	250	350	500	750	1000	1250	1500	1750
48	48	48							
60	60	60							
72	72	72	72	72	72				
84	84	84	84	84	84				
96	96	96	96	96	96	96			
108	108	108	108	108	108	108			
120	120	120	120	120	120	120	120	120	120
132	132	132	132	132	132	132	132	132	132
144	144	144	144	144	144	144	144	144	144
150	150	150	150	150	150	150	150	150	150
156	156	156	156	156	156	156	156	156	156
168	168	168	168	168	168	168	168	168	168
180	180	180	180	180	180	180	180	180	180
192	192	192	192	192	192	192	192	192	192
204	204	204	204	204	204	204	204	204	204
216	216	216	216	216	216	216	216	216	216
228	228	228	228	228	228	228	228	228	228
240	240	240	240	240	240	240	240	240	240
252	252	252	252	252	252	252			
264	264	264	264	264	264	264			
276	276	276	276	276	276	276			
288	288	288	288	288	288	288			
300	300	300	300	300	300	300			
312	312	312	312	312	312	312			
324	324	324	324	324	324	324			
336	336	336	336	336	336	336			
348	348	348	348	348	348	348			
360	360	360	360	360	360	360			
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	564	564	564						
	576	576	576						
	588	588	588						
	600	600	600						
	612	612	612						
	624	624	624						
	636	636	636						
	648	648	648						
	660	660	660						
	672	672	672						
	684	684	684						
	696	696	696						
	708	708	708						
	720	720	720						

LINK CONNECTORS

Description

Link Connectors connect the upper and lower eyes of standard API 8C Elevator Links in an ergonomic and weight-optimized manner. The robust design and quick installation allow safe and efficient lifting of equipment around the well center and drill floor.

Features

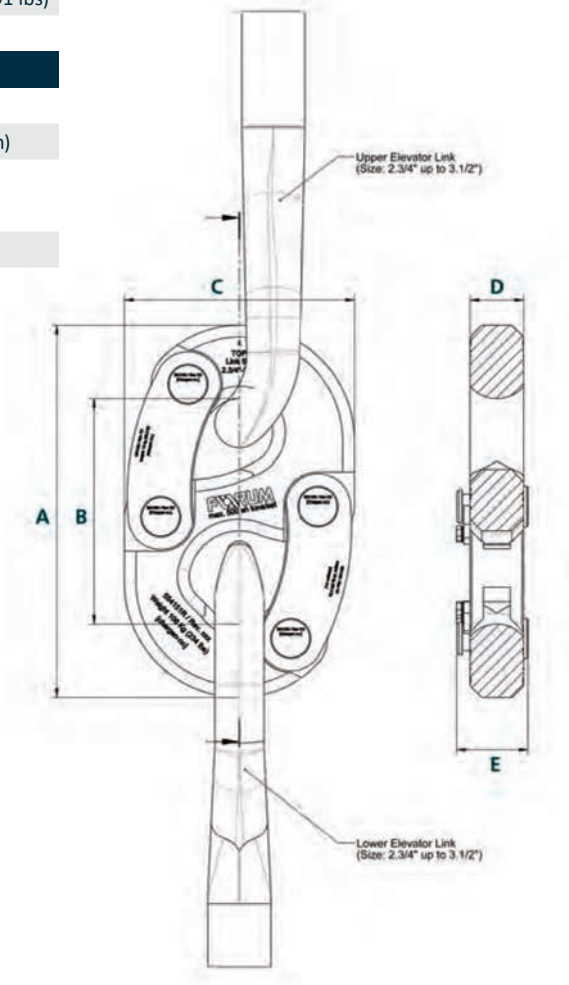
- Available in 350 & 500 ton, other capacities upon request
- Increase length of the total link connection system by 16.54"
- Proof load tested with 1,5 times max load rating
- API 8C specified radii



LINK CONNECTORS

LINK CONNECTORS			
Load Rating	Size	P/N	Weight (pair)
350 & 500 ton	2.3/4" & 3.1/2"	554 150*	313 kg (691 lbs)

DIMENSION LINK CONNECTORS		
A	B	C
27.3 inch (695 mm)	16.54 inch (420 mm)	16.93 inch (430 mm)
D	E	
3.94 inch (100 mm)	5.24 inch (133 mm)	



*Add _IM for imperial screws.

Patent US20170284438A1

LINK EXTENSIONS

Description

The Link Extensions connect to the existing standard links, eliminating the need to remove the standard Links to install extra-long links. As a result, downtime is decreased and there is no need for an additional set of extra-long elevator links.

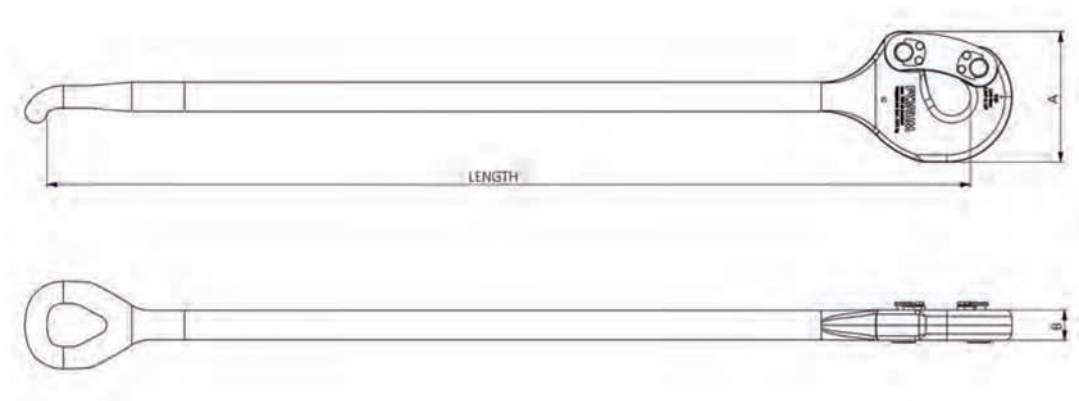
Features

- 350 ton or 500 ton load rating per set
- Length ranges from 48" to 144"
- All radii specified by API 8C



LINK EXTENSION

Link Extensions						
P/N	Upper Link Size		Length	Dim. A	Dim. B	Weight/set
Metric [Imperial]	Min	Max [in]	in [mm]	in [mm]	in [mm]	lb [kg]
234 048-Y-LE2 [-Im]	2.3/4"	3.1/2"	48" [1219]	16.9 [430]	3.9 [100]	819.5 [371,7]
234 072-Y-LE2 [-Im]	2.3/4"	3.1/2"	72" [1829]	16.9 [430]	3.9 [100]	975.5 [442,5]
234 096-Y-LE2 [-Im]	2.3/4"	3.1/2"	96" [2438]	16.9 [430]	3.9 [100]	1131.4 [513,2]
234 108-Y-LE2 [-Im]	2.3/4"	3.1/2"	108" [2743]	16.9 [430]	3.9 [100]	1248.3 [566,2]
234 120-Y-LE2 [-Im]	2.3/4"	3.1/2"	120" [3048]	16.9 [430]	3.9 [100]	1287.3 [583,9]
234 132-Y-LE2 [-Im]	2.3/4"	3.1/2"	132" [3353]	16.9 [430]	3.9 [100]	1365.3 [619,3]
234 144-Y-LE2 [-Im]	2.3/4"	3.1/2"	144" [3658]	16.9 [430]	3.9 [100]	1443.3 [654,7]



PERFECTION LINKS

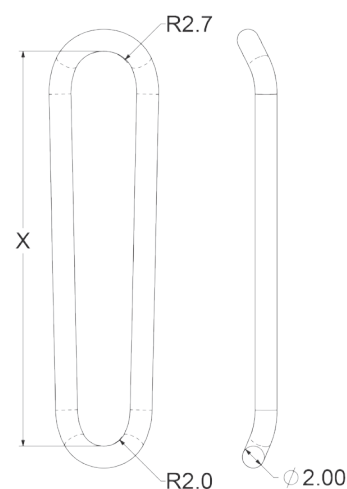
Description

FORUM Perfection Links are designed to be used with a standard Drill Pipe Elevator and becket for light loads when pulling drill collar and are load rated for 150 ton.

Features

- Available in 42" lengths

PERFECTION LINKS



PERFECTION LINKS				
Load Rating*	Description	P/N	Weight	Dimension X
150 ton	2" x 42" Perfection Links (Set)	200-042-Y	78 kg (172 lbs)	42" (1067mm)

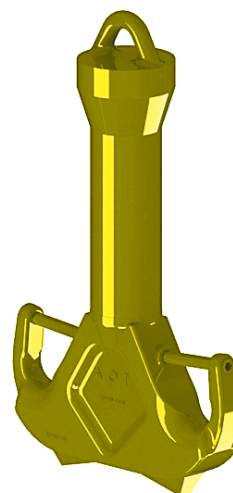
BECKETS

Description

FORUM Beckets are designed to be used with a standard drill pipe elevator and perfection links for light loads when pulling drill collar and are load rated for 150 ton.

Features

- Available in 4 sizes with 18° taper
- Available with NC 38 connection for use with lift sub
- Designed and tested to API 8C requirements



STANDARD BECKET

BECKETS				
Description	P/N	Compatible Bore Codes**	Load Rating	Weight
Drill Collar Lift Becket, Bore 121-123	E31189-105-109.09	121, 122, 123	150 ton	93 kg (205 lbs)
Drill Collar Lift Becket, Bore 121 and 124	E31189-107-111.09	121, 124	150 ton	99 kg (218 lbs)
Drill Collar Lift Becket, Bore 122-124	E31189-122-124	122, 123, 124	150 ton	106 kg (234 lbs)

*Rating is for the Set of Perfection Links

**BC = Bore Code - For Bore Code please see Page

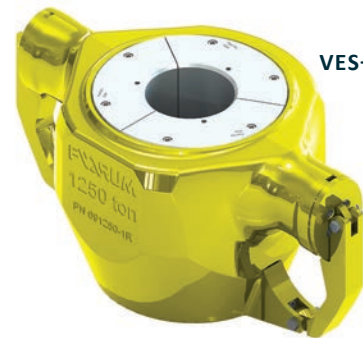
SOLID BODY ELEVATOR

Description

The Solid Body Elevator (SBE) is designed for handling riser running tools with either fixed or detachable couplings. A solid forged design with highest strength material allows loads up to 1250 ton.

Features

- Pipe range from 5" – 12.3/4"
- Other sizes upon request
- SBE with fixed bore code
- VES-SBE bushing system for RRT with detachable couplings
- Manufactured according to API 8C PSL2


SBE-1250

VES-SBE-1250

SOLID BODY ELEVATOR (SBE-1250)

Type	Range	Load Rating	P/N	Weight*	Link Size
SBE-1250	5" – 12.3/4"	1250 ton	691 250-Z-BC**	1820 kg (4012 lbs)	1000 – 1500
VES-1-SBE-1250***	5" – 8.5/8"	1250 ton	691 250-Z-VES-1	1610 kg (3549 lbs)	1000 – 1500
VES-2-SBE-1250***	8.3/4" – 9.5/8"	1250 ton	691 250-Z-VES-2	1550 kg (3417 lbs)	1000 – 1500
VES-3-SBE-1250***	9.7/8" – 12.3/4"	1250 ton	691 250-Z-VES-3	1485 kg (3274 lbs)	1000 – 1500

SOLID BODY ELEVATOR BUSHING TYPE (VES-SBE-1250)

VES-1-SBE-1250***	Size	P/N
	6.5/8"	691 253-1-531
	7"	691 253-1-530
	8"	691 253-1-532
	8.1/2"	691 253-1-533
	8.5/8"	691 253-1-544
VES-2-SBE-1250***	Size	P/N
	8.3/4"	691 253-2-534
	9.29"	691 253-2-537
	9.40"	691 253-2-539
	9.5/8"	691 253-2-538
VES-3-SBE-1250***	Size	P/N
	12.3/4"	691253-3-543
	9.5/8"	691253-3-540

*Weight without Bushings

** BC = Bore Code - For Bore Code please see Page 64-66

***Variable Elevator System with interchangeable Bushing System


**VES-SBE-1250 WITH
RISER RUNNING TOOL**

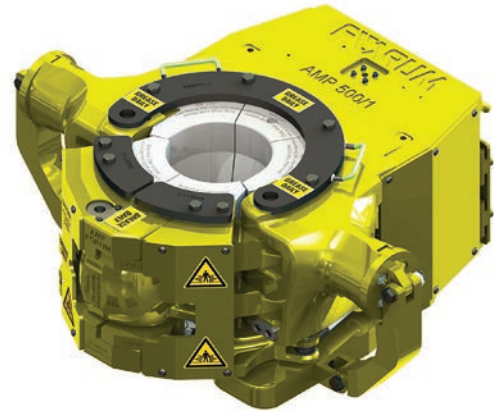
AUTOMATED MULTI PIPE ELEVATOR

Description

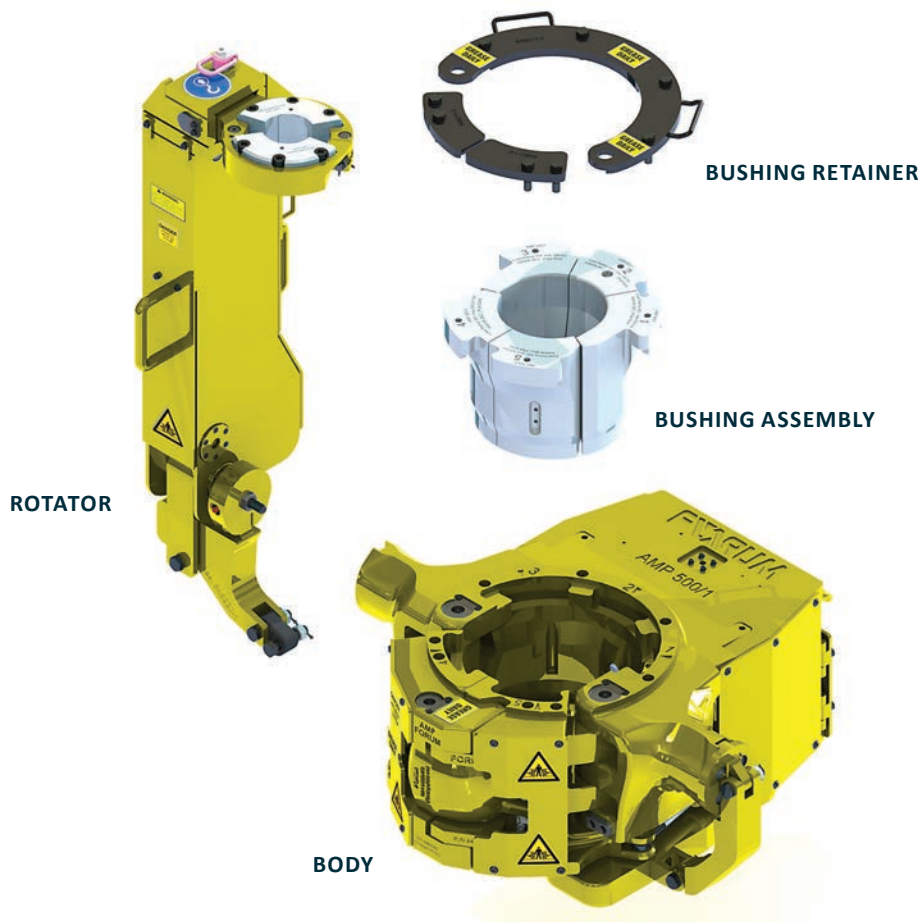
The AMP Elevator is a hydraulic double door bushing type Elevator for handling tubulars between 2.3/8" – 22" and loads from 350 to 1500 ton.

Features

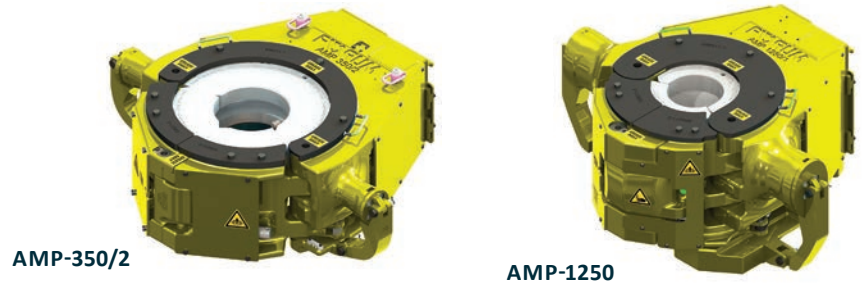
- Integrated load cell for increased safety
- Trigger closing mechanism
- "Elevator closed" feedback signal
- Interfaces with Top Drives of all OEMs
- Optional rotator systems:
- Single acting (+90° doors up)
- Double acting (+90° doors up / -55° doors down)



AMP-500/1



AUTOMATED MULTI PIPE ELEVATOR



AMP ELEVATORS

	AMP-350/1	AMP-350/2	AMP-500/1	AMP-500/2
P/N with BV and VC control	639100-Y	638200-Y	648100-Y	648200-Y
Bushing Assembly	639106-BC	638206-BC	648006-BC	648206-BC
AMP Rotator System	678800-350	678800-350	678800-500	678 800-500
AMP Rotator System (Single)	678811-350	678811-350	678811-500	678811-500
Hook Up Kit	639100-HUK	648100-HUK	648100-HUK	648100-HUK
Pipe Size	6.5/8" DP / 7.5/8" CSG	9.5/8" – 20"	2.3/8 – 11"	9.5/8" – 22"
Load Rating	350 ton / 18°	350 ton / 18°	500 ton / 18°	500 ton / 90°
Length [mm]/[inch]	697 / 27,4"	1157 / 45.55"	1092 / 43"	1260 / 49.60"
Width [mm]/[inch]	1097 / 43,2"	1382 / 54.41"	1150 / 45.27"	1562 / 61.49"
Height [mm]/[inch]	475 / 18,7"	442 / 17.4"	465 / 18.3"	470 / 18.50"
Ear to Ear [mm]/[inch]	755 / 29,7"	1050 / 41.34"	830 / 32.68"	1200 / 47.24"
Weight*	800 kg (1764 lbs)	1020 kg (2249 lbs)	1000 kg (2205 lbs)	1300 kg (2866 lbs)
Link Size [t]	250 - 500	350/500	500/750	500/750

	VES-SD-500/3	AMP-750/1	AMP-1000/1	AMP-1250/1
P/N with BV and VC control	646600-Y	678100-Y	618100-Y	688000-Y
Bushing Assembly	645600-BC	678106-BC	618106-BC	688006-BC
AMP Rotator System	678800-500	678800-750	678800-1000	678800-1250
AMP Rotator System (Single)	678811-500	678811-750	678811-1000	678811-1250
Hook Up Kit	675100-HUK	648100-HUK	648100-HUK	648100-HUK
Pipe Size	20" – 30"	2.3/8" – 11"	2.3/8" – 11"	5.1/2" – 9.7/8"
Load Rating	500 ton / 90°	750 ton / 18°	1000 ton / 18°	1250 ton / 18°
Length [mm]/[inch]	1550 / 61.02"	1105.5 / 43.52"	1105.5 / 43.52"	1181.4 / 46.5"
Width [mm]/[inch]	2016 / 79.37"	1370 / 53.94"	1370 / 53.94"	1432 / 56"
Height [mm]/[inch]	490 / 19.29"	571 / 22.5"	571 / 22.5"	643.4 / 25.33"
Ear to Ear [mm]/[inch]	1715 / 67.52"	960 / 37.8"	960 / 37.8"	1050 / 41.34"
Weight*	1980 kg (4365 lbs)	1430 kg (3153 lbs)	1430 kg (3153 lbs)	2018 kg (4449 lbs)
Link Size [t]	500	750/1000	750/1000	1250/1500

CONTROL OPTIONS

AMP/SD Manifold	645002-EL	645002-EL	645002-EL	645002-EL
Rotator Manifold (hydraulic)	678190-H	678190-H	678190-H	678190-H
Rotator Manifold (electric)	678190-EL	678190-EL	678190-EL	678190-EL
Stand-alone Control Unit	757190	757190	757190	757190

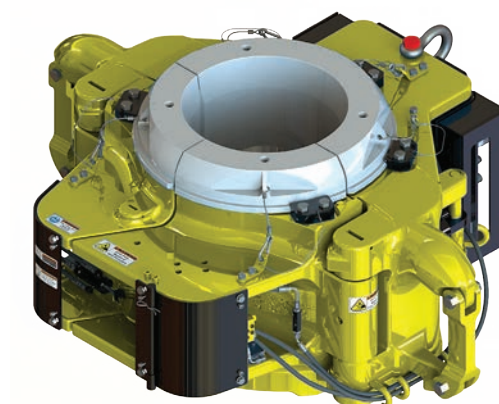
AUTOMATED SIDE DOOR ELEVATOR – ASD

Description

FORUM's hydraulically-operated, fully Automated Side Door Elevator (ASD) quickly and safely picks up many ranges of casing and other tubulars, enabling safe hoisting and movement within the derrick and around the rig floor. Additionally, the ASD is equipped with multiple safety features and operator feedback options. All components are designed, manufactured and tested to the latest API 8C edition.

Features

- Directly compatible with various lock out systems
- Hydraulic or Pneumatic Feedback Signals
- Plug-and-Play with most Operating Systems
- Optional Control Panel
- Uses common HPU pressures and flowrates improving efficiency through use of existing rig systems
- Dual bulkhead equipped for variable operating systems
- Streamlined Design for minimal operational space required
- Provides both hydraulic and pneumatic closed feedback



ASD-IB ELEVATOR

ASD ELEVATORS (Without Bushings)					
Type	Range	P/N	90° Load Rating	Weight	Link Size
ASD-350/4	30" – 36"	E40700-06 -BC**	350 ton	2440 kg (5380 lbs)	350 – 1250

** BC = Bore Code - For Bore Code please see Page 64-66

HYDRAULIC OPERATED ELEVATORS

Description

FORUM's Hydraulic Center Latch Elevators are equipped with a bushing system to handle tubulars with square and tapered load shoulders between 2.3/8" - 7".

Features

- Pipes from 2.3/8" - 7"
- Capacities from 150t to 350t
- For drill pipe, casing, drill collar, tubing and RRT
- "Elevator closed" feedback signal
- Optionally available with wear bushing to minimize wear and to decrease the noise level
- Interfaces with Top Drives of all OEMs



VES-CL-250


VES-CL
BUSHING

HYDRAULIC VES-CL SERIES (WITHOUT BUSHINGS)					
Type	Range	P/N	Load Rating	Weight	Link Size
VES-CL-150	2.3/8" – 5.1/4"	611 900-Y-H-TF**	150 ton	132 kg (290 lbs)	150 – 350
VES-CL-250	2.3/8" – 5.1/4"	612 900-Y-H-TF**	250 ton	255 kg (563 lbs)	250 – 500
VES-CL-350	2.3/8" – 7"	613 000-Y-H-F**	350 ton	425 kg (937 lbs)	250 – 500

Calculated sound pressure level: 87,8 dB(A)

VES-CL BUSHINGS	
Type	P/N
VES-CL-150/250	612 900-BC*
VES-CL-350/500	613 902-BC*

WEAR BUSHINGS	
Type	P/N
VES-CL-350/500	615 985-BC*

** BC = Bore Code - For Bore Code please see Page 64-66 **add -WB for Wear Bushing option

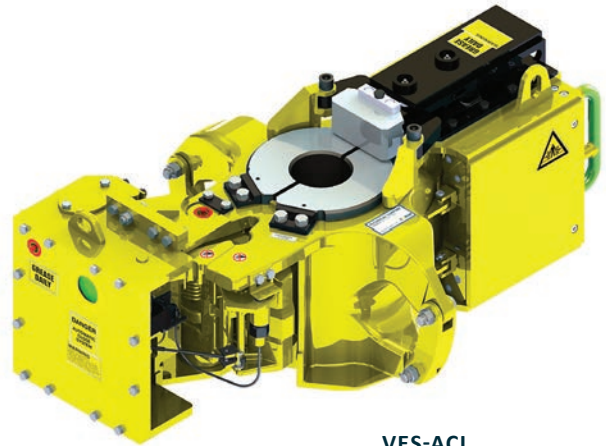
AIR OPERATED ELEVATORS

Description

FORUM's Pneumatic Center Latch Elevators are equipped with a bushing system to handle tubulars with square and tapered load shoulders between 2.3/8" – 7.5/8". The ABVC version can handle flush tubulars by means of an interchangeable slip system.

Features

- Pipes from 2.3/8" – 7.5/8"
- Capacities from 150 to 500 ton
- "Elevator closed" visual feedback
- Optionally available with wear bushing to minimize wear and to decrease the noise level



VES-ACL

AIR OPERATED CENTER LATCH ELEVATOR, BUSHING TYPE (VES-ACL)

Type	Range	P/N	Load Rating	Weight	Link Size
VES-ACL-350	2.3/8" – 7"	613 970-Y	350 ton	494 kg (1090 lbs)	250 – 500

Calculated sound pressure level: 101 dB(A)

AIR OPERATED SLIP TYPE ELEVATOR (ABVC)

Type	Range	P/N	Load Rating	Weight	Link Size
ABVC-150	1.315" – 7"	671 650-Y	150 ton	506 kg (1115 lbs)	150 – 500
ABVC-200	2.3/8" – 7.5/8"	672 600-Y	200 ton	1027 kg (2265 lbs)	150 – 500

VES-ACL BUSHINGS

Type	P/N
VES-ACL-350/500	613 902-BC*

TRIGGER CLOSING TOOL

Type	P/N
ACL-350/500	613 700-TCT
VES-ACL-250	613 700-TCT
VES-ACL-350/500	613 700-TCT

*BC = Bore Code - For Bore Code please see Page 64-66

AMS-125

Description

The AMS-125 is a completely hydraulic operated slip-type elevator to safely handle flush pipes without load shoulder

Features

- Synchronized slip setting sequence
- Booster ensures consistent hydraulic pressure
- Patented
- Hydraulic feedbacks "Slips set" & "Door closed"
- Can handle larger diameters than any other comparable tool


AMS-125/2

AMS-125/1

P/N	Load Rating	Range	Slip Assembly	Guide Plate Assembly	Hook Up Kit	Rotator (Single-Acting)	Rotator (Double-Acting)
638410-Y	125 t	6.5/8" - 17"	638315-BC	638316-BC	638310-HUK	678811-350	678800-350

AMS-125/2

P/N	Load Rating	Range	Slip Assembly	Guide Plate Assembly	Hook Up Kit	Rotator (Single-Acting)	Rotator (Double-Acting)
648410-Y	125 t	13.3/8" - 20"	648315-BC	648316-BC	638310-HUK	678811-500	678800-500

*BC = Bore Code - For Bore Code please see Page 64-66

MANUAL ELEVATORS

Description

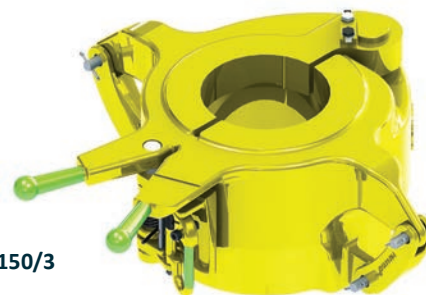
FORUM CL / VES-CL (18° – 90°) and CLS (90°) Series Elevators are manually operated center latch elevators designed to handle pipe sizes from 2.3/8" – 9.5/8" and load ratings from 100 to 1250 ton.

Features

- Pipe sizes from 2.3/8" – 9.5/8"
- Capacities from 150 to 1250 ton
- Optionally available with wear bushing to minimize wear and to decrease the noise level
- Hydraulic version: See page 18



VES-CL-250



CLS-150/3

CL SERIES, 18° TAPER					
Type	Range	P/N	Load Rating	Weight	Link Size
CL-150/2	2.3/8" – 5.1/2"	611 520-Y-BC*	150 ton	165 kg (364 lbs)	150 – 350
CL-250	3.1/2" – 5.1/2"	612 540-Y-BC*	250 ton	255 kg (562 lbs)	250 – 500
CL-350	3.1/2" – 6.5/8"	613 540-Y-BC*	350 ton	326 kg (719 lbs)	250 – 500
F-500	2.3/8" - 7.5/8"	616500-Y-BC*	500 ton	620 kg (1367 lbs)	350 – 750
CL-750	5" – 8.3/4"	617 500-Y-BC*	750 ton	1937 kg (4270 lbs)	750 – 1000
CL-1000	5" – 9.5/8"	611 000-Y-BC*	1000 ton	2313 kg (5100 lbs)	1000 – 1250
CL-1250	5" – 9.5/8"	612 500-Y-BC*	1250 ton	2041 kg (4500 lbs)	1000 – 1250

VES-CL					
Type	Range	P/N	Load Rating	Weight	Link Size
VES-CL-150	2.3/8" – 5.1/4"	611 900-Y**	150 ton	148 kg (326 lbs)	150 – 350
VES-CL-250	2.3/8" – 5.1/4"	612 900-Y**	250 ton	232 kg (511 lbs)	250 – 500
VES-CL-350	2.3/8" – 7"	613 000-Y**	350 ton	395 kg (871 lbs)	250 – 500
VES-F-500	2.3/8" - 7.5/8"	616500-Y	500 ton	620 kg (1367 lbs)	350 - 750
VES-CL-750	3.1/2" – 7"	617 500-Y**	750 ton	1835 kg (4045 lbs)	750 – 1000
VES-CL-1000	3.1/2" – 7"	611 000-Y**	1000 ton	2194 kg (4837 lbs)	1000 – 1250
VES-CL-1250	3.1/2" – 7"	612 500-Y**	1250 ton	2041 kg (4500 lbs)	1000 – 1250

VES-CL BUSHINGS***			
Type	P/N	Type	P/N
VES-CL-150/250	612 900-BC*	VES-CL-750	617 510-BC*
VES-CL-350/500	613 902-BC*	VES-CL-1000	611 030-BC*

WEAR BUSHINGS	
Type	P/N
CL-250/350/500	613 543-BC*
VES-CL-350/500	615 985-BC*

CLS SERIES					
Type	Range	P/N	Load Rating	Weight	Link Size
CLS-150/2	4.7/8" – 7.1/2"	621 150-Y-BC*	150 ton	157 kg (345 lbs)	150 – 350
CLS-150/3	7.1/2" – 9.7/8"	621 155-Y-BC*	150 ton	187 kg (412 lbs)	150 – 350

Calculated sound pressure level: 82,5 dB(A)

*BC = Bore Code - For Bore Code please see Page 64-66 **add -WB for Wear Bushing option ***VES-CL-1250 Bushings on request

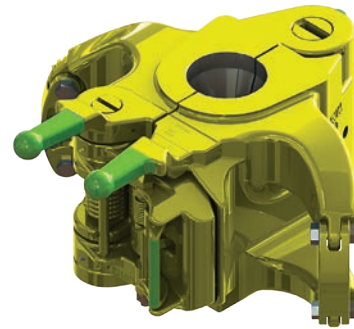
MANUAL ELEVATORS

Description

FORUM A & G Series Elevators are manually operated center latch elevators designed to handle all 90° (A Series) and 18° (G Series) pipes. Pipe size ranges from 1" – 5.7/8" and load ratings from 65 up to 350 ton.

Features

- Link compatibility: 100 to 500 ton
- Latch with safety latch lock
- Optional interchangeable insert bushing style available for MGG & GG models
- Optional wear bushings available for MGG & GG models
- Engineered slim hole bores available for some models (G Series)



**G SERIES
ELEVATOR**



**G SERIES
BUSHING**

A SERIES, 90° TAPER					
Type	Range	P/N	Load Rating	Weight	Link Size
TA-100	2.3/8" – 2.7/8"	E32383-BC*	100 ton	66 kg (145 lbs)	100 – 250
TA-100	3.1/2" – 4.3/4"	E32384-BC*	100 ton	88 kg (193 lbs)	100 – 250

G SERIES, 18° TAPER					
Type	Range	P/N	Load Rating	Weight	Link Size
MG	2.3/8" – 5"	E30157-BC*	100 ton	117 kg (257 lbs)	100 – 350
RG-150	2.3/8" – 3.1/2"	E30156-Y-BC*	150 ton	142 kg (313 lbs)	100 – 350
RG-175	4" – 4.1/2"	E23540-BC*	175 ton	197 kg (435 lbs)	250 – 350
MGG	2.7/8" – 5.1/2"	E35005-BC*/**	250 ton	292 kg (643 lbs)	250 – 350
GG	3.1/2" – 5.7/8"	E31068-BC*/**	350 ton	366 kg (807 lbs)	250 – 350
GG-IB	2.3/8" - 5"	E31068-IB**	350 ton	745 lbs [338 kg]	250 - 350
GG Insert Bushing	2.3/8" - 5"	E31000-BC	350 ton	40 lbs [338 kg]	

*BC = Bore Code - For Bore Code please see Page 64-66 **add -WB for Wear Bushing option

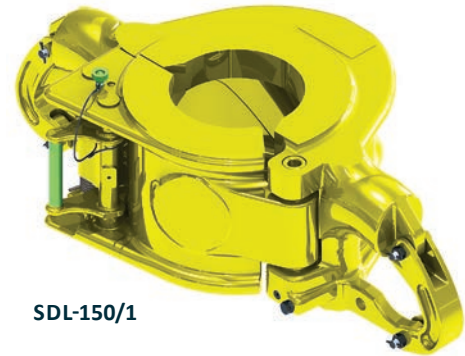
SIDE DOOR ELEVATORS

Description

FORUM SDL / SDS Series Elevators are manually operated Side Door Elevators designed to handle all 90° connections including drill collars, collar type drill pipe, casing and tubing. Pipe size ranges from 2.3/8" – 42" and load ratings from 100 to 750 ton.

Features

- Link compatibility: 150 to 750 ton
- Latch with safety latch lock
- "Elevator closed" verification pin
- Safe area operating handles
- SDL series: Weight optimized; one hand operation



SDL-150/1

SDL / SDS SERIES – MANUALLY OPERATED					
Type	Range	P/N	Load Rating	Weight	Link Size
SDL-100	2.3/8" – 5.3/4"	651 010-Y-BC*	100 ton	82 kg (181 lbs)	150 – 500
SDL-150/1	4.3/8" – 8"	651 510-Y-BC*	150 ton	121 kg (267 lbs)	150 – 500
SDL-150/2	8" – 11"	651 520-Y-BC*	150 ton	145 kg (320 lbs)	150 – 500
SDL-150/3	11" – 14"	651 530-Y-BC*	150 ton	170 kg (375 lbs)	150 – 500
SDL-150/5	18" – 22"	651 550-Y-BC*	150 ton	310 kg (683 lbs)	150 – 500
SDS-150/7	24" – 30"	641 620-Y-BC*	150 ton	878 kg (1936 lbs)	150 – 500
SDL-250/1	4.1/2" – 6.5/8"	652510-Y-BC*	250 ton	158 kg (348 lbs)	250 – 500
SDS-250/0	6.1/2" – 9.5/8"	642 600-Y-BC*	250 ton	244 kg (538 lbs)	250 – 500
SDS-250/1	9.5/8" – 13.3/8"	642 500-Y-BC*	250 ton	283 kg (624 lbs)	250 – 500
SDS-250/2	13.3/8" – 18.5/8"	642 520-Y-BC*	250 ton	438 kg (966 lbs)	250 – 500
SDS-250/3	18.5/8" – 20"	642 540-Y-BC*	250 ton	416 kg (917 lbs)	250 – 500
SDS-250/5	24" – 30"	642 580-Y-BC*	250 ton	762 kg (1680 lbs)	250 – 500
SDS-250/6	30" – 36"	642 620-Y-BC*	250 ton	1195 kg (2635 lbs)	250 – 500
SDS-250/7	36.1/2" – 42"	642 630-Y-BC*	250 ton	2025 kg (4464 lbs)	250 – 500
SDS-350/1	6.5/8" – 9.3/4"	643 500-Y-BC*	350 ton	433 kg (955 lbs)	350 – 500
SDS-350/2	10.3/4" – 16.3/4"	643 520-Y-BC*	350 ton	662 kg (1459 lbs)	350 – 500
SDS-350/4	18.5/8" – 21.1/2"	643 560-Y-BC*	350 ton	712 kg (1570 lbs)	350 – 500
SDS-350/5	24" – 30"	643 580-Y-BC*	350 ton	1079 kg (2379 lbs)	350 – 500
SDS-350/6	30" – 36"	643 570-Y-BC*	350 ton	1052 kg (2320 lbs)	350 – 500
SDS-500	9.5/8" – 16"	645 500-Y-BC*	500 ton	1010 kg (2227 lbs)	350 – 500
SDS-750	9.5/8" – 16"	647 500-Y-BC*	750 ton	980 kg (2161 lbs)	500 – 750

Calculated sound pressure level: 82,5 dB(A)

*BC = Bore Code - For Bore Code please see Page 64-66

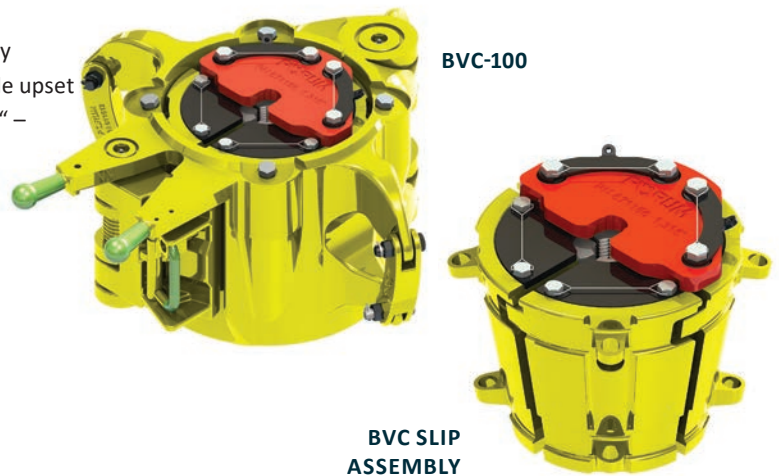
SLIP TYPE ELEVATORS

Description

FET BVC/BVT/MYT/YT Series Slip Type Elevators are manually operated, center latch, slip type elevators designed to handle upset or collar type casing and tubing. Pipe size ranges from 1.315" – 7.3/4" and load ratings from 40 to 200 ton.

Features

- Pipe sizes from 1.315" up to 7.3/4"
- Capacities from 40 to 200 ton
- Latch with safety latch lock
- 4-slip design
- Safe area operating handles
- Available with remote slip set



BVC / BVT SERIES					
Type	Range	P/N	Load Rating	Weight	Link Size
BVT-75	1.315" – 3.1/2"	670 700-Y	75 ton	185 kg (408 lbs)	150 – 350
BVC-75	1.315" – 7"	670 720-Y	75 ton	203 kg (447.5 lbs)	150 – 350
BVT-100	1.315" – 3.1/2"	671 000-Y	100 ton	188 kg (414.5 lbs)	150 – 350
BVC-100	1.315" – 7"	671 100-Y	100 ton	200 kg (441 lbs)	150 – 350
BVC-125	1.315" – 7"	671 200-Y	125 ton	353 kg (778.2 lbs)	150 – 500
BVC-150	1.315" – 7"	671 500-Y	150 ton	352 kg (776 lbs)	150 – 500
BVC-200	2.3/8" – 7.3/4"	672 000-Y	200 ton	520 kg (1146.4 lbs)	150 – 500

Calculated sound pressure level: 82.5 dB(A)

BVC SLIPS (INCLUDING SETTING RING AND INSERTS)							
Type	Rated Capacity	1.315"	1.66"	.9"	2" & 2.1/16"	2.3/8"	2.7/8"
BVT	75 – 100 ton	671 028	671 029	671 030	671 031	671 032	671 033
BVC/ABVC	75 – 150 ton	671 168	671 169	671 170	671 171	671 172	671 173
BVC/ABVC	200 ton	n/a	n/a	n/a	n/a	672 172	672 173

Type	3.1/2"	4"	4.1/2"	5"	5.1/2"	6.5/8"	7"	7.5/8"	7.3/4"
BVT	671 034	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BVC/ABVC	671 134	671 135	671 136	671 137	671 138	671 139	671 140	n/a	n/a
BVC/ABVC	672 134	672 135	672 136	672 137	672 138	672 139	672 140	672 175	672 176

SLIP TYPE ELEVATORS					
Type	Range	P/N	Load Rating	Weight	Link Size
MYT	3/4" (1.05") - 2.7/8"	E29328.09	40 ton	74 kg (164 lbs)	100 – 350
YT	1" (1.315") - 3.1/2"	E23105.09	75 ton	171 kg (377 lbs)	100 – 250

Type	Rated Capacity	3/4" (1.050")	1" (1.315")	1 1/4" (1.660")	1 1/2" (1.900")	2" - 2 1/16"	2.1/6"	2.3/8"	2.7/8"
MYT	40 ton	E29343-8.09	E29343-7	E29343-6	E29343-5	E29343-4	E29343-3	E29343-2	E29343-1
YT	75 ton		E23108-11	E23108-10	E23108-9	E23108-8	E23108-7	E23108-6	E23108-3 / E23108-4

Type	Rated Capacity	3.1/2"	4"	4.1/2"	5"	5.1/2"	6.5/8"	7"	7.5/8"	7.3/4"
YT	75 ton	E23108-5.10								

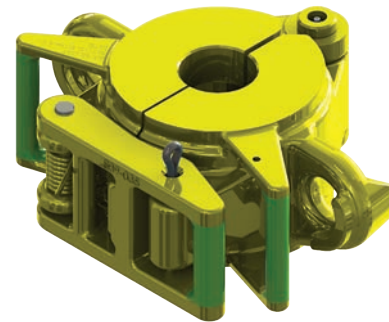
SINGLE JOINT ELEVATORS

Description

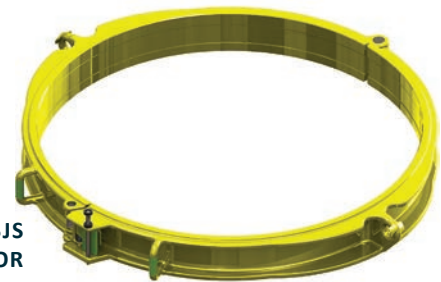
FORUM Single Joint Elevators are manually operated, Center Latch Elevators designed to handle all 18° type Drill Pipe and 90° connections including Drill Collars, Collar Type Drill Pipe, Casing and Tubing. Pipe size ranges from 2.3/8" – 42" and a Load Rating of 2.5 up to 10 ton.

Features

- Manually operated
- Capacities from 2.5 up to 10 ton
- Pipe range from 2.3/8" up to 42"
- Safe area operating handles
- Latch with safety latch lock
- "Elevator closed" verification pin



**SJ SERIES
ELEVATOR**



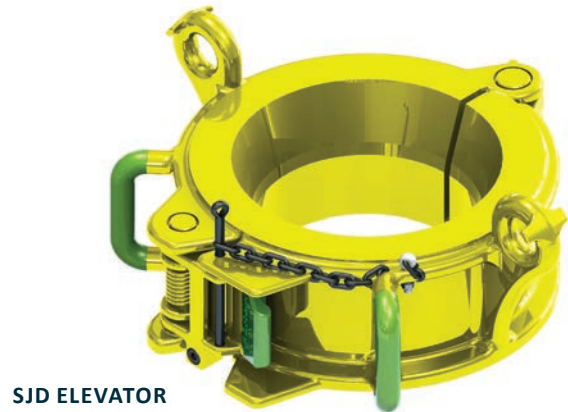
**SJS
ELEVATOR**

SJS SERIES							
Type	Range	P/N	Load Rating	Weight	1,5 m Swivel P/N	1,7 m Swivel P/N	3 m Swivel P/N
SJS-5/3	6.1/2" – 9.5/8"	660 500-Y-BC*	5 ton	30 kg (66 lbs)	660 517	660 512	660 513
SJS-5/4	9.5/8" – 12.3/4"	660 520-Y-BC*	5 ton	38 kg (84 lbs)	660 517	660 512	660 513
SJS-5/5	13" – 16"	660 540-Y-BC*	5 ton	56 kg (123 lbs)	660 517	660 512	660 513
SJS-6/6	16.3/4" – 20"	670 600-Y-BV*	10 ton	66 kg (146 lbs)	660 517	670 612	670 614
SJS-6/8	22" – 30"	670 640-Y-BC*	10 ton	155 kg (342 lbs)	660 517	670 612	670 614
SJS-6/9	30" – 36"	670 660-Y-BC*	10 ton	156 kg (344 lbs)	660 517	670 612	670 612
SJS-6/10	36" – 42"	670 680-Y-BC*	10 ton	178 kg (393 lbs)	660 517	670 612	660 614

SJ SERIES					
Range	P/N	Load Rating	Weight	Swivel P/N	Notes
2.3/8" – 5.1/2"	E49-039-BC*	5 ton	26 kg (58 lbs)	E34568	
2.3/8" – 5.1/2"	E49-039-01-BC*	5 ton	26 kg (58 lbs)	E34568	New Latch Lock
5.3/4" – 7.5/8"	E49-040-BC*	5 ton	33 kg (73 lbs)	E34568	
8" – 10.3/4"	E49-041-BC*	5 ton	40 kg (89 lbs)	E34568	
10.3/4" – 13.3/8"	E49-042-BC*	5 ton	59 kg (130 lbs)	E34568	
14" – 20"	E49-043-BC*	5 ton	115 kg (253 lbs)	E34568	
2.3/8" – 3.1/2"	E49-200-BC*	5 ton	19 kg (42 lbs)	E34568	
4" – 5.3/4"	E49-210-BC*	5 ton	25 kg (56 lbs)	E34568	

* BC = Bore Code - For Bore Code please see Page 64-66

SINGLE JOINT ELEVATORS



SJD ELEVATOR

SJ SERIES					
Type	Range	P/N	Load Rating	Weight	P/N Swivel
SJ-2/5	2.3/8" – 5.1/2"	650 200-Y	2,5 ton	19 kg (42 lbs)	650 312
SJ-3/1	3.1/2" – 7.3/4"	650 300-Y	3 ton	25 kg (55 lbs)	650 312

LSJ SERIES						
Type	Range	P/N	Load Rating	Weight	1,7 m Swivel P/N	3 m Swivel P/N
LSJ-4/2	2.3/8" – 5.3/4"	660 440-Y-BC*	4 ton	18 kg (40 lbs)	660 412	660 415

SJD SERIES					
Type	Range	P/N	Load Rating	Weight	Swivel P/N
SJD	2.7/8" – 5.7/8"	650 360-Y-BC*	6 ton	29 kg (64 lbs)	660 612-2
SJD	6.1/4" – 9"	650 380-Y-BC*	6 ton	40 kg (88 lbs)	660 612-2

Calculated sound pressure level: 82,5 dB(A)

SJ-2/5 – SLIP ASSEMBLY					SJ-3/1 – SLIP ASSEMBLY			
Range	Load Rating	5° TBG P/N	12° TBG P/N	18° DP P/N	Load Rating	5° TBG P/N	12° TBG P/N	18° DP P/N
2.3/8"	2 ton	650 209	650 230	650 219	3 ton		650 418	
2.7/8"	2 ton	650 210	650 231	650 220	3 ton		650 419	
3.1/2"	2 ton	650 211	650 232	650 221	3 ton		650 420	650 411
4"	2 ton	650 212	650 233	650 222	3 ton			650 412
4.1/2"	2 ton	650 213	650 234	650 223	3 ton	650 319	650 421	650 413
5"	2 ton	650 214			3 ton	650 316		650 414
5.1/2"	2 ton	650 215			3 ton	650 317	650 425	650 415
5.7/8"					3 ton		650 422	650 417
6.5/8"					3 ton	650 313		650 416
7"					3 ton	650 314		
7.5/8"					3 ton	650 315		
7.3/4"					3 ton	650 311		

*BC = Bore Code - For Bore Code please see Page 64-66

Rig Floor Equipment

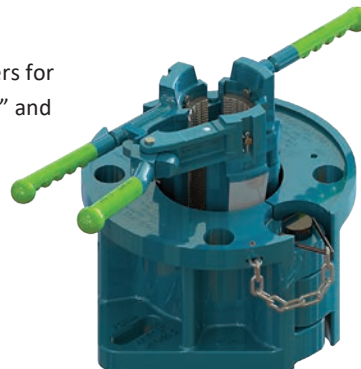
TUBING SPIDER

Description

FORUM TS-100 Tubing Spiders are manually operated spiders for use with tubing and casing. Pipe size ranges from 1" – 5.3/4" and load rated for 100 ton.

Features

- Standard API 4" TPF
- Uses standard DU inserts (4.1/2" and 5.1/2" only)
- Removable hinge pin for easy installation



3.1/2" TS-100



5 1/2" TS100

(((RFID)))

TS-100 SPIDERS				
Type	Size	P/N	Weight	Load Rating
TS-100 Tubing Spider	3.1/2"	17-302-X.09	93 kg (206 lbs)	100 ton
TS-100 Tubing Spider	5.1/2"	18-551-X.09	101 kg (222 lbs)	100 ton

TS-100 SLIPS					
Type	Size	P/N	Weight	Load Rating	Notes
TS-100 Slip Assembly less Inserts	3.1/2"	17-301-X.09	23 kg (51 lbs)	100 ton	3.1/2" TS-100 Slip Sets require 9 Inserts
TS-100 Slip Assembly less Inserts	5.1/2"	18-552-X.09	32 kg (70 lbs)	100 ton	Use 5.1/2" DU Inserts (12 Inserts required)

TS-100 3.1/2" SLIP INSERTS		
Size	P/N	Weight per Set
3.1/2"	21-101	4 kg (8 lbs)
2.3/8"	21-104	8 kg (17 lbs)
2.1/16"	21-105	9 kg (19 lbs)
2"	21-111	9 kg (19 lbs)
1.1/2"	21-106	9 kg (20 lbs)
1.1/4"	21-107	10 kg (21 lbs)
1"	21-108	10 kg (23 lbs)
3/4"	21-109	11 kg (24 lbs)
1.3/4"	21-119	8 kg (18 lbs)
2.5/8"	21-113	7 kg (15 lbs)

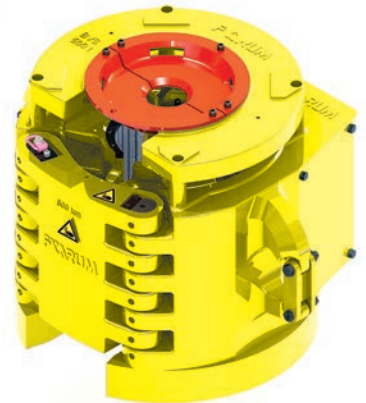
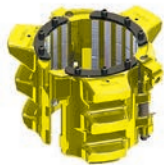
ELEVATOR / SPIDER

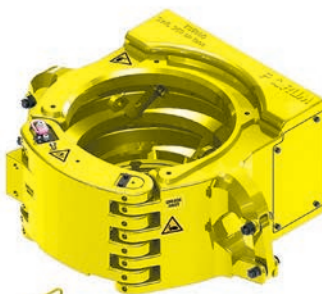
Description

FORUM Casing Elevator/Spiders are pneumatically and hydraulically operated power tools or manually operated units. The Casing Elevator/Spider is a tool designed for lifting and supporting tubulars, from light tubing to heavy wall casing. Pipe size ranges from 2.3/8" – 24.1/2" and load ratings from 250 up to 1000 ton.

Features

- Link compatibility: 250 – 1250 ton
- Can be used as elevator or spider
- Manual lifting of Slips possible in case of power loss
- Load rating for lower ear available for V-350 / V-500 models


B-500/1 ELEVATOR

B-500/1 SPIDER
SLIP ASSEMBLY

ELEVATOR GUIDE PLATE

BODY

CASING GUIDE BELL ASSEMBLY

DRESSED AS ELEVATOR
SPIDER GUIDE PLATE

UPPER GUARD ASSEMBLY

SLIP ASSEMBLY

BODY

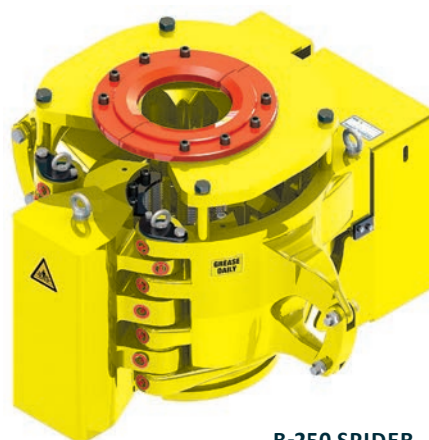
SPIDER ADAPTER PLATE

DRESSED AS SPIDER

Calculated sound pressure level: 82,5 dB(A)

Hoisting Equipment

ELEVATOR / SPIDER



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B-250 SPIDER

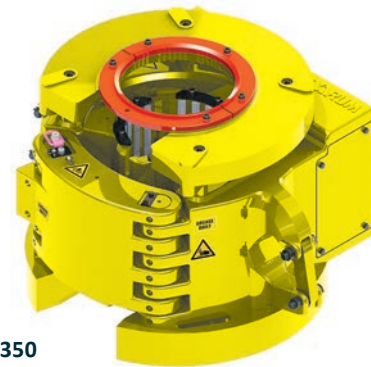
B-250					
Type	Range	P/N	Load Rating	Weight	Link Size
B-250 Air	2.3/8" – 7.5/8"	725 001-Y	250 ton	1080 kg (2381 lbs)	250 – 350
B-250 Man	2.3/8" – 7.5/8"	725 000-Y	250 ton	1170 kg (2580 lbs)	250 – 350

SLIP ASSEMBLIES					
API Pipe Size	Slip Body Size	Slip Assembly c/w Inserts	Guide Plate Elevator	Guide Plate Spider	Load Rating
2.3/8"	3.1/2"	725 325-X	725 940	725 920	250 ton
2.7/8"		725 330-X	725 940	725 920	
3.1/2"		725 355-X	725 941	725 921	
3.1/2"	4.1/2"	725 340-X	725 941	725 921	250 ton
4"		725 350-X	725 941	725 921	
4.1/2"		725 360-X	725 942	725 922	
4.1/2"	5.1/2"	725 375-X	725 942	725 922	250 ton
5"		725 385-X	725 943	725 923	
5.1/2"		725 365-X	725 943	725 923	
6.5/8"	7.5/8"	725 390-X	725 944	725 924	250 ton
7"		725 380-X	725 944	725 924	
7.5/8"		725 370-X	725 945	725 925	
7.3/4"		725 395-X	725 945	725 925	

ACCESSORIES FOR ELEVATOR	
Type	P/N
Casing Guide Bell	725 280
Air Hose 52"	752 822

ACCESSORIES FOR SPIDER	
Type	P/N
Upper Guard	725 150
Spider Adapter Plate	725 500
Air Hose 26"	752 823

ELEVATOR / SPIDER


B-350

B-350					
Type	Range	P/N	Load Rating	Weight	Link Size
B-350 Air	4.1/2" – 14"	735 001-Y	350 ton	1751 kg (3860 lbs)	250 – 350
B-350 Man	4.1/2" – 14"	735 000-Y	350 ton	1751 kg (3860 lbs)	250 – 350

SLIP ASSEMBLIES					
API Pipe Size	Slip Body Size	Slip Assembly c/w Inserts	Guide Plate Elevator	Guide Plate Spider	Load Rating
4.1/2"	5.1/2"	735 560-X	752 550	81138762	200 ton
5"		735 550-X	752 551	8ES18419-2	
5.1/2"		735 540-X	752 552	8ES18419-3	
6.5/8"	7.5/8"	735 530-2-X	752 553	8ES18419-4	350 ton
7"		735 500-2-X	752 553	8ES18419-4	
7.5/8"		735 490-2-X	752 554	8ES18419-5	
7.3/4"		735 485-2-X	752 554	8ES18419-5	
8.5/8"	9.5/8"	735 460-2-X	752 555	81138764	350 ton
9.5/8"		735 450-2-X	752 556	81138794	
9.5/8"	10.3/4"	735 445-2-X	752 556	81138794	350 ton
9.7/8"		735 440-2-X	752 557	81138797	
10.3/4"		735 430-2-X	752 558	81138740	
10.3/4"	11.3/4"	735 435-X	752 558	81138740	350 ton
11.3/4"		735 455-X	752 559	81138799	
11.7/8"		735 465-X	752 559	81138799	
12.3/4"	14"	735 375-2-X	752 560	81138802	350 ton
13.3/8"		735 380-2-X	752 561	81138741	
13.5/8"		735 385-2-X	752 561	81138741	
14"		735 390-2-X	752 562	81138806	

ACCESSORIES FOR ELEVATOR	
Type	P/N
Casing Guide Bell	710 550
Air Hose 52.1/2"	752 822

ACCESSORIES FOR SPIDER	
Type	P/N
Upper Guard	735 710
Spider Adapter Plate (for 37.1/2" RT)	752 765-1
Air Hose 26"	752 823

ELEVATOR / SPIDER



B-500/1 ELEVATOR



B-500/1 SPIDER

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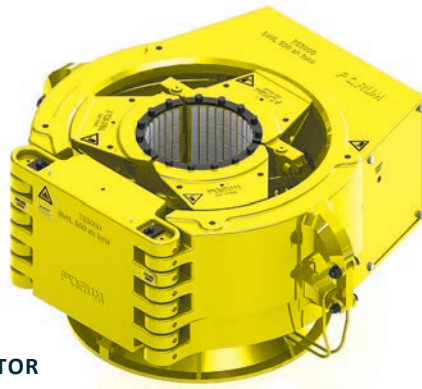
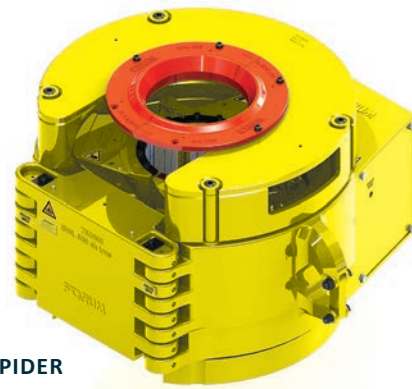
B-500/1					
Type	Range	P/N	Load Rating	Weight	Link Size
B-500/1 Air	4.1/2" – 14"	752 001-Y	500 ton	2195 kg (4840 lbs)	500 – 750
B-500/1 Hydr.	4.1/2" – 14"	752 000-Y-H	500 ton	2093 kg (4615 lbs)	500 – 750
B-500/1 Hydr. VC Control	4.1/2" – 14"	752 000-Y-H-VC	500 ton	2093 kg (4615 lbs)	500 – 750

SLIP ASSEMBLIES					
API Pipe Size	Slip Body Size	Slip Assembly c/w Inserts	Guide Plate Elevator	Guide Plate Spider	Load Rating
4.1/2"	5.1/2"	752 510-X	752 550	81138762	350 ton
5"		752 500-X	752 551	8ES18419-2	
5.1/2"		752 490-X	752 552	8ES18419-3	
6.5/8"	7.5/8"	752 480-2-X	752 553	8ES18419-4	500 ton
7"		752 470-2-X	752 553	8ES18419-4	
7.5/8"		752 460-2-X	752 554	8ES18419-5	
7.3/4"		752 465-2-X	752 554	8ES18419-5	
8.5/8"	9.5/8"	752 450-2-X	752 555	81138764	500 ton
9.5/8"		752 440-2-X	752 556	81138794	
9.5/8"	10.3/4"	752 360-2-X	752 556	81138794	500 ton
9.7/8"		752 370-2-X	752 557	81138797	
10.3/4"		752 350-2-X	752 558	81138740	
10.3/4"	11.3/4"	752 430-X	752 558	81138740	500 ton
11.3/4"		752 420-X	752 559	81138799	
11.7/8"		752 535-X	752 559	81138799	
12.3/4"	14"	752 375-2-X	752 560	81138802	500 ton
13.3/8"		752 380-2-X	752 561	81138741	
13.5/8"		752 385-2-X	752 561	81138741	
14"		752 390-2-X	752 562	81138806	

ACCESSORIES FOR ELEVATOR	
Type	P/N
Casing Guide Bell	710 550
Air Hose 52.1/2"	752 822
Hydr. Hose 52.1/2"	710 082

ACCESSORIES FOR SPIDER	
Type	P/N
Upper Guard	752 780
Spider Adapter Plate (for 37.1/2" RT)	752 765-1
Air Hose 26"	752 823
Hydr. Hose 26"	710 083

ELEVATOR / SPIDER


B-500/2 ELEVATOR

B-500/2 SPIDER

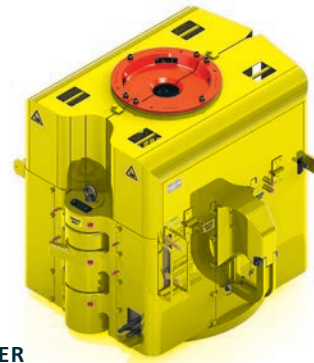
B-500/2					
Type	Range	P/N	Load Rating	Weight Link	Size
B-500/2 Air	12.3/4" – 24.1/2"	753 001-Y	500 ton	3611 kg (7960 lbs)	500 – 750
B-500/2 Hydr.	12.3/4" – 24.1/2"	753 000-Y-H	500 ton	3611 kg (7960 lbs)	500 – 750
B-500/2 Hydr. VC Control	12.3/4" – 24.1/2"	753 000-Y-H-VC	500 ton	3611 kg (7960 lbs)	500 – 750

SLIP ASSEMBLIES					
API Pipe Size	Slip Body Size	Slip Assembly c/w Inserts	Guide Plate Elevator	Guide Plate Spider	Load Rating
12.3/4"	14"	753 400-X	753 950	81138842	500 ton
13.3/8"		753 410-X	753 951	81138850	
13.5/8"		753 420-X	753 951	81138850	
14"		753 430-X	753 952	81138851	
14.3/8"	15"	753 445-X	753 953	753 728	500 ton
14.3/4"	16"	753 415-X	753 953	753 728	500 ton
16"		753 440-X	753 954	8ES73138	
16.3/4"	18"	753 465-X	753 466	753 467	500 ton
17"		753 475-X	753 955	753775-1	
18"		753 455-X	753 956	8ES71139-6	
18.5/8"	20"	753 450-X	753 957	8ES73137	500 ton
20"		753 460-X	753 958	81138832	
22"	22"	753 470-X	753 959	81138853	500 ton
24"	24"	753 480-X	753 960	8ES73135	500 ton
24"	24.1/2"	753 495-X	753 960	8ES74817	500 ton
24.1/2"		753 490-X	753 960	8ES74817	

ACCESSORIES FOR ELEVATOR	
Type	P/N
Casing Guide Bell	712 500
Air Hose 52.1/2"	752 822
Hydr. Hose 52.1/2"	710 082

ACCESSORIES FOR SPIDER	
Type	P/N
Upper Guard	753 770
Spider Adapter Plate (for 49.1/2" RT)	753 765
Air Hose 26"	752 823
Hydr. Hose 26"	710083

ELEVATOR / SPIDER



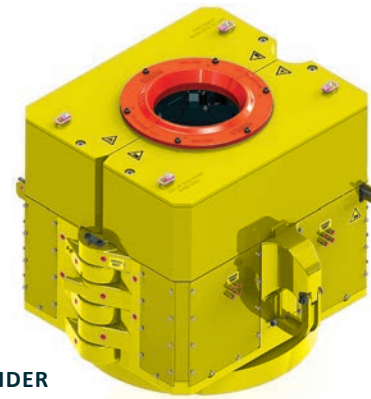
B-750/1 SPIDER

B-750/1 / B-1000/1					
Type	Range	P/N	Load Rating	Weight	Link Size
B-750/1 Air	4.1/2" – 14"	7100 00-Y-A	750 ton	4550 kg (10031 lbs)	750 – 1000
B-750/1 Hydr.	4.1/2" – 14"	7100 00-Y-H	750 ton	4550 kg (10031 lbs)	750 – 1000
B-750/1 Hydr. VC Control	4.1/2" – 14"	7100 00-Y-H-VC	750 ton	4550 kg (10031 lbs)	750 – 1000
B-1000/1 Air	4.1/2" – 14"	711 000-Y-A	1000 ton	4550 kg (10031 lbs)	750 – 1000
B-1000/1 Hydr.	4.1/2" – 14"	711 000-Y-H	1000 ton	4550 kg (10031 lbs)	750 – 1000
B-1000/1 Hydr. VC Control	4.1/2" – 14"	711 000-Y-H-VC	1000 ton	4550 kg (10031 lbs)	750 – 1000

SLIP ASSEMBLIES					
API Pipe Size	Slip Body Size	Slip Assembly c/w Inserts	Guide Plate Elevator	Guide Plate Spider	Load Rating
4.1/2"	5.1/2"	710 100-221-X	711 034	81138762	500 ton
5"		710 100-223-X	711 051	8ES18419-2	
5.1/2"		710 100-224-X	711 049	8ES18419-3	
6.5/8"	7.5/8"	710 100-228-X	711 047	8ES18419-4	750 ton
7"		710 100-229-X	711 047	8ES18419-4	
7.5/8"		710 100-231-X	711 048	8ES18419-5	
7.3/4"		710 100-269-X	711 048	8ES18419-5	
8.5/8"	9.5/8"	710 100-234-X	711 050	81138764	1000 ton
9.5/8"		710 100-236-X	711 042	81138794	
9.5/8"	10.3/4"	710 100-236-1-X	711 042	81138794	1000 ton
9.7/8"		710 100-265-X	711 045	81138797	
10.3/4"		710 100-238-1-X	711 052	81138740	
10.3/4"	11.3/4"	710 100-238-X	711 052	81138740	1000 ton
11.3/4"		710 100-239-X	711 054	81138799	
11.7/8"		710 100-262-X	711 054	81138799	
12.3/4"	14"	710 100-241-X	711 053	81138802	1000 ton
13.3/8"		710 100-243-X	711 055	81138741	
13.5/8"		710 100-259-X	711 055	81138741	
14"		710 100-255-X	711 059	81138806	

ACCESSORIES FOR ELEVATOR		ACCESSORIES FOR SPIDER	
Type	P/N	Type	P/N
Casing Guide Bell	710 550	Spider Adapter Plate (for 37.1/2" RT)	752 765-1
Air Hose 52.1/2"	752 822	Air Hose 26"	752 823
Hydr. Hose 52.1/2"	710 082	Hydr. Hose 26"	710 083

ELEVATOR / SPIDER


B-750/2 SPIDER

B-750/2 / B-1000/2					
Type	Range	P/N	Load Rating	Weight	Link Size
B-750/2 Air	16" – 24"	712 000-Y-A	750 ton	6251 kg (13780 lbs)	750 – 1000
B-750/2 Hydr.	16" – 24"	712 000-Y-H	750 ton	6251 kg (13780 lbs)	750 – 1000
B-750/2 Hydr. VC Control	16" – 24"	712 000-Y-H-VC	750 ton	6251 kg (13780 lbs)	750 – 1000
B-1000/2 Air	16" – 24"	713 000-Y-A	1000 ton	6251 kg (13780 lbs)	750 – 1000
B-1000/2 Hydr.	16" – 24"	713 000-Y-H	1000 ton	6251 kg (13780 lbs)	750 – 1000
B-1000/2 Hydr. VC Control	16" – 24"	713 000-Y-H-VC	1000 ton	6251 kg (13780 lbs)	750 – 1000

SLIP ASSEMBLIES					
API Pipe Size	Slip Body Size	Slip Assembly c/w Inserts	Guide Plate Elevator	Guide Plate Spider	Load Rating
16"	17"	712 100-245-X	712 141	8ES73138	750 ton
18.5/8"	20"	712 100-248-X	712 144	8ES73137	750 ton
20"		712 100-249-X	712 145	81138832	
22"	22"	712 100-261-X	712 146	81138853	750 ton
24"	24"	712 100-254-X	712 147	8ES73135	750 ton

ACCESSORIES FOR ELEVATOR	
Type	P/N
Casing Guide Bell	712 500
Air Hose 52.1/2"	752 822
Hydr. Hose 52.1/2"	710 082

ACCESSORIES FOR SPIDER	
Type	P/N
Spider Adapter Plate (for 49.1/2" RT)	753 765
Air Hose 26"	752 823
Hydr. Hose 26"	710 083

Rig Floor Equipment

FLUSH MOUNTED SPIDER – FMS-500

Description

FORUM FMS-500 Flush Mounted Spider is designed to handle casings and to be installed into 37.1/2" Rotary Tables.

Features

- Flush mount design eliminates the need for work platforms
- Pipe sizes from 4.1/2" – 14"
- 500 ton load rating
- B-Type Slip Assembly and Guide Plate can be used with the FMS-500
- Various adapters for National, Emsco and Wirth Rotary Tables available
- Optionally available with Top Cover for running control lines



FMS-500

FMS-500 FOR
RUNNING CONTROL LINES

FLUSH MOUNTED SPIDER (FMS)	Type	Type
	FMS-500 hydraulic Version	FMS-500 Pneumatic Version
Pipe Size	4.1/2" – 14"	4.1/2" – 14"
Load Rating	500 ton	500 ton
P/N	754 000-RT*	754 000-RT*-AIR
Stand Alone Control Unit	737 160	754 510
Hook Up Kit	754 000-HUK	754 000-AIR-HUK
Cover Plate for Cable Penetration	754 020-CP	754 020-CP

SLIP ASSEMBLIES					
API Pipe Size	Slip Body Size	Slip Assembly c/w Inserts	Guide Plate Spider	Guide Plate Cable Penetration	Load Rating
4.1/2"	5.1/2"	754 400-X	81138762	on request	350 ton
5"	5.1/2"	754 410-X	8ES18419-2	8ES18419-2-S	350 ton
5.1/2"	5.1/2"	754 490-X	8ES18419-3	8ES18419-3-S	350 ton
6.5/8"	7.5/8"	754 480-2-X	8ES18419-4	8ES18419-4-S	500 ton
7"	7.5/8"	754 470-2-X	8ES18419-4	8ES18419-4-S	500 ton
7.5/8"	7.5/8"	754 460-2-X	8ES18419-5	8ES18419-5-S	500 ton
7.3/4"	7.5/8"	754 465-2-X	8ES18419-5	8ES18419-5-S	500 ton
8.5/8"	9.5/8"	754 450-2-X	81138764	8ES18419-6-S	500 ton
9.5/8"	9.5/8"	754 440-2-X	81138794	8ES18419-7-S	500 ton
9.5/8"	10.3/4"	754 360-2-X	81138794	8ES18419-7-S	500 ton
9.7/8"	10.3/4"	754 370-2-X	81138797	upon request	500 ton
10.3/4"	10.3/4"	754 350-2-X	81138740	8ES18419-8-S	500 ton
11.3/4"	11.3/4"	754 420-X	81138799	8ES18419-9-S	500 ton
11.7/8"	11.3/4"	754 535-X	81138799	8ES18419-9-S	500 ton
12.3/4"	14"	754 375-2-X	81138802	upon request	500 ton
13.3/8"	14"	754 380-2-X	81138741	upon request	500 ton
13.5/8"	14"	754 385-2-X	81138741	upon request	500 ton
14"	14"	754 390-2-X	81138806	upon request	500 ton

Calculated sound pressure level: 69,9 dB(A)

POWER SLIP ELEVATOR – PSE-1000

Description

FORUM PSE-1000 Power Slip Elevator is designed for lifting long, heavy tubulars from 2.3/8" to 22" and a capacity up to 1000 ton.

Features

- Slip Assemblies and Insert Carriers interchangeable with PS-750/2 and PS-1000 Power Slip
- Only one frame needed to handle 2.3/8" – 22"



PSE-1000

POWER SLIP ELEVATOR – PSE-1000	
Type	P/N
PSE-1000	631 000-Y-BV-VC
Slip Assembly for 2.3/8" – 14"	776 120-1-X
Slip Assembly for 14.3/4" – 20"	776 120-2-X
Slip Assembly for 22"	776 120-3-X
Hook Up kit	757 101-HUK-E
Hydraulic Power Unit	757 150
Control Units	2649-10
	754 003-3

Calculated sound pressure level: 69,9 dB(A)

*RT: National (N), Wirth (W), Emsco (E) *

POWER SLIP – PS-350

Description

FORUM PS-350 Power Slip is designed for handling vertical drill strings from 2.3/8" to 14" with a total weight of up to 350 ton and can be used in all common 27.1/2" Rotary Tables.

Features

- Top guide system
- Off-the-shelf inserts
- Patented clamping system
- Feedback "Slips down"
- Quick change of carrier assembly during operation
- Various adapters available



PS-350



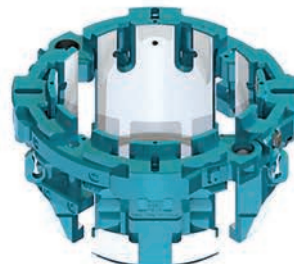
GUIDE PLATE



UPPER RING



CARRIER ASSEMBLY



SLIP ASSEMBLY



BODY

PS-350

Patents US20130025847A1, EP2551530B1, DE102012005794A1

POWER SLIP – PS-350

PS-350 POWER SLIP FOR 27.1/2" RT – 350 TON 2.3/8" – 14"			
Dimensions	Width: 30" / 760 mm	Height: 34.64" / 880 mm	Height over RT: 4" / 102 mm
Weight	PS w/o slip assy 1090 kg (2403 lbs)		complete assembly for 9.5/8" 350 kg (771 lbs)
Rating PS	Pipe Size	2.3/8" up to 14"	
	Pipe Weight	max. 350 ton	
Working Pressure	Hydraulic Flow Rate	min. 5 gal/min, max. 10 gal/min	
	Hydraulic connections	On top of the Power Slip	
Guide Plates	Top Guide Plate	Available for all Pipe Sizes	

PS-350		DC Pipe	
Type	P/N	Carrier Assembly	Sizes
PS-350	737 000	737690-182-X	5.1/8" x 4.3/8" zip (4.3/4 DC)
Hook Up kit	737 007-HUK	737690-189-X	7" x 6.1/4" zip (6.3/4" DC)
Control Unit	754 003-3	737690-194-X	8.3/8" x 7.1/2" zip (8"DC)
Stand Alone Control Unit	737 160		
Slip Assembly	737008-X		

CARRIER ASSEMBLIES						
API Pipe Size	Pipe Type	Carrier Body Size	Carrier Assembly c/w inserts	Guide Plate Casing	Guide Plate DP, DC, TBG	Load Rating
2.3/8"	DP, TBG	2.7/8"	737670-101-X		81153584	65
2.7/8"	DP, TBG		737670-103-X		81153584	65
3.1/2"	DP, TBG, CSG	4.1/2"	737670-105-X		81150653	250
4"	DP, TBG, CSG		737670-106-X		81150653	250
4.1/2"	DP, TBG, CSG		737670-107-X	81138762	81138816	250
5"	DP, CSG	5.1/2"	737670-109-X	8ES18419-2	81150655	350
5.1/2"	DP, CSG		737670-111-X	8ES18419-3	81150657	350
5.7/8"	DP, CSG	7"	737670-115-X		81150657	350
6.5/8"	DP, CSG		737670-228-X	8ES18419- 4	81150659	350
7"	CSG		737670-229-X	8ES18419- 4		350
7.3/4"	CSG	7.3/4"	737670-269-X	8ES18419-5		350
7.5/8"	CSG	7.5/8"	737670-231-X	8ES18419-5		350
8.5/8"	CSG	9.5/8"	737670-234-X	81138764		350
9.5/8"	CSG		737670-236-X	81138794		350
10"	CSG	10.3/4"	737670-237-X	81138811		350
10.3/4"	CSG		737670-238-X	81138740		350
11.3/4"	CSG	12.3/4"	737670-239-X	81138799		350
11.7/8"	CSG		737670-262-X	81138806		350
12.3/4"	CSG		737670-241-X	81138802		350
13.3/8"	CSG	14"	737670-243-X	81138741		350
13.5/8"	CSG		737670-259-X	81138741		350
14"	CSG		737670-255-X			350

Calculated sound pressure level: 69,9 dB(A)

HYDRAULIC OPERATED POWER SLIPS

Description

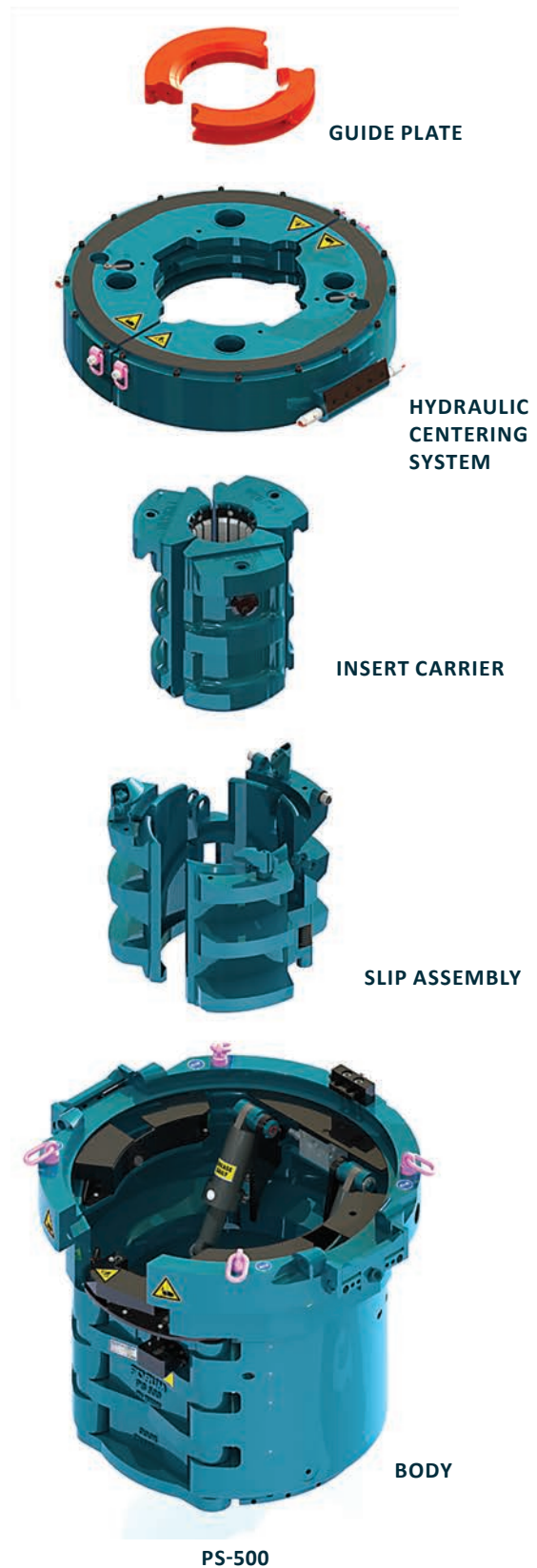
FORUM Power Slips are designed for handling long, heavy tubulars from 2.3/8" to 22" and a capacity of 350 up to 1250 ton while installed in the Rotary Table. Various adapters for different Rotary Table sizes and types are available (see page 66). The Power Slip is equipped with a central greasing system and a hydraulic feedback for "Slips up" and "Slips down".



PS-500



PS-500 FOR RUNNING CONTROL LINES



HYDRAULIC OPERATED POWER SLIPS



PS-750/2

PS HYDRAULIC OPERATED POWER SLIPS				
Type	P/N	Size	Load Rating	Rotary Table Size
PS-500	759 000-RT*	2.3/8" – 14"	500 ton	37.1/2"
PS-500 for cable penetration	757 500-N-F	2.3/8" – 14"	500 ton	37.1/2"
PS-750/2	776 100-RT*	2.3/8" – 22"	750 ton	49.1/2"
PS-1000	772 000-RT*	2.3/8" – 22"	1000 ton	49.1/2"
PS-1250	774 000-RT*	3.1/2" – 14"	1250 ton	49.1/2"
Accessory Tools	PS-500	PS-750/2	PS-1000	PS-1250
Hook Up kit	757 000-HUK	776 100-HUK	776 100-HUK	774 000-HUK
Compact hydraulic Power Unit, air operated	757 150	757 150	757 150	n/a
Control Unit PS	757 109	757 109	757 109	757 109
Control Unit PS stand alone	757 160	757 160	757 160	757 160
Control Unit Grease System 230 v AC zone 1	755 105-11	755 105-11	755 105-11	755 105-11
Control Unit Grease System 24 v DC zone 1	755 105-12	755 105-12	755 105-12	755 105-12
Slip Assemblies	PS-500	PS-750/2	PS-1000	PS-1250
(for Insert Carriers please see next pages)				
Slip Assembly 2.3/8" – 14"	757 020-X	776 120-1-X	776 120-1-X	
Slip Assembly 14.3/4" – 20"	776 120-2-X			
Slip Assembly 22"	776 120-3-X			
Slip Assembly 3.1/2" – 14"				774 020-X
Optional Equipment	PS-500	PS-750/2	PS-1000	PS-1250
Hand Slip Insert Bowl No. 3 2.3/8" – 8.5/8" for manual slip handling	755 820-X			
Hand Slip Top Bowl 200 tons 11.3/4" - 13.3/8" for manual slip handling	553 600-X	553 600-X	553 600-X	
Reducing Bushing 9.5/8" – 10.3/4"	553 610-X	553 610-X	553 610-X	
Reducing Bushing 2.3/8" – 8.5/8"	553 611-X	553 611-X	553 611-X	
Top Wear Guide System	776 750	776 750**	776 750**	776 750
Wear Guide 6.5/8"	776 751	776 751	776 751	776 751
Wear Guide 5.7/8"	776 752	776 752	776 752	776 752
Multi Coupling kit	756 850	776 800	776 800	n/a
Pipe Wiper System (fits standard 19" Dual Type Wipers)	756 750	775 990	775 990	774 930
Bit Breaker Adapter Plate	553 455**	553 455**	553 455**	553 455**
Bottom Wear Guide System				774960

Calculated sound pressure level: 69,9 dB(A)

RT: National (N), Wirth (W), Emsco (E), Oilwell / Wirth (OW) **requires Bit Breaker Adapter Plate P/N 775 795 / included in Hook up kit

HYDRAULIC OPERATED POWER SLIPS

PS-500					
Carrier for Drill Pipe					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
2.3/8"	3.1/2"	756 670-101-X	756 473	757 565	250 ton
2.7/8"		756 670-103-X	756 473	757 565	250 ton
3.1/2"		756 670-105-X	756 474	757 564	250 ton
3.1/2"	4.1/2"	756 670-105-1-X	756 474	757 564	350 ton
4"		756 670-106-X	756 475	757 563	350 ton
4.1/2"		756 670-107-X	756 476	757 562	350 ton
4.1/2"	5.1/2"	756 670-107-1-X	756 476	757 562	500 ton
5"		756 670-109-X	756 476	757 562 5	00 ton
5.1/2"		756 670-111-X	756 470	757 559	500 ton
5.7/8"	7"	756 670-115-X	756 421	upon request	500 ton
6.5/8"		756 670-114-X	756 424	757 560	500 ton
6.906"		756 670-112-X	756 422	757 558	500 ton
6.906"	7.5/8"	756 670-112-1-X	756 422	757 558	500 ton
Carrier for Casing					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
6.5/8"	7.5/8"	756 670-228-X	756 422	757 558	500 ton
7"	7"	756 670-229-1-X	756 422	757 558	500 ton
7"	7.5/8"	756 670-229-X	756 422	757 558	500 ton
7.5/8"		756 670-231-X	756 422	757 558	500 ton
7.3/4"		756 670-269-X	upon request	upon request	500 ton
8" 8.1/2"	9.5/8"	756 670-232-X	756 422	upon request	500 ton
8.5/8"		756 670-234-X	756 425	757 557	500 ton
9.5/8"		756 670-236-X	756 423	757 556	500 ton
9.5/8"	10.3/4"	756 670-236-1-X	756 423	757 556	500 ton
9.7/8"		756 670-265-X	756 477	upon request	500 ton
10"		756 670-237-X	756 477	upon request	500 ton
10.3/4"	12.3/4"	756 670-238-X	756 426	757 554	500 ton
11.3/4"		756 670-239-X	756 427	upon request	500 ton
11.7/8"		756 670-262-X	756 427	upon request	500 ton
12.3/4"	14"	756 670-241-X	756 471	upon request	500 ton
12.3/4"		756 670-241-1-X	756 471	upon request	500 ton
13.3/8"		756 670-243-X	756 472	757 551	500 ton
13.1/2"		756 670-270-X	756 428	upon request	500 ton
13.5/8"		756 670-259-X	756 428	upon request	500 ton
14"		756 670-255-X	756 428	upon request	500 ton
14"					
Carrier for Drill Collar with ZIP Groove					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
4.3/4"	4.1/2"	756 690-182-X	756 420	757 561	150 ton
5.1/4"	5.1/2"	756 690-183-X	756 424	upon request	150 ton
6.1/4"	6.3/4"	756 690-187-X	756 424	upon request	150 ton
6.1/2"		756 690-188-X	756 424	757 560	150 ton
6.3/4"		756 690-189-X	756 424	757 560	150 ton
7"	8.1/2"	756 690-190-X	756 422	upon request	150 ton
8"		756 690-194-X	756 422	upon request	150 ton
8.1/4"		756 690-195-X	756 425	757 557	150 ton
8.1/2"	9.1/2"	756 690-196-X	756 425	757 557	150 ton
8.3/4"		756 690-197-X	756 423	757 556	150 ton
9"		756 690-198-X	756 423	757 556	150 ton
9.1/2"	9.1/2"	756 690-199-X	756 423	757 556	150 ton
9.3/4"		756 690-203-X	756 423	upon request	150 ton
10"		756 690-202-X	756 423	upon request	150 ton
10"					
Carrier for Drill Collar without ZIP Groove					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
3.1/8"	3.1/2"	756 690-308-X	756 476	upon request	150 ton
3.3/8"		756 690-309-X	upon request	upon request	150 ton
4.3/4"	5.1/2"	756 690-276-X	756 420	757 561	150 ton
6.1/4"	6.3/4"	756 690-284-X	756 421	upon request	150 ton
6.1/2"		756 690-286-X	756 424	757 560	150 ton
6.3/4"		756 690-287-X	756 424	757 560	150 ton
8"	8.1/2"	756 690-293-X	756 422	upon request	150 ton
8.1/4"		756 690-295-X	756 425	upon request	150 ton
8.1/2"		756 690-296-X	756 425	upon request	150 ton
9"	9.1/2"	756 690-297-X	756 423	757 556	150 ton
9.1/2"		756 690-298-X	756 423	757 556	150 ton

HYDRAULIC OPERATED POWER SLIPS

PS-750/2 + PS-1000 Carrier for Drill Pipe					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
2.3/8"	3.1/2"	775 670-101-X	756 473	757 565	250 ton
2.7/8"		775 670-103-X	756 473	757 565	250 ton
3.1/2"		775 670-105-X	756 474	757 564	250 ton
3.1/2"	4.1/2"	775 670-105-1-X	756 474	757 564	500 ton
4"		775 670-106-X	756 475	757 563	500 ton
4.1/2"		775 670-107-X	756 476	757 562	500 ton
4.1/2"	5.1/2"	775 670-107-1-X	756 476	757 562	750 ton
5"		775 670-109-X	756 476	757 562	750 ton
5.1/2"		775 670-111-X	756 470	757 559	750 ton
5.7/8"	7"	775 670-115-X	756 421	upon request	1000 ton
6.5/8"		775 670-114-X	756 424	757 560	1000 ton
6.906"		775 670-112-X	756 422	757 558	1000 ton
6.906"	7.5/8"	775 670-112-1-X	756 422	757 558	1000 ton
Carrier for Casing					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
6.5/8"	7.5/8"	775 670-228-X	756 422	757 558	1000 ton
7"	7"	775 670-229-1-X	756 422	757 558	1000 ton
7"	7.5/8"	775 670-229-X	756 422	757 558	1000 ton
7.5/8"		775 670-231-X	756 422	757 558	1000 ton
7.3/4"		775 670-269-X	756 422	upon request	1000 ton
8.5/8"	9.5/8"	775 670-234	756 425	757 557	1000 ton
9.5/8"		775 670-236-X	756 423	757 556	1000 ton
9.3/8"		775 670-312-X	756 423	upon request	1000 ton
9.5/8"	10.3/4"	775 670-236-1-X	756 423	upon request	1000 ton
9.7/8"		775 670-265-X	756 477	upon request	1000 ton
10"		775 670-237-X	756 477	upon request	1000 ton
10.3/4"	12.3/4"	775 670-238-X	756 426	757 554	1000 ton
11.3/4"		775 670-239-X	756 427	upon request	1000 ton
11.7/8"		775 670-262-X	756 427	upon request	1000 ton
12.3/4"	14"	775 670-241-X	756 471	upon request	1000 ton
12.3/4"		775 670-241-1-X	756 471	upon request	1000 ton
13.3/8"		775 670-243-X	756 472	757 551	1000 ton
13.1/2"	14"	775 670-270-X	756 428	upon request	1000 ton
13.5/8"		775 670-259-X	756 428	upon request	1000 ton
14"		775 670-255-X	756 428	upon request	1000 ton
16"	16"	775 630-245-X	775 459	upon request	1000 ton
17"	17"	775 630-267-X	775 454	upon request	1000 ton
18"	18.5/8"	775 630-247-X	775 456	upon request	1000 ton
18.5/8"		775 630-248-X	775 451	upon request	1000 ton
20"		775 630-249-X	775 457	upon request	1000 ton
Carrier for Drill Collar with ZIP Groove					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
4.3/4"	4.1/2"	775 690-182-X	756 420	757 561	150 ton
5.1/4"	5.1/2"	775 690-183-X	756 421	upon request	150 ton
6.1/4"	6.3/4"	775 690-187-X	756 421	upon request	150 ton
6.1/2"		775 690-188-X	756 424	757 560	150 ton
6.3/4"		775 690-189-X	756 424	757 560	150 ton
7"	8.1/2"	775 690-190-X	756 422	upon request	150 ton
8"		775 690-194-X	756 422	upon request	150 ton
8.1/4"		756 690-195-X	756 425	757 557	150 ton
8.1/2"	9.1/2"	775 690-196-X	756 425	757 557	150 ton
8.3/4"		775 690-197-X	756 423	757 556	150 ton
9"		775 690-198-X	756 423	757 556	150 ton
9.1/2"	9.1/2"	775 690-199-X	756 423	757 556	150 ton
9.3/4"		775 690-203-X	756 423	upon request	150 ton
Carrier for Drill Collar without ZIP Groove					
API Pipe Size	Carrier Body Size	Carrier Assembly c/w Inserts	Hydraulic Guide Plate	Guide Plate for Cable Penetration	Load Rating
3.1/8"	3.1/2"	775 690-308-X	756 476	upon request	150 ton
4.3/4"	5.1/2"	775 690-276-X	756 420	757 561	150 ton
6.1/4"	6.3/4"	775 690-284-X	756 421	upon request	150 ton
6.1/2"		775 690-286-X	756 424	757 560	150 ton
6.3/4"		775 690-287-X	756 424	757 560	150 ton
8"	8.1/2"	775 690-293-X	756 422	upon request	150 ton
8.1/4"		775 690-295-X	756 425	upon request	150 ton
8.1/2"		775 690-296-X	756 425	upon request	150 ton
9"	9.1/2"	775 690-297-X	756 423	757 556	150 ton
9.1/2"		775 690-298-X	756 423	757 556	150 ton

POWER SLIP – PS-1250

PS-1250 Insert Slip					
API Pipe Size	Insert Slip Body Size	Insert Slip Assembly c/w Inserts	Top Guide Plate	Bottom Guide Plate	Load Rating
6.5/8"(6,906 inch)	7"	774 060-112-X	774 815	774 915	1250 ton
Carrier for Drill Pipe					
API Pipe Size	Insert Slip Body Size	Insert Slip Assembly c/w Inserts	Top Guide Plate	Bottom Guide Plate	Load Rating
3.1/2"	3.1/2"	774 070-105-X	774 805	774 905	250 ton
3.1/2"	4.1/2"	774 070-105-1-X	774 805	774 905	500 ton
4"		774 070-106-X	774 806	774 906	500 ton
4.1/2"		774 070-107-X	774 807	774 907	500 ton
4.1/2"	5.1/2"	774 070-107-1-X	774 807	774 907	750 ton
5"		774 070-109-X	774 809	774 909	750 ton
5.1/2"		774 070-111-X	774 811	774 911	750 ton
5.7/8"	7"	774 070-115-X	774 812	774 912	1000 ton
6.5/8"		774 070-114-X	774 815	774 915	1000 ton
Carrier for Casing					
API Pipe Size	Insert Slip Body Size	Insert Slip Assembly c/w Inserts	Top Guide Plate	Bottom Guide Plate	Load Rating
6.5/8"	7.5/8"	774 070-228-X	774 815	774 915	1250 ton
7"	7"	774 070-229-1-X	774 815	774 915	1000 ton
7"	7.5/8"	774 070-229-X	774 815	774 915	1250 ton
7.5/8"		774 070-231-X	774 819	774 919	1250 ton
7.3/4"		774 070-269-X	774 819	774 919	1250 ton
8.5/8"		774 070-234-X	774 824	774 924	1250 ton
9.5/8"	9.5/8"	774 070-236-X	774 827	774 927	1250 ton
9.5/8"		774 070-236-1-X	774 827	774 927	1250 ton
9.7/8"	10.3/4"	774 070-265-X	774 827	774 927	1250 ton
10"		774 070-237-X	774 827	774 927	1250 ton
10.3/4"		774 070-238-X	774 832	774 932	1250 ton
11.3/4"	12.3/4"	774 070-239-X	774 833	774 933	1250 ton
11.7/8"		774 070-262-X	774 833	774 933	1250 ton
12.3/4"		774 070-241-X	774 835	774 935	1250 ton
12.3/4"		774 070-241-1-X	774 835	774 935	1250 ton
13.3/8"	14"	774 070-243-X	774 836	774 936	1250 ton
13.1/2"		774 070-270-X	774 836	774 936	1250 ton
13.5/8"		774 070-259-X	774 836	774 936	1250 ton
14"		774 070-255-X	774 839	774 939	1250 ton
Carrier for Drill Collar with ZIP Groove					
API Pipe Size	Insert Slip Body Size	Insert Slip Assembly c/w Inserts	Top Guide Plate	Bottom Guide Plate	Load Rating
4.3/4"	4.1/2"	774 090-182-X	774 809	774 909	150 ton
5.1/4"	5.1/2"	774 090-183-X	774 809	774 909	150 ton
6.1/4"	6.3/4"	774 090-187-X	774 813	774 913	150 ton
6.1/2"		774 090-188-X	774 815	774 915	150 ton
6.3/4"		774 090-189-X	774 815	774 915	150 ton
7"		774 090-190-X	774 815	774 915	150 ton
8"	8.1/2"	774 090-194-X	774 819	774 919	150 ton
8.1/4"		774 090-195-X	774 822	774 922	150 ton
8.1/2"		774 090-196-X	774 822	774 922	150 ton
8.3/4"		774 090-197-X	774 824	774 924	150 ton
9"	9.1/2"	774 090-198-X	774 826	774 926	150 ton
9.1/2"		774 090-199-X	774 827	774 927	150 ton
9.3/4"		774 090-203-X	774 827	774 927	150 ton
10"		774 090-202-X	774 827	774 927	150 ton
Carrier for Drill Collar without ZIP Groove					
API Pipe Size	Insert Slip Body Size	Insert Slip Assembly c/w Inserts	Top Guide Plate	Bottom Guide Plate	Load Rating
3.1/8"	3.1/2"	774 090-308-X	774 805	774 905	150 ton
3.3/8"	5.1/2"	774 090-309-X	774 805	774 905	150 ton
4.3/4"		774 090-276-X	774 809	774 909	150 ton
6.1/4"		774 090-284-X	774 813	774 913	150 ton
6.1/2"	6.3/4"	774 090-286-X	774 815	774 915	150 ton
6.3/4"		774 090-287-X	774 815	774 915	150 ton
8"		774 090-293-X	774 819	774 919	150 ton
8.1/4"	8.1/2"	774 090-295-X	774 822	774 922	150 ton
8.1/2"		774 090-296-X	774 822	774 922	150 ton
9"		774 090-297-X	774 826	774 926	150 ton
9.1/2"	9.1/2"	774 090-298-X	774 827	774 927	150 ton

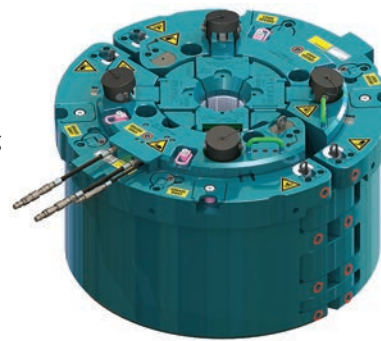
LOAD RATED MASTER BUSHING (LRMB)

Description

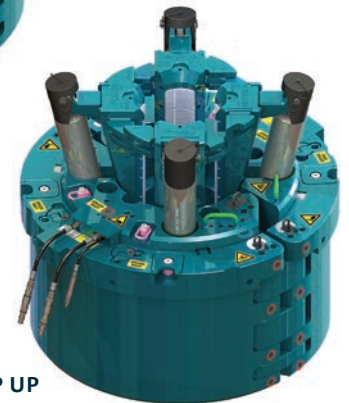
FORUM LRMB-1500 Load Rated master Bushing incorporates a hydraulic slip lifter and a slip assembly with curved dies for an optimized slip contact area, embedded in a 49.1/2" master bushing frame. The LRMB-1500 offers the optimal solution for handling 6.5/8" dp (6.906" slip proof section) landing strings and above.

Features

- Flush mounted in „Slips set" position with 4-Slips for an optimal grip angle arrangement
- Equipped with backup torque and additional down force for safe operation
- All dies are installed with load shoulder for optimal load distribution
- "Slip set" and "Slip raised" hydraulic feedback signal



LRMB WITH
SLIP DOWN



LRMB WITH SLIP UP

LOAD RATED MASTER BUSHING					
	LRMB-750 Manual	LRMB-1250		LRMB-1500	
		Manual	Hydraulic	Manual	Hydraulic
Range	2.3/8" - 13.3/8"	2.3/8" - 13.3/8"	5" - 6.5/8"	2.3/8" - 13.3/8"	5" - 6.5/8"
P/N	559750-RT*-X	559100-RT*-X	559100-RT*-X	559100-1500-RT*-X	559100-1500-RT*-X
Slip Lifter	N/A	N/A	559075-H-F-X	N/A	559075-1500-H-F-X
Slip Assembly	N/A	N/A	See table below	N/A	See table below
Guide Plate	N/A	N/A	See table below	N/A	See table below
Hydraulic requirements	N/A	N/A	See table below	N/A	See table below
Adapter Bowl	559170-X	559170-X	N/A	559170-X	N/A
Bowl #1, #2, #3	See page 65	See page 65	N/A	See page 65	N/A
Hand Slips	See pages 53-61	See pages 53-61	N/A	See pages 53-61	N/A

Optional equipment	P/N
Tool Kit	559 100-T
Air Operated Grease Pump	775 810-TK
Stand Alone Control Panel	757 160
Bit Breaker Plate	553 455

Pipe Size	Slip Body Size	Slip Assembly		Bottom Guide Plates
		LRMB-1250	LRMB-1500	
5"	6.5/8"	559157-X	559157-1500-X	559715
5.1/2"	6.5/8"	559158-X	559158-1500-X	559716
5.7/8"	6.5/8"	559159-X	559159-1500-X	559717
6.5/8"	6.5/8"	559160-X	559160-1500-X	559720
6.906"	6.5/8"	559161-X	559161-1500-X	559941

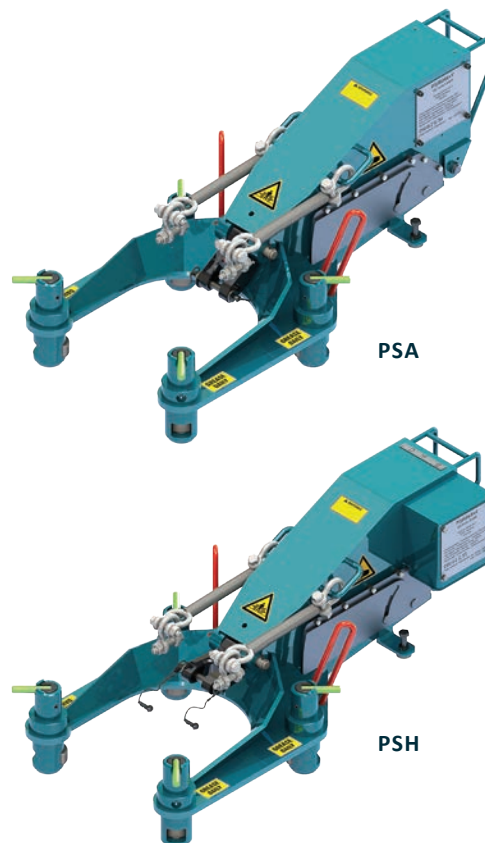
SLIP LIFTER

Description

FORUM PSA / PSH Slip Lifter is a pneumatically / hydraulically operated power tool used to lift drill pipe slips and reduce personnel fatigue and injuries through remote operation from the driller's cabin or standalone control panels. It will also extend slip and insert life by properly setting and raising slips. The Slip Lifter can be used with FORUM standard drill pipe slips from 2.3/8" – 7.5/8" and most other brands.

Features

- Pneumatic and hydraulic models available
- Equipped with hydraulic feedback "Slip set"
- Models available to fit both pin and square drive master bushings from 17.1/2" to 49.1/2"
- Installed into 25.3/4" pin drive holes
- PSH with 2 ton downforce eliminates need of safety clamps



SLIP LIFTER				
Type	P/N	Range	Weight	Description
PSA	88 720-A	2.3/8" – 7.5/8"	200 kg (440 lbs)	Lift up and down with quick Lock Pin Assembly for Plain Bores
PSA	88 710-A	2.3/8" – 7.5/8"	200 kg (440 lbs)	Lift up and down with Locking Assembly for Bores with Groove (to be used inside master Bushings with Slot only)
PSH	88 710-H	2.3/8" – 7.5/8"	200 kg (440 lbs)	Lift up and down with Locking Assembly for Bores with Groove (to be used inside master Bushings with Slot only)
PSH	88 710-HD	2.3/8" – 7.5/8"	200 kg (440 lbs)	Lift up and down with Locking Assembly for Bores with Groove (to be used inside master Bushings with Slot only) with 2 ton downforce

P/N	Slip Type	Typ	Down Force	A [inch / mm]	B [inch / mm]	C [inch / mm]	D [inch / mm]
88208	RSX and LRS	PSA / PSH	No	1.67 / 42,5	3.94 / 100,0	7.38 / 187,5	1.92 / 49,0
88208-A	SDXL	PSA / PSH	No	1.67 / 42,5	3.94 / 100,0	8.07 / 205,0	2.24 / 57,0
88208-5	RSM	PSA / PSH	No	1.67 / 42,5	3.94 / 100,0	9.20 / 233,8	1.71 / 43,6
88408	RSX and LRS	PSH	Yes	1.67 / 42,5	3.94 / 100,0	7.32 / 186,0	1.28 / 32,6
88408-C	SDXL	PSH	Yes	1.67 / 42,5	3.94 / 100,0	8.13 / 206,6	0.87 / 22,0
88408-D	SDML	PSH	Yes	1.67 / 42,5	3.15 / 80,0	9.76 / 248,0	0.87 / 22,0
88408-5	RSM	PSH	Yes	1.67 / 42,5	3.94 / 100,0	9.60 / 244,0	1.28 / 32,6
88208-LD	LD	PSH	Yes				

HYDRAULIC CASING SLIP LIFTER (HCSL)

Description

FORUM HCSL-350 Hydraulic Casing Slip Lifter is a power tool used to lift casing / conductor slips and reduce personnel fatigue and injuries through remote operation from the driller's cabin or standalone control panels. It will also extend slip and insert life by properly setting and raising slips. The Slip Lifter can be used with FORUM standard casing / conductor slips from 18.5/8" – 30".

Features

- Hydraulically operated, including feedback signal for "Slip set"; a „Slip up" signal is optional
- Uses standard FORUM CSL slip segments, which improves slip segment utilization
- Integrates into casing running tools and topdrives
- Designed with manual guide plate for different pipe sizes
- Remote operations possible with an optional FORUM control



HCSL

HYDRAULIC CASING SLIP LIFTER

P/N	558 020-X
Load Rating	350 ton
Pipe size range	18.5/8" – 30"
Working pressure	Min 140 bar (2027 psi)
	Max 210 bar (3046 psi)
Required Flow rate	Min 5 Gpm (18.9 l/m)
	Max 10 Gpm (37.9 l/m)

API Pipe Size	Slip Carrier	Reducing Bushing	Load Rating
18.5/8"	558 066-X	553 464-X	350 ton
20"	558 063-X	553 464-X	350 ton
22"	558062-X	553463-2-X	350 ton
24"	558 064-X	553 463-X	350 ton
26"	558 065-X	553 462-X	350 ton
30"	558 061-X	n/a	350 ton

HYDRAULIC BACKSAVER

Description

FORUM BackSaver® is a hydraulically operated power tool used to lift the slips and reduce personnel fatigue and injuries through remote operation from the driller's cabin or standalone control panels. It will also extend slip and insert life by properly setting and raising slips.

Features

- Models available to fit both pin and square drive master bushings
- Models available to fit 17.1/2" – 37.1/2" master bushings
- Pneumatic and hydraulic models available
- Hydraulic feedback options available (some models)
- Uses standard 16" slips (adapter kits required)



PNEUMATIC BACKSAVER (W/O SLIPS)

Description	P/N	Weight
Pneumatic BackSaver Assembly f/ 27.1/2" Pin Drive	26-100-PD	136 kg (300 lbs)
Pneumatic BackSaver Assembly f/ Square Drive	26-100-SD	136 kg (300 lbs)

HYDRAULIC BACKSAVER (W/O SLIPS)

Description	P/N	Weight
Hydraulic BackSaver Assembly f/ 27.1/2" Pin Drive	26-800-PD	136 kg (300 lbs)
Hydraulic BackSaver Assembly f/ 27.1/2" Pin Drive; w/Down Sensor	26-800-PD-01	136 kg (300 lbs)
Hydraulic BackSaver Assembly f/ Square Drive	26-800-SD	136 kg (300 lbs)

PNEUMATIC BACKSAVER ACCESSORIES

Description	P/N
Lifting Sling	26-524*
Foot Operated Control valve	34-129
Filter – Regulator – Lubricator Unit	34-127
10' Air Hose	26-540-10
15' Air Hose	26-540-15
25' Air Hose	26-540-25
Storage Stand	26-501*
Pneumatic Hand Valve Stand	26-532-ASSY

HYDRAULIC BACKSAVER ACCESSORIES

Description	P/N
Lifting Sling	26-524*
Hydraulic valve Stand	26-832-ASSY
Intermediate Hose Set	1052731*
Intermediate Hose Set w/ Down Sensor	1052750***
Hydraulic Hose, Tank	1040946**
Hydraulic Hose, Pressure	1040948**
Storage Stand	26-501*
Control Interface module, Power Slips	1027337

BACKSAVER SLIP ADAPTER KITS f/ PNEUMATIC AND HYDRAULIC BACKSAVERS

Description	P/N
Slip Adapter kit/ SDXL Slips	26-507-A
Slip Adapter kit/ 4.1/2" DU Long Slips	26-507-B
Slip Adapter kit/ 5.1/2" SDU Long Slips	26-507-D
Slip Adapter kit/ 7" SDU Long and LD Slips	26-507-E
Slip Adapter kit/ 5" SDML Slips	26-507-H
Slip Adapter kit/ 3.1/2" & 4.1/2" SDML Slips	26-507-I
Slip Adapter kit/ 5.1/2" DU Long Slips	26-507-J
Slip Adapter kit/ 4.1/2" & 5" RSX / LRS Slips	1121442
Slip Adapter kit/ 5.1/2" & 6.5/8" RSX / LRS Slips	1121585
Slip adapter kit / 7" & 7 5/8" RSX Slips	26-507-O

*Item included in BackSaver Assemblies

**Hoses connects from valve Stand to Power Unit

***Item included in BackSaver Assemblies W/ down sensor

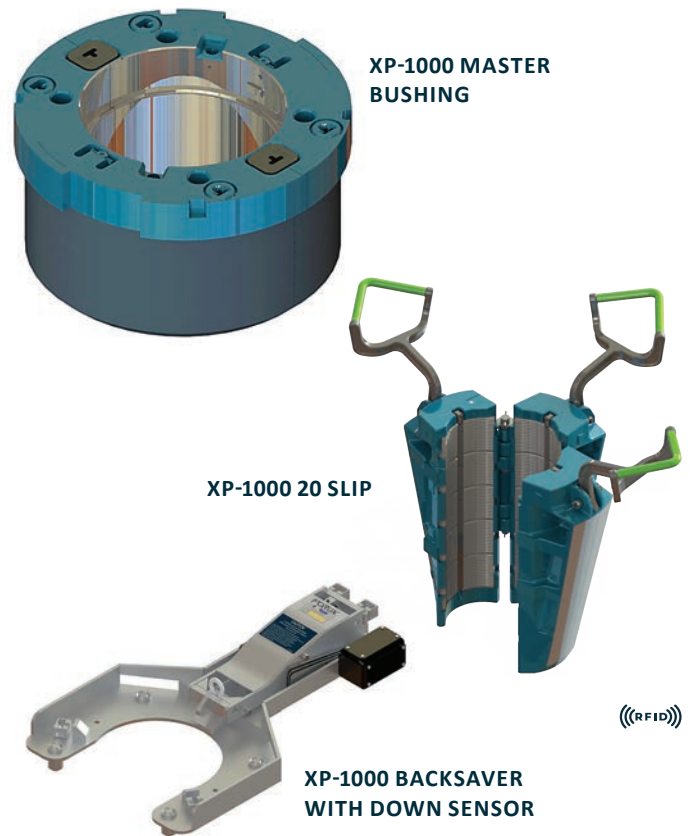
XP-1000 SYSTEM

Description

FORUM XP-1000 Systems consists of a proprietary master bushing, insert bowl, and slips designed to address the requirement for ultra-high loads in the emerging deep drilling market. The XP-1000 System also uses the hydraulically operated, XP-1000 BackSaver® to lift the slips and reduce personnel fatigue and injuries through remote operation from the driller's cabin or standalone control panels. Designed to handle pipe ranging from 3.1/2" – 7.1/8" and is load rated for 1000 ton.

Features

- Automated operation
- Hydraulic feedback options available
- Split 37.1/2" keyed master bushing
- Split inner bowl with 90° orientation to master bushing
- Patented slip and bowl taper to reduce crushing forces
- Patented load distributing slip / insert system
- Extended 20" effective slip height and 80% effective contact area to reduce crushing forces
- Standard API 4" TPF insert bowls available
- Optional wear/deflection plate protects bowl from wear



XP-1000 BACKSAVER (W/O SLIPS)				
Description	P/N	Weight		
XP-1000 BackSaver Assembly	1014730	136 kg (300 lbs)		
XP-1000 BackSaver Assembly w/ Down Sensor	1014731	144 kg (317 lbs)		

XP-1000 MASTER BUSHINGS				
Description	P/N	Weight	Load Rating	
XP-1000 Master Bushing Assembly	1031715-X.09	1867 kg (4117 lbs)	1000 ton	
XP-1000 Master Bushing Assembly w/ Deflection Plate	1027769-X	2097 kg (4622 lbs)	1000 ton	

XP-1000 INSERT BOWLS				
Description	P/N	Weight	Load Rating	
Insert Bushing f/ XP-1000 System	1014720-X.09	703 kg (1550 lbs)	1000 ton	
Insert Bushing f/ XP-1000 System w/ Umbilical Slot	03-955-01-X	676 kg (1490 lbs)	1000 ton	
Insert Bushing f/ XP-1000 System w/ 6" Umbilical Slot	03-955-06-X	656 kg (1446 lbs)	1000 ton	
#3 Insert Bushing f/ XP-1000 System (4" TPF)	1018990-X	679 kg (1496 lbs)	1000 ton	
#3 Insert Bushing f/ XP-1000 System (4" TPF) w/ 6" Umbilical Slot	03-956-06-X	618 kg (1362 lbs)	1000 Ton	
1000 Ton Dual Slot bowl with 4" Taper	03-956-07-X	618 kg (1362 lbs)	1000 Ton	
#2 Insert Bushing f/ XP-1000 System (4" TPF)	03-957-X.10	588 kg (1297 lbs)	1000 ton	
#1 Insert Bushing f/ XP-1000 System (4" TPF)	03-958-X.10	446 kg (983 lbs)	1000 ton	

XP-1000				
Description	Range	P/N	Weight	Load Rating
XP-1000 Slip Assembly	7"	03-1000-X	179 kg (394 lbs)	1000 ton

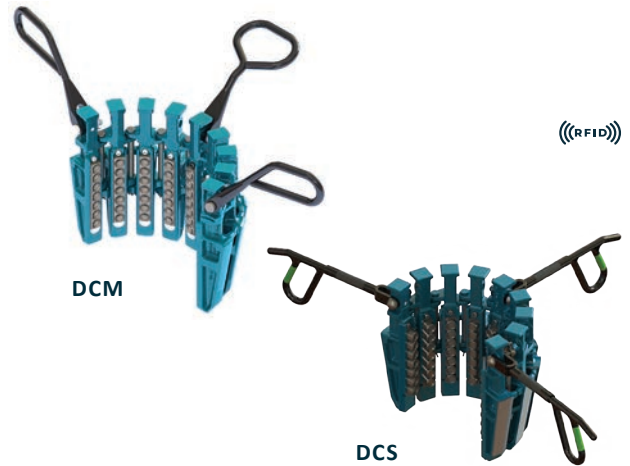
MANUAL DRILL COLLAR SLIPS

Description

FORUM Drill Collar Slips are designed for use in API bowls to grip and fix pipes vertically. They have a multisegment design and are made of alloy steel which is heat-treated for strength and wear resistance.

Features

- Manufactured in accordance with API 7k latest Edition
- Load Rating from 100 up to 650 ton
- Pipe range from 2.3/8" – 11.3/4"



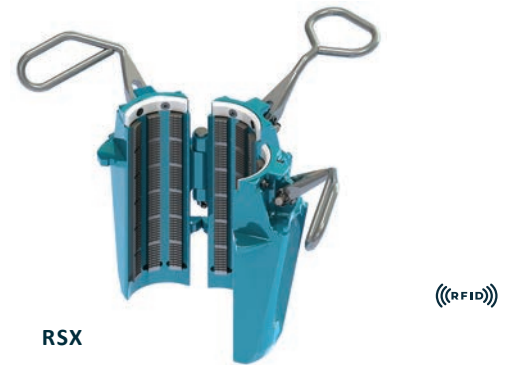
MULTISEGMENT DRILL COLLAR SLIP (DCS)			
API Pipe Size	Slip Assembly	Used Inside Bowl	Load Rating
3" – 4"	84 110-X	Bowl #3	160 ton
4" – 4.7/8"	84 120-X	Bowl #3	160 ton

MULTISEGMENT DRILL COLLAR SLIP (DCM)			
API Pipe Size	Slip Assembly	Used Inside Bowl	Load Rating
4.1/2" – 6"	85 110-X	Bowl #3	270 ton
5.1/2" – 7"	85 120-X	Bowl #3	270 ton

MULTISEGMENT DRILL COLLAR SLIP (DCL)			
API Pipe Size	Slip Assembly	Used Inside Bowl	Load Rating
6.3/4" – 8.1/4"	86 120-X	Bowl #3	210 ton
8" – 9.1/2"	86 130-X	Bowl #3	220 ton
8.1/2" – 10"	86 140-X	Bowl #2	240 ton
9.1/4" – 11.1/4"	86 150-X	Bowl #2	260 ton
11" – 12.3/4"	86 160-X	Bowl #1	320 ton
12" – 14"	86 170-X	Bowl #1	360 ton

All Blohm + voss Slips have an API Taper of 4" In/ft on the diameter

MANUAL ROTARY SLIPS

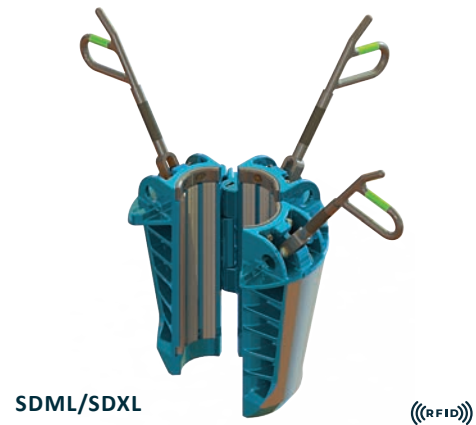


RSM ROTARY SLIP					
Slip Body Size	API Pipe Size	Slip Assembly c/w Inserts	Inserts P/N	Inserts Qty.	Load Rating
3.1/2"	2.3/8"	82 110-2-F-X	80 110	30	200 ton
3.1/2"	2.7/8"	82 120-2-F-X	80 111	30	200 ton
3.1/2"	3.1/2"	82 130-2-F-X	80 112	30	200 ton

RSX ROTARY SLIP					
Slip Body Size	API Pipe Size	Slip Assembly c/w Inserts	Inserts P/N	Inserts Qty.	Load Rating
4.1/2"	3.1/2"	83 210-2-F-X	80 113	54	275 ton
4.1/2"	4"	83 220-2-F-X	80 114	54	275 ton
4.1/2"	4.1/2"	83 230-2-F-X	80 115	54	275 ton
5"	4"	83 310-2-F-X	80 118	54	275 ton
5"	4.1/2"	83 320-2-F-X	80 116	54	275 ton
5"	5"	83 330-2-F-X	80 117	54	275 ton
5.1/2"	4.1/2"	83 410-2-F-X	80 118	54	350 ton
5.1/2"	5"	83 420-2-F-X	80 119	54	350 ton
5.1/2"	5.1/2"	83 430-2-F-X	80 120	54	350 ton
6.5/8"	5.3/4"	83 550-2-F-X	270 808	54	275 ton
6.5/8"	5.7/8"	83 540-2-F-X	270 708	54	275 ton
6.5/8"	6.5/8"	83 520-2-F-X	270 109	54	275 ton
7"	6"	83 510-F-X	80 118	72	320 ton
7"	6.5/8"	83 520-F-X	80 122	72	320 ton
7"	7"	83 530-F-X	80 123	72	320 ton
7.5/8"	6.906"	83 555-F-X	350 710	72	275 ton
7.5/8"	7.5/8"	83 560-F-X	80 123	72	275 ton

LOAD RATED SLIP (LRS)							
Slip Body	API Pipe Size	Size Slip Assembly c/w Inserts	Inserts P/N	Inserts Qty.	Load Ring	Load Ring Qty.	Load Rating
4.1/2"	3.1/2"	83 910-2-F-X	80 113	45	83 405-4	6	500 ton
4.1/2"	4"	83 920-2-F-X	80 114	45	83 405-4	6	500 ton
4.1/2"	4.1/2"	83 930-2-F-X	80 115	45	83 405-4	6	500 ton
5.1/2"	4.1/2"	83 730-F-X	270 905 (80 118)	45	83 405-1	6	500 ton
5.1/2"	5"	83 720-F-X	270 506 (80 119)	45	83 405-1	6	500 ton
5.1/2"	5.1/2"	83 710-F-X	270 107 (80 120)	45	83 405-1	6	500 ton
6.5/8"	5.7/8"	83 620-2-F-X	270 708	45	83 405-2	6	650 ton
6.5/8"	6.5/8"	83 610-2-F-X	270 109	45	83 405-2	6	650 ton
7"	6.5/8"	83 840-F-X	270 409	60	83 405-3	6	500 ton
7"	6.906"	83 830-F-X	270 210	60	83 405-3	6	500 ton
7"	7"	83 810-F-X	80 123	60	83 405-3	6	500 ton
7.5/8"	7.5/8"	83 850-F-X	80 123	60	83 405-5	6	500 ton

MANUAL ROTARY SLIPS



SD SERIES SLIPS LESS INSERTS				
Type	P/N*	Slip Body Size	Load Rating	Weight
SDXL	24-200-F-X	4.1/2"	250 ton	106 kg (233 lbs)
SDXL	24-100-F-X	5"	200 ton	103 kg (228 lbs)
SDXL	24-300-F-X	5.1/2"	175 ton	96 kg (212 lbs)

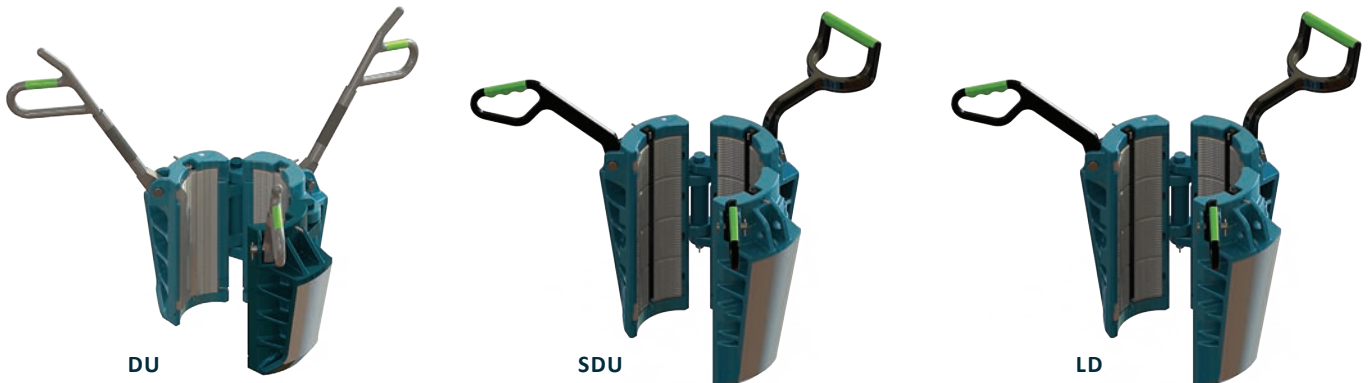
SD SERIES SLIPS WITH INSERTS				
Type	P/N*	Slip Size / Pipe Size	Load Rating	Weight
SDXL	24-245-F-X	4.1/2" x 4.1/2"	250 ton	116 kg (255 lbs)
SDXL	24-240-F-X	4.1/2" x 4"	250 ton	120 kg (265 lbs)
SDXL	24-235-F-X	4.1/2" x 3.1/2"	250 ton	125 kg (276 lbs)
SDXL	24-150-F-X	5" x 5"	200 ton	113 kg (250 lbs)
SDXL	24-145-F-X	5" x 4.1/2"	200 ton	118 kg (260 lbs)
SDXL	24-140-F-X	5" x 4"	200 ton	123 kg (271 lbs)
SDXL	24-355-F-X	5.1/2" x 5.1/2"	175 ton	116 kg (255 lbs)
SDXL	24-350-F-X	5.1/2" x 5"	175 ton	111 kg (244 lbs)
SDXL	24-345-F-X	5.1/2" x 4.1/2"	175 ton	116 kg (255 lbs)

Flex Handles f/ SDXL & SDML		
P/N:	Description:	Slips Type:
23-112	Safety Flex Handle	SDXL

*Replace the -X at the end of the part number with -F-X for Flex Handle option

*Replace the -X at the end of the part number with -BS-X for BackSaver option

MANUAL ROTARY SLIPS



DU Series				
Type	P/N*	Slip Body Size	Load Rating	Weight (lbs)
DU Long	03-115-X	4.1/2"	150 ton	169

*Replace the -X at the end of the part number with -F-X for Flex Handle option. *Replace the -X at the end of the part number with -BS-X for BackSaver option.

SDU Series:				
Type	P/N*	Slip Body Size	Load Rating	Weight (lbs)
SDU Long	03-112-SDU-X	5-1/2"	400 ton	210
SDU Long	03-119-SDU-X	7"	250 ton	208

*Replace the -X at the end of the part number with -F-X for Flex Handle option. *Replace the -X at the end of the part number with -BS-X for BackSaver option.

LD Series:				
Type	P/N*	Slip Body Size	Load Rating	Weight (lbs)
LD	03-500-LD-F-X.11	7"	500 ton	200

*Replace the -X at the end of the part number with -F-X for Flex Handle option. *Replace the -X at the end of the part number with -BS-X for BackSaver option.

LD Series Inserts:			
P/N	Description	Slip Body Size	Weight (lbs)
03-504	7" X 4.1/2" LD/LDXL Insert	7"	4.4
03-505	7" X 5" LD/LDXL Insert	7"	3.9
03-510	7" X 5.1/2" LD/LDXL Insert	7"	3.4
03-511-1	7" X 5.5/8" LD/LDXL Insert	7"	3.2
03-515	7" X 5.7/8" LD/LDXL Insert	7"	2.9
03-520	7" X 6.5/8" LD/LDXL Insert	7"	1.9
03-523	7" X 6.906" LD/LDXL Insert	7"	1.6
03-525	7" X 7" LD/LDXL Insert	7"	1.5

7" LD Slip set takes 24 Inserts; 7" LDXL Slip set takes 30 inserts

Flex Handles		
P/N	Description	Slips Type
03-300-1	Flex handle (Rear)	DU & SDU
03-300-2	Flex Handle (Front)	DU & SDU
03-300-3*	Flex handle (Rear)	DU & SDU
03-300-4*	Flex Handle (Front)	DU & SDU
08-136	Flex Handle	C1 & TYPE A
19-104-F	Safety Flex Handle	TYPE B
23-112	Safety Flex Handle	CMSXL, CMS-3, CPS, CPS-3, DCS, SD

*Flex handle without rubber mold over cable

MANUAL CASING SLIPS



CSL

CSL-EXTRA LONG CASING SLIP					
API Pipe Size	Slip complete w/Circular Buttons P/N	Button P/N	Buttons Qty.	Used inside Bushing/ Bowl Description	Load Rating
6.5/8"	87 110-X	80 155	144	MPCH with Bowl #3	360 ton
7"	87 120-X	80 150	144	MPCH with Bowl #3	360 ton
7.5/8" and 7.3/4"	87 130-X	80 156	144	MPCH with Bowl #3	360 ton
8.5/8"	87 140-X	80 156	156	MPCH with Bowl #3	390 ton
9.3/8"	87 145-X	80 154	168	MPCH with Bowl #2	450 ton
9.5/8" – 10.1/8"	87 150-X	80 156	168	MPCH with Bowl #2	420 ton
10.3/4"	87 160-X	80 156	180	MPCH with Bowl #2	420 ton
11"	87 165-X	80 158	204	MPCH with Bowl #1	500 ton
11.3/4" and 11.7/8"	87 170-X	80 154	204	MPCH with Bowl #1	500 ton
12.3/4"	87 175-X	80 158	204	MPCH with Bowl #1	500 ton
13.3/8" and 13.1/2"	87 180-X	80 156	216	MPCH with Bowl #1	500 ton
13.5/8" and 14"	87 195-X	80 158	240	16" CB	500 ton
15"	87 196-X	80 158	264	16" CB	500 ton
16" and 16.3/4"	87 190-X	80 157	252	16" CB	500 ton
17.7/8" and 18"	87 205-X	80 158	288	20" CB	500 ton
18.5/8" and 18.3/4"	87 200-X	80 153	300	20" CB	500 ton
20"	87 210-X	80 157	312	20" CB	500 ton
22"	87 215-X	80 158	360	24" CB	500 ton
24"	87 220-X	80 157	360	24" CB	500 ton
24.1/2"	87 225-X	80 158	384	26" CB	500 ton
26"	87 230-X	80 157	396	26" CB	500 ton
28"	87 235-X	80 158	432	30" CB	500 ton
30"	87 240-X	80 157	444	30" CB	500 ton
36"	87 260-X	80 157	528	36" CB	500 ton
42"	87 280-X	80 157	612	42" CB	500 ton
CSC-CONDUCTOR PIPE SLIP					
API Pipe Size	Slip complete w/Circular Buttons P/N	Button P/N	Buttons Qty.	Used inside Bushing/ Bowl Description	Load Rating
24"	88 110-X	80 157	156	24" CB	390 ton
26"	88 120-X	80 157	168	26" CB	420 ton
28"	88 125-X	80 158	180	30" CB	450 ton
30"	88 130-X	80 157	192	30" CB	480 ton
32"	88 140-X	80 157	204	36" CB	500 ton
36"	88 160-X	80 157	228	36" CB	500 ton

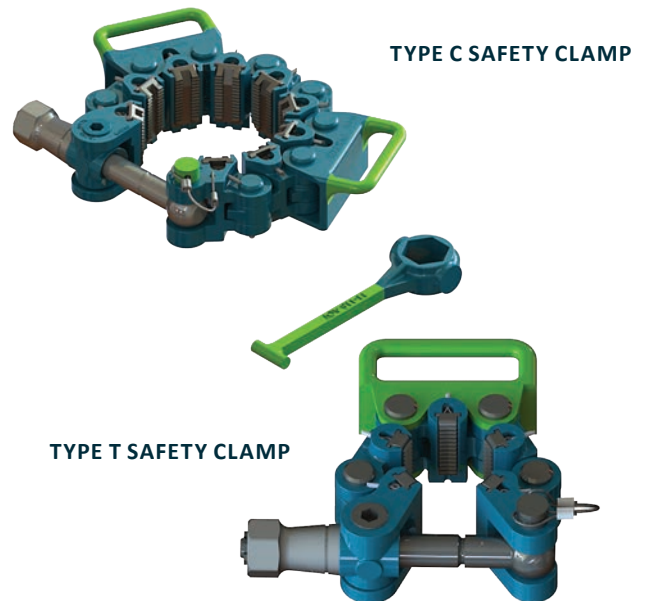
SAFETY CLAMPS

Description

FORUM Type C Safety Clamps are multi-segment safety clamps designed to help guard against dropping a wide range of flush-joint pipe, streamlined drill collars, tubings, etc. into the hole while making-up or breaking-out the string. Pipe size ranges from 1.1/8" – 43" with the proper number of segments and inserts. Each link changes the effective gripping diameter of the clamp by 1".

Features

- Spring loaded tapered inserts
- Uniform gripping pressure around the Pipe
- Removable end link pin
- Available storage box
- Available with lift clevis for easy handling above rig floor (some models)



TYPE T SERIES					
Type	Range	P/N*	Required # of Links	Weight	Storage Box P/N
T	1.1/8" – 2"	11-125-01.09	4	16 kg (36 lbs)	11-120
T	2.1/8" – 3.1/4"	11-126-01.09	5	18 kg (40 lbs)	11-120
T	3.1/2" – 4.1/2"	11-127-01	6	20 kg (44 lbs)	11-120

TYPE C SERIES					
Type	Range	P/N*	Required # of Links	Weight	Storage Box P/N
CR	3.3/4" – 4.5/8"	12-127-01.09	7	21 kg (46 lbs)	11-120
CR	4.1/2" – 5.5/8"	12-128-01.09	8	25 kg (55 lbs)	11-120
CR	5.1/2" – 6.5/8"	12-129-01.09	9	27 kg (60 lbs)	11-120
CR	6.1/2" – 7.5/8"	12-130-01.09	10	29 kg (64 lbs)	11-120
CR	7.1/2" – 8.5/8"	12-131-01.09	11	31 kg (69 lbs)	11-120
CR	8.1/2" – 9.5/8"	12-132-01.09	12	33 kg (73 lbs)	11-120
CR	9.1/2" – 10.5/8"	12-133-01.09	13	35 kg (78 lbs)	11-120
CL	10.1/2" – 11.5/8"	12-134-01.09	14	37 kg (82 lbs)	11-120
CL	11.1/2" – 12.5/8"	12-135-01.09	15	40 kg (87 lbs)	11-120
CL	12.1/2" – 13.5/8"	12-136-01.09	16	41 kg (91 lbs)	11-120
CL	13.1/2" – 14.5/8"	12-137-01.09	17	52 kg (115 lbs)	11-120
CL	14.1/2" – 15.5/8"	12-138-01.09	18	54 kg (119 lbs)	11-120
CXL	15.1/2" – 17"	12-145-01.09	18	55 kg (121 lbs)	11-120
CXL	16.1/2" – 18"	12-146-01.09	19	57 kg (125 lbs)	11-120
CXL	17.1/2" – 19"	12-147-01.09	20	59 kg (129 lbs)	31-334
CXL	18.1/2" – 20"	12-148-01.09	21	61 kg (134 lbs)	31-334
CXL	19.1/2" – 21"	12-149-01.09	22	63 kg (139 lbs)	31-334

Available Types

CR: Single Screw CL: Single Screw CXL: Double Screw

*Add -B to the end of the Part Number to include Storage Box NOTE: Safety Clamps are not to be used as a lifting device

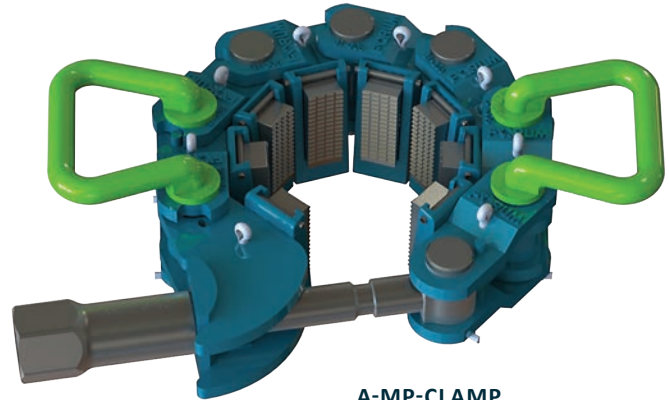
SAFETY CLAMPS

Type C Series w/ Lifting Clevis					
P/N*	Type	Size Range	Required No. of Links	Storage Box P/N	Weight
12-150-01	CL	10.1/2" - 11.5/8"	14	31-334	39 kg (85 lbs)
12-151-01	CL	11.1/2" - 12.5/8"	15	31-334	40 kg (89 lbs)
12-152-01	CL	12.1/2" - 13.5/8"	16	31-334	43 kg (94 lbs)
12-153-01	CL	13.1/2" - 14.5/8"	17	31-334	45 kg (99 lbs)
12-154-01	CL	14.1/2" - 15.5/8"	18	31-334	47 kg (104 lbs)
12-155-01	CXL	15.1/2" - 17"	18	31-334	52 kg (114 lbs)
12-156-01	CXL	16.1/2" - 18"	19	31-334	54 kg (119 lbs)
12-157-01	CXL	17.1/2" - 19"	20	31-334	56 kg (124 lbs)
12-158-01	CXL	18.1/2" - 20"	21	31-334	59 kg (129 lbs)
12-159-01	CXL	19.1/2" - 21"	22	31-334	61 kg (135 lbs)
12-160-01	CXL	21.1/8" - 23"	24	31-334	66 kg (145 lbs)
12-161-01	CXL	24.1/8" - 26"	27	31-334	78 kg (171 lbs)
12-162-01	CXL	29.1/2" - 31"	32	31-334	87 kg (191 lbs)
12-163-01	CXL	35.1/2" - 37"	38	31-334	99 kg (219 lbs)
12-164-01	CXL	41.1/2" - 43"	44	31-334	108 kg (238 lbs)

*Add -B to the end of the part number to include storage box.

NOTE: Safety Clamps are not to be used as a lifting device.

SAFETY CLAMPS



A-MP-CLAMP

TYPE A-MP SERIES					
Type	Range	P/N*	Required # of Links	Weight	Storage Box P/N
A-MP-S	2.7/8" – 4.1/8"	31-009	7	58 kg (128 lbs)	11-120
A-MP-S	4" – 5"	31-010	8	60 kg (133 lbs)	11-120
A-MP-R	4.1/2" – 5.5/8"	31-011	7	54 kg (120 lbs)	11-120
A-MP-R	5.1/2" – 7"	31-012	8	59 kg (130 lbs)	11-120
A-MP-R	6.3/4" – 8.1/4"	31-013	9	63 kg (138 lbs)	11-120
A-MP-R	8" – 9.1/4"	31-014	10	67 kg (147 lbs)	11-120
A-MP-R	9.1/4" – 10.1/2"	31-015	11	70 kg (155 lbs)	11-120
A-MP-M	10.1/2" – 11.1/2"	31-016	12	74 kg (163 lbs)	11-120
A-MP-M	11.1/2" – 12.1/2"	31-017	13	78 kg (171 lbs)	11-120
A-MP-M	12.1/2" – 13.5/8"	31-018	14	81 kg (179 lbs)	31-334
A-MP-M	13.5/8" – 14.3/4"	31-019	15	85 kg (187 lbs)	31-334
A-MP-M	14.3/4" – 15.7/8"	31-020	16	89 kg (195 lbs)	31-334
A-MP-L	15.7/8" – 17"	31-021	17	98 kg (215 lbs)	31-334
A-MP-L	17" – 18.1/2"	31-022	18	101 kg (223 lbs)	31-334
A-MP-L	18.1/8" – 19.3/8"	31-023	19	105 kg (231 lbs)	31-334
A-MP-XL	19.3/8" – 20.3/8"	31-024	19	127 kg (280 lbs)	31-334
A-MP-XL	20.3/8" – 21.1/2"	31-025	20	131 kg (288 lbs)	31-334
A-MP-XL	21" – 22.5/8"	31-032	21	134 kg (296 lbs)	31-334
A-MP-XL	22.5/8" – 23.3/4"	31-033	22	138 kg (304 lbs)	31-334
A-MP-XL	23.3/4" – 24.7/8"	31-034	23	142 kg (312 lbs)	31-334
A-MP-XL	24.7/8" – 26"	31-035	24	145 kg (320 lbs)	31-334
A-MP-XL	26" – 27.1/8"	31-036	25	149 kg (328 lbs)	31-334
A-MP-XL	29.3/8" – 30.1/2"	31-039	28	152 kg (336 lbs)	31-334
A-MP-XL	35" – 36.1/8"	31-044	32	160 kg (352 lbs)	31-334

*Storage Boxes are included with the base A-MP assembly NOTE: Safety Clamps are not to be used as a lifting device

MASTER BUSHINGS, RT-ADAPTERS & BOWLS

Description

FORUM master Bushings and Adapters are available for the most common Rotary Table types and sizes. Special solutions are available on request.

Features

- For Load Ratings up to 1500 ton
- For Rotary Table sizes from 27.1/2" up to 75.1/2"
- All Bowls are available with slots for liner
- Bowls have a 4" taper



BOWL WITH SLOT

((RFID))

MASTER BUSHINGS				
Type	P/N	RT Brand	RT size	Load Rating
Hinged Master Bushing MPCH*	553 410-X	Emsco	49.1/2"	750 ton
Hinged Master Bushing MPCH*	553 350-X	NOV	37.1/2"	500 ton
Hinged Master Bushing MPCH*	553 340-X	Emsco	37.1/2"	500 ton
Hinged Master Bushing MPCH*	553 300-X	Wirth	37.1/2"	500 ton
Solid Body Pin Drive master Bushing, MSPC	553 560-X	National	27.1/2"	upon request

BOWLS				
Type	P/N	Pipe size	RT size	Load Rating
Bowl #3	556 608-X**	8.5/8" & smaller	37.1/2"	750 ton
Bowl #2	556 609-X**	10.3/4" – 9.5/8"	37.1/2"	750 ton
Bowl #1	556 610-X**	13.3/8" – 11.3/4"	37.1/2"	750 ton

RT-ADAPTERS				
Type	P/N	RT Brand	RT size	Load Rating
Split Adapter	553 285-X	NOV/NOV	75.1/2" x 49.1/2"	1500 ton
Solid Adapter	553 220-X	NOV/NOV	60.1/2" x 49.1/2"	1500 ton
Hinged Adapter	553 230-X	NOV/NOV	60.1/2" x 49.1/2"	350 ton
Split Adapter	553 290-X	NOV/NOV	60.1/2" x 49.1/2"	1500 ton
Solid Adapter	553 200-X	NOV/NOV	49.1/2" x 37.1/2"	1000 ton
Hinged Adapter	553 210-X	NOV/NOV	49.1/2" x 37.1/2"	upon request
Solid Adapter	553 240-X	NOV/Oilwell/Wirth	49.1/2" x 37.1/2"	upon request
Split Adapter	553 295-X	NOV/Lewco	49.1/2" x 37.1/2"	1000 ton
Split Adapter	553 260-X	NOV/Oilwell/Wirth	49.1/2" x 37.1/2"	1000 ton
Hinged Adapter	553 250-X	NOV/Oilwell/Wirth	49.1/2" x 37.1/2"	upon request
Solid Adapter	553 245-X	Wirth/Oilwell/Wirth	49.1/2" x 37.1/2"	upon request
Solid Adapter	553 270-X	NOV/API	37.1/2" x 27.1/2"	upon request
Split Adapter	553 280-X	NOV/NOV	37.1/2" x 27.1/2"	upon request
Hinged Adapter	553 265-X	NOV/NOV	37.1/2" x 27.1/2"	upon request
Solid Adapter	553 275-X	Emsco/NOV	37.1/2" x 27.1/2"	750 ton

*incl. Bowl #3, Liftings Slings & Bit Breaker Adapter Plate **add „L" for 120 mm Slot for Liner, -SL for 153 mm slot

Insert Bowls, 37 1/2" - 49 1/2" Master Bushings			
P/N	Description	Load Rating	Weight
34-303-02-X	#3 Insert Bowl w/ Dual Umbilical Slot for 8 5/8" & Smaller	500 ton	352 kg (775 lbs)
34-303-05-X	#3 Insert Bowl w/ Dual Umbilical Slot for 8 5/8" & Smaller	1000 ton	342 kg (753 lbs)
34-303-04-x.10	Insert bowl No.3; 8 5/8" & Smaller (J-Notch)		
34-303-06-x.10	Insert bowl No.3; 8 5/8" & Smaller (Dual Slot)		

CASING BUSHINGS

Description

FORUM Casing Bushings (CB) are used for casing operations with manual rotary slips. The HCS is placed on top of the rotary table or structure, the CB is inserted into the rotary table.

Features

- Pipe sizes from 2.3/8" up to 42"
- Load ratings from 200 up to 500 ton
- Fits in 37.1/2" RT



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CASING BUSHING

CASING BUSHINGS				
Type	P/N	RT Brand	Pipe Size	Load Rating
Split Casing Bushing	553 727-X	NOV	30"	500 ton
Split Casing Bushing	553 727-2-X	Oilwell/Wirth	30"	500 ton
Split Casing Bushing	553 726-X	NOV	26"	500 ton
Split Casing Bushing	553 726-2-X	Oilwell/Wirth	26"	500 ton
Split Casing Bushing	553 725-X	NOV	24"	500 ton
Split Casing Bushing	553 725-2-X	Oilwell/Wirth	24"	500 ton
Split Casing Bushing	553 745-X	NOV	22"	500 ton
Split Casing Bushing	553 720-X	Emsco	20" – 18.5/8"	500 ton
Split Casing Bushing	553 720-1-X	NOV	20" – 18.5/8"	500 ton

API BOWL

Description

The FORUM API Bowl has the same thru bore and taper as the API #3 insert bowl with pipe sizes from 2.1/16" – 8.5/8" and a 100 ton load rating.

Features

- Standard API 4" TPF
- Hinged design



API BOWL

8.5/8" API BOWL			
Description	P/N	Weight	Load Rating
8.5/8" API Bowl	17-850-X	227 kg (500 lbs)	100 ton

HINGED CASING SPIDERS

Description

FORUM Hinged Casing Spiders (HCS) and Casing Bushings (CB) are used for casing operations with manual rotary slips. The HCS is placed on top of the rotary table or structure, the CB is inserted into the rotary table.

Features

- Pipe sizes from 2.3/8" up to 42"
- Load ratings from 200 up to 500 ton
- Fits in 37.1/2" RT

HINGED CASING SPIDERS			
Type	P/N	Pipe Size	Load Rating (ton)
HCS-200 for 30" Pipe size			
Reducing Bushing 30" x 22" Pipe size	553463-2-X	30" x 22"	500
Reducing Bushing for 30" x 28" Pipe size	553 480-X	30" & 28"	200
HCS-200 for 42" Pipe size			
Reducing Bushing	553 650-X	42"	200
Reducing Bushing for 42" x 40" Pipe size	553 660-X	42" x 40"	200
Reducing Bushing for 42" x 36" Pipe size	553 651-X	42" x 36"	200
HCS-200 for 36" Pipe size			
Reducing Bushing for 36" x 32" Pipe size	553 492-X	36"	200
Reducing Bushing for 36" x 30" Pipe size	553 497-X	36" x 32"	200
Reducing Bushing for 36" x 30" Pipe size	553 493-X	36" x 30"	200
Reducing Bushing for 36" x 26" Pipe size	553 494-X	36" x 26"	200
Reducing Bushing for 36" x 24" Pipe size	553 499-X	36" x 24"	200
Reducing Bushing for 36" x 20" – 18.5/8" Pipe size	553 498-X	36" x 20"	200
HCS-200 for 20" – 18.5/8" Pipe size			
Reducing Bushing for 20" x 16" Pipe size	553 490-X	20" – 18.5/8"	200
Reducing Bushing for 20" x 16" Pipe size	553 630-X	20" x 16"	200
Reducing Bushing for 20" x 13.3/8" – 11.3/4" Pipe size	553 475-X	20" x 13.3/8" – 11.3/4"	200
Reducing Bushing for 13.3/8" x 10.3/4" – 9.5/8"	553 610-X	13.3/8" x 10.3/4" – 9.5/8"	200
(used with Reducing Bushing 20" x 13.3/8" – 11.3/4")			
Reducing Bushing for 13.3/8" x 8.5/8" – 2.3/8"	553 611-X	13.3/8" x 8.5/8" – 2.3/8"	200
(used with Reducing Bushing 20" x 13.3/8" – 11.3/4")			
HCS-200 for 13.3/8" – 11.3/4" Pipe size			
Reducing Bushing for 13.3/8" x 10.3/4" – 9.5/8"	553 600-X	13.3/8" – 11.3/4" 200 ton	
Reducing Bushing for 13.3/8" x 10.3/4" – 9.5/8"	553 610-X	13.3/8" x 10.3/4" – 9.5/8"	200
Reducing Bushing for 13.3/8" x 8.5/8" – 2.3/8"	553 611-X	13.3/8" x 8.5/8" – 2.3/8"	200
HCS-500 for 30" Pipe size			
Reducing Bushing for 30" x 26"	553 460-X	30"	500
Reducing Bushing for 30" x 26"	553 462-X	30" x 26"	500
Reducing Bushing for 30" x 24"	553 463-X	30" x 24"	500
Reducing Bushing for 30" x 20" – 18.5/8"	553 464-X	30" x 20" – 18.5/8"	500
Reducing Bushing for 20" x 16"	552 465-X	20" x 16"	500
(used with Reducing Bushing 30" x 20" – 18.5/8")			
HCS-500 for 20" – 18.5/8"			
Reducing Bushing for 20" x 16"	553 485-X	20" – 18.5/8"	500
Reducing Bushing for 20" x 16"	552 465-X	20" x 16"	500
Reducing Bushing for 20" x 13.3/8" – 11.3/4"	553 736-X	20" x 13.3/8" – 11.3/4"	500
Reducing Bushing for 13.3/8" x 10.3/4" – 9.5/8"	553 737-X	13.3/8" x 10.3/4" – 9.5/8"	500
(used with Reducing Bushing 20" x 13.3/8" – 11.3/4")			
Reducing Bushing for 20" x 10.3/4" – 9.5/8"	553 738-X	20" x 10.3/4" – 9.5/8"	500

ROTATING MOUSEHOLE

Description

The FORUM Rotating mousehole is a pneumatically/ hydraulically operated power tool used to quickly and effectively make-up and set back stands of drill pipe, while simultaneously drilling. It can also be used to break-out and lay down excess pipe that has been left in the derrick. Though it does not make-up pipe to full torque, it does shoulder the connection to 1500 ft/lbs eliminating multiple torque cycles.

Features

- Pneumatic and hydraulic models available
- Eliminates the need for spinning wrenches
- Moves spinning operations below the rig floor
- Reduces personnel



I9000-PM

ROTATING MOUSHOLE TOOL

Description	P/N	Weight
Pneumatic Rotating Moushole Tool	I9000-PM.01	472 kg (1040 lbs)
Hydraulic Rotating Moushole Tool	I9000-HPM.01	520 kg (1147 lbs)

ROTATING MOUSHOLE ACCESSORIES

Description	P/N
Bowl Puller	I9000*
Landing and Retrieving Tool	I9002*
Pneumatic Control Valve	1040527*
Hydraulic Control Valve	I9586-ASSY*

*Item included in Mousehole Assembly

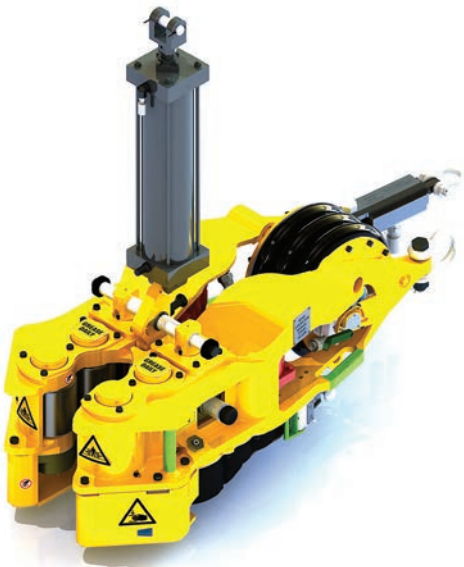
PIPE SPINNERS

Description

FORUM Pipe Spinners are durable, easy to use and designed for safety and longevity. The compact designs are self-contained, requiring no dedicated power source.

Features

- Pipe sizes from 3.1/2" – 9.1/2"
- Adapter for 2.7/8" available for some models
- Power Units available on request



SSW 40

BVOTSPIN						
Model	Range	P/N	Weight	Power Requirements	Avg. RPM	Avg. Torque
SSW-40 air	3.1/2" – 9.1/2"	9Gv73109	545 kg (1200 lbs)	250 cfm	100	1100 ft/lbs 1490 Nm

MANUAL DRILL PIPE & CASING TONGS

Description

The FORUM BV Tong series is designed for making-up and breaking-out connections of tubulars, ranging from light weight Tubing/Casing to Drill Pipe and Drill Collars. The use of multiple latch steps and interchangeable Hinge and Lug Jaw Assemblies extends the range of the Tongs.

Features

- Pipe range from 3.1/2" up to 42"
- Torque rating from 30 000 ft/lbs up to 160 000 ft/lbs
- U-Clamp optionally available



BV-100



HANGER ASSEMBLY

LEVER ASSEMBLY



LONG JAW

LATCH



LUG JAW

HINGE JAW

HINGE JAW



SHORT JAW

HINGE JAW



U-CLAMP

*Optional Available: U-Clamp II Snub Line & Pull Line saver for WRT-35, WRT-55, Bv-65, Bv-100, WRT-160, P/N 70 616

**Annotation: Less Lug Jaw- / Hinge Jaw- / Casing Head Assemblies

MANUAL DRILL PIPE & CASING TONGS

BV-65 MANUAL DRILL PIPE AND CASING TONG 3.1/2" – 21.1/2"*

Range	Description	P/N
3.1/2" – 21.1/2"	BV-65 Tong, Long Lever, Long Hanger**	70 700-S
3.1/2" – 21.1/2"	BV-65 Tong, Short Lever, Standard Hanger**	70 701-S
3.1/2" – 21.1/2"	BV-65 Tong, Long Lever, Standard Hanger**	70 702-S
3.1/2" – 21.1/2"	BV-65 Tong, Short Lever, Long Hanger**	70 703-S

HINGE & LUG JAW ASSEMBLIES

Range	Description	Torque Rating	P/N
3.1/2" – 8.1/4"	Lug Jaw Assembly	65 000 ft/lbs	70 780-S
8" – 11.1/4"	Lug Jaw Assembly	65 000 ft/lbs	70 782-S
11.3/4" – 14.3/8"	Lug Jaw Assembly	50 000 ft/lbs	70 783-S
16" – 17"	Lug Jaw Assembly	50 000 ft/lbs	70 784-S
11.3/4" – 17"	Hinge Jaw Assembly	65 000 ft/lbs	70 785
18.5/8" – 20"	Lug Jaw Assembly	50 000 ft/lbs	70 791-S
20" – 21.1/2"	Lug Jaw Assembly	50 000 ft/lbs	70 792-S
18.5/8" – 21.1/2"	Hinge Jaw Assembly	50 000 ft/lbs	70 793

BV-80 MANUAL DRILL PIPE AND CASING TONG 3.1/2" – 13.3/8"

Range	Description	P/N
3.1/2" – 13.3/8"	BV-80 Tong, Long Lever, Long Hanger**	70 100-S
3.1/2" – 13.3/8"	BV-80 Tong, Short Lever, Standard Hanger**	70 101-S

HINGE & LUG JAW ASSEMBLIES

Range	Description	Torque Rating	P/N
3.1/2" – 4.1/2"	Lug Jaw Assembly	30 000 ft/lbs	70 180-S
4" – 5.1/4"	Lug Jaw Assembly	30 000 ft/lbs	70 181-S
5" – 6"	Lug Jaw Assembly	65 000 ft/lbs	70 182-S
6" – 7"	Lug Jaw Assembly	65 000 ft/lbs	70 183-S
7" – 9"	Lug Jaw Assembly	80 000 ft/lb	70 184-S
9" – 10.3/4"	Lug Jaw Assembly	50 000 ft/lbs	70 185-S
10.3/4" – 11.3/4"	Lug Jaw Assembly	50 000 ft/lbs	70 186-S
13.3/8"	Lug Jaw Assembly	50 000 ft/lbs	70 187-S

BV-100 MANUAL DRILL PIPE AND CASING TONG 4" – 21"*

Range	Description	P/N
4" – 21"	BV-100 Tong, Long Lever, Long Hanger**	70 800-S
4" – 21"	BV-100 Tong, Long Lever, Standard Hanger**	70 801-S

HINGE & LUG JAW ASSEMBLIES

Range	Description	Torque Rating	P/N
4" – 8.1/2"	Lug Jaw Assembly	100 000 ft/lbs	70 880-S
8.1/2" – 12"	Lug Jaw Assembly	100 000 ft/lbs	70 882-S
12" – 15"	Lug Jaw Assembly	75 000 ft/lbs	70 883-S
15.3/4"	Lug Jaw Assembly	100 000 ft/lbs	70 884-S
16" – 17"	Lug Jaw Assembly	60 000 ft/lbs	70 885-S
8.1/2" – 17"	Hinge Jaw Assembly	100 000 ft/lbs	70 886
18.5/8" – 21"	Hinge and Lug Jaw Assembly	50 000 ft/lbs	800 430-S

BV-100C CASING HEAD MANUAL TONG ASSEMBLIES

Range	Description	Torque Rating	P/N
23.4" – 24.5"	BV-100C Casing Head Tong	100 000 ft/lbs	71 810-S
25.3" – 26.3"	BV-100C Casing Head Tong	100 000 ft/lbs	71 812-S
27.4" – 28.4"	BV-100C Casing Head Tong	100 000 ft/lbs	71 814-S
29.5" – 30.6"	BV-100C Casing Head Tong	100 000 ft/lbs	71 816-S
35.5" – 36.7"	BV-100C Casing Head Tong	100 000 ft/lbs	71 822-S
37" – 42"	BV-100C Casing Head Tong	100 000 ft/lbs	71 823-S

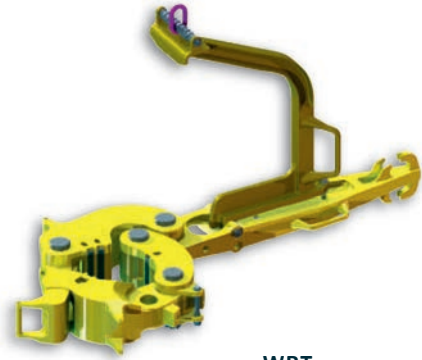
MANUAL DRILL PIPE & CASING TONGS

Description

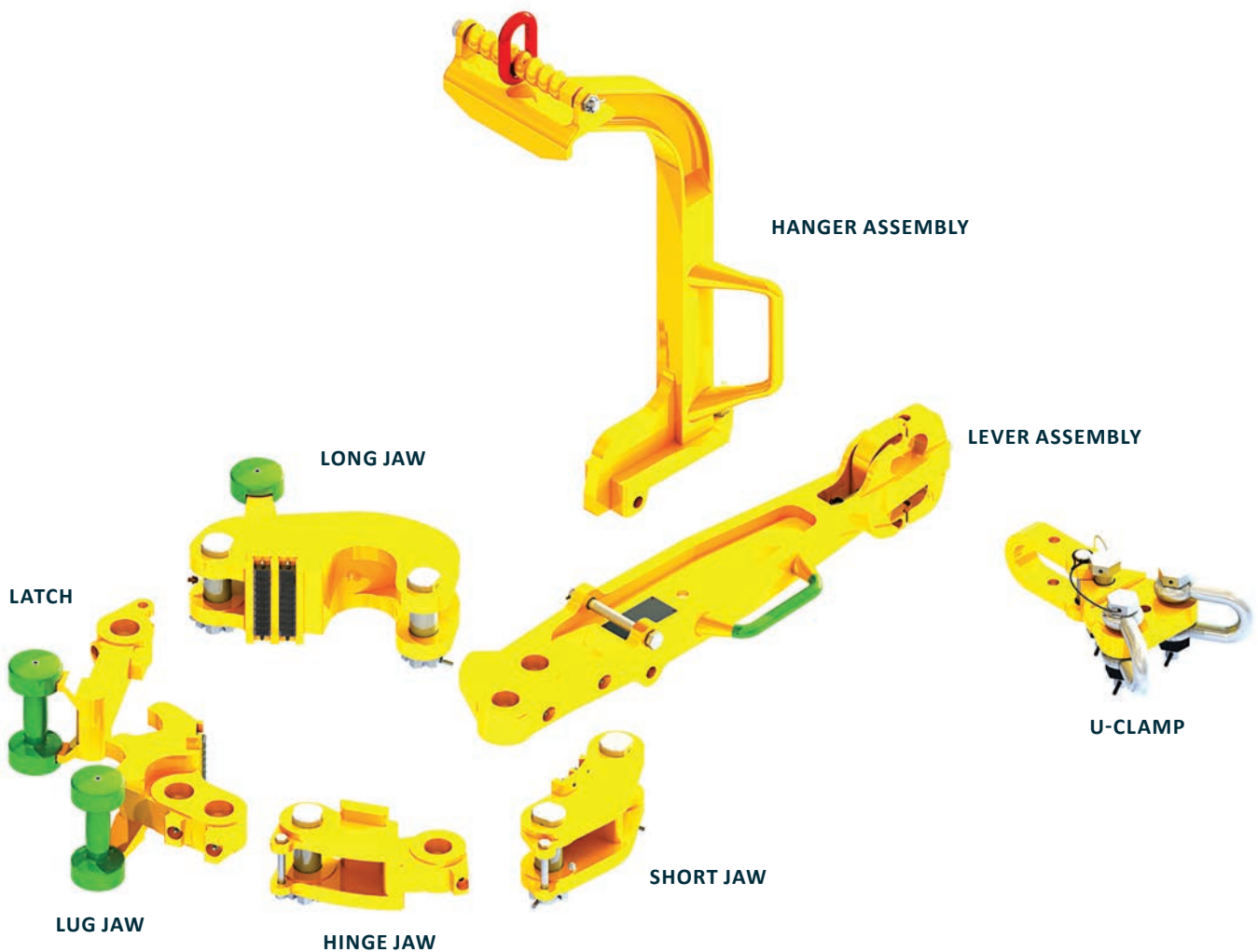
The FORUM WRT (Wide Range Tong) series is designed for making-up and breaking-out connections of tubulars, ranging from light weight Tubing/Casing to Drill Pipe and Drill Collars. The use of multiple latch steps and interchangeable Hinge and Lug Jaw Assemblies extends the range of the Tongs.

Features

- Pipe range from 2.3/8" up to 31"
- Torque rating from 35 000 ft/lbs up to 160 000 ft/lbs
- U-Clamp optionally available
- Sophisticated tong design requires less jaws compared to all other 35 000 and 55 000 ft/lbs tongs



WRT

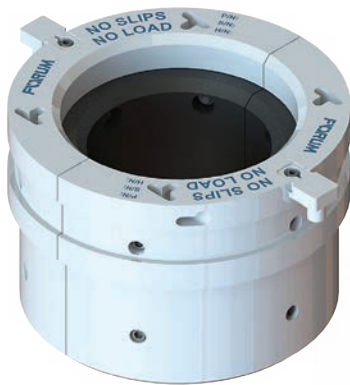


MANUAL DRILL PIPE & CASING TONGS

WRT-35 MANUAL DRILL PIPE AND CASING TONG 2.3/8" – 11"			
Range	Description	P/N	
2.3/8" – 11"	WRT-35 Tong, Long Lever, Standard Hanger**	800 100-S	
2.3/8" – 11"	WRT-35 Tong, Short Lever, Standard Hanger**	800 101-S	
HINGE & LUG JAW ASSEMBLIES			
Range	Description	Torque Rating	P/N
2.3/8" – 7.5/8" & 7.5/8" – 11"	Lug Jaw Assembly	35 000 ft/lbs	800 105-S
7.5/8" – 11"	Hinge Jaw Assembly	35 000 ft/lbs	800 107
WRT-55 MANUAL DRILL PIPE AND CASING TONG 3.1/2" – 14.3/8"			
Range	Description	P/N	
3.1/2" – 14.3/8"	WRT-55 Tong, Long Lever, Standard Hanger**	800 200-S	
3.1/2" – 14.3/8"	WRT-55 Tong, Short Lever, Standard Hanger**	800 201-S	
HINGE & LUG JAW ASSEMBLIES			
Range	Description	Torque Rating	P/N
3.1/2" – 8.1/4"	Lug Jaw Assembly	55 000 ft/lbs	800 210-S
8" – 11.1/2"	Lug Jaw Assembly	55 000 ft/lbs	800 220-S
11.1/2" – 14.3/8"	Lug Jaw Assembly	55 000 ft/lbs	800 230-S
11.1/2" – 14.3/8"	Hinge Jaw Assembly	55 000 ft/lbs	800 207
WRT-55C MANUAL CASING TONG 13" – 31"			
Range	Description	P/N	
13" – 31"	WRT-55C Tong, Long Lever, Standard Hanger**	800 240	
CASING HEAD ASSEMBLIES			
Range	Description	Torque Rating	P/N
13" – 14.1/2"	Casing Head Assembly	25 000 ft/lbs	800 250-S
16" – 17.1/2"	Casing Head Assembly	25 000 ft/lbs	800 255-S
17.3/4" – 18.7/8"	Casing Head Assembly	25 000 ft/lbs	800 260-S
18.1/4" – 19.5/8"	Casing Head Assembly	25 000 ft/lbs	800 265-S
19.1/2" – 21"	Casing Head Assembly	25 000 ft/lbs	800 270-S
20.3/4" – 22.1/4"	Casing Head Assembly	25 000 ft/lbs	800 275-S
24" – 25.1/2"	Casing Head Assembly	25 000 ft/lbs	800 280-S
30" – 31"	Casing Head Assembly	25 000 ft/lbs	800 290-S
WRT-160 MANUAL TONG AND LUG JAW ASSEMBLY*			
Range	Description	Torque Rating	P/N
c/w Long Lever and Hanger Assy 7.1/2" – 12"	WRT-160 manual Tong	160 000 ft/lbs	800 500-S-160
HINGE & LUG JAW ASSEMBLIES			
Range	Description	Torque Rating	P/N
6" - 7.1/4" & 7.1/2" - 9"	Lug Jaw Assembly	160 000 ft/lbs	800 530-S-160
7.1/2" – 8.1/2" & 9.1/2" – 10.3/4"	Lug Jaw Assembly	160 000 ft/lbs	800 510-S-160
8.1/2" – 9.7/8" & 10.3/4" – 12"	Lug Jaw Assembly	160 000 ft/lbs	800 520-S-160

*Optional Available: U-Clamp II Snub Line & Pull Line saver for WRT-35, Bv-55, Bv-65, Bv-100, WRT-160, P/N 70 616

**Annotation: Less Lug Jaw- / Hinge Jaw- / Casing Head Assemblies


CENTRALIZER BOWLS

FALSE ROTARY

SAFETY STARTER STAND

PIPE ROLLER
Centralizer Bowls:

P/N:	Description:	Weight (lbs):
34-303-03	#3 Centralizer Bowl Assembly (37 1/2" - 49 1/2" Master Bushings)	452
1157163	22" Centralizer Bowl Assembly (37 1/2" National/Emsco)	2837

Centralizer Bowls Accessories:

P/N:	Description:	Weight (lbs):
34-304-03	#3 Centralizer Bowl Insert	33
1157165	22" Centralizer Bowl Insert	142

False Rotary Tables:

P/N:	Description:	Weight (lbs):
34-900	False Rotary Table f/ 18.5/8", 24" & 30"	1675

False Rotary Table Sling:

P/N:	Description:
34-802*	Lifting Sling for False Rotary Table

Safety Starter Stand:

P/N:	Description:	Weight (lbs):
26-900	Safety Thread Starter Stand	135

Pipe Roller:

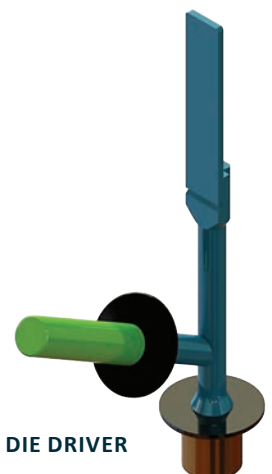
P/N:	Description:	Weight (lbs):
26-950	Pipe Roller	6
1038238	Pipe Roller w/ Kickplate	7

*Item included in False Rotary Table assembly

MANUAL DRILL PIPE & CASING TONGS

Die		
P/N	Description	Weight (lbs)
T16401-2	1/2 X 1.1/4 X 5 TONG DIE	0.6

Die Driver		
P/N	Description	Weight (lbs)
26-300	1.1/4" STRAIGHT TONG DIE DRIVER	7.2
26-350	1.1/4" ANGLED TONG DIE DRIVER	9.0
26-356	REPLACEMENT STRIKING CAP	1.5


TONG DIE DRIVER

TONG TORQUE SYSTEMS

Accurate torque measurement systems reduce drill collar and tool joint failure

The Tong Torque System indicates the torque applied to drill pipe, drill collars, tubing, and casing while joints are made – important for reducing drill collar and tool joint failure resulting from improper make-up. Two main types of Tong Torque Systems are available:

TLP (Tong Line Pull) Series

Indicates make-up or break-out torque (in pounds of line pull) for tool joints, drill collars, and drill string components.

JT (Joint Type) Series

Indicates torque (in foot/pounds) applied to each joint when using power tongs to run pipe or casings.

Each Tong Torque System consists of a Tension Load Cell that converts line pull into a hydraulic pressure signal, which it sends to a pressure-sensing indicator Gauge through an interconnecting Hydraulic Hose. Each system also includes Mounting Hardware.

Benefits

- Heavy-duty, rugged Load Cell includes an integrated cylinder and piston, ensuring a long service life and minimum maintenance.
- Fluid protects working parts of gauge; further reducing the need for repairs and protecting your equipment investment.
- Provides accurate torque indications, reducing drill collar and tool joint failure.
- Gauge pointer can be set to the required torque to give driller a clear target mark.
- Box mount, panel mount, tong clamp and tong handle mount configurations available, providing the flexibility to obtain indications every time collars are run or only for spot checks.

TYPE	TORQUE CAPACITY FT/LBS	LEVER TYPE	LEVER LENGTH MM	TONG TORQUE ASSY	SHACKLE
BV-100	100K	LONG	1200---47.24	204653-101CT	888194-205
HT-100	100K	LONG	1200---47.24	204653-101CT	888194-205
WRT-160	160K	LONG	1185---46.65	204108-509CT	888194-209
WRT-55C	25K	LONG	1080---42.52	204400-1386CT	888194-205
WRT-55C	25K	SHORT	945---37.20	204400-1387CT	888194-205
WRT-35	35K	LONG	920---36.22	204400-224CT	888194-205
WRT-35	35K	SHORT	700---27.55	204400-227CT	888194-205
WRT-55	55K	LONG	1080---42.52	204400-222CT	888194-205
WRT-55	55K	SHORT	945---37.20	204400-223CT	888194-205
BV-65	65K	LONG	1170---46.06	204400-212CT	888194-205
BV-65	65K	SHORT	707---27.83	204108-120CT	888194-206
HT-65	65K	LONG	1087---42.80	204400-1573CT	888194-205
BV-80	80K	LONG	1369---53.89	204400-190-53	888194-205
BV-80	80K	SHORT	707---27.83	204108-510CT	888194-209

TONG TORQUE SYSTEMS

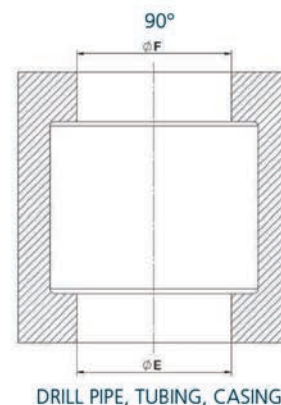
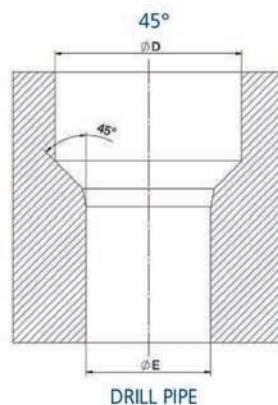
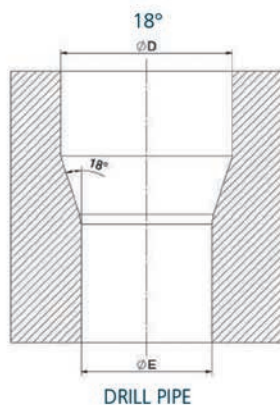
TLP Series

- Indicates make-up or break-out torque (in pounds of line pull) for tool joints, drill collars, and drill string components.
- 6 inch fluid-filled gauge displays line pull.
- Adjustable target pointer can be set to the desired line pull value so the driller can work to a clear mark.
- Models and capacities available to work with all manual tongs.
- A wide range of capacities – from 10,000 pounds to 30,000 pounds of line pull, with metric equivalents available.
- Models available for permanent installation, or for temporary mounting directly on the tong handle.
- Combination dials available.

JT Series

- Indicates torque (in foot/pounds) applied to each joint when using power tongs to run pipe or casings.
- Models available for specific makes and models of power tong.
- Load Cells available in both tension and compression models, for use with any type of tong.
- Capacities up to 120,000 foot-pounds, with metric equivalents available.
- Dual-scale models available.

ELEVATOR BORE CODES



BORE CODES FOR 18° DRILLPIPE ELEVATOR

Size	BVT Bore Code column 1	AOT Bore Code column 2
2.3/8" EU	101	116
2.7/8" IU	102	117
2.7/8" EU	103	118
3.1/2" IU	104	119
3.1/2" EU	105	120
4" IU	106	121
4" EU		
4.1/2" IU+IEU	107	122 / 5877
4.1/2" EU		
5" IEU	109	123 / 5876
5.1/2" IEU	111	124
6.906"	112	740
6.5/8" IEU		
8.1/4" TJ	113	740
6.5/8" IEU		
8.1/2" TJ	114	740
5.7/8"	115	5875
6.5/8" IEU		
max. 9.1/4"	116	
OD Tool Joint		
5.68" HWDP	117	

BORE CODES FOR 45° DRILLPIPE ELEVATOR

Size	BVT Bore Code column 1
6.906"	712
6.906"	713
6.5/8"	714
6.5/8" IEU	
max. 9.1/4"	715
OD Tool Joint	

BORE CODES FOR 90° TUBING ELEVATOR

Size	BVT Bore Code column 1	AOT Bore Code column 2
1,050" P	121	150
1,050" U	122	151
1,315" P	123	152
1,315" U	124	153
1,660" P	125	154
1,660" U	126	155
1,900" P	127	156
1,900" U	128	157
2.3/8" P	129	158
2.3/8" U	130	159
2.7/8" P	131	160
2.7/8" U	132	161
3.1/2" P	133	162
3.1/2" U	134	163
4" P	135	164
4" U	136	165
4.1/2" P	137	129
4.1/2" U	138	167
5" P	139	
5" U	140	
5.1/2" P	141	
3" U	142	

ELEVATOR BORE CODES

BORE CODES FOR 90° DRILLPIPE ELEVATOR		
Size	BVT	AOT
	Bore Code column 1	Bore Code column 2
2.3/8" IU	151	109
2.3/8" EU	152	110
2.7/8" IU	153	108
2.7/8" EU	154	101
3.1/2" IU	155	102
3.1/2" EU	156	103
4" IU	157	104
4" EU		105
4.1/2" IU+IEU	158	
4.1/2" EU		106
5" IEU	159	
5.1/2" IEU	160	107
6.5/8" IEU	161	

BORE CODES FOR 90° CASING ELEVATOR		
Size	BVT	AOT
	Bore Code column 1	Bore Code column 2
5.1/2"	224	132
6.5/8"	228	135
7.5/8"	231	137
7.3/4"	269	138
7"	229	136
8.3/4"	263	
9.5/8"	236	141
9.7/8"	265	3009
10.3/4"	238	142
11.3/4"	239	143
11.7/8"	262	3011
12.3/4"	241	3012
13.3/8"	243	144
13.1/2"	270	3015
13.5/8"	259	596
14"	255	690
14"	424	690
16"	245	145
16.3/4"	246	3014
18"	247	723
18.5/8"	248	146
20"	249	147
22"	261	688
24"	254	630
24.1/2"	251	149
26"	252	650
28"	256	693
30"	253	644
32"	258	3020
36"	257	3021
42"	408	

BORE CODES FOR 90° DRILL COLLAR WITH ZIP GROOVE		
Size	BVT	AOT
	Bore Code column 1	Bore Code column 2
3.1/8"	206	
4.1/8"	181	177
4.3/4"	182	435
5.3/4"	185	181
6"	186	362
6.1/4"	187	337
6.1/2"	188	373
6.3/4"	189	387
7"	190	361
7.1/4"	191	357
7.1/2"	192	188
7.3/4"	193	339
8"	194	336
8.1/2"	196	426
9"	198	427
9.1/2"	199	370
9.3/4"	203	367
10"	202	195

BORE CODES FOR 90° DRILL COLLAR WITHOUT ZIP GROOVE		
Size	BVT	AOT
	Bore Code column 1	Bore Code column 2
3.1/8"	308	206
3.1/2"	272	209
4.1/8"	274	519
4.1/2"	275	215
4.3/4"	276	354
5"	277	552
5.1/4"	279	219
5.1/2"	280	411
5.3/4"	281	222
6"	282	349
6.1/4"	284	348
6.1/2"	286	1350
6.3/4"	287	338
7"	288	372
7.1/4"	289	335
7.1/2"	291	1370
7.3/4"	292	
8"	293	334
8.1/4"	295	347
8.1/2"	296	580
8.3/4"	310	226
9"	297	356
9.1/2"	298	346
9.3/4"	300	
10"	301	228
11"	304	230
11.1/4"	305	
12"	307	

ELEVATOR BORE CODES

ZIP GROOVE BORE	
Bore Code Book	Size
ZIP BORE 179	5.1/4
ZIP BORE 180	5.1/2
ZIP BORE 188	7.1/2
ZIP BORE 196	11.1/4
ZIP BORE 419	11
ZIP BORE 422	8.1/4
ZIP BORE 527	10.3/4
ZIP BORE 528	3.1/2
FORMERLY: DRILL COLLARS WITH ZIP	

LIFT PLUG BORE	
Bore Code Book	Size
LIFT PLUG BORE 1350	6.1/2"
LIFT PLUG BORE 201	2.1/2"
LIFT PLUG BORE 203	2.3/4"
LIFT PLUG BORE 205	3"
LIFT PLUG BORE 207	3.1/4"
LIFT PLUG BORE 211	3.3/4"
LIFT PLUG BORE 213	4"
LIFT PLUG BORE 227	9.1/4"
LIFT PLUG BORE 229	10.1/2"
LIFT PLUG BORE 331	6.3/8"
LIFT PLUG BORE 548	4.1/4"
LIFT PLUG BORE 550	7"
FORMERLY: DRILL COLLARS WITH LIFT PLUG	

CASING BORE (POST 10/2012)	
Bore Code Book	CASING SIZE
CASING BORE 129	4.500
CASING BORE 130	4.750
CASING BORE 131	5.000
CASING BORE 133	5.750
CASING BORE 134	6.000
CASING BORE 7850	7.799
CASING BORE 3019	8.313
CASING BORE 139	8.625
CASING BORE 140	9.000
CASING BORE 3022	9.375
CASING BORE 831	10.000
CASING BORE 3025	10.125
CASING BORE 3016	10.250
CASING BORE 3010	10.625
CASING BORE 3018	11.000
CASING BORE 3013	12.875
CASING BORE 3017	15.000
CASING BORE 3024	16.250
CASING BORE 148	21.500
CASING BORE 3023	23.313

SERVICE AND TECHNICAL ASSISTANCE AT FORUM

We at FORUM Energy Technologies treat customer service as one of our core values and understand the needs of our clients and the importance of Repair- and maintenance Services. Forum Energy Technologies considers Customer Service a core value. We understand the needs of our clients and the importance of repair and maintenance services. We provide a highly efficient global Repair and maintenance Service Centers combined with a worldwide network of authorized service facilities and on-site service.

FORUM After Sales Service offerings

- Customer-oriented service with highest quality standards
- Maintenance in accordance with to API inspection categories III and IV
- Overhaul, repair and rebuild of equipment by using FORUM parts only
- Recertification of FORUM Handling Tools including performance load test, 100% NDT and documentation, according to API 7K and API 8C
- Equipment upgrades to comply with API 7K 6th Edition requirements
- Product upgrades per latest FORUM standards
- On-site and in-house Equipment Training
- Installation and Commissioning Service
- Troubleshooting



DRILLING SALES HEADQUARTERS

10344 Sam Houston Park Drive, Suite 300
Houston, TX 77064
USA

+1 713 351 7900



Regional Offices

United Kingdom

Blackhill Industrial Estate Findon
Aberdeen, Aberdeenshire, SCTLND AB124RL
UK

+44 (0) 1224 782 232

Dubai

Oilfields Supply Center
Building B-45
Jebel Ali Free Zone
Dubai
UAE

+44 971 4 883 5266

Canada

9503 -12th Avenue SW.
Edmonton, AB T6X-0C3
Canada

+1 780 980 0345

Germany

Hermann-Blohm-Str. 2
20457 Hamburg
Germany

+49 40 37022 6855

OUR CORE VALUES

No One Gets Hurt

The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

Integrity

In everything we do, in every interaction, both internally and externally, we strive to operate with the utmost integrity and mutual respect.

Customer Focused

Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

Good Place To Work

We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.

Forum Energy Technologies



10344 Sam Houston Park Drive, Suite 300
Houston, TX 77064

US: +1 337-373-1880



EU: +49 40 37022 6855

UAE: +971 4 883 5266



f-e-t.com/drilling



US: handling.tools@f-e-t.com

EU: oiltools@f-e-t.com