

Casing and Tubing Handling Tools



Our handling tools are manufactured according to API standard 7K ,API-8A and API-8C

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BETTER OIL TOOLS Product and Services

Today Better Oil tools operate on a global basis focusing on the provision of specialist services and manufacture of proprietary products for oil and gas producers and drilling contractors.

Better Oil Tools are specialist to the oil and gas industry which we provided a best quality spares parts and equipment to ensure complete client satisfaction.

Better Oil Tools Ltd, is a distributor for Oilfield equipment and parts a specially in China rig equipments, we have a sourcing team in place which handles the orders from the beginning of manufacturing to the inland freight and international freight.

Our success will always be based on continuous improvement of services, products and people in a healthy, safe and environmentally sound manner.

Our aim will always be to distinguish ourselves through quality and strive to be the first choice of our customers. With this in mind all our Handling tools are manufactured in accordance to API specifications 7K, 8A and 8C. As an example of our dedication to Quality within China we have English speaking engineers who work closely with our key sub vendors / factories. Additionally our QA/QC engineers check all quality requirements prior to any shipment.

At present Better Oil tools Products and Services group are responsible but are not limited to the supply of the following:

- Rig Parts & Accessories
- Mud Pumps
- Fluid End Pump Parts
- Fishing Tools
- Flow Control Equipment
- Handling Tools
- BOP & Accessories
- Solid Control Equipment
- Drilling Tubular
- DNV 2.7 Shipping Tanks/Container/Baskets

Should you need more details on above items, please contact your nearest Better Oil Tools office. Contacts are mentioned on the last page in this catalogue.

Rotary Slips



Rotary slips can accommodate drill pipe from 2-3/8 to 7 inch O.D. They are classified as type Short (SDS), Medium (SDML) and Extra Longs (SDXL) according to gripping length. SDML slips are the perfect choice for all medium drilling depth. SDXL slips are designed for deep drilling.

Type		Pipe OD		Inserts		Weight (kg)	
		in	mm	Part NO.	Qty		
SDS-S	3.1/2	2.3/8	60.3	2160	18	38	
		2.7/8	73	2161	18	36	
		3.1/2	88.9	2162	18	34	
SDS	3.1/2	2.3/8	60.3	2160	24	71	
		2.7/8	73	2161	24	68	
		3.1/2	88.9	2162	24	66	
	4.1/2	3.1/2	88.9	2163	36	83	
		4	101.6	2164	36	80	
		4.1/2	114.3	2165	36	76	
	5	4	101.6	2168	36	82	
		4.1/2	114.3	2166	36	79	
		5	127	2167	36	75	
SDML	3.1/2	2.3/8	60.3	2160	30	98	
		2.7/8	73	2161	30	95	
		3.1/2	88.9	2162	30	92	
	4.1/2	3.1/2	88.9	2163	45	105	
		4	101.6	2164	45	101	
		4.1/2	114.3	2165	45	96	
	5	4	101.6	2168	45	103.5	
		4.1/2	114.3	2166	45	100	
		5	127	2167	45	95	
	5.1/2	4.1/2	114.3	2168	45	101	
		5	127	2169	45	97	
		5.1/2	139.7	2170	45	92	
	SDXL	4.1/2	3.1/2	88.9	2163	54	118
			4	101.6	2164	54	114
			4.1/2	114.3	2165	54	108
5		4	101.6	2168	54	116	
		4.1/2	114.3	2166	54	112	
		5	127	2167	54	106	
5.1/2		4.1/2	114.3	2168	54	116	
		5	127	2169	54	111	
		5.1/2	139.7	2170	54	105	
5.7/8		5.3/4	146.05	5.3/4	54	99	
		5.7/8	149.225	5.7/8	54	97	
		6.5/8	168.275	2172	72	102	
7		7	177.8	2173	72	96	

Type Flake Rotary Slips



Two types of rotary slips: 3-1/2" to 5" and 5" to 7", they can handle various O.D. drill pipes, drill collars or casing by changing insert gripping dies.

Model	W3-1/2 - 5 /100						
Tubulars size (in)	2-7/8	3-1/2	4	4-1/8	4-1/2	4-3/4	5
Max. load (kN)	1000						

Model	W5 - 7 /100								
Tubulars size (in)	5	5-1/2	5-9/16	5-3/4	6-1/8	6-1/4	6-1/2	6-5/8	7
Max. load (kN)	1000								

Drill Collar Slips



Three models of DCS Drill Collar Slips: S. R. and L. They can accommodate drill collar from 3 inch (76.2mm) to 14 inch (355.6mm) O.D.

Slip Type	DCS-S		DCS-R		DCS-L					
	3 - 4	4 - 4-7/8	4-1/2 - 6	5-1/2 - 7	6-3/4 - 8-1/4	8 - 9-1/2	8-1/2 - 10	9-1/4 - 11-1/4	11 - 12-3/4	12-14
P/N slip c/w Circular Buttons	B-2572	B-2573	B-2552	B-2550	B-2503	B-2507	B-2530	B-2508	B-2534	B-2536
Weight, complete set, lb (kg)	112 (51)	103 (47)	120 (54)	112 (51)	154 (70)	173 (78)	185 (84)	198 (90)	213 (96)	207 (94)
Total number of segments	7	7	9	9	10	12	13	14	17	17
Total number of intermediate segments	5	5	7	7	9	10	11	12	15	15
Total number of hinge pins	6	6	8	8	10	11	12	13	16	16
Use in insert Bowl Number	API or No.3				No.3		No.2		No.1	

Type WT Drill Collar Slips



Type WT Drill Collar Slips are the necessary tools to holding drill pipes.

Slip Type		WT	WT	WT	WT
Drill Collar OD (inch)		4 ¼ - 5¼ 4½ - 5¾	5½ - 7 5½ - 7	6¾ - 8¼ 6¾ - 8¼	8 - 9½ 8 - 9½
Weight	Kg	49	46	42	39
	lb	108	101	92	86
P/N		B-709-420-0100	B-709-540-0100	B-709-660-0100	B-709-800-0100
Insert Bowl No.		No.3			
Max. Load		40 tons			

Casing Slips



CMS-XL TYPE Casing Slips can accommodate casing from 6 5/8 to 30 inch O.D.

Casing Slips CMSXL														
Casing Size (inch)	6-5/8	7	7-5/8	8-5/8	9-5/8	10-3/4	11-3/4	13-3/8	16	18-5/8	20	24	26	30
Slip	B-5315	B-5301	B-5303	B-5305	B-5307	B-5309	B-5311	B-5313	B-5325	B-5333	B-5329	B-5331	B-5346	B-5342
Circular Buttons	B-2628	B-2619	B-2630	B-2630	B-2630	B-2630	B-2627	B-2630	B-2631	B-2626	B-2631	B-2631	B-2631	B-2631
Qty. Per Slip	144	144	144	156	168	180	204	216	252	300	312	360	396	444
Right End Segment	B-5320													
Left end Segment	B-5321													
Intermediate Segment	B-5322													
Hinge Pin w/ Cotter Pin	B-2525													
Handle Pin c/w Washer & Cotter Pin	B-3769													
Right & Left Handle	B-3765													
Center Handle	B-3766													
Right & Left Handle (Flex)	B-3765F													
Center Handle (Flex)	B-3766F													

Pneumatic Slips



PS 175



PS 275



PS 375



PS 16



PS Portable



PS 560

PS Series Pneumatic Slips are Pneumatic tools which are suitable for all kinds of rotary tables for hoisting drill pipes and handling casings. They are mechanized operating with strong hoisting force and large working range. They are easy to operate and dependable enough. Besides, they can not only reduce the workload but also improve the work efficiency. They are designed and manufactured according to API Spec 7K Specification for drilling and well servicing.

Main Technical Parameters

Model	Rotary Table Size (in)	Applicable Diameter of Tubular	Rated Capacity (short tons)	Work Pressure (MPa)	Max Pressure (MPa)
PS175	17 ½	2 ¾ – 5 ¾	150	0.6-0.8	1
PS275	27 ½	2 ¾ – 9 ¾	350	0.6-0.8	1
PS375	37 ½	2 ¾ -14	500	0.6-0.8	1
PS16	27 ½ , 37 ½, 49 ½	3 ½ - 7 ¾	500	0.6-0.8	1
PS Portable	23, 27 ½, 37 ½, 49 ½ Pin Drive	2 ¾ - 5 ½	250 350	0.6-0.8	1
PS560	560mm Through Hole	1.9-7	350	0.6-0.8	1

FMS Flush Mounted Spider

WGY375 hydraulic slip developed and produced as a hydraulic operation tool for clamping casing during the drilling operation of petroleum and natural gas. Apply to the use of the 375 rotary table, this hydraulic slip structure is compact, safe and reliable, which solves the back sprains and fatigue that many be occurred when workers use the manual slip, reduces labor intensity of workers and improves the work efficiency. If this equipment is installed on a turntable, it should keep horizontal to turntable and is convenient for the works of casing tong. It does not need to build another working platform to achieve a clean and safe working environment. The slip can clamp the casing tightly so as not to re-use manual slip and back-up tong.



Main Technical Parameters

Weight	2,446 kg (less slips & inserts) 163~272 kg (Slips & inserts)
Dimension	Ø 1,120 mm X 1,165 mm
Pipe range	4-1/2" ~ 14"
Rating	Max. 500 TON
Rotary size	37.5"
Max. Inlet pressure	2,500 psi
Ambient temperature range	-20°C ~ 40°C
Working oil temp.	40°C ~ 50°C (Recommended) 60°C (Max.)
Max. backup torque (at 2,500 psi)	40,000 ft.lbs (@ 14" pipe size)

Safety Clamp

Safety clamps are tools for handling flush joint pipe and drill collar. There are two models, WA-C model can accommodate pipe from 3 ½ to 15 ⅝ inch O.D. WA-T model can accommodate pipe from 1 ⅛ to 4 ½ inch O.D.



Model	Handling Pipe Size		Weight	
	in	P/N	kg	Lb
WA-C	3½-4⅝	B-7624-5007	20.9	46
	4½-5⅝	B-7624-5008	25.0	55
	5½-6⅝	B-7624-5009	27.7	61
	6½-7⅝	B-7624-5010	29.1	64
	7½-8⅝	B-7624-5011	31.3	69
	8½-9⅝	B-7624-5012	32.7	72
	9½-10⅝	B-7624-5013	40.0	88
	10½-11⅝	B-7624-5014	41.8	92
	11½-12⅝	B-7624-5015	44.0	97
	12½-13⅝	B-7624-5016	46.3	102
	13½-14⅝	B-7624-5017	48.6	107
14½-15⅝	B-7624-5018	50.9	112	
WA-T	1⅛	B-7624-5044	16.3	36
	2⅝-3¼	B-7624-5045	18.2	40
	3½-4½	B-7624-5046	20.0	44
MP-R	4½ - 5⅝	B-33011	54.4	120
	5 ½ - 7	B-33012	59.0	130
	6 ¾ - 8 ¼	B-33013	62.6	138
	8 - 9 ¼	B-33014	66.7	147
	9 ¼ - 10 ½	B-33015	70.1	155
MP-M	10½ - 11 ½	B-33016	73.9	163
	11½ - 12 ½	B-33017	77.5	171
	12½ - 13⅝	B-33018	81.2	179
	13⅝ - 14¾	B-33019	84.8	187
	14¾ - 15⅝	B-33020	88.4	195
MP-L	15⅝ - 17	B-33021	97.5	215
	17 - 18½	B-33022	101.1	223
	18⅝ - 19⅝	B-33023	104.7	231

Hydraulic Safety Clamp

The safety clamps are mainly applicable for coupling and uncoupling in oil natural gas drilling operation. It is a safety clamping tool preventing the pipe column which does not have a step or coupling from falling into the well.

The pneumatic hydraulic safety clamp has advantages of simple operation, fast and easy mounting, cycled pressure fastening and no necessity of hammer or other forces. It is also provided with an embedded hydraulic system.



Type	Pipe O.D	No. of Chain Links
MP-S	2 ⁷ / ₈ – 4 ¹ / ₈	7
	4 – 5	8
MP-R	4 ¹ / ₂ – 5 ⁵ / ₈	7
	5 ¹ / ₂ – 7	8
	6 ³ / ₄ – 8 ¹ / ₄	9
	8 – 9 ¹ / ₄	10
	9 ¹ / ₄ – 10 ¹ / ₂	11
MP-M	10 ¹ / ₂ – 11 ¹ / ₂	12
	11 ¹ / ₂ – 12 ¹ / ₂	13
	12 ¹ / ₂ – 13 ⁵ / ₈	14
	13 ⁵ / ₈ – 14 ³ / ₄	15
	14 ³ / ₄ – 15 ⁷ / ₈	16
MP-L	15 ⁷ / ₈ – 17	17
	17 – 18 ¹ / ₂	18
	18 ¹ / ₈ – 19 ³ / ₈	19
MP-XL	19 ³ / ₈ – 20 ³ / ₈	19
	20 ³ / ₈ – 21 ¹ / ₂	20
	21 – 22 ⁵ / ₈	21
	22 ⁵ / ₈ – 23 ³ / ₄	22
	23 ³ / ₄ – 24 ⁵ / ₈	23
	24 ⁷ / ₈ – 26	24
	26 – 27 ¹ / ₈	25
	29 ³ / ₈ – 30 ¹ / ₂	28

Input Air Pressure (MPa)		Hydraulic System Pressure (MPa)	
Working pressure	Max. working pressure	Working pressure	Max. working pressure
0.6 ~ 0.8	1.0	7.0 ~ 8.0	10



Kelly Drive Bushing

The Square and Pin Drive Bushings are designed for shallow, medium depth and deep well drilling. The bushing will accommodate 3" – 6" hex and square kellys. Standard fiber sleeve bearings are offered with optional roller bearings upon request.

Kelly Bushing				
Kelly Size/Type	KRVS	KRBM	27 HDP	27 HDS
3" Hex	B-1402-30	B-5208-30	B-3650-30	B-3635-30
3-1/2" Hex	B-1402-35	B-5208-35	B-3650-35	B-3635-35
4-1/4" Hex	B-1402-42	B-5208-42	B-3650-42	B-3635-42
5-1/4" Hex			B-3650-52	B-3635-52
6" Hex			B-3650-60	B-3635-60
2-1/2" Sq	B-1401-25	B-5209-25		
3" Sq	B-1401-30	B-5209-30	B-3651-30	B-3636-30
3-1/2" Sq	B-1401-35	B-5209-35	B-3651-35	B-3636-35
4-1/4" Sq	B-1401-42	B-5209-42	B-3651-42	B-3636-42
5-1/4" Sq	B-1401-52		B-3651-52	B-3636-52
6" Sq			B-3651-60	B-3636-60

Roller Assemblies			
Size	KRVS	KRBM	HDP/HDS
3" Hex	B-1450	B-5210	B-3667
3-1/2" Hex	B-1451	B-5211	B-3668
4-1/4" Hex	B-1452	B-2948	B-3669
5-1/4" Hex			B-3672
6" Hex			B-3673
2-1/2" Sq	B-1445	B-2949	
3" Sq	B-1446	B-2943	B-3660
3-1/2" Sq	B-1447	B-2944	B-3661
4-1/4" Sq	B-1448	B-2945	B-3662
5-1/4" Sq			B-3665
6" Sq			B-3666

Master Bushing Insert Bowl & Accessories

The Style Insert Bowls are designed to work with the MPCH and Solid master bushings to accommodate sizes up to 13-3/8". We also provide 2 and 4 legs lifting slings and bit breaker adapter plate.

Master Bushing Insert Bowls & Accessories	
Part number	Description
B-1810	API # 3 Insert Bowl 8-5/8" and smaller
B-1904	API # 2 Insert Bowl 9-5/8" - 10-3/4"
B-1903	API #1 Insert Bowl 11-3/4" - 13-3/8"
B-6608	API # 3 Insert Bowl w/ Ears 8-5/8" and smaller
B-6609	API # 2 Insert Bowl w/ Ears 9-5/8" - 10-3/4"
B-6610	API #1 Insert Bowl w/ Ears 11-3/4" - 13-3/8"
B-1021	Lifting Sling (2 legs)
B-6699	Lifting Sling (4 legs)
B-1816	Bit Breaker Adapter Plate





Master Bushing and Insert Bowl

Master Bushing are designed for SQ and Pin Drive Kelly bushings from sizes 17-1/2" to 49-1/2" rotary tables. The pin drive allows the use of extended insert bowls to meet flush with the top of table which means better slip support and preventing damage to drill pipe. The SQ drive bushing has a 4" deep recess to be used with the SQ drive Kelly bushings. Short and medium style slips are used in the SQ drive for shallower depth and drilling.

Model	Rotary table size	Insert bowl	Tubular OD
MSS (Solid style)	17-1/2" - 23"	Insert bowl 1011	2-3/8" - 7-5/8"
		Extended insert bowl 1024	2-3/8" - 8-5/8"
	27-1/2"	Insert bowl 1022	2-3/8" - 7-5/8"
		Extended insert bowl 1025	2-3/8" - 8-5/8"
		Insert bowl 1026	9-5/8" - 10-3/4"
		Insert bowl 2002	11-3/4" -13-3/8"
MSS (Split style)	17-1/2" - 27-1/2"	-	2-3/8" - 7-5/8"
MSPC (Solid style)	20-1/2" - 22-1/2"	Insert bowl 1809	2-3/8" - 8-5/8"
		Insert bowl 1902	9-5/8" - 10-3/4"
		Master bushing 1805-1	11-3/4" -13-3/8"
		Master bushing 19333	11-3/4" -13-3/8"
	23" - 27-1/2"	No.3 Insert bowl 1810	2-3/8" - 8-5/8"
		No.2 Insert bowl 1904	9-5/8" - 10-3/4"
		No.1 Insert bowl 1903	11-3/4" -13-3/8"
MDSP (Split style)	17-1/2" - 20-1/2"	-	2-3/8" - 8-5/8"
MSP (Split style)	27-1/2"	-	2-3/8" - 8-5/8"
MPCH	37-1/2"	No.3 Insert bowl 6608	2-3/8" - 8-5/8"
		No.2 Insert bowl 6609	9-5/8" - 10-3/4"
		No.1 Insert bowl 6610	11-3/4" -13-3/8"
	49-1/2"	MPCH 37-1/2	2-3/8" - 13-3/8"



Casing Busing

Casing bushings are designed to fit into the rotary table for perfect alignment with the well bore. All bushings are designed to be fitted with insert bowls to accommodate all pipe and casing sizes. The bushings and bowls are designed to be used with the CMSXL slips and all API 4 tapped slips.

Manufacturer	Rotary Table Size	Casing Size	Casing Busing/Insert Bowl
ALL	17-1/2" - 20-1/2"	11-3/4" - 13-3/8"	B-3102
		9-5/8" & 10-3/4"	B-1902
ALL	26" & 27-1/2"	18-5/8" & 20"	B-3103
		2-3/8" - 8-5/8"	B-1809
		11-3/4" & 13-3/8"	B-3105
		16"	B-3104
ALL (27-1/2" API)	27-1/2"	20"	B-6695
		9-5/8" & 10-3/4"	B-6114
		11-3/4" & 13-3/8"	B-6126
		16"	B-6127
NATIONAL	37-1/2" - 49-1/2"	20"	B-10187
		9-5/8" & 10-3/4"	B-6114
		11-3/4" & 13-3/8"	B-6126
		16"	B-6127
		24"	B-11253
		16"	B-11486
		18-5/8" & 20"	B-16964
		26"	B-16454
		30"	B-11763
OILWELL/WIRTH	37-1/2" - 49-1/2"	20"	B-10188
		9-5/8" & 10-3/4"	B-6114
		11-3/4" & 13-3/8"	B-6126
		16"	B-6127
		24"	B-6170
		16"	B-11486
		18-5/8" & 20"	B-16964
EMSCO	37-1/2" - 49-1/2"	30"	B-12093
		20"	B-11553
		9-5/8" & 10-3/4"	B-6114
		11-3/4" & 13-3/8"	B-6126
		16"	B-6127
		24"	B-16542
		16"	B-11486
IDECO	37-1/2"	18-5/8" & 20"	B-16964
		30"	B-11633
		20"	B-10189
		9-5/8" & 10-3/4"	B-6114
		11-3/4" & 13-3/8"	B-6126
		16"	B-6127

Hinged Casing Spider



The Hinged Casing Spider has a capacity of 200 or 500 Ton, put above the rotary table and suitable for most casings of different sizes. It is designed and manufactured according to API Spec 7K Specification for drilling and well servicing equipment.

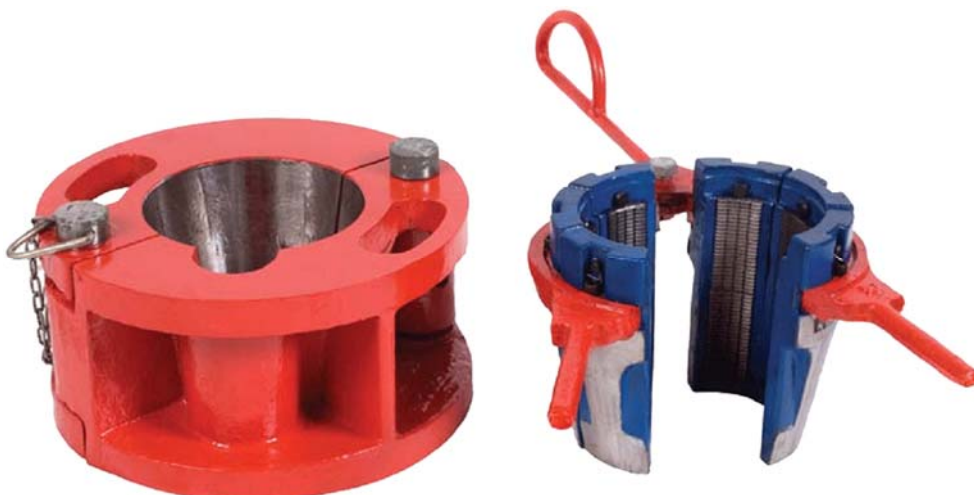
Model	Applicable Diameter of Tubulars	Taper	Rated Capacity (short tons)
JOY 13-3/8-200	7" - 8-5/8"	1 : 3	200
	9" - 13-5/8"	1 : 4	
JOY 20-200	7" - 8-5/8"	1 : 3	
	9" - 20"	1 : 4	
JOY 30-200	16" - 30"	1 : 4	
JOY 36-200	18-5/8" - 36"	1 : 4	
JOY 30-500	16" - 30"	1 : 3	500
JOY 36-500	18-5/8" - 36"	1 : 3	
HCS 20-500	2-3/8" - 20"	1 : 3	

Manual Spider

The TS 100 Style Manual Spider comes in two ranges: 3-1/2" Bowl and 5-1/2" Bowl. The bowl sits differently in the API SQ Bushing in table or can be bolted to adapter plate.



TS 100 Style Tubing Spider	
Part number	Description
B-7502-100	Manual Tubing Spider 1.66 – 3.5 Size 100 Ton
B-7502-103	Manual Tubing Spider 3.5 – 5.5 Size 100 Ton
B-7502-104	Slip Assy 3-1/2" Less Inserts
B-7502-70	Slip Assy 5-1/2" Less Inserts
B-7502-A-5069	Slip Insert 3-1/2" x 3-1/2"
B-7502-A-5070	Slip Insert 3-1/2" x 2-7/8"
B-7502-A-5071	Slip Insert 3-1/2" x 2-3/8"
B-7502-A-26	Slip Insert 5-1/2" x 5-1/2"
B-7502-D-26	Slip Insert 5-1/2" x 5"
B-7502-C-26	Slip Insert 5-1/2" x 4-1/2"
B-7502-G-26	Slip Insert 5-1/2" x 4"
B-7502-F-26	Slip Insert 5-1/2" x 3-1/2"



Type DDZ Drill Pipe Elevator



Model DDZ Center Latch Elevators are suitable for handling 18° taper shoulder drill pipe.

Elev. Marking	Suitable for tool Joint and Drill Pipe		18° Type Elevator Bores	
	Tool Joint Designation Reference	Drill pipe Size and style (All weights and Grades)	Top Bore	Bottom Bore
			mm	
2 ³ / ₈ EU	NC26 (2 ³ / ₈ IF)	2 ³ / ₈ EU	108	67.47
2 ⁷ / ₈ EU	NC31 (2 ⁷ / ₈ IF)	2 ⁷ / ₈ EU	121	83.34
3 ¹ / ₂ EU	NC38 (3 ¹ / ₂ IF)	3 ¹ / ₂ EU	140	100.81
	NC40 (4 IF)			
4 IU	NC40 (4 FH)	4 IU	165	108.74
4 EU	NC46 (4 IF)	4 EU	171	121.44
4 ¹ / ₂ IU		4 ¹ / ₂ IU		
		4 ¹ / ₂ IU		
4 ¹ / ₂ IEU	4 ¹ / ₂ FH	4 ¹ / ₂ IEU	181	133.35
4 ¹ / ₂ EU	NC50 (4 ¹ / ₂ IF)	4 ¹ / ₂ EU		
5 IEU	5 ¹ / ₂ FH	5 IEU	200	147.64
5 ¹ / ₂ IEU	5 ¹ / ₂ FH	5 ¹ / ₂ IEU	203	159.15
5 ⁷ / ₈ IEU	5 ⁷ / ₈ IF	5 ⁷ / ₈ IEU	225	178.59
6 ⁵ / ₈ IEU	6 ⁵ / ₈ FH	6 ⁵ / ₈ IEU		

Type DD Center Latch Elevator



Model DD for handling 90°shoulder drill pipe, casing, tubing and drill collar.

Pipe		Drill Pipe					Casing		Tubing					
Model		DD 65	DD 100	DD 125	DD 150	DD 250	DD 350	DD 100	DD 150	DD 65	DD 100	DD 125	DD 150	
Pipe O.D. (inch)										1.9				
		2 ³ / ₈	2 ³ / ₈	2 ³ / ₈	2 ³ / ₈					2 ³ / ₈	2 ³ / ₈	2 ³ / ₈	2 ³ / ₈	
		2 ⁷ / ₈	2 ⁷ / ₈	2 ⁷ / ₈	2 ⁷ / ₈					2 ⁷ / ₈	2 ⁷ / ₈	2 ⁷ / ₈	2 ⁷ / ₈	
			3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂					3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂
			4		4	4	4				4		4	4
			4 ¹ / ₂		4 ¹ / ₂	4 ¹ / ₂	4 ¹ / ₂	4 ¹ / ₂	4 ¹ / ₂	4 ¹ / ₂		4 ¹ / ₂		4 ¹ / ₂
			5		5	5	5	5	5			5		5
					5 ¹ / ₂	5 ¹ / ₂	5 ¹ / ₂	5 ¹ / ₂	5 ¹ / ₂	10 ³ / ₄				
Max Load	KN	585	900	1100	1350	2250	3150	900	1350	585	900	1100	1350	
	Ton	65	100	125	150	250	350	100	150	65	100	125	150	

SLX Series Side Door Type Elevator



Model SLX side door elevators are designed for different tubing / casing sizes and load rating from 100-ton to 350-ton.

Model	Size	Rated Capacity (short tons)
SLX-65	3-1/2" - 14-1/4"	65
SLX-100	2-3/8" - 5-3/4"	100
SLX-150	5-1/2" - 13-5/8"	150
SLX-250	5-1/2" - 30"	250
SLX-350	4-1/2" - 14"	350

Type TA Drill Collar Elevator



Model TA center latch elevators are made from alloy steel fully heat-treated and magnetic-particle tested. All elevators are fully API rated and manufactured as per API 8C specifications and monogrammed. Steel specifications are duly certified and designed to handle casings, tubing and drill pipes in API sizes.

Model	Size (in)				Rated Capacity (short tons)
	Drill Collar	Tubing		Casing	
		NU	EU		
TA-35	2-7/8 - 3-1/8	1.05 - 2-7/8	1.05 - 2-7/8	-	35
TA-65	2-7/8 - 3-1/8	1.66 - 2-7/8	1.66 - 2-7/8	-	65
TA-100	3-1/8 - 5-1/4	2-3/8 - 5	2-3/8 - 4-1/2	-	100
TA-125	3-1/8 - 5-1/4	2-3/8 - 5	2-3/8 - 4-1/2	-	125
TA-150	4-1/8 - 11-1/4	-	-	4-1/2 - 10-3/4	150

Single Joint Elevator

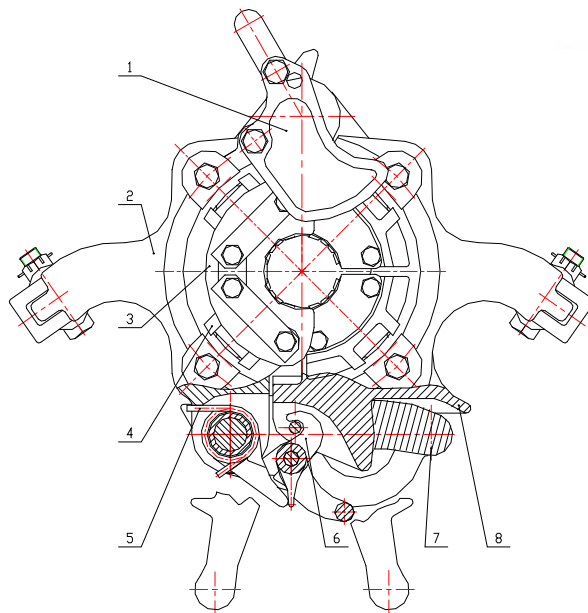
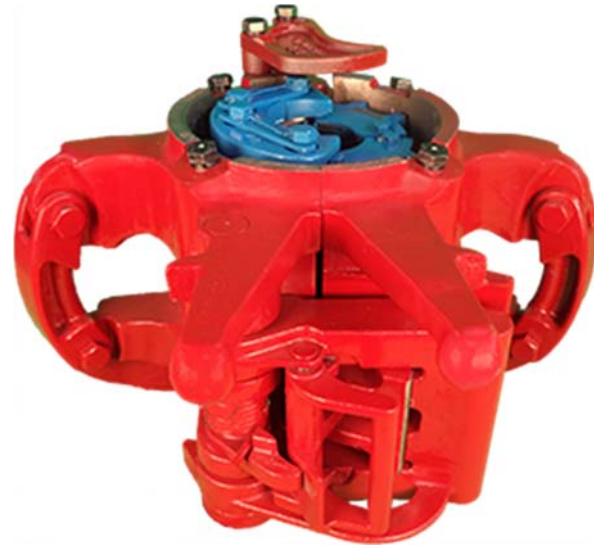
Single joint elevators are designed to cover all API sizes from 2-3/8" to 36" to pick up single joint tubing, casing and drill pipes. They all manufactured according to API 8C specification

SINGLE JOINT ELEVATOR	
Part number	Description
B-SJ0238	Single Joint Elevator 2-3/8"
B-SJ0278	Single Joint Elevator 2-7/8"
B-SJ0350	Single Joint Elevator 3-1/2"
B-SJ0400	Single Joint Elevator 4"
B-SJ0450	Single Joint Elevator 4-1/2"
B-SJ0500	Single Joint Elevator 5"
B-SJ0550	Single Joint Elevator 5-1/2"
B-SJ0700	Single Joint Elevator 7"
B-SJ0758	Single Joint Elevator 7-5/8"
B-SJ0958	Single Joint Elevator 9-5/8"
B-SJ1034	Single Joint Elevator 10-3/4"
B-SJ1134	Single Joint Elevator 11-3/4"
B-SJ1338	Single Joint Elevator 13-3/8"
B-SJ1600	Single Joint Elevator 16"
B-SJ1858	Single Joint Elevator 18-5/8"
B-SJ2000	Single Joint Elevator 20"
B-SJ2400	Single Joint Elevator 24"
B-SJ3000	Single Joint Elevator 30"



Y Series Slip Type Elevator

The Y Series Type Slip Elevators are hoisting tools for handling tubing, drill pipe, casing, electric submersible pump and other tubular goods in oil and gas fields. It is especially fit to integral joint tubing and non-coupled casing. It is constructed in two halves of practically the same weight, four slip bodies and some inserts, providing balance and easier opening and closing. They are designed and manufactured according to API Spec 8A/8C — specification for drilling and production Hoisting Equipment.

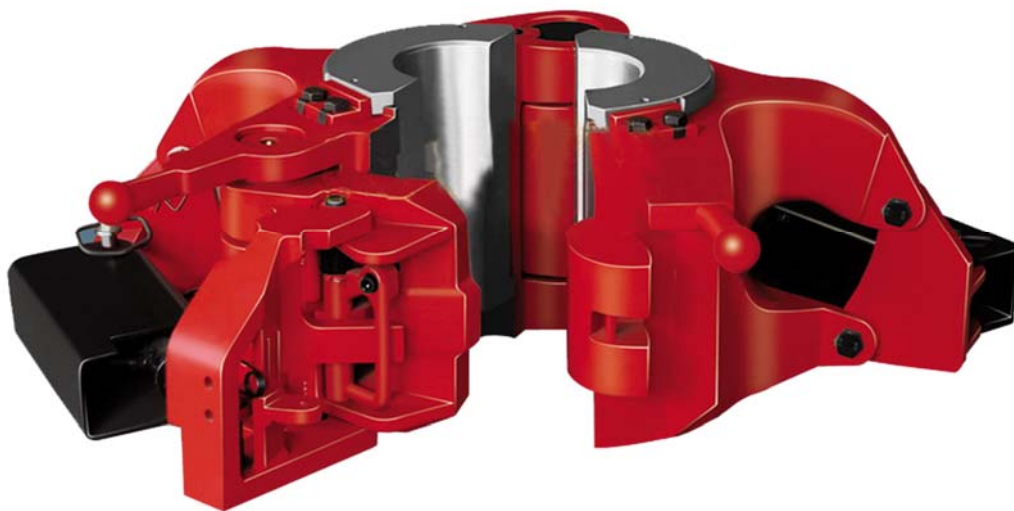


1. Guide Plate
2. Body
3. Setting Ring
4. Slip
5. Latch Spring
6. Latch Lock
7. Latch
8. Body

Model	Pipe Size (inch)	Rated Capacity	
		KN	Tons
HYT	2-3/8" – 3-1/2"	1350	150
YT	1.315" – 3-1/2"	675	75
MYT	1.315" – 2-7/8"	360	40
LYT	1.05 – 1-1/16"	180	20
HYC	3-1/2" – 7-5/8"	1800	200
MYC	3-1/2" – 7"	1125	125
YC	3-1/2" – 7"	675	75

Hydraulic Elevator Type DDZH

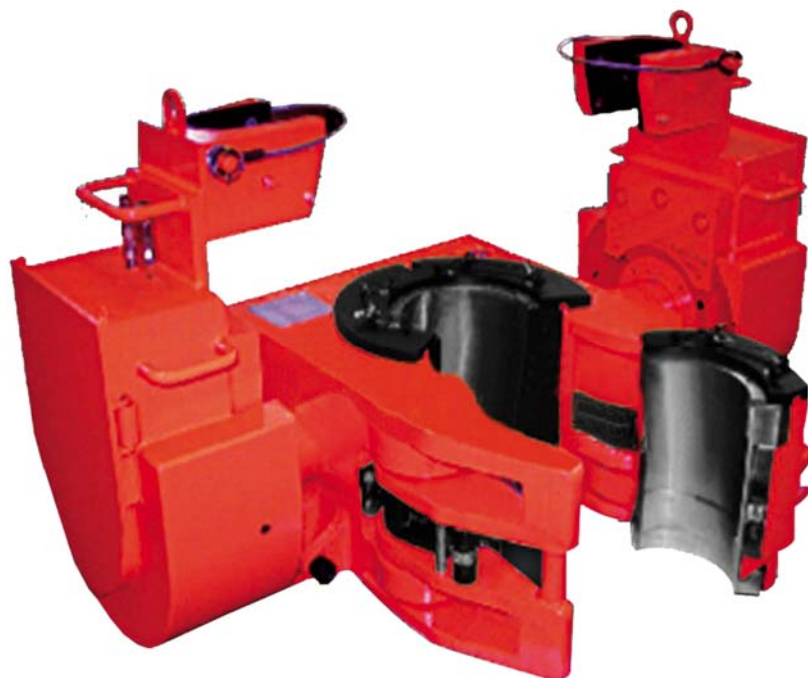
Hydraulic elevator type DDZH is a center latch elevator. Through changing the bushing, it can handle drill pipes, drill collars, casings and tubings. By using the hydraulic-controlled system, it can make the operation more convenient, reduce the worker's labor intensity effectively and improve work efficiency. It can realize remote controlling and make the using safer and more reliable. The products shall be designed and manufactured according to API Spec 8A/8C Specification for drilling and production hoisting equipment.



Model	Tubular & Size (in)				Rated Capacity (short tons)
	With 18° taper	Casing	DC	Tubing	
DDZH-250	2-3/8 ~ 5	4-1/2 ~ 5	3-1/8 ~ 5-1/4	2-3/8 ~ 4-1/2	250
DDZH-350	2-3/8 ~ 6-5/8	4-1/2 ~ 7	3-1/8 ~ 6-3/4	2-3/8 ~ 5-1/2	350
DDZH-500	2-3/8 ~ 6-5/8	4-1/2 ~ 7	3-1/2 ~ 6-3/4		500

Hydraulic Elevator Type CDZH

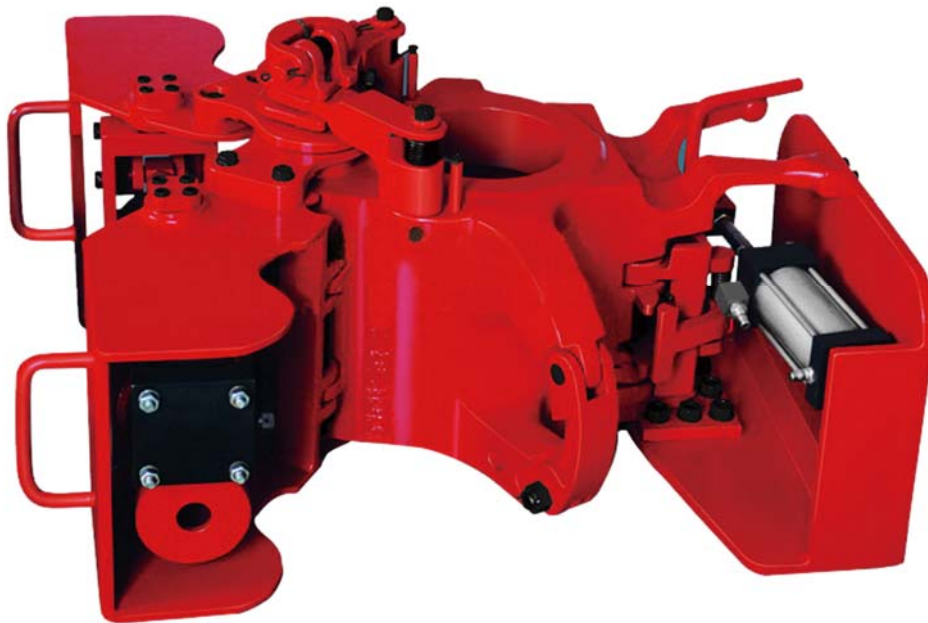
Hydraulic elevator type CDZH is a side door elevator with double-valve structure. Through changing the bushing, it can handle drill pipes, drill collars, casings and tubings. By using the hydraulic-controlled system, it can make the operation more convenient, reduce the worker's labor intensity effectively and improve work efficiency. It can realize remote controlling and make the using safer and more reliable. The products shall be designed and manufactured according to API Spec 8A/8C Specification for drilling and production hoisting equipment.



Model	Tubular & Size (in)				Rated Capacity (short tons)
	With 18° taper	Casing	DC	Tubing	
CDZH-500	3-1/2 ~ 6-5/8	4-1/2 ~ 9-5/8	4-3/4 ~ 9-3/4	2-3/8 ~ 4-1/2	500

Air-operated Elevator

Air operated elevators are conventional elevators to which power actuation has been added. This feature permits remote opening and closing of the elevators. It can meet normal working requirements in oil drilling & workover and also reduce workload. They are designed and manufactured according to requirement in API Spec 8A/8C Specification for drilling and production hoisting equipment.



Model	Applicable diameter of tubulars (in)	Rated Capacity (short ton)
DD-150	4-1/8 ~ 8-5/8	150
DDZ-500	3-1/2 ~ 6-5/8	500

Links

Weldless links are forged with high quality alloy steel. They are designed and manufactured according to API Spec 8A/8C Specification for drilling and production hoisting equipment.



Type	Specification	Rated Capacity (Short tons)	Length (mm)
Weldless Links	DH150	150	1800
	DH250	250	2700
	DH350	350	3300
	DH500	450	3600
Perfection Links	SH75	75	1500
	SH100	100	1500
	SH150	150	1700

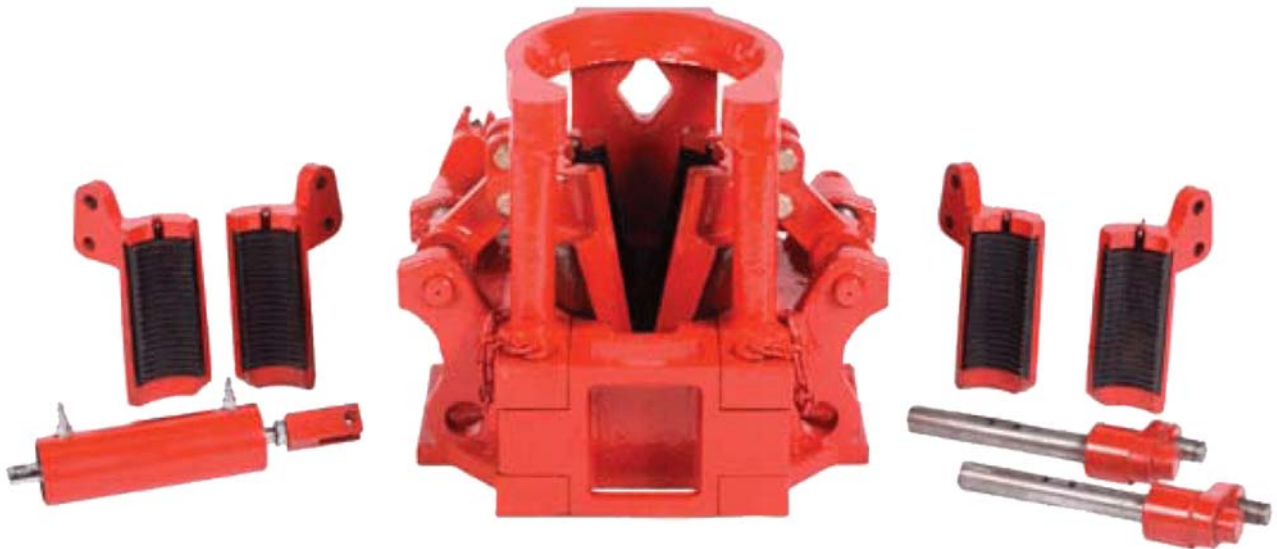
Sucker Rod Elevator



Sucker Rod elevators are suitable for each size sucker rod in well service. The elevators are designed and manufactured according to API Spec 8C specifications.

Model	Applicable Diameter of Tubulars	Rated Capacity (Short tons)
SRE 20	1/2" 5/8" 3/4" 7/8" 1" 1-1/8" 1-1/4" 1-1/2"	20
SRE 25	5/8" 3/4" 7/8" 1"	25

Pneumatic Spider



Pneumatic Spiders are utilized to grip drill pipes, tubings and casings in oil well drilling and repairing. They are designed and manufactured according to API Spec 7K Specification for drilling and well servicing equipment.

Model	OD of Tubulars	Specification of Slip Bodies	Rated Capacity (Short tons)
C	1.315" - 3-1/2"	3-1/2"	80
	3-1/2" - 4-1/4"	4-1/2"	
	4-3/4"	4-3/4" (Integral)	
	5	5" (Integral)	
	5-1/2"	5-1/2" (Integral)	
CHD	1.315" - 3-1/2"	3-1/2"	120
	3-1/2" - 4-1/4"	4-1/2"	
	4-3/4"	4-3/4" (Integral)	
	5	5" (Integral)	
	5-1/2"	5-1/2" (Integral)	
HD	1.315" - 3-1/2"	3-1/2"	125
	3-1/2" - 4-1/4"	4-1/2"	
	4-3/4"	4-3/4" (Integral)	
	5	5" (Integral)	
	5-1/2"	5-1/2" (Integral)	
E	2-3/8" - 3-1/2"	3-1/2"	175
	4" - 5-1/2"	5-1/2"	
	5-1/2" - 7"	7"	
	7-5/8"	7-5/8" (Integral)	

Manual Tongs

Manual Tongs are used to make or break the drill tools and casing joints. The handling size of the tong can be adjusted by changing latch lug jaws. Manual Tongs are constructed from the finest alloy steels, all machined surfaces are held to a close tolerance. All parts are heat treated for maximum strength; a magnetic



particle inspection is performed to detect cracks in the metal. All tongs are tested for performance before shipping. Tong sizes are available to cover drill pipe and casing sizes from 1.900" OD through 30" OD. Torque rating will vary with the size of lug jaw used.

Type B Manual Tongs

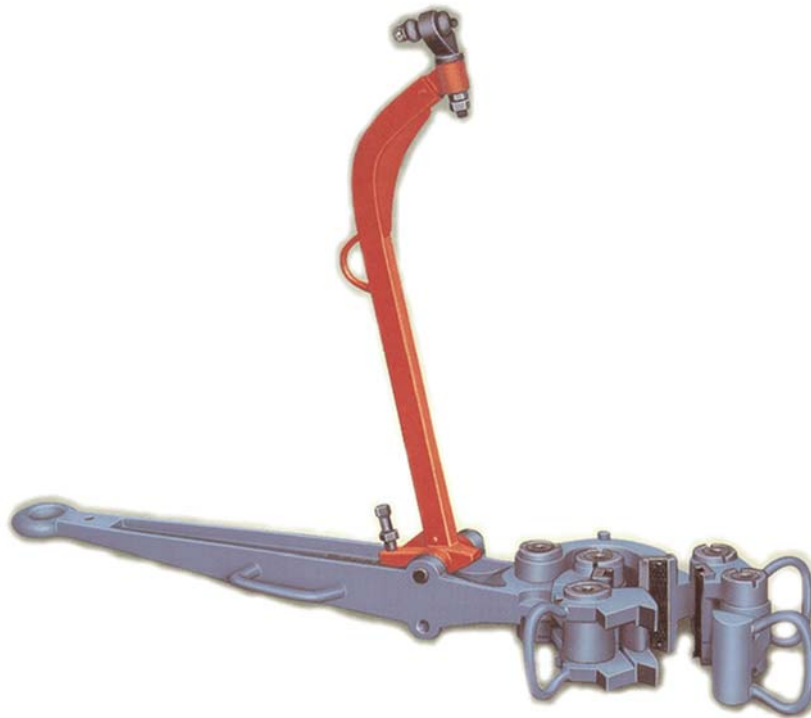
No. of Latch Lug Jaw	Latch Step	Size Range	Rated Torque (lbf.ft)
5a	1	3-3/8" - 4-1/8"	75,000
	2	4-1/8" - 5-1/4"	100,000
5b	1	4-1/4" - 5-1/4"	
	2	5" - 5-3/4"	
	3	6" - 6-3/4"	
5b1	1	5-1/4" - 5-3/4"	75,000
	2	6" - 6-5/8"	
	3	6-3/4" - 8"	100,000
5c	1	6-5/8" - 7-3/8"	75,000
	2	7-3/8" - 8"	
	3	8-1/2" - 8-5/8"	
5d	1	8-1/2" - 9-5/8"	75,000
	2	10-5/8" - 10-3/4"	
5e	1	11-3/4"	
	2	12-3/4"	
5e1	1	10-3/4"	
	2	11-3/4"	
5e3	1	13" - 13-3/8"	

Type SB Manual Tongs



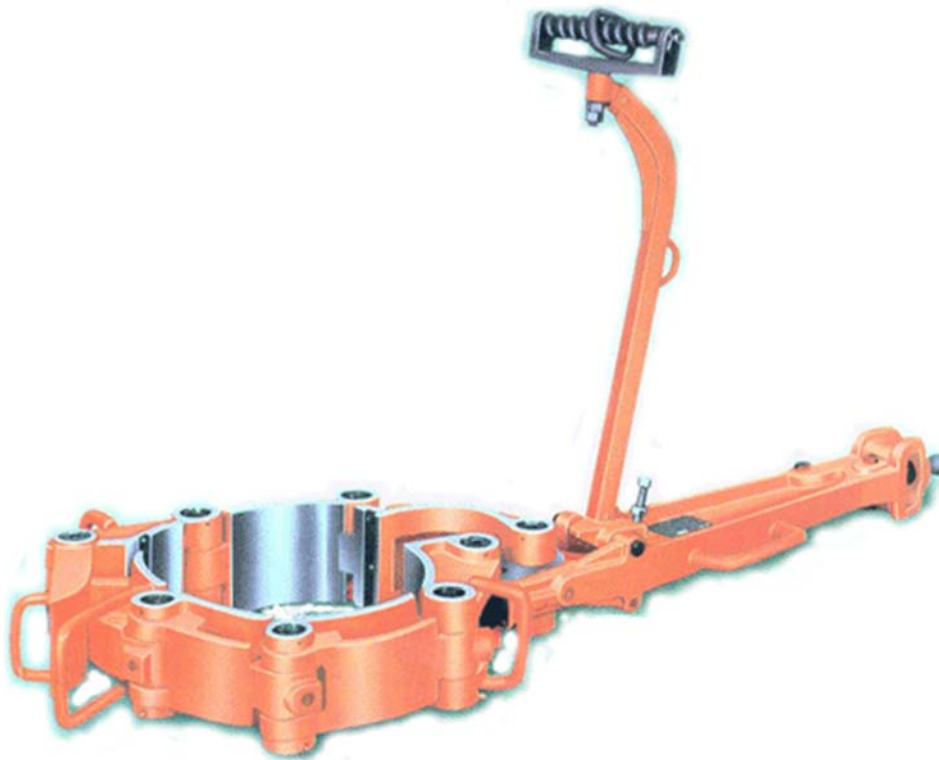
No. of Latch Lug Jaw	Latch Step	Size Range	Rated Torque (kN.m)
1#	1	3-1/2" - 4-1/8"	75
	2	4-1/8" - 5"	
2#	1	4-1/4" - 5-1/4"	
	2	5" - 5-3/4"	
	3	6" - 6-3/4"	
3#	1	6-5/8" - 7-1/4"	
	2	7-3/8" - 8"	
	3	8-1/2" - 9"	
4#	1	9" - 9-5/8"	55
	2	10-5/8" - 10-3/4"	
5#	1	11-3/4"	40
6#	1	12-3/4" - 13"	
7#	1	13-3/8"	

Workover Tongs



No. of Latch Lug Jaws	Handle OD Inch	Torque Max. KN.m	Torque Max. lbf.ft
1#	2 ³ / ₈ - 4 ¹ / ₂	35	50,000
2#	4 ¹ / ₂ - 6 ¹ / ₂		
3#	6 ¹ / ₂ - 8 ⁵ / ₈		
4#	9 ⁵ / ₈ - 10 ³ / ₄		

Casing Tongs



Casing Tongs are used to make or break the casing couplings.

Pipe Size	Torque Max. (Kn.m)	Torque Max (lbf.ft)
Inch		
13 $\frac{3}{8}$ - 14 $\frac{1}{2}$	35	50,000
14 $\frac{1}{2}$ - 16		
16 - 17 $\frac{1}{2}$		
17 $\frac{1}{2}$ - 19		
19 - 20		
20 - 21 $\frac{1}{2}$		
21 $\frac{1}{2}$ - 23		
24 - 25 $\frac{1}{2}$		
25 $\frac{1}{2}$ - 27		
27 - 28 $\frac{1}{2}$		
28 $\frac{1}{2}$ - 30		

HT Series Manual Tong



Type	Range	Torque ft./lbs
HT35	2-3/8" – 10-3/4"	35,000
HT55	3-1/2" – 13-3/8"	55,000
HT65	3-1/2" – 17"	65,000
HT100	4" - 17"	100,000
HT135	7-1/2" – 12"	135,000
HT200	6" – 16"	200,000

QB Portable Tubing Tong



Type QB portable tubing tong is a tool to connect or disconnect tubing, with forged with super steel of main parts.

Tubing Size (inch)	2 ³ / ₈	2 ⁷ / ₈	3 ¹ / ₂	4	4 ¹ / ₂
Max.Torque (k\n.m)	700	1000	1500		
Max.Torque (lbt.ft)	948,509	1,355,014	2,032,520		

Stabbing Guide

The SG Model Stabbing Guide is mainly used for protecting pipe connectors when the male and female connector of tubing and casing are stabbed during oil or natural gas well drilling and well repairing operations. This stabbing guide is simple in structure, safe and reliable, and easy for operation.



Model	Applicable Pipe Diameter	Model	Applicable Pipe Diameter
SG 7D	7" Drill pipe	SG 6C	6" Casing
SG 4-7/8D	4-7/8" Drill pipe	SG 6-5/8C	6-5/8" Casing
SG2-3/8T	2-3/8" Tubing	SG 7C	7" Casing
SG2-7/8T	2-7/8" Tubing	SG 7-5/8C	7-5/8" Casing
SG 3-1/2T	3-1/2" Tubing	SG 8-5/8C	8-5/8" Casing
SG 4T	4" Tubing	SG 9-5/8C	9-5/8" Casing
SG 4-1/2T	4-1/2" Tubing	SG 13-3/8C	13-3/8" Casing
SG 4-1/2C	4-1/2" Casing	SG 16C	16" Casing
SG 5C	5" Casing	SG 18-5/8C	18-5/8" Casing
SG 5-1/2C	5-1/2" Casing	SG 20C	20" Casing

Quick Release Thread Protector

The Quick Release Thread Protector is a manual-operated device for protecting the threads on tubular columns. During storage and transport, it can reliably lock on the thread of tubular columns. Just by pulling the locking handle, the thread protector will be released from tubular columns quickly and easily, without frequent manual spinning and releasing.



Tubular column	Size range*
Tubing	2-7/8" ~ 4-1/2"
Casing	4-1/2" ~ 30"
* Some common size specified in the standards, and meanwhile including some special sizes required by users.	

Fill and Circulate Tools



Fill and Circulate Tool (FAC Tool) is a surface tool used during the casing running operation. The FAC Tool is designed to both fill the casing with drilling fluid while running it in the hole and to enable quick circulation of the casing string at any time without installation of a casing swage. The FAC Tool has features with easy-to-use, safe and reliable, no leakage and so on, which lightens labor intensity of worker greatly and improves operation environment of well.

FAC Tool is available for top drive. Joint is a standard 4-1/2" IF drill pipe connector, but it may adapt top drive connector of other standard through changing joint (special connector shall be illustrated when ordering). The FAC Tool may come in two tool sizes, Large (L-FAC) and Medium (M-FAC) so as to adapt different pipe diameters, and different sizes may adapt pipe diameter at any size though changing seal assembly.

In principle, a kind of sealing element matches with a size weight of casing; however, it may be used each other as long as the difference of inner diameters of casing is not over 5 mm. For example, 9-5/8"-53.5 sealing element in principle is suitable for the 9-5/8" casing of single weight 53.5 (with the inner diameter of 216.79); however, it is also suitable for the 9-5/8" casing of single weight 47 (with the inner diameter of 220.5). We can supply products according to the casing of above sizes and weights unless it has specific requirement.

Model	Casing			Seal Assembly (Mark)		
	Size	Weight	Inner Diameter	Seal Retainer	Sealing Element	Gauge Ring
L-FAC 7 - 20	7"	23	161.70	L- 7	L- 7 -23#	L- 7
	9-5/8"	53.5	216.79	L- 9-5/8	L- 9-5/8 -53.5#	L- 9-5/8
	10-3/8"	55.5	247.90	L- 10-3/8	L- 10-3/8 -55.5#	L- 10-3/8
	13-3/8"	72	313.61	L- 13-3/8	L- 13-3/8 -72#	L- 13-3/8
	20"	106.5	482.60	L- 20	L- 20 -106.5#	L- 20
M-FAC 5-1/2 - 7	5-1/2"	23	118.62	M- 5-1/2	M- 5-1/2 -23#	M- 5-1/2
	6-5/8"	32	144.15	M- 6-5/8	M- 6-5/8 -32#	M- 6-5/8
	7"	26	159.41	M- 7	M- 7 -26#	M- 7

Hydraulic Station



Hydraulic station is back up for two set of oil supply system, electric oil feeding system, heating and air-cooling device are equipped for the station. Additionally, this station can be acted as hydraulic power source for other petroleum drilling rig.

Oil supply system (Pump #1)

Max. flow of oil pump	227 L/min (60 GPM)
Rated pressure of system	21 MPa (3,000 psi)
System motor	75 kW (100 HP) / 460V / 60 Hz

Oil supply system (Pump #2)

Max. flow of oil pump	113.5 L/min (30 GPM)
Rated pressure of system	21 MPa (3,000 psi)
System motor	45 kW (60 HP) / 460V / 60 Hz

Electric oil feeding system

Rated flow of oil feeding pump	42 L/min (11 GPM)
Rated pressure of Oil feeding pump	0.5 MPa
Motor of oil feeding pump	1.1 kW (1.5 HP) / 460V / 60 Hz

Heater Power

2 x 3 kW

Motor of cooling device

0.75 kW / 460V / 60 Hz

Capacity of oil tank

800 L

Overall dimension (L*W*H)

2420 * 1890 * 2130 mm

Weight

3,100 kg

Hydraulic Stabbing Arm

The Hydraulic Casing adjusting mechanical hand is used for the drill well to collocate equipment, it has be developed newly by our company while consumers bring forward the advice and request. It is used for Casing operations, and hydraulic power is for power. The control system sets on the drill-well flat roof (the control box for the hydraulic system).

Its characteristic is the greater range of clipping casing, operating conveniences, action agility, reliable, and its mechanical hands can turn parallel. It can content completely to link with the Casing while the drill-well. It has greatly lightened the working intension of the workers and improved the working condition to compare beforetime. It is welcomed deeply by the workers of the dill-well.



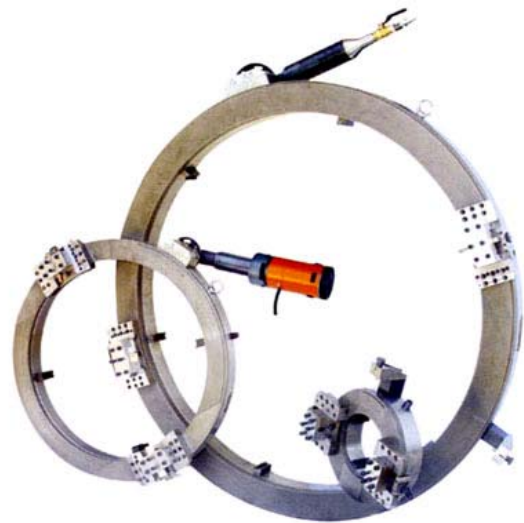
Max. distance of raising dropping	5000 mm (20 ft)
Max. angle of lifting of the major arm	90 degrees
Max. distance of arm extend or retract	600 mm (23.5 inch)
Max. angle swing of the mechanical arm	±250 mm (±10 inch)
Size range of the mechanical arm	127 mm (5 inch) ~ 500 mm (20 inch)
Rated working pressure	16 Mpa (2320 psi)
Max. flow of the system	20 L/min (6 GPM)
Working medium	Anti-abrade hydraulic oil (Winter L-HM32, Summer L-HM46)
Overall Dimension (L*W*H)	1730x1580x2000 mm
Weight	1800kg

Pipe Cutting/Beveling Machine

BOTP series Pipe Cutting/Beveling Machine have the incomparable practicability and can be used on the process of pipe cutting, beveling and plane flanges machining.

Features

- It has Lightness and simplicity designing, which makes it the ideal tool with rather small radial headroom space.
- Optimized design reduces the components' complexity by 40%, which greatly increases the interchangeability.
- Powerful functions make everything simple. If uses the cutting/beveling machine Type 600 pipe cutting/beveling machine, it means that you can cut/bevel 600mm diameter pipe.
- The housing washers of the pre-carried adjustable bearing and the enhanced basing bearing are combined together, which improves the reliability and operating functions to the maximum.
- The fixed system can automatically and easily button the pipe.
- The cutter carrier slipway with high strength has long life-span and high precision.
- The product can easily tight the components only with a proper spanner.
- Electrical or pneumatic motor driven.

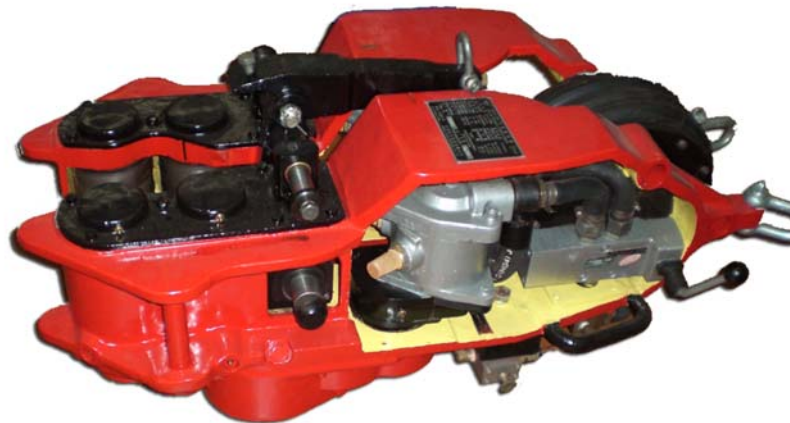


Model	BOTP-168	BOTP-273	BOTP-355	BOTP-457	BOTP-610	BOTP-762	BOTP-914
Pipe Cutting/Beveling scope (mm)	25.4-168.3	114.3-273	177.8-355.6	323.9-457.2	457.2-609.6	609.6-762	770-914.4
Pipe Cutting/Beveling scope (inch)	1" - 6"	4" - 10"	7" - 14"	12" - 18"	18" - 24"	24" - 30"	30" - 36"
Rotate speed of cutter	16 r/min	13 r/min	10 r/min	8 r/min	7 r/min	7 r/min	6 r/min
Weight (kg)	43	74	108	135	160	162	205
Pneumatic Driven			Electric Driven				
Working air pressure	0.5-1.5Mpa (inlet air pressure)		Power input (Power/Voltage/Frequency/Current)		500 ~ 2500W / 220V / 50 HZ / 6A		
Air consuming flow	1500 - 3600L/min						
Max. pipe thickness of Cutting/Beveling	≤50MM						

Pneumatic Spinning Wrench

Q250 Pneumatic Spinning Wrench is a pneumatically power tool capable of spinning drill pipe and collar from 3 1/2 to 10 inches O.D., especially used in the mechanized operation of drilling machines in shore and land oilfields instead of previous “chain” and “cord”. It’s operated more safety and with less labor power, and more efficiency. It’s more convenience to fetch core and deal with the problem underwell.

The wrench’s spinning procedure is as follows: first position the wrench vertically to a joint about 11.8-19.7 inch, or just about the upset, the wrench is now swung onto pipe and it’s four drive rollers on the head clamp the pipe. Turn on air valve of air spring, to make rollers upon drill pipe, then push/pull the handle of air motors valve. Left and right motors work, and drive rollers rotate through its reducer mechanism. Drill pipe rotates for its friction, thus drill pipe joint will be spinned in or out.



Pneumatic System

Working pressure	72.5~130.5 PSI
Oil motor	
Rated power	8 hp (per set)*2
Rated rpm	2,800 r/min
Air consumption	8.8 ft ³ /s
Applicable range	3-1/2 to 10 inch O.D. (For drill pipes and collars)
Spinning speed	0~120 rpm
Stall torque	1,106 ft.lbs @5 in O.D. pipe
Overall size	49.2 x 22.4 x 18.3 inch
Weight	968 lb

Internal Casing Running Tools

Casing running in system is a new technology for running casing, in view of limitation of conventional running casing operation, our company develop a new running casing tool which is safer and more efficiency. This technology can play all advantages of top drive drilling. It can make casing string rotate, lift and release and circulate mud and so on at the same time when running casing, maximize to make sure casing can run into downhole normally. Greatly improve the success rate, operating security and operating efficiency of running casing, it has high spreading value in oil field.

Model	CRT244
Apply casing OD	9-5/8" ~ 11-3/4"
Inside diameter	2"
ID sealing pressure	35 MPa
Max. tensile load	4500 kN
Max. operating torque	50 kN.m
Top sub connection	API 6-5/8 REG



Hydraulic Make-up/Break-out Unit

The Make-up/Break-out units are important equipment used to make-up/break-out and maintain all kinds of drill tools, drill stems and down-hole tools for petroleum and geological prospecting. Our bucking unit is designed and manufactured based on advanced technology from the same equipment domestic and abroad as well as combination with the actual situation and characteristic of petroleum industry. It is applicable for assembly & disassembly and maintenance and testing of all kinds of drill tools, well-hole tools, test tools, cementing tools and different specially tubular for petroleum exploration and geological prospecting.

Available with following advantages:

- Great torque of make-up/break-out for assembly or disassembly of work piece
- Large diameter range suitable for tube fittings when make-up or break-out
- Quick make-up
- Push-pull hydraulic cylinder provides axial push-pull forces to make-up/break-out of the work piece
- It has enjoyed reputation from customers domestic and abroad.



Technical parameters

Motor: 15kW, 1460 rpm

Max. working pressure for hydraulic system: 1750 psi

Oil tank volume: 450L

Working media: 32# anti-abrasive hydraulic oil

Dia. range of work-pieces: $\varnothing 2-7/8'' \sim \varnothing 13-3/8''$ (Changing different tong dies are requested to cover the range)

Shock-screwing tongs:

Max. torque for break-out: 132,700 lb.ft

Max. torque for make-up: 110,600 lb.ft

Min. torque for make-up: 10,300 lb.ft

Adjustable tongs:

Max. Single-cylinder clamping force: 44,000 lb

Rotary quick-screwing device torque: 475 lb.ft \sim 2,950 lb.ft

Tail rack push-pull:

Max. pulling force for cylinder: 22,900 lbs

Max. pushing force for cylinder: 33,700 lbs

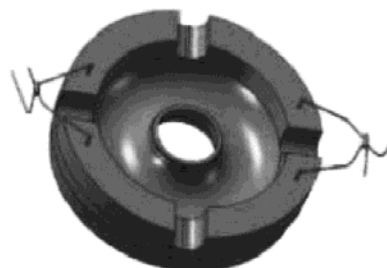
Cylinder stroke: 59 in

Tail rack push-pull length: 472.44 in

Pipe Wiper

Type U Wiper

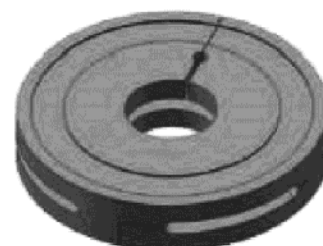
Type U wiper is used for cleaning mud on the surface of drill string in drilling operation. The long working life could relieve labor intensity for workers, reduce danger of drill point operation step in order to make drill plate environment cleaner, and it is to check crack and deal with hidden danger in time after cleaning drill string.



Wiper OD (inch)	Drill Pipe OD (inch)
15	2-3/8, 2-7/8, 3-1/2, 4, 4-1/2, 5, 5-1/2

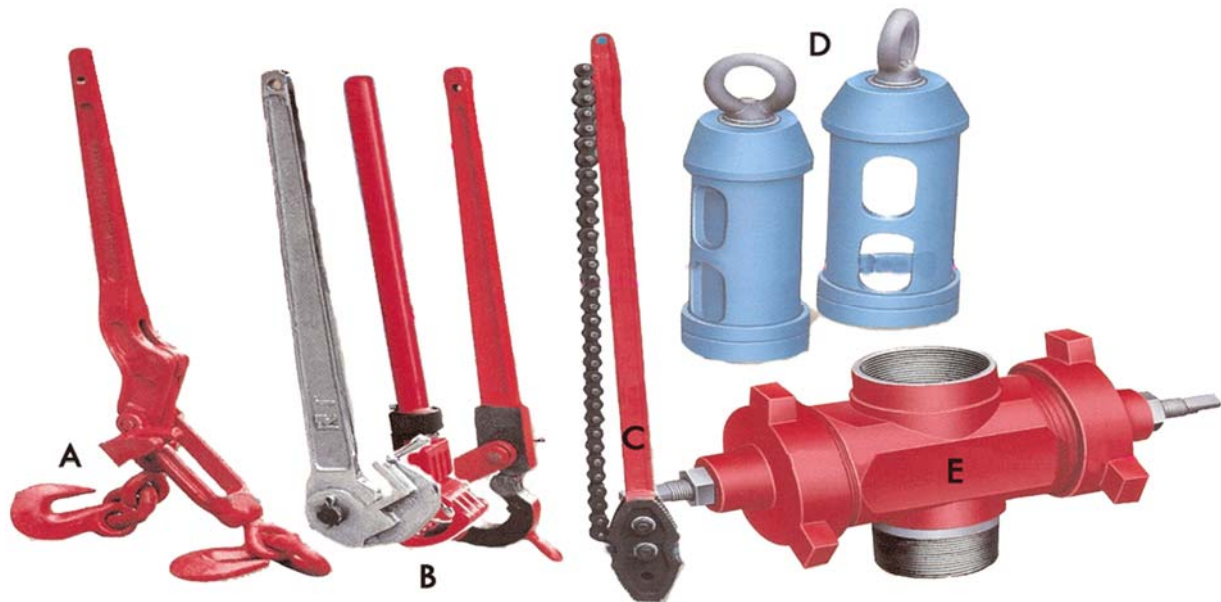
Type BJ Wiper

The BJ type wiper is one of the obligato tools in downhole operation, which is used for cleaning mud on drill pipe outer surface to protect drill pipe outer surface cleaning, in order to make all drilling tools work normally.



Wiper OD (inch)	Drill Pipe OD (inch)
16-3/4	2-3/8, 2-7/8, 3-1/2, 4, 4-1/2, 5, 5-1/2 5-7/8, 6-5/8

Other Tools



The load binder is a general manual towing tool, which is suitable for towing, hanging and tightening everywhere, especially for tightening rig with 30 kn. max workload.

Chain tongs are normally used to connect or disconnect 1¹/₂-10 inch pipe, which can turn in any direction with max 1680nm workload and 27-57inch length.

Sucker rod elevating socket is used to handle single 1¹/₂-1¹/₈ inch sucker rod, and hang on the nacelle of rig with max 400psi workload.

The Sucker rod blowout preventer is used for 1¹/₂-1¹/₈ inch sucker rod to prevent oil and gas from leakage, and ensure washing wells work smoothly with max workload of 500psi.

Knuckle joint swab is used for production test and oil extraction, allowing cups to be changed in 10 seconds. To disassemble, the mandrel is lift 90°, and the two sections of the joint are separated, assuring rapid running and smooth, trouble-free swabbing.

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