



PRODUCT DESCRIPTION

HYDRAULIC POWER UNIT



Hydraulic Power Unit Model CFYZ-120 (Diesel drive)

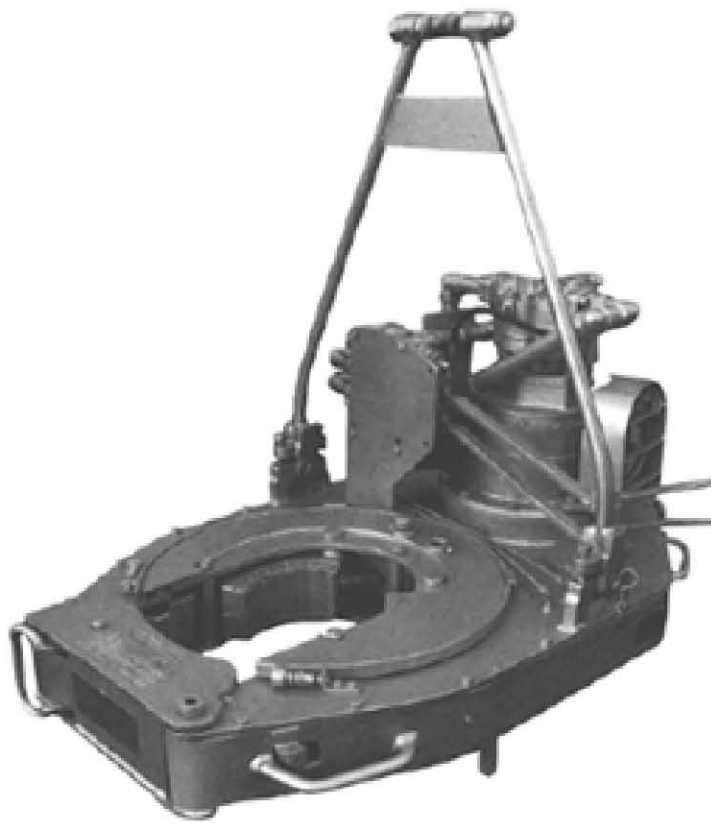
No.	Technical Data	Specifications
1	Working pressure	2500 Psi
2	Max working pressure	2900 MPa
3	Rated volume	52 gpm
4	Diesel model	TD226B-4D
5	Diesel rated power	60 KW
6	Diesel rated rotary speed	1500 RPM
7	Diesel oil consumption	208g/kw.h
8	Diesel engine start type	Air start
9	Plunger pump model	QL100SCY14-1BK
10	Motor oil cylinder capacity	132 gallon
11	Diesel oil cylinder capacity	50.6 gallon
12	Electrical heating power	3 kw*2
13	Air cool	Motor power:0.37*2kw; Voltage:380V,50Hz; Cooling area:40m ²
14	Dimension	2540*1300*1730 mm
15	Weight	1800 kg

HYDRAULIC POWER TONG



Hydraulic Power Tong Model TQ508-70Y

Model	TQ508-70Y
Pipe Size Range	20" - 9-5/8"
Available Jaws	20", 18-5/8", 16", 13-3/8", 10-3/4", 9-7/8" and 9-5/8"
Tong Dimension	82" x 50" x 30"
Tong Weight	3410 lbs
Maximum Torque	51630 ft.lbs
Operating Pressure	2900 psi
Operating Flow	29 - 45 gpm
Maximum Speed in High Gear	26 - 43.6 rpm
Tong Arm Length	52"



Hydraulic Power Tong Varco Model HK-20000

Technical Specification

Model	HK-20000
Pipe Size	3-1/2" – 13-3/8"
Max Torque	25000 ft.lbs
Speed in Low Gear	17 RPM
Weight	2200 lbs

HYDRAULIC POWER TONG



Hydraulic Power Tong Model TQ340/35B

Model		TQ178-16	TQ340-20A	TQ340-35	TQ178-16A	TQ340-35A	TQ340-50
Size Range	mm	101.6-178	101.6-340	139.7-340	101.6-178	101.6-340	139.7-340
	inch	7-Apr	4-13-3/8	5-1/2-13-3/8	7-Apr	4-13-3/8	5-1/2-13-3/8
Maximum Hydraulic Pressure	MPa	18	16	18	18	18	17.2
	Psi	2610	2320	2610	2610	2610	2494
Rated Flow of Hydraulic Oil	L/Min	114	114	114	114	114	120
	GPM	30.1	30.1	30.1	30.1	30.1	31
Maximum Torque	Hi-Gear	KN.M	2.4-3	3.7	2.5-3	2.4-3	4.0-5.0
		ft.lbf	1770-2200	2730	1844-2200	1770-2200	2950-3680
Mid-Gear	KN.M	—	—	6.0-7.5	—	—	11
	ft.lbf	—	—	4420-5530	—	—	8103
Low-Gear	KN.M	16	20	35	15-18	27-30	50
	ft.lbf	11800	14750	25800	11060-13280	19900-22120	36851
Speed	Hi-Gear	RPM	54-97	50-80	60-86	54-79	80-100
	Mid-Gear	RPM	—	21-30	—	27.4	—
	Low-Gear	RPM	9-13.1	14-Jun	2.6-5.3	8.5-12	16-Dec
Overall Size	mm	1540x760x740	1520x850x670	1540x900x860	1500x760x680	1560x900x850	1540x892x908
	inch	61x30x29	60x34x26	61x36x34	59x30x27	61x35x33.5	60x35x33
Weight	Kg	580	560	780	570	780	880
	lb	1280	1234	1720	1250	1720	1940

HYDRAULIC POWER TONG



Technical Specification

Model	5-1/2" Straight Torque c/w Back up
Pipe Size	2-3/8" – 5-1/2"
Max Torque	15,000 ft.lbs

Others Features

- Spring hanger allow for movement during make up and break out
- Adjustable tong leveling system
- 2 position backing pin for alignment of opening during make up or break out
- Adjustable relief valve for setting torque
- 2 position hi low torque speed control
- Variable speed hydraulic throttle control
- Efficient high torque hydraulic vane motor
- Interchangeable 2 jaws wrap around die system for different sizes
- Optional door safety interlock
- Rugged spur gear system provides high torque
- High strength alloy steels used throughout the tong provides a light weight, high torque and compact tong ensuring long life and durability.
- Equipped with integral back up attachment with including radial load eliminator, bi-directional compression load cell, tri-bite link system and dual size capability.



Torque Turn Model CT3000 (Con-Tech)

Technical Specification

Number of micro processors	2
Serial Port	1
Parallel Port	1
Real Time Clock	Yes
Self-check (reliability) program	Yes
AC Input	110 V to 220 V (Auto Switching)
Dump Valve Respond	Max : 35 milliseconds
Sampling Frequency	120,000 data points per second

Program Available

- Torque / Time
- Torque / Turn
- Torque / Turn / Time
- Double Ended Makeup
- Pressure Testing
- Microsoft Windows 98

Program Options and Features

- Magnification of Any Graph Section
- After Dump Torque Recorded and Graphed
- Overlay of up to 10 Graphs
- Instant Graph Recall
- Cursor Identification (ft-lbs Torque) of any data point along curve line
- Auto Save to Floppy Disk
- Load Cell Calibration and Verification

MANUAL TONG



Type Q86-324/75(33/8-123/4in) manual tong is an essential tool in oil drilling operation to fasten or remove the screws of drill pipe and casing joint or coupling. It can be adjusted by changing latch lug jaws and latch steps.

No. of latch Lug Jaws	Handle OD mm(in)	Torque Max kN.M
5a	86-133(3-3/8~5-1/4)	55
5b	108-171(4-1/4~6-3/4)	75
5b-1	133-208(5~8)	75
5c	168-219(6-5/8~8-5/8)	75
5d	216-273(8-1/2~10-3/4)	55
5e	298(11-3/4),324(12-3/4)	55



Type Q31/2-17/90 manual tong is used for making up or breaking out the screws of drill tools and casing joint or coupling. It can be adjusted by changing lug jaws latch and latch steps.

No. of Latch Lug Jaws	Handle OD mm(in)	Torque Max. Kn.m	Weight(kg)
1#	89-210(3-1/2~8-1/4)	90	370
2#	203-286(8~11-1/4)	90	
3#	298-365(11-3/4~14-3/8)	55	
4#	406-432(16~17)	55	



This manual tong is used to fasten or remove the screws of drill tool and casing in well drilling and repairing. The handling size of this type tong can be adjusted by changing latch lug jaws.

No. of Latch Lug Jaws	Handle OD		Torque Max. Kn.m
	in	mm	
1#	2-3/4~4-1/2	60.3-114.3	35
2#	4-1/2~6-1/2	114.3-165.1	
3#	6-1/2~8-5/8	165.1-219.1	
4#	9-5/8~10-3/4	244.5-273.1	



Type Q340-762/35(133/8-30inch) casing tong is capable of making up or breaking out the screws of casing and casing couplings in drilling operation.

Pipe size		Torque Max. kN.m
mm	in	
340-368	13-3/8~14-1/2	35
368-406	14-1/2~16	
406-445	16~17-1/2	
445-483	17-1/2~19	
483-508	19~20	
508-546	20~21-1/2	
546-584	21-1/2~23	
610-648	24~25-1/2	
648-686	25-1/2~27	
686-724	27~28-1/2	
724-762	28-1/2~30	

SINGLE JOINT ELEVATOR



Single Joint Elevator

Pipe Size		Max. Load	
(mm)	(inch)	(kN)	(Ton)
60.3 – 146.1	2-3/8" – 5-3/4"	35	4
152.4 – 355.6	6" – 14"	45	5
406.4 – 914.4	16" – 36"	53	6

SIDE DOOR ELEVATOR

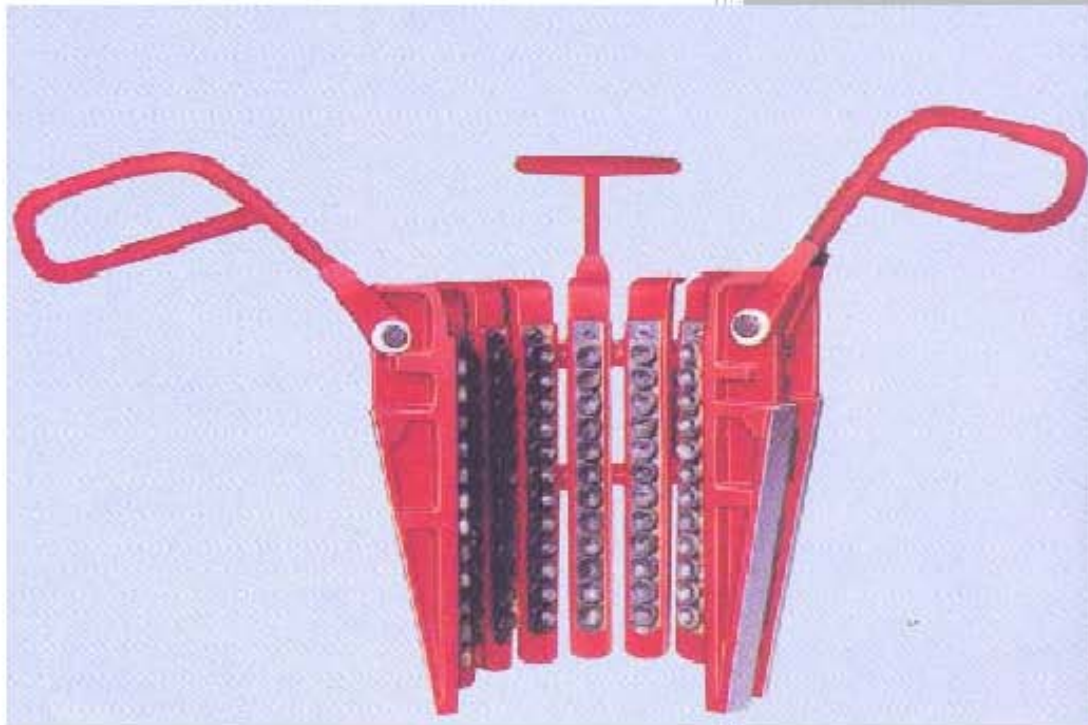


Type	Pipe OD	Max. dia links	Max. load
	in	in	KN(Tons)
CD	2.3/8-2.7/8	2.3/4	100 (900) 150 (1350) 200 (1800) 250 (2250) 350 (3150)
	3.1/2-4	2.3/4	
	4.1/2-5.1/2	2.3/4	
	6.5/8-8.5/8	3.1/2	
	9.5/8-10.3/4	3.1/2	
	11.3/4-13.3/8	3.1/2	
	14-16	3.1/2	
	18.5/8-20	3.1/2	
	22-30	3.1/2	
Model	Drill pipe size	Elevator bores	Max. load KN(Tons)
CDZ 67	2.3/8 EU	67	150 (1350) 250 (2250) 350 (3150)
CDZ 83	2.7/8 EU	83	
CDZ 101	3.1/2 EU	101	
CDZ 109	4 IU	109	
CDZ 121	4 EU	121	
	4.1/2 IU		
CDZ 133	4.1/2 IEU	133	
	5 IEU		
CDZ 148	5.1/2 IEU	148	

SLIP TYPE ELEVATOR



Model	Pipe Size		Max. Load	
	(mm)	(Inch)	(kN)	(Tons)
YT	33.4 – 88.9	1.315 – 3-1/2	670	75
YC	88.9 – 117.8	3-1/2 – 7	670	75
HYT	60.3 – 88.9	2-3/8 – 3-1/2	1350	150
MYT	33.4 – 73	1.315 – 2-7/8	360	40
LYT	26.7 – 52.4	1.05 – 2-1/16	180	20



Casing Slip CMS-XL Type

Type		CMS-XL						
Casing OD	(inch)	6-5/8	7	7-5/8	8-5/8	9-5/8	10-3/4	11-3/4
	(mm)	168.3	177.8	193.7	219.1	244.5	273.1	298.5
Number of Segment			12	13	14	15	17	
Max Load	(tons)	250						
	(kN)	2250						
Type		CMS-XL						
Casing OD	(inch)	13-3/8	16	18-5/8	20	24	26	30
	(mm)	339.7	406.4	473.1	508	609.6	660.4	762
Number of Segment			18	21	25	26	30	33
Max Load	(tons)	125						
	(kN)	1125						

HINGED CASING SPIDER



Type	Pipe Size (in)	Taper	Rated Load (Tons)	
JOY13.3/8/200	7 – 8.5/8	1 : 3	200	
	9 – 13.3/8	1 : 4		
JOY20/200	7 – 8.5/8	1 : 3		
	9 – 20	1 : 4		
JOY30/200	16 – 30	1 : 4		
JOY36/200	18.5/8 – 36	1 : 4		
HCS20/500	2.3/8 – 20	1 : 3		500
JOY30/500	16 – 30	1 : 3		
JOY36/500	18.5/8 – 36	1 : 3		

ROTARY HAND SLIP



Rotary Hand Slip

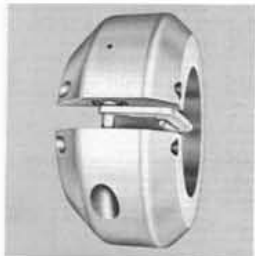
Model	Slip Body Size (Inch)	3-1/2"			4-1/2"		
		SDS	Pipe Size (inch)	2-3/8"	2-7/8"	3-1/2"	3-1/2"
	Weight (lbs)	117	111	107	143	136	127
SDML	Pipe Size (inch)	2-3/8"	2-7/8"	3-1/2"	3-1/2"	4"	4-1/2"
	Weight (lbs)	193	188	180	207	199	188
SDXL	Pipe Size (inch)	-	-	-	3-1/2"	4"	4-1/2"
	Weight (lbs)	-	-	-	229	219	205
Slip Body Size (Inch)		5"			5-1/2"		
SDML	Pipe Size (inch)	4"	4-1/2"	5"	4-1/2"	5"	5-1/2"
	Weight (lbs)	204	196	185	200	185	181
SDXL	Pipe Size (inch)	4"	4-1/2"	5"	4-1/2"	5"	5-1/2"
	Weight (lbs)	237	227	213	234	224	210

SAFETY CLAMP & THREAD PROTECTORS

Model	Pipe Size (inch)	Weight (lbs)
WA-C	3-1/2 – 4-5/8	46
	4-1/2 – 5-5/8	55
	5-1/2 – 6-5/8	61
	6-1/2 – 7-5/8	64
	7-1/2 – 8-5/8	69
	8-1/2 – 9-5/8	72
	9-1/2 – 10-5/8	88
	10-1/2 – 11-5/8	92
	11-1/2 – 12-5/8	97
	12-1/2 – 13-5/8	102
	13-1/2 – 14-5/8	107
	14-1/2 – 15-5/8	112
WA-T	1-1/8 – 2	36
	2-1/8 – 3-1/4	40
	3-1/2 – 4-1/2	44



Safety Clamp



Thread Protectors

Manual and Inflatable with air operated system are available for size 2-3/8" – 20"