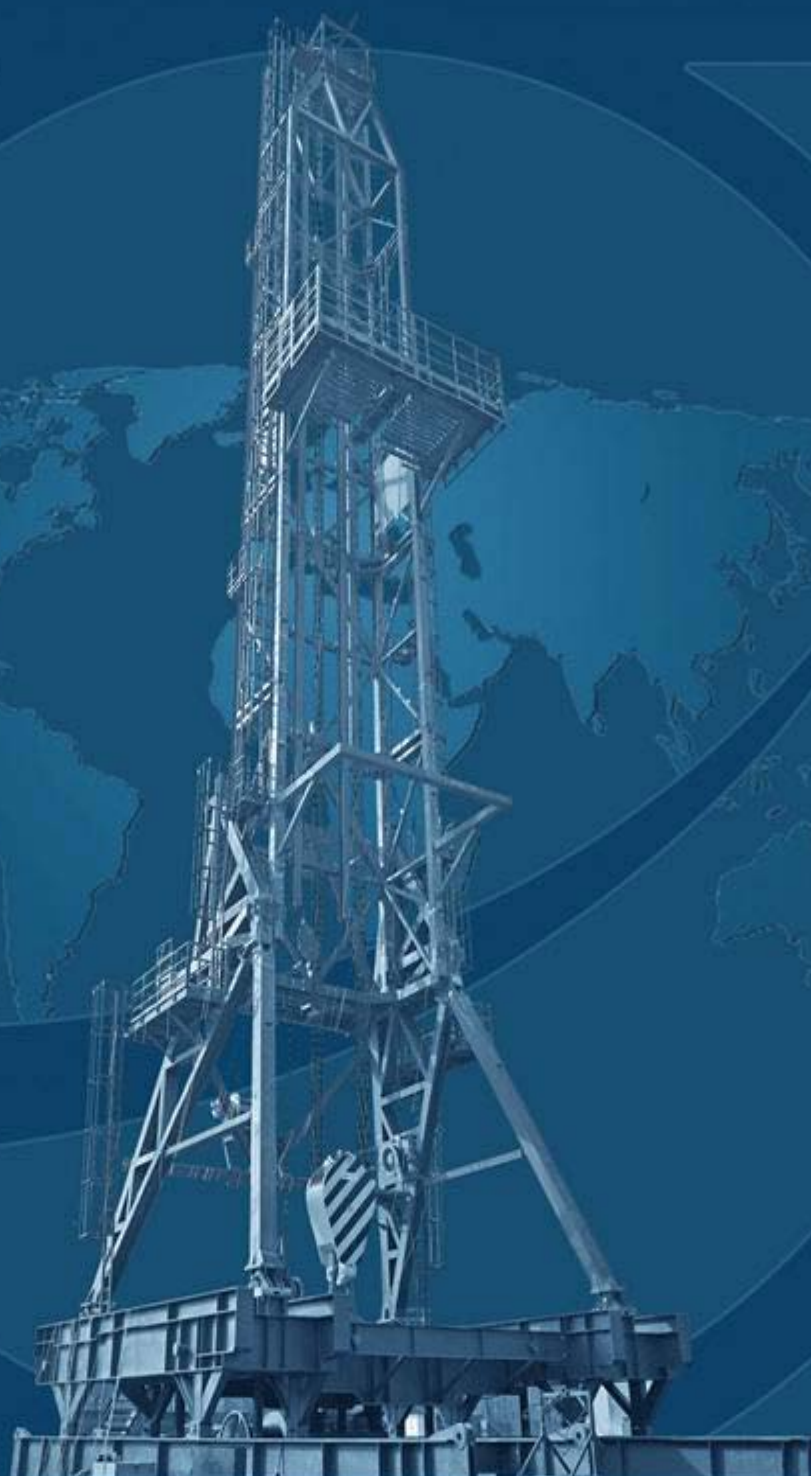


2013年 产品目录

2013 YAOU-NOW PRODUCTS



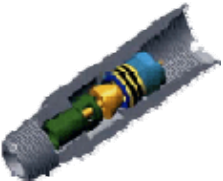
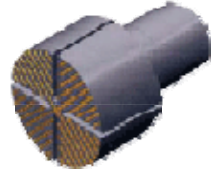
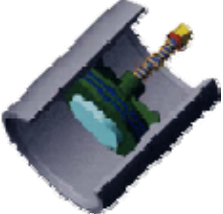
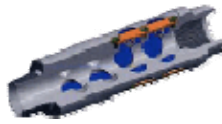
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Email:yaouteam@gmail.com



		
Short Drill Pipe	drill pipe valve	arrow check valve
		
bypass valve	drill tool float valve	kelly cock valve
		
stabilizer	male coupling tap	flat bottom grinding shoe
		
magnetic fisher	female coupling tap	casing check valve
		
hydraulic anchor	packer	

Fishing Tools



RUGAO YAOU IMPORT EXPORT CO.,LTD
如皋市雅鸥进出口贸易有限公司



三、Fishing tools★

1、Taper Tap



The taper tap is a special fishing tool making thread in tube dropped object such as drill pipe and oil tube. The taps are turned from high strength alloy steel forging materials and heat treated. It is made with chip groove so as to make threads. The box tap is a special external fishing tool which is engaged on the outside wall of tubing objects such as oil tubing and drill pipe.

Table 1. Specifications for drilling taper tap

Specifications	Thread connection	I.D(mm)	Catch size(mm)
GN/NC31(2 7/8"IF)	NC31(2 7/8"IF)	20	48~60
GN/NC38(3 1/2"IF)	NC38(3 1/2"IF)	20	60~77
GN/NC50(4 1/2"IF)	NC50(4 1/2"IF)	25	89~103
GN/NC50(4 1/2"IF)	NC50(4 1/2"IF)	25	90~113

Table 2. Specifications for work over taper tap

Specifications	Thread connection	I.D(mm)	Catch size(mm)
GN/NC26(2 3/8"IF)	NC26(2 3/8"IF)	13.5	39~67
GN/NC31(2 7/8"IF)	NC31(2 7/8"IF)	20	54~77
GN/NC31(2 7/8"IF)	NC31(2 7/8"IF)	25	72~9
GN/NC38(3 1/2"IF)	NC38(3 1/2"IF)	30	88~103



1-1、Box Tap 母锥



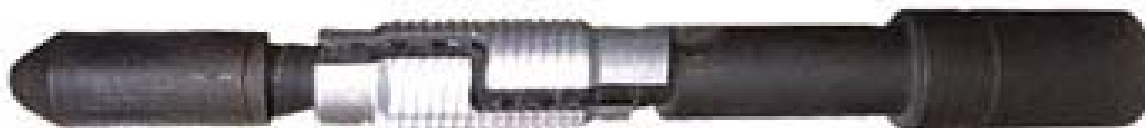
The taper tap is a special fishing tool making thread in tube dropped object such as drill pipe and oil tube. The taps are turned from high strength alloy steel forging materials and heat treated. It is made with chip groove so as to make threads. The box tap is a special external fishing tool which is engaged on the outside wall of tubing objects such as oil tubing and drill pipe.

Table 3 Specifications for box tap

c	Thread connection	Catch diameter(mm)
MZ/NC26(2 3/8"IF)	NC26(2 3/8"IF)	48~50
MZ/NC26(2 3/8"IF)	NC26(2 3/8"IF)	59~60
MZ/NC26(2 3/8"IF)	NC26(2 3/8"IF)	68~73
MZ/NC31(2 7/8"IF)	NC31(2 7/8"IF)	69~73
MZ/NC31(2 7/8"IF)	NC31(2 7/8"IF)	71~82
MZ/NC31(2 7/8"IF)	NC31(2 7/8"IF)	89~93
MZ/NC38(2 7/8"IF)	NC38(2 7/8"IF)	95~118
MZ/NC38(2 7/8"IF)	NC38(2 7/8"IF)	90
MZ/NC50(4 1/2"IF)	NC50(4 1/2"IF)	127
MZ/4 1/2"FH	4 1/2"FH	120
MZ/4 1/2"IF	4 1/2"IF	141
MZ/6 5/8"REG	6 5/8"REG	168



2、LM-T Type Releasing Spear 可退式卡瓦打捞矛



In drilling and work over operation, the releasing slip spear is a tool mainly used for fishing of drill pipe, oil pipe and casing from fish hole. It can be used with internal cutter, bumper jar etc.

Specifications for drilling releasing spear

Technical specification for work over releasing spear

Type	Mandrel O.D (mm)	Catch size(mm)	Nut Dia (mm)	Thread connection	Allowed Load(KN)
LM-T48	86	38-43		NC26	
LM-T60	86	50-54	48	NC26(2 3/8"IF)	270
LM-T73	95	55-62	52	NC26(2 3/8"IF)	380
LM-T89	105	62-78	58	NC31(3 1/2"IF)	650
LM-T102	127	84-102	75	NC38(3 1/2"IF)	800
LM-T114	127	92-102	85	NC38(3 1/2"IF)	1000
LM-T127	159	100-115	95	NC50(4 1/2"IF)	1300
LM-T140	159	112-140	102	NC50(4 1/2"IF)	1500
LM-T168	159	140-156	135	NC50(4 1/2"IF)	2200
LM-T178	159	150-165	144	NC50(4 1/2"IF)	2200
LM-T194	159	168-180	160	NC50(4 1/2"IF)	2300
LM-T219	159	190-206	180	NC50(4 1/2"IF)	2300
LM-T245	203	215-230	210	6 5/8"REG	2500
LM-T273	203	240-260	210	6 5/8"REG	2500
LM-T340	203	300-325	210	6 5/8"REG	2500



Type	Mandrel O.D (mm)	Catch size(mm)	Nut Dia. (mm)	Threads connection	Allowed Load(KN)
LM-T48	86	40-45	38	NC26/ 1, 900TBG	200
LM-T60	86	46-51	44	NC26,2 3/8"TBG	270
LM-T73	95	54-62	52	2 7/8"REG ,2 7/8"TBG	340
LM-T89	95	66-78	62	2 7/8"REG ,2 7/8"TBG	650
LM-T102	105	85-100	80	NC31,3 1/2"TBG	800
LM-T114	105	92-103	85	NC31(2 7/8"IF)	900
LM-T127	105	101-115	95	NC31(2 7/8"IF)	1000
LM-T140	105	117-128	110	NC31(2 7/8"IF)	1200
LM-T168	127	140-156	130	NC38(3 1/2"IF)	2000
LM-T178	127	149-164	140	NC38(3 1/2"IF)	2000
LM-T194	127	168-180	160	NC38(3 1/2"IF)	2300
LM-T219	168	190-206	180	NC50(4 1/2"IF)	2300



可退式卡瓦打捞矛



3、CLF Type Fishing Magnet 反循环强磁打捞器



The CLF type fishing magnet in petroleum and geology exploration is used for fishing of small fallen objects in the down hole. With some of advantages such as simply structure, easy to operate, reliable performance, small size and lightweight, it is equipped with permanent magnet iron which can attract small objects such as teeth wheel, palm, tong teeth and tool so that small objects in down hole are fished and the well bottom is cleaned up.

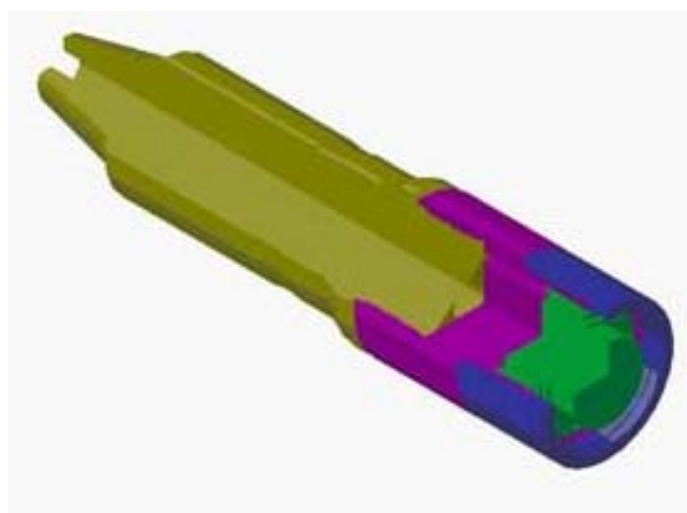
Technical specifications and parameters

Type	O.D (mm)	Thread API	Attracted Weight (kg/cm ²)	Temperature In well ° C	ID (mm)
CLF86	86	NC23	9.8	210	95~110
CLF100	100	NC23	9.8	210	110~135
CLF125	125	NC38	9.8	210	135~165
CLF140	140	NC38	8.5	210	150~175
CLF146	146	NC38	8.5	210	160~185
CLF150	150	NC38	8.5	210	160~185
CLF175	175	NC50	7.9	210	185~210
CLF178	178	NC50	7.8	210	185~210
CLF190	190	NC50	7.8	210	200~225
CLF200	200	NC50	7.6	210	210~235
CLF203	203	NC50	7.6	210	215~240



CLF225	225	6 5/8"REG	7.5	210	235~270
CLF254	254	6 5/8"REG	7.0	210	265~311
CLF265	265	6 5/8"REG	6.9	210	275~330
CLF292	292	6 5/8"REG	6.9	210	300~442
CLF317	317	6 5/8"REG	6.9	210	340~375
CLF356	356	7 5/8"REG	6.9	210	4445

4、Fishing Magnet 强磁打捞器

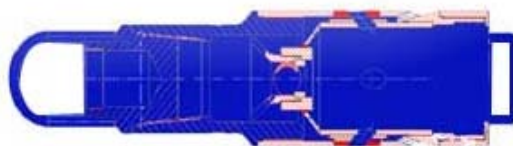


Type	OD (mm)	Connection	Hole Range (mm)	Magnet Strenth (Normal) (kg)
QDL92-1-00	φ92	NC26	φ100~φ125	260kg
QDL140-3-00	φ140	3-1/2REG	φ160~φ185	330kg
QDL146-1-00	φ146	NC38	φ160~φ185	400kg
QDL178-1-00	φ177.8	NC50	φ185~φ210	500kg
QDL194-00	φ194	NC50	φ215~φ240	700kg
QDL203-2-00	φ203.2	NC50	φ215~φ240	710kg
QDL270-1-00	φ270	6-5/8REG	φ280~φ330	1300kg
QDL279-1-00	φ279	6-5/8REG	φ290~φ400	1800kg
QDL381-1-00	φ381	6-5/8REG	φ400~φ450	3500kg

The Fishing Magnets are used to retrieve all types of small objects having magnetic attraction from bore hole bottoms .Such undrillable objects cones、bearings、slips、tong pins and milling cuttings can often be retrieved only by magnetic attraction .So that keeping the bore bottom is clean.

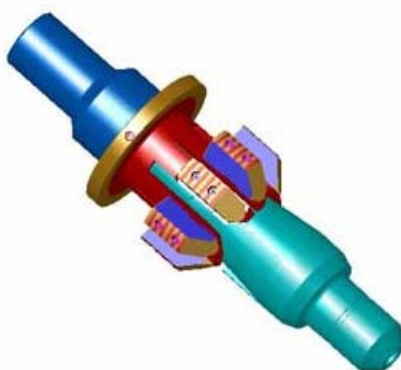


5、Reverse circulation junk basket



Type	Working OD	Fishing Dia.	Length	Connection
FQL200-00	200	165	912	NC50B

6、Casing Spears 套管打捞矛



Type	Nominal Casing Size	Tool OD (mm)	Tool ID (mm)	Top Connection
LM177.8-00	178	146	48	4-1/2" REG
				NC38 B×P
LM9-5/8" -AZ-00	244.5	210	51	4 1/2" REG
LM11-3/4" -AZ-00	298			NC50 B×P
LM13-3/8" -AZ-00	340	299	79	6 5/8" REG
	406.4			
LM20-AZ-00	508			NC50 B×P
	762			

The Casing Spear is used to engage a fish internally in order that it may be pulled or jarred from the hole. It is especially designed for marine operations.

The tool is composed of top sub, mandrel, slip (or slip segments and slip holder), jarring ring, and screws.

High strength, easy to operate are the features of the casing spear manufactured in our company.

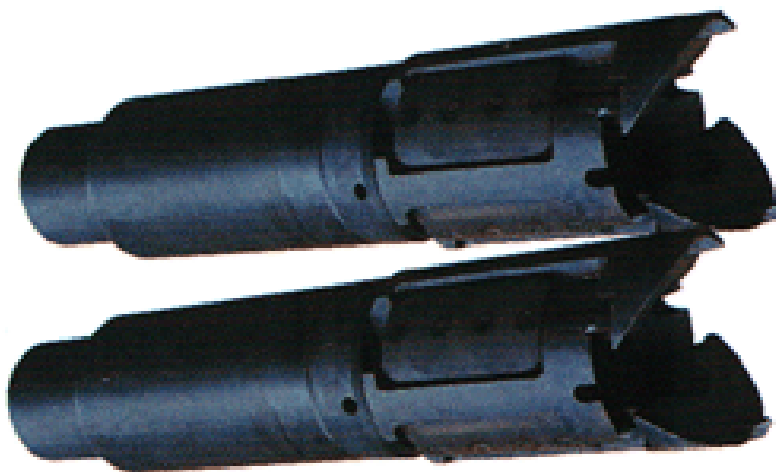


7、Junk Sub 打捞杯



Type	Hole Size	Max. OD(in)	Sub OD(in)	Bore Dia. (in)	Connection
SLB127-3-00	6" ~6 3/8"	127	114.3	38.1	3 1/2" REG
SLB168-3-00	7 1/2" ~8 1/2"	168	146	57.2	4 1/2" REG
SLB175-1-00	8 5/8" ~9 5/8"	175	146	57.2	4 1/2" REG
SLB245-4-00	11 1/2" ~13"	244.5	203.2	70	6 5/8" REG
SLB330-1-00	14 3/4" ~17 1/2"	330	241.3	76.2	7 5/8" REG

Note: When ordering or requesting quotation, if size other than above specifications, please specify clearly.





8、Back-off Sub 钻具倒扣器



Specifications

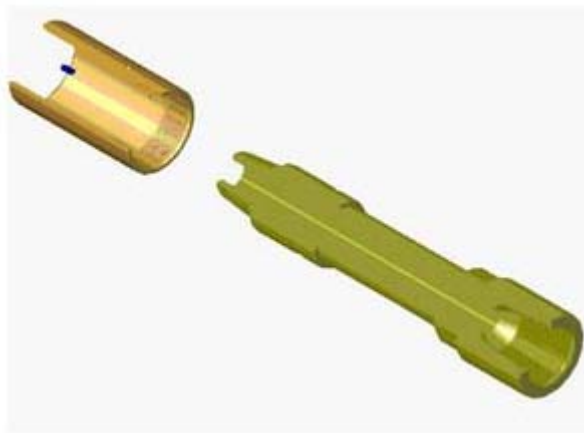
Type	OD (mm)	ID (mm)	Connection (API)	Thread for Fishing (API)	OAL (mm)
ZDK105-1-00	105	20	NC31 LH	2 7/8" EUE	572
ZDK121-1-00	121	22	NC38 LH	3-1/2" EUE	600
ZDK121-2-00	121	22	NC38 LH	NC38	630
ZKD159-1-00	159	28	NC50 LH	NC50	690
ZDK168-1-00	168.3	28	NC50	NC50 (LH)	690

Note: When ordering or requesting quotation, if size other than above specifications, please specify clearly.





9、Junk Sub



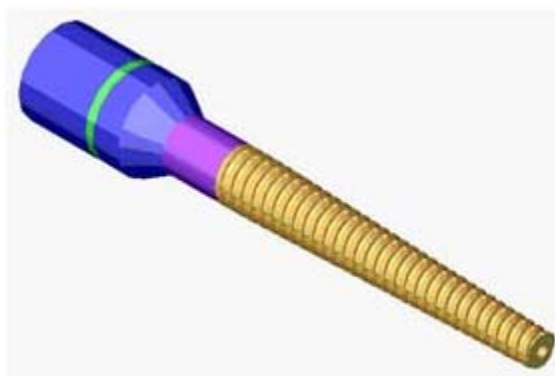
Type	Hole Size	Max.OD(in)	Sub OD(in)	Bore Dia.(in)	Connection
SLB127-3-00	6" ~6 3/8"	127	114.3	38.1	3 1/2" REG
SLB168-3-00	7 1/2" ~8 1/2"	168	146	57.2	4 1/2" REG
SLB175-1-00	8 5/8" ~9 5/8"	175	146	57.2	4 1/2" REG
SLB245-4-00	11 1/2" ~13"	244.5	203.2	70	6 5/8" REG
SLB330-1-00	14 3/4" ~17 1/2"	330	241.3	76.2	7 5/8" REG

Junk Sub is normally run just above the drill bit or milling tool, with a cup for catching objects too heavy to be completely circulated out of the hole. It is also run above a scraper, operators can get quicker, cleaner scraping jobs.





10、Taper Taps 打捞公锥



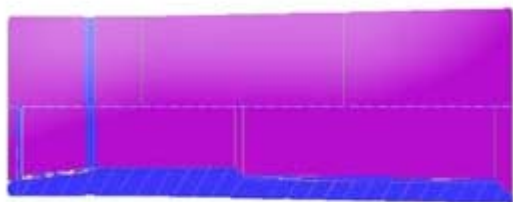
Type	Connection	Overall Length	Fishing ID Range
GZ-NU31-LH-1	NC31(LH)	1607.5	39—53
GZ-NC31-1	NC31	1145	45—85
GZ-NC31-2	NC31	557	56—60
GZ-NC38-6(Z)	NC38	550	50.8
GZ-NC38-7	NC38	860	84—106
GZ-NC38-8	NC38	860	119—141
GZ-NC38-9	NC38	950	97—125
GZ-NC38-10	NC38	710	87—100
GZ-NC38-10(Z)	NC50	860	65—88
GZ-NC50-11	NC50	1130	82.5-121
GZ-NC50-12	NC50	930	69.9-95.3
GZ-4 1/2"FH-1(Z)	4 1/2" FH	850	65—88

Note: When ordering or requesting quotation, if size other than above specifications, please specify clearly.

The **taper tap** is a special fishing tool making thread on the inside wall of tube dropped objects such as drill pipe and oil tube. They are made with chip groove so as to make threads easily. The Taper tap and Die Collar are made up of high quality alloy steel and processed by special heat treatment, having the advantages of high strength, high toughness and easy tapping.



11、Die Collar 打捞母锥



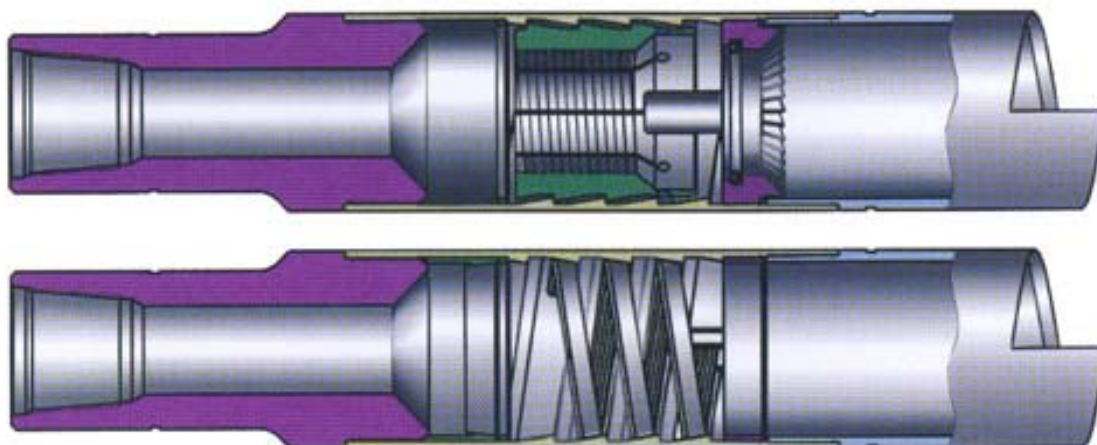
SJ-DRILLING

Type	Connection	Overall Length	Fishing ID Range
MZ-2 3/8" REG-2	2 3/8" REG	550	73-80
MZ-3 1/2" REG-2	3 1/2" REG	600	89-100
MZ-NC31-LH-1	NC31(LH)	880	55-85
MZ-NC38-1	NC38	1000	63.5-101.6
MZ-NC50-1	NC50	1050	150-185
MZ-NC38-2	NC38	900	101.6-127

Die Collar is a special external fishing tool which is engaged on the outside wall of tubing objects such as oil tubing and drill pipe. They are made with chip groove so as to make threads easily. The Taper tap and Die Collar are made up of high quality alloy steel and processed by special heat treatment, having the advantages of high strength, high toughness and easy tapping.



4、The Drilling Fishing Cup 随钻打捞杯



During drilling process,drilling fishing cup is applied mainly for fishing of shivers and fallen objects such as carbide tooth,drill bit and bearing which can not be carried out of hole by conventional fluid circulation,etc.It possesses important functions to keep hole toe cleaning, increase bit service life ,reduce and prevent drill bit from unexpected damage.The tools are available with all sizes and super performance.

Technical specifications and parameters

Type	Suitable hole size (mm)	Thread connection API (in)	L.D (mm)	O.D (mm)	Type	Suitable hole size (mm)	Thread connection API (in)	L.D (mm)	O.D (mm)
LB94	108~117.5	2 3/8 REG	19	94	LB197	235~279.5	5 1/2 REG	70	197
LB102	117.5~124	2 7/8 REG	32	102	LB219	244~295	6 5/8 REG	89	219
LB114	130~149	3 1/2 REG	38	114	LB229	254~305	6 5/8 REG	70	229
LB127	152.4~162	3 1/2 REG	38	127	LB245	292~330	6 5/8 REG	89	245
LB140	165~190.5	3 1/2 REG	38	140	LB280	330~375	7 5/8 REG	89	280
LB168	190.5~216	4 1/2 REG	57	168	LB311	327~375	7 5/8 REG	89	311
LB178	219~244.5	4 1/2 REG	57	178	LB327	375~444.5	7 5/8 REG	102	327
LB190	229~273	4 1/2 REG	57	190	LB340	386~456	7 5/8 REG	102	340



5、Impressions Block 铅模



Application

- 1).To find the correct depth of fish.
- 2).To know the shape of fish top.
- 3).To check the deformed shape of internal diameter of casing.

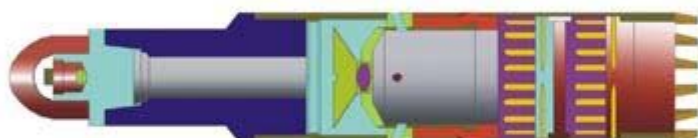
The Impression blocks are available in flat-bottom type and conical type.

Specifications for flat-bottom impression block

Specification	Thread Connection		I.D.of lead die	Length(mm)	Total length
	O.D.	Thread type(in)			
270	203	6 5/8REG	40	150	450
225	165	4 1/2IF	40	130	400
195	159	4 IF	30	120	350
170	121	3 1/2IF	30	120	300
120	108	2 7/8IF	20	100	300
100	89	2 1/2ZG	20	100	250



6、The LL Type Reverse Circulation Junk Basket



The LL type reverse circulation junk basket is used to retrieve all types of small junk objects such as cone, cutter, hand tool and junks from the bottom hole. During drilling operation, it produces a local reverse circulation of fluid at well core so as to effect a complete recovery of junk in the junk basket. Especially when PDC bit is used, cleaning bottom well by the tool becomes very necessary to ensure the bit with a normal application. The reverse circulation junk basket therefore becomes an essential tool in oil, geology exploration and drilling engineering.

Technical specifications and parameters

Type	Hole diameter(mm)	Ball diameter(mm)	Max.catch diameter(mm)	Thread conn. API
LI 40(4")	104.8~114.3(4 1/4" ~4 1/2")	30	64.5	NC26
LI 44(4 1/2")	117.5~127(4 5/8"~5")	35	76	NC26
LI 51(5 1/8")	142.9~152.4(5 5/8"~6")	40	95.5	NC31
LI 56(5 3/4")	155.6~165(6 1/8"~6 1/2")	40	112	NC38
LI 62(6 1/4")	168~187.3(6 5/8"~7 3/8")	42	121	NC38
LI 70(7")	190.5~209.5(7 1/2"~8 1/4")	42	132	4 1/2" REG
LI 77(7 7/8")	212.7~241.3(8 3/8"~9 1/2")	42	146	NC50
LI 85(8 5/8")	231.7~260.3(9 1/8"~10 1/4")	50	166	NC50
LI 91(9 1/8")	244.5~269.9(9 5/8"~10 5/8")	50	182	NC50



LI 95(9 5/8")	254~275.4(10"~11")	50	192	NC50
LI 101(10 1/8")	273~295.3(10 3/4"~11 5/8")	50	195.5	NC56
LI 112(11 1/4")	320.6~346.1(2 5/8"~13 1/4")	55	200	6 5/8" REG
LI 116(11 3/4")	406.4~444.5(16"~17 1/2")	80	280	6 5/8" REG

7、LT-T Type Releasing Overshot LT-T 型可退式卡瓦打捞筒



The releasing overshot is the special external fishing tool used for fishing drillcollar ,drill pipe ,oil tube and other fishes in drilling and work over operation .

Specifications for drilling releasing overshot



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Type	O.D. (mm)	Max.catch size (mm)		Thread API	Type	O.D. (mm)	Max.catch size (mm)		Thread API
		Spiral grapple	Basket grapple				Spiral grapple	Basket grapple	
LT-T89	89	60	47.5	NC26	LT-T200	200	159	127	NC50
LT-T92	92	76	66.5	NC26	LT-T206	206	178	159	NC50
LT-T95	95	77.5	68	NC26	LT-T219	219	178	162	NC50
LT-T105	105	82.5	70.5	NC31	LT-T225	225	197	178	NC50
LT-T117	117	89	76	NC31	LT-T232	232	203	187	6 5/8"REG
LT-T127	127	95	79.5	NC38	LT-T244	244	213	197	6 5/8"REG
LT-T143	143	121	108	NC38	LT-T254	254	225	206	6 5/8"REG
LT-T152	152	127	114	NC38	LT-T260	260	228	210	6 5/8"REG
LT-T162	162	133.5	117.5	NC50	LT-T273	273	241	225	6 5/8"REG
LT-T168	168	140	121	NC50	LT-T286	286	245	225	6 5/8"REG
LT-T178	178	146	127	NC50	LT-T340	340	286	254	7 5/8"REG
LT-T194	194	159	140	NC50	LT-T406	406	340	286	7 5/8"REG

Specifications for work over releasing overshot

Type	O.D. (mm)	Max.catch size (mm)		Thread API	Type	O.D. (mm)	Max.catch size (mm)		Thread API
		Spiral grapple	Basket grapple				Spiral grapple	Basket grapple	
LT/S-T48A	95	60	48	NC26,2 3/8"REG	LT/S-T89A	127	95	73	NC38,3 1/2"IF
LT/S-T60	102	79	603	2 7/8"REG	LT/S-T102A	140	114	101	NC38,3 1/2"IF
LT/S-T73	114	86	73	NC31, 2 7/8"IF	LT/S-T114A	152	127	114	NC38,3 1/2"IF



8、Short Catch Overshot 短鱼头打捞筒



This short catch overshot is specifically designed to engage the exposed portion of a fish (such as upset collar ,drill joint)too short to be engaged with conventional catch overshot .

Technical specifications and parameters

No	Type	Size rangetocatch (mm)	Mini-Hole size	Length×diameter	Allowable Pull force (tf)
1	DYLT~95	48~50	4 1/2"	95*540	60
2	DYLT~105	59.7~61.3	5"	105*540	85
3	DYLT~114	72~74.5	5 1/2"	114*560	90
4	DYLT~134	87.9~90.6	6 5/8"	134*580	130
5	DYLT~145	100.4~103.2	6 5/8"	145*580	130



9、The Sucker Rod Overshot 可退式抽油杆打捞筒



The sucker rod overshot is a fishing tool designed to catch the sucker rod broken in oil tube or casing .The sucker rod overshot can catch different sizes of sucker rod when equipped with different sizes of sucker rod when equipped with different sizes of slip or guide .

Technical specifications and parameters

Type	Outside size (mm)	Thread conn .	Catch Size (mm)	Allowable Pull load (KN)	Working hole nominal size (in)	Remark
CLT01	55*406	5/8"sucker rod pin	15~16.7	392	2 1/2 tubing	The guide diameter can be enlarged when fishing in casing.
CLT02	55*406	3/4"sucker rod pin	18~19.7	392	2 1/2 tubing	
CLT03	55*406	7/8"sucker rod pin	21~22.7	392	2 1/2 tubing	
CLT04	55*406	1"sucker rod pin	24~25.7	392	2 1/2 tubing	



10、Releasing and Reversing Overshots



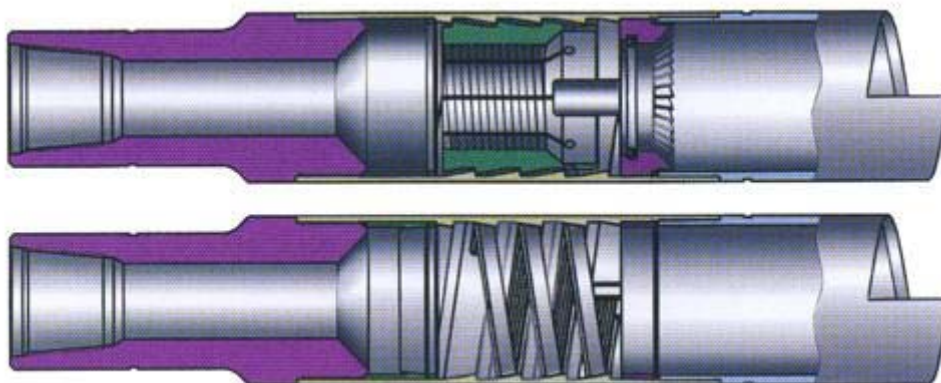
Type DLT-T Releasable Reversing Overshot ,a new type of fishing tool ,has many advantages owned by various overshot ,box tap and the like .Its distinguishing features are as follows :to unscrew and recover the stuck fish ;to release the fish down hole if necessary ;to circulate the washing fluid .

Technical specifications and parameters

Type	O.D. (mm)	Catch size (mm)	Allowable Pulling Force (KN)	Starting tensile force and applied torque		Thread Conn .
				Tensile Force (KN)	Torque (N.m)	
DLT-T48	95	47.0~49.3	250	117.7	3089	2 7/8"REG
DLT-T60	105	59.7~61.3	350	147.1	5737	2 3/8"IF (NC26)
DLT-T73	114	72.0~74.5	420	176.5	7750	2 7/8"IF (NC31)
DLT-T89	134	88~91	500	176.5	10233	3 1/2"IF (NC38)
DLT-T102	145	101~104	700	196	11032	3 1/2"IF (NC38)
DLT-T114	160	113~115	890	196	12151	3 1/2"IF (NC38)
DLT-T127	185	126~129	1200	235	13483	4 1/2"IF (NC50)
DLT-T140	200	139~142	1500	235	15298	4 1/2"IF (NC50)



11、The Slip Overshot



The slip overshoot is an unreleased tool designed to externally engage a fish .It not only can engage every kinds of oil tube ,drill pipe ,weight rod ,long plumb but also can reverse the stuck pipe string by giving torque to the stuck pipe string .

Technical specifications and parameters

No	Type	External size (mm)	Connection	Specification and performance parameter	
				Size to catch (mm)	Allowed Pull force (KN)
1	DLT-95	95*610	NC26(2A10)	32~60	400
2	DLT-108	108*610	NC31(210)	45~65	650
3	DLT-114	114*660	NC31(210)	48~73	950
4	DLT-130	130*780	NC31(210)	70~90	1100
5	DLT-150	150*970	NC38(310)	90~114	1300
6	DLT-160	160*970	NC50(410)	100~121	1400



12、The Deformed Catch Overshot



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The deformed catch overshot is an unreleased tool for fishing from outside of pipe string.

Technical specifications and parameters

Type	Allowed Tension (KN)	Applicable range		Thread Code	External size Max.D×L (mm)
		Metric O.D of pipestring (mm)	Max.size for long shaft of fish top (mm)		
WYLT-48	200	48	73	2 3/8"TBG	95*600
WYLT-60	300	60	85	NC26	107*770
WYLT-73	420	73	100	NC31	118*780
WYLT-89	450	89	116	NC31	140*782
WYLT-102	500	102	132	NC38	150*810
WYLT-114	560	114	148	NC38	165*850



13、Sliding Block Spear



The Sliding Block Spear is an internal fishing tool which is not only used for fishing of fallen objects perforated such as drill pipe, tubing, wash pipe, liner, packer, water distributor etc but also for reversing of stuck fallen objects or used with other tools such as jar and back-off tool.

Technical specifications and parameters

Type	Body O.D. (mm)	Thread Conn.	Catch I.D. (mm)	Tool Length (mm)
HLM-D(S)48	73	2 3/8 TBG	40.9	550650750 80010001200 150018002000
HLM-D(S)60	86	NC26	45-51.8	
HLM-D(S)73	105	NC31	55-62	
HLM-D(S)89	105	NC31	66.7-78	
HLM-D(S)102	105	NC31	85-92	
HLM-D(S)114	121	NC38	94-104	
HLM-D(S)127	121	NC38	105-116	
HLM-D(S)140	159	NC46	115.4-127.3	
HLM-D(S)178	165	NC50	147.2-166	



14、The Cone Fisher 牙轮打捞器



The cone fisher is a special tool for fishing of objects such as drill bit cone dropped in hole during drilling or work over operation. With strong grinding force, it is suitable for the fishing and coring in hard formation.

Technical specifications and parameters

Type	Body O.D (mm)	Steel ball diameter	Thread API	Max.Catch O.D (mm)
YDQ153	142	32	NC38	95
YDQ165	152	32	NC38	103
YDQ195	184	32	NC50	126
YDQ210	200	40	NC50	135



15、The DLQ Multi-Functional Fisher

The DLQ multi-functional fisher integrating the functions of fishing cup ,fishing magnet and claw fishing basket into an organic whole is used for fishing of fragments and objects in downhole.With advantages of simple structure, safe and reliable performance ,high fishing efficiency ,it is one of the best desired tools in cleaning of well bottom at present.



Technical specifications and parameters

Type	barrel O.D (mm)	Mill shoe O.D (mm)	Max.catch size (mm)	Suitable hole size	Thread	Magnetizing weight(kg)
DLQ190	190	193	140	8 3/8"	NC50	800
DLQ200	200	203	150	8 3/8"~8 3/4"	NC50	1000
DLQ220	220	223	165	9 1/2"~9 7/8"	NC50	1200



16、The Finger Type Fishing Basket



The finger type fishing basket is a simple structured and easy made general fishing tool specially used for fishing of down-hole irregular catches such as steel ball, valve seat, bolt, nut, paraffin cutter, tong insert, spanner and rubber, etc.

Technical specifications and parameters

Casing(in)	4 1/2	5	5 1/2	5 3/4	6 3/4	7	7 5/8	8 5/8	9 5/8
O.D(mm)	60~70	89~108	108~114	114~130	120~140	146~152	146~168	189~194	203~219
Teeth	6	6~8	6~8	6~8	8~10	8~10	10~12	10~12	12~16



17、Reversing Spear



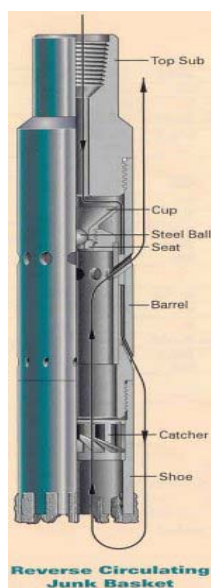
The reversing spear in reversing operation owns two functions which can go fishing and transfer left--hand torque at the same time. It s a special internal catch fishing and reversing tool which can be taken to replace taper tap and box tap with left--hand.

Technical specifications and parametes

Type	Body O. D (mm)	Connection	Catch Size (mm)
TFDM-T48	95	NC26	39.7~41.9
TFDM-T60	100	NC26	49.7~51.9
TFDM-T73	114	NC31	61.5~78
TFDM-T89	127	NC38	75~91
TFDM-T102	145	NC38	88.2~102.8
TFDM-T114	160	NC50	99.8~103
TFDM-T127	160	NC50	107~116
TFDM-T140	160	NC50	117~128
TFDM-T168	175	NC50	145~155
TFDM-T178	175	NC50	153~166



18, Finger Type Junk Basket



The finger type junk basket is a simple structured and easy made general fishing tool specially used for fishing of down-hole irregular catches such as steel balls, valve seats, bolts, nuts, paraffin cutters, tong insets, spanners and rubbers, etc.

Technical specifications and parametes

Type	Max.OD (mm)	Connection	Tooth number	Tubing /Casing size
YBZ4 1/2"	95	NC26	6	4 1/2"(Tubing)
YBZ5	103	NC26	6	5"(Casing)
YBZ5 1/2"	114	NC31	8	5 1/2"(Casing)
YBZ7	146	NC38	10	7"(Casing)
YBZ7 5/8"	164	NC46	12	7 5/8"(Casing)
YBZ8 5/8"	190	NC50	12	8 5/8"(Casing)
YBZ9 5/8"	215	NC50	16	9 5/8"(Casing)



19, Fishing Magnet



The fishing magnet is used in drilling and workover operation to catch different kinds of magnetic junks such as drill bits, palm, tooth wheels, shafts, slip inserts, drill bit tooth, tubings, casings. The fishing magnet which can do direct and reverse circulation also can catch small non-ferrous magnetic junks.

Technical specifications and parametes

Type	Max.OD (mm)	Connection API	Attracted Weight (N)		Applicable Temperature	Applicable Hole size(mm)
			A	B		
CL A(B)F86	86	NC23	7000	1500	<=210	95~110
CL A(B)F100	100	NC26	8100	1800		110~137
CL A(B)F125	125	NC31	9500	2200		137~149
CL A(B)F140	140	NC38	11000	4000		149~184
CL A(B)F175	175	NC50	18000	5000		184~216
CL A(B)F190	190	NC50	21000	6200		203~229
CL A(B)F200	200	NC50	23000	6800		216~241
CL A(B)F225	225	NC50	28000	9800		241~279
CL A(B)F265	265	6 5/8REG	38000	13000		279~311
CL A(B)F290	290	6 5/8REG	42000	14000		311~375



20、Collar Spear 接箍捞矛



The collar is a special fishing tool used to catch the fish whose top is a collar. It features that it can engage exactly the fish no matter when the collar is in larger casing annular space or in smaller pipe strings.

Technical specifications and parameters

Type	Body O.D (mm)	Connection	Catch size	Tubing/Casing size
JKLM38	38	3/4"(Rod coupling)	5/8", 3/4"(Rod coupling)	1.9TBG
JKLM46	46	1" (Rod coupling)	7/8", 1"(Rod coupling)	2 3/8"TBG
JKLM73	85	2 3/8" (TBG, BOX)	2 3/8"(Tubing coupling)	4 1/2"(Casing)
JKLM90	95	2 7/8"(TBG, BOX)	2 7/8"(Tubing coupling)	5 1/2", 5"(Casing)
JKLM107	112	3 1/2"(TBG, BOX)	3 1/2"(Tubing coupling)	5 1/2", 65/8"(Casing)
JKLM121	126	4"(TBG BOX)	4"(Tubing coupling)	6 5/8"(Casing)
JKLM133	140	4 1/2"(TBG, BOX)	4 1/2"(Tubing coupling)	6 5/8"(Casing)



21、Mechanical Internal Cutter 机械式内割刀



The mechanical internal cutter is a special tool to cut pipe in pipe string. With exception of coupling, it can cut at any position of fish. During cutting operation, the releasing spear can be connected above internal cutter, after finish cutting, pipe string above cutting position can be lifted out at a time.

Technical specifications and parameters

Type	Max.O.D (mm)	Connection	ID of Pipe String (mm)	Cutted pipe string OD
JNGD73	55	1.9"TBG	57~62	2 7/8"(Tubing)
JNGD89	64	1.9"TBG	70~78	3 1/2"(Tubing)
JNGD101	83	2 7/8"TBG	88~91	4"(Tubing)
JNGD114	86	NC26	97~105	4 1/2"(Casing)
JNGD127	102	NC26	105~115	5"(Casing)
JNGD140	112	NC31	118~128	5 1/2"(Casing)
JNGD168	138	NC38	144~153	6 5/8"(Casing)
JNGD178	145	NC38	150~166	7"(Casing)



22、Coring Tools 取芯工具



The coring tools are used for acquisition of the rock core in petroleum drilling. Everytime one to three sections of inner barrels and outer barrels can be run in core drilling. They can be applied in soft , moderate and rigid rock formations. The series of tools manufactured are as followed: Qing 84--I type , Chuan 7-4type , Chuan 8-4 type\Chuan 8-3 type.

Technical specifications and parameters

Series	Type	Outer barrel size(mm)	Inner barrel size (mm)	Section Length (mm)	O.D of Core (mm)	ID. (mm)
		OD*ID*Wall Thickness(mm)	OD*ID*Wall Thickness(mm)			
Qing84-I	Q84-I	180*144*18	127*108*9.5	9000	101.6	216~245
250P(USA)	6 3/4*4"	172*136*18	121*105*8.0	9000	101.6	190~216
Chuan8-4	CQ84	180*136*22	127*112*7.5	9000	105	216~245
Chuan8-3	CQ8105	180*144*18	127*112*7.5	9000	105	216~245
	CQ83	180*144*18	127*112*7.5	9000	105	216~245
Chuan7-4	CQ172	172*136*18	121*105*8.0	9000	101.6	190~245



23、Lifting-Lowering and Releasing Overshots



Lifting-Lowering and Releasing Overshots is used to catch tubings and equivalent size pipe strings in casing. In the event of a pipe string becoming stuck, after downjarring the pipe string and by lifting up, the tool can be lifted out.

Technical specification and parameter

Type	O.D.(mm)	Connection	Catch Size(in)
TFLT48	95	NC26	1.9
TFLT60	105	NC31	2 3/8
TFLT73	115	NC31	2 7/8
TFLT89	134	NC38	3 1/2
TFLT114	150	NC38	4 1/2



24、Internal Hook

内钩



The Internal Hook is used for inside casings or tubings to catch all kinds of ropes and fishes such as wire-lines, cables, logging steel pieces, paraffin cutters, etc. Internal hooks are available in two types: Live (adjustable) internal hook and Dead (fixed) internal hook.

Technical specification and parameter

Type	Max. O.D.(mm)	Connection(in)	Casing/Tubing size(in)
NG73	73	2 3/8 Tubing coupling	3 1/2 Tubing
NG95	95	NC26	4 1/2 Tubing
NG114	114	NC31	5 1/2 Casing
NG136	136	NC31	6 5/8 Casing
NG150	150	NC38	7 Casing
NG176	176	NC38	8 5/8 Casing
NG190	190	NC38	9 5/8 Casing



25、External Hook



The External Hook is used inside casings or tubings to catch all kinds of ropes, lifting bails, hollow short cylinders, short rope slings such as wirelines, logging steel pieces, cables, etc.

Technical specification and parameter

Type	Max. O.D.(mm)	Connection(in)	Catch size(in)
WG73	73	2 3/8 Tubing coupling	3 1/2 Tubing
WG95	95	NC26	4 1/2 Tubing
WG114	114	NC31	5 1/2 Casing
WG136	136	NC31	6 5/8 Casing
WG150	150	NC38	7 Casing
WG176	176	NC38	8 5/8 Casing
WG190	190	NC38	9 5/8 Casing



26、Cable Fishhook



The cable fishhook is used not only to catch electric pump cables or wirelines but also to catch bent sucker rods broken in casings.

Technical specification and parameter

Outside size(mm)	Connection	Catch	Casing size(in)
120 x 1800	NC31	Electric cables	5 1/2 Casing
140 x 1800	NC31	Electric cables	6 5/8 Casing
150 x 1800	NC38	Electric cables	7 Casing



27、Three-Ball Fishers



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Three-Ball Fishers is a special fishing tool designed to catch rod couplings or other tools upset shoulders.

Technical specifications and parameters

Type	O.D.(mm)	Connection	Catch Size(in)
SQ95-01	95	2 3/8TBG	5/8 rod coupling
SQ95-02	95	2 3/8TBG	3/4 rod coupling
SQ95-03	95	2 3/8TBG	7/8 rod coupling
SQ95-04	95	2 3/8TBG	1 rod coupling
SQ108	108	NC31	1 1/8 rod coupling
SQ114	114	NC31	2 3/8 tubing coupling
SQ143	143	NC38	2 7/8 tubing coupling



28、Fixed Diameter Hole Opener 三、四牙轮扩眼器



The Fixed Diameter Hole Opener is made of tough heat treated alloy steel for maximum strength. Cutter arms, equipped with removable cutter, are hardfaced and welded on body. Cutters are available in three types: type SM for soft to medium formation, type MH for medium to hard formation and type XH for hard formation. The hole openers have three or six jet tubes with replaceable nozzles, so that jet streams quickly clean the enlarged hole.

Std opening hole	Nb of cutters	Pilot hole(mini)	Fishing Neck			Bottom conn.	Bore	Overall Length	Weight with cutters (kg)approx.
			Length	Dia.	Top conn.				
17-1/2"	3	10-1/2"	18"	9-1/2"	7-5/8REG	7-5/8REG	2-1/4"	59"	550
26"	3	17-1/2"	18"	10"	7-5/8REG	7-5/8REG	3"	69"	900
36"	3	24"	20"	9"	7-5/8REG	7-5/8REG	3"	75"	1000
	4	18"	43"	10"	7-5/8REG	7-5/8REG	3-1/2"	104"	1540