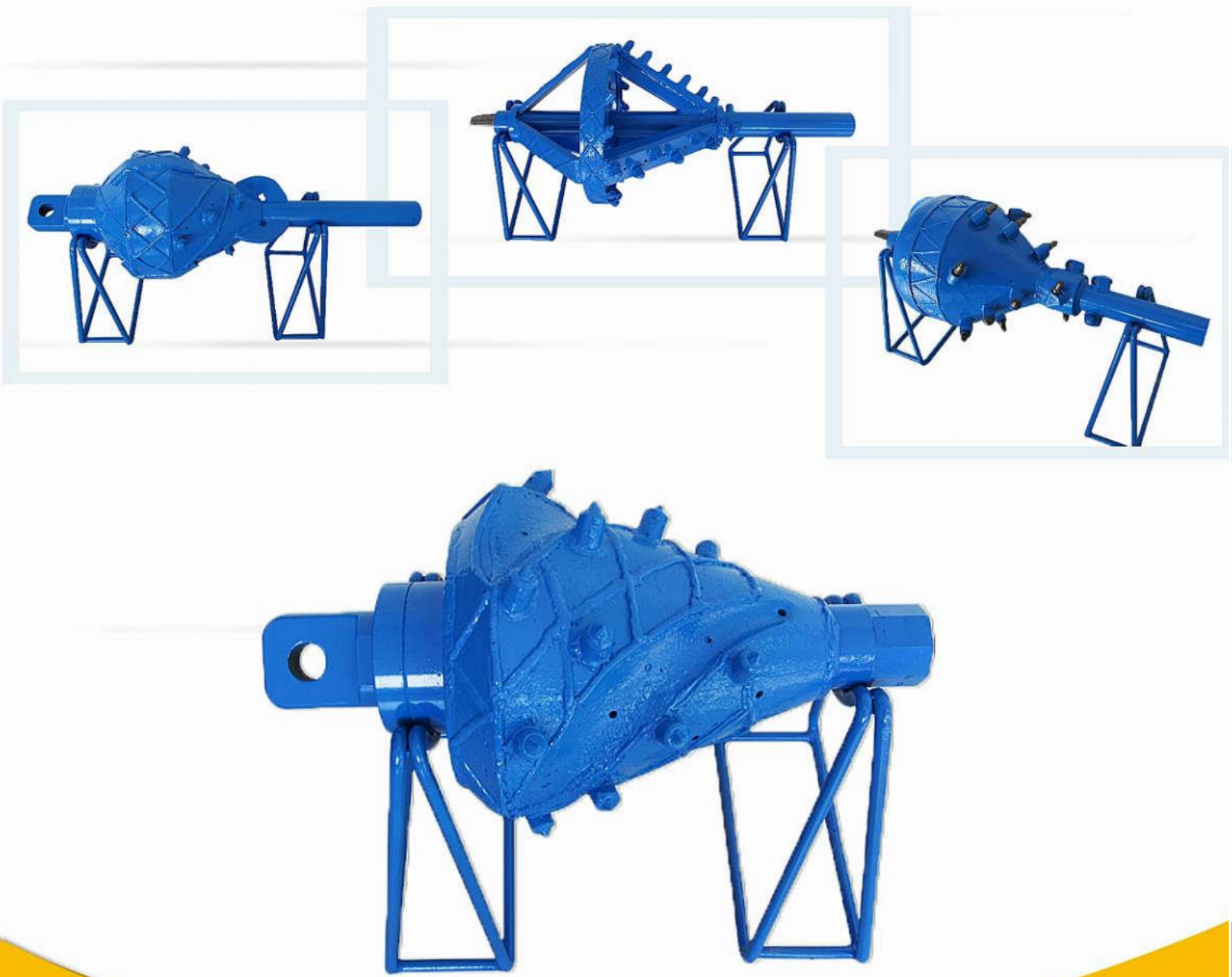




HDD Drill Product Catalogue



Global drilling industry experts

Seiko secret agents rom the products, Comay China from the highest quality of service
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> HDD Drill Pipe (integral type)



Material use OCTG, reliable performance;

Using a unique tool joints twice thicker molding technology;

Transition band is smooth , which can reduce resistance through the mud;

Thread of joints liquid nitrogen treatment, surface hardness higher, thereby pipe life is longer.

Specification of the forged drill pipe for Vermeer HDD machine

Model Of the rig	Connection	Dimension of the drilling Pipe					Tempering and Quenching	Min Bending Radius	Max Torque
		OD of the Tube	Wall Thickness	OD of the joints /upset	Working Length	Weight			
		(mm)	(mm)	(mm)	(mm)	(kg)			
D7×11, D9×13	Firestick 1	42	6.5	48	1829	12	S135	29	2000
D10×14, D10×15	Firestick 1	42	6.5	48	3048	20	S135	29	2000
D16×20, D18×22	Firestick 1	48	6.5	54	3048	23.5	S135	30	3000
D24×26	Firestick 1	54	7	57	3048	25	S135	31	4000
D24×40	Firestick 1	60.3	7.5	66.7	3048	35	S135	33	6300
D40×40	Firestick 1	60.3	7.5	66.7	4572	50	S135	33	6300
D33×44, D36×50	Firestick 1 or 2	60.3	7.5	70	3048	36	S135	33	6772
D33×44, D36×50	Firestick 1 or 2	60.3	7.5	70	4572	51	S135	33	6772
D36×50	Firestick 1	60.3	7.5	70	3048	36	S135	33	6772
D36×50	Firestick 1	60.3	7.5	70	4572	51	S135	33	6772
D36×50	Firestick 1	66.7	8	78	3048	40	S135	40	9000
D36×50	Firestick 1	66.7	8	78	4572	55	S135	40	9000
D50×100, Uni60×70	Firestick 1	73	10	83	3048	55	S135	51	16000
D50×100	Firestick 1	73	10	83	4572	78	S135	51	16000
D50×100, D80×100	Firestick 1	89	10	92	4572	96	S135	72	18000
D100×120	Firestick 2	89	10	104	6096	130	S135	72	24000
D100×120	Firestick 1	89	11.5	111.5	6096	150	S135	80	27000

Specification of the forged drill pipe for Ditch Witch HDD machine

Model Of the rig	Connection	Dimension of the drilling Pipe					Tempering and Quenching	Min Bending Radius	Max Torque
		OD of the Tube	Wall Thickness	OD of the joints /upset	Working Length	Weight			
		(mm)	(mm)	(mm)	(m)	(kg)	Grade	(m)	Nm
JT820/920	DW	42	6.5	50.8	2	13	S135	26	2000
JT920L	DW	42	6.5	50.8	3	21	S135	26	2000
JT1720 /1720M1	DW	52	6.5	63	3	25	S135	30	3200
JT2020M1	DW	60	7.5	66.7	3	35	S135	33	6300
JT2720	DW	60	7.5	70	3	36	S135	33	6772
JT2720M1/3020M1	DW	68	8	76	3	40	S135	33	7000
JT4020	DW	73	10	82.5	4.5	51	S135	51	16000
JT4020M1	DW	83	9	89	4.5	84	S135	65	18000
JT7020 /8020	DW	89	10	101.6	4.5	100	S135	72	24000

Specification of the forged drill pipe for Case HDD machine

Model Of the rig	connection	Dimension of the drilling Pipe					Tempering and Quenching	Min Bending Radius	Max Torque
		OD of the Tube	Wall Thickness	OD of the joints	Working Length	Weight			
		(mm)	(mm)	(mm)	(m)	(kg)	Grade	(m)	Nm
Case 6030	Case	60.3	7.5	66.7	3.048	35	S135	33	6300

Size	Dimension of the drilling Pipe					Small clamp space of the pin/box joints	Thread	Steel Grade	Min bending Radius	The length of the drill bent at 90°	Max bending angle	Max percentage of drill pipe	Torque
	OD of the Tube	Wall Thickness	Working length	Weight	OD of the joints								
	(mm)	(mm)	(m)	(kg)	(mm)	(mm)		(m)	(m)		(%)	(KN.m)	
50 (2")	50	6.5	2	20	57	Pin: 110 Box: 175	DH50	G S	38 30	60 47.1	3.0" 4. 8"	5.2 8.3	2.9 3
			2.5	25									
60.3 (2 3/8")	60.3	7.5	2	25.3	67	Pin: 130 Box: 180	DH60	G S	42 33	66 51.8	2.7" 5. 2"	4.8 9.1	6 6.3
			3	37									
73 (2 7/8")	73	8	3	45	80	Pin: 120 Box: 180	DH23	G S	58 45	91.1 70.7	3.0" 3. 8"	5.2 5	12 13
			4	58									
73 (2 7/8")	73	10	3	58	87	Pin: 120 Box: 180	DH26	G S	67 51	105 80	2.6" 4. 5"	4.5 7.8	14.5 16
			4	78									
83 (3 1/4")	83	9	3	59	92	Pin: 130 Box: 190	WM80	G S	73 65	114.7 102.1	2.4" 4. 0"	4.1 6.9	16.818
			4.5	84									
89 (3 1/2")	88.9	10	4.5	102	104	Pin: 150 Box: 230	DH31	G S	80 72	125.7 113	3.2" 4. 8"	5.6 8.3	22.324
			6	130									

Steel Grade	Yield strength				Tensile strength		Elongation rate	Impact work
	Min		Max		Min		Min	10×10
	Psi	Mpa	Psi	Mpa	Psi	Mpa	%	(-20℃)
iG105	105,000	724	135,000	931	115,000	793	15	≥68
S135	135,000	931	165,000	1138	145,000	1000	13	≥54

HDD Drill Pipes



> HDD Friction Welding Drill Pipe



Material use OCTG, Pipe end upsetting meet API standard; Thicker tube body quenching and heat treatment, Steel Grade up G105 or S135;

Welding area using thermo mechanical treatment, welding performance conform to API SPEC 7 Standard.

Tube						Joint							
Size	Weight	Steel Grade	Upsetting	O. D (mm)	Wall thickness of the pipe	Thread	OD of the joints d(mm)	ID of the joints d(mm)	Dimeter of the angling	Big clamp space of the pin joints LPB(mm)	Big clamp space of the box joints LPB(mm)	OD of the welding joint DTE/DPE (mm)	Bearing torque comparison
3 1/2	13.3	R	EU	88.9	9.35(11.4)	NC31	104.8	50.8	100.41	177.8	228.6	80.96	0.98
		G					104.8	50.8	100.41	177.8	228.6	80.96	0.87
		S					104.8	41.28	100.41	177.8	228.6	80.96	0.86
4	14	R	EU	101.6	8.38(9.19)	NC38	127	65.09	116.28	203.2	266.7	98.43	0.97
		G					127	61.91	116.28	203.2	266.7	98.43	0.83
		S					127	53.98	116.28	203.2	266.7	98.43	0.9
4 1/2	16.6	E	IEU	114.3	8.56	NC46	158.8	82.55	145.26	177.8	254	119.06	1.09
		X					158.8	72.6	145.26	177.8	254	119.06	1.01
		G					158.8	76.2	145.26	177.8	254	119.06	0.91
		S					158.8	69.85	145.26	177.8	254	119.06	0.81
	20	E			158.75		76.2	145.3	177.8	254	119.07	1.07	
		X			158.75		69.85	145.3	177.8	254	119.07	0.96	
		G			158.75		63.5	145.3	177.8	254	119.07	0.93	
		S			158.75		57.15	145.3	177.8	254	119.07	0.81	

Tube						Joint								
Size	Weight	Steel Grade	Upsetting	O. D (mm)	Wall thickness (mm)	Thread	OD of the joint d (mm)	ID of the joint d (mm)	Dimeter of the angling DF (MM)	Big clamp space of the pin joint LPB (mm)	Big clamp space of the box joint LPB (mm)	OD of the welding joint DTE/DPE (mm)	Bearing torque comparison	
4 1/2	16.6	E	EU	114.3	8.56	NC50	168.28	95.25	154	177.8	254	127	1.23	
		X					168.28	95.25	154	177.8	254	127	0.97	
		G					168.28	95.25	154	177.8	254	127	0.88	
		S					168.28	88.9	154	177.8	254	127	0.81	
	20	E			168.28		92.08	154	177.8	254	127	1.07		
		X			168.28		88.9	154	177.8	254	127	0.96		
		G			168.28		88.9	154	177.8	254	127	0.96		
		S			168.28		76.2	154	177.8	254	127	0.81		
5	19.5	E	IEU	127	9.19	NC50	168.28	95.25	154	177.8	254	130.18	1.23	
		X					168.28	88.9	154	177.8	254	130.18	0.97	
		G					168.28	82.5	154	177.8	254	130.18	0.88	
		S					168.28	69.85	154	177.8	254	130.18	0.81	
	25.6	E			168.28		88.9	154	177.8	254	130.18	1.02		
		X			168.28		76.2	154	177.8	254	130.18	0.96		
		G			168.28		69.85	154	177.8	254	130.18	0.86		
		S			168.28		69.85	154	177.8	254	130.18	0.87		
	19.5	E			5 1/2FH		9.19	177.8	95.25	170.7	203.2	254	130.18	1.53
		X						177.8	95.25	170.7	203.2	254	130.18	1.21
		G						177.8	95.25	170.7	203.2	254	130.18	1.09
		S						184.15	88.9	170.7	203.2	254	130.18	0.98
	25.6	E					177.8	88.9	170.7	203.2	254	130.18	1.21	
		X					177.8	88.9	170.7	203.2	254	130.18	0.95	
		G					184.15	88.9	170.7	203.2	254	130.18	0.99	
		S					184.15	82.55	170.7	203.2	254	130.18	0.83	
5 1/2	21.9	E	IEU	139.7		9.17	5 1/2FH	177.8	101.6	170.7	203.2	254	144.46	1.11
		X						177.8	95.25	170.7	203.2	254	144.46	0.98
		G						184.15	88.9	170.7	203.2	254	144.46	1.02
		S						190.5	76.2	180.2	203.2	254	144.46	0.96
	24.7	E				177.8		101.6	170.7	203.2	254	144.46	0.99	
		X				184.15		88.9	170.7	203.2	254	144.46	1.01	
		G				184.15		88.9	170.7	203.2	254	144.46	0.92	
		S				190.5		76.2	180.2	203.2	254	144.46	0.86	
6 5/8	25.2	E	168.3	6 5/8 FH	8.38	203.2	127	195.7	203.2	279.4	176.21	1.04		
		X				203.2	127	195.7	203.2	279.4	176.21	0.82		
		G				209.55	120.65	195.7	203.2	279.4	176.21	0.87		
		S				215.9	107.95	195.7	203.2	279.4	176.21	0.86		
	27.7	E			203.2	127	195.7	203.2	279.4	176.21	0.96			
		X			209.55	120.65	195.7	203.2	279.4	176.21	0.89			
		G			209.55	120.65	195.7	203.2	279.4	176.21	0.81			
		S			215.9	107.95	195.7	203.2	279.4	176.21	0.8			

> Winged Reamer ($\Phi 200$ — $\Phi 1800$)

Suitable for hard soil strata and strong-mantle rock formations.

Connection with drill rod: direct connection with drill rod;
octagonal connection

Connection with pipeline: with and without swivel.



> Sub actuator

(15T,20T,40T,60T,80T,100T,200T,300T,400T,500T,600T,700T,800T)

By using the latest optimization design, greatly improving the service life of the actuator, and minimizing the risk of the construction.



> Slider & Shackle

Slider using alloy steel and heat treatment,
the shackle using bow cross pin with nut for high safety.



> Oriented Drill

Oriented drill (2 3/8 ~ 6 5/8FH)

Connection: Direct connection with drill pipe,
octagonal connection, side-opening

Signal bar handling mode: rear-mounted, side-mounted



> Cutting Blade

The user can choose different cutting blades according to different geological conditions to improve cutting efficiency of the reamer.



HDD Drill Tools

> Drill Collar

Using heat-treated high quality alloy steel, high strength and durability.



> Reamer

Ripper Reamer ($\Phi 200$ — $\Phi 1800$)

Suitable for soft soil strata.

Connection with drill rod : direct connection with drill rod; octagonal connection;

Connection with pipeline: with and without swivel.

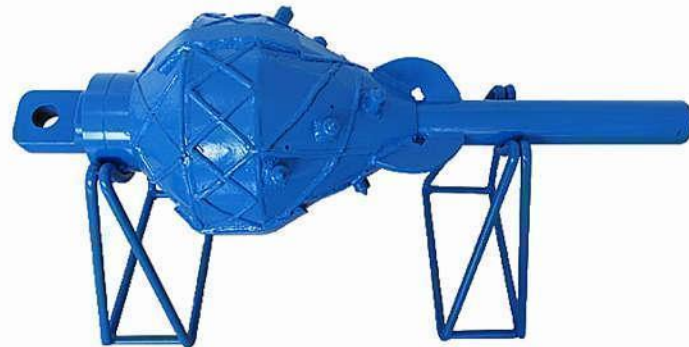


~ Barrel Reamer($\Phi 200$ — $\Phi 1800$)

Suitable for soft soil strata.

Connection with drill rod : direct connection with drill rod; octagonal connection

Connection with pipeline: with and without swivel



~ Fluted Reamer ($\Phi 200$ — $\Phi 1800$)

Suitable for sand and medium to very hard soil strata

Structure: Steel Casting

Connection with drill rod : direct connection with drill rod; octagonal connection

Connection with pipeline: with and without swivel



Globe Drilling Industry Experts

No matter what kinds of rock-Soft rock,loose-mediumrock, hard rock and other special formations, just tell us what you need, our special tailored service is waiting for you upon you demand.



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