



HDD Accessories



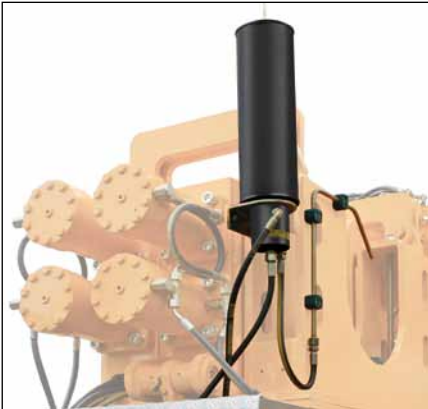


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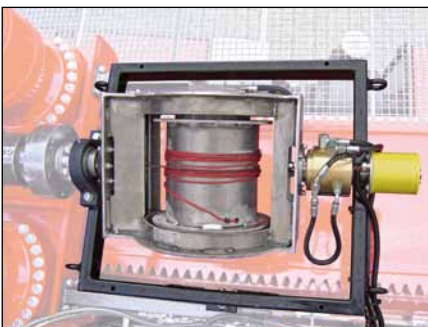
1. Drill rod supplies

part no.	for Ø	for length	loading capacity
GZ-100-0926	88.9 mm/ 3 1/2"	5,000 mm/ 9,600 mm	5 pcs
GZ-100-0914	127 mm/ 5"	5,000 mm/ 9,600 mm	5 pcs
GZ-100-07-0075	168.3 mm/ 6 5/8"	5,000 mm/ 9,600 mm	4 pcs



2. Drill rod lubrication

part no.	drive	output	package size
PD-022-10000	hydraulic	1 cm ³ /pass	4 kg



3. Cable reel passes

part no.	kind of drive	drum Ø	cable length
PD-400-0700-0	mechanical	70/350 mm	500 m
PD-400-0700-1	hydraulic	260/330 mm	100 m

Spare parts

part no.	components		
PD-179-10001	rubber ball		
PD-179-10010	rotary transmission leadthrough		
PD-179-10000	slip ring body		



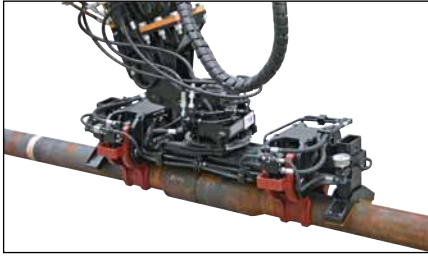
4. Drill data transmission systems

part no.	slip ring Ø		
PD-250-08-01-28	250 mm		
PD-100-08-01-28	208 mm		
PD-80-08-01-28	163 mm		



5. Drill rod cranes

part no.	extension hydr./mech.	capacity	weight
PD-210-10003	3.15 m / 4.2 m	1.7 tm	210 kg
PD-210-10001	6 m / 9.3 m	3.5 tm	510 kg
PD-210-10000	7.4 m / 9.5 m	5 tm	760 kg
PD-210-10002	9.8 m / 11.9 m	10 tm	1,230 kg
PD-210-10004	15.1 m / 17.4 m	13 tm	2,130 kg
PD-210-10005	15.1 m / 17.4 m	15 tm	2,260 kg



6. Drill rod grippers 3D

part no.	gripping Ø	bearing load	
GR-20-0015	88.9 mm/ 3 1/2"	1,000 kg	
GR-20-0001	127 mm/ 5"	1,000 kg	
GR-20-0011	168.3 mm/ 6 5/8"	1,000 kg	



7. Drill rod magazines

part no.	drill rod length	thread connection Ø	quantity
PD-07-01-01	5,000 mm	2 7/8" IF	16 pcs
PD-07-01-02	6,000 mm	2 7/8" IF	16 pcs
PD-07-01-03	5,000 mm	3 1/2" IF	16 pcs
PD-07-01-04	6,000 mm	3 1/2" IF	16 pcs
PD-07-01-05	5,000 mm	4 1/2" IF	12 pcs
PD-07-01-06	6,000 mm	4 1/2" IF	12 pcs



8. Drill data loggings

part no.	digital logging data	unit	
PD-318-10000	pull force	kN	
	feeding	kN	
	speed	r/min	
	torque	kNm	
	bentonite quantity	l/min	
	bentonite pressure	bar	
	feeding speed	m/min	
	drill length	m	
	PD-318-10001	as PD-318-10000 including modem for remote transmission	



9. Clamping devices at the power rotary heads

part no.	clamping Ø	drill rods	
KV-75-0130-023	105 - 215 mm	2 7/8" IF / 3 1/2" IF	
KV-150-0135-041	105 - 215 mm	4 1/2" IF	
PD-250-12-01-19	127 - 254 mm	6 5/8" FH	



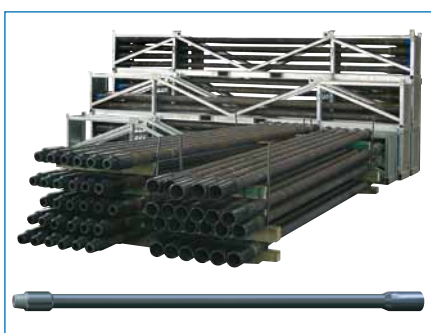
10. High pressure purifier

part no.	kind of drive	output	operating pressure
PD-021-10003	hydraulic	14.6 l/min.	140 bar



11. Bentonite supplies

part no.	bentonite gate	supply / forwarding Ø	bypass Ø
PD-170-10000	2"	2" / 2"	2"
PD-170-10001	3"	3" / 2 x 2"	2"
PD-170-10002	4"	4" / 4 x 2"	2"
PD-170-10003	5"	5" / 6 x 2"	2"

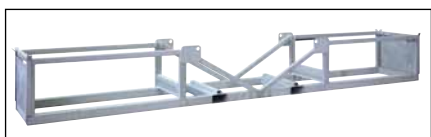


12. Drill rods

part no.	size	rod length (mm)	thread connection Ø	weight
PD-253-10002	3 1/2"	5,000 mm	2 7/8" IF	115 kg
PD-253-10007	3 1/2"	6,000 mm	2 7/8" IF	130 kg
PD-253-10003	3 1/2"	5,000 mm	3 1/2" IF	125 kg
PD-253-10008	3 1/2"	6,000 mm	3 1/2" IF	140 kg
PD-253-10004	5"	5,000 mm	4 1/2" IF	190 kg
PD-253-10009	5"	6,000 mm	4 1/2" IF	205 kg
PD-253-10024	6 5/8"	9,600 mm	4 1/2" IF	315 kg
PD-253-10025	6 5/8"	9,600 mm	6 5/8" FH	485 kg

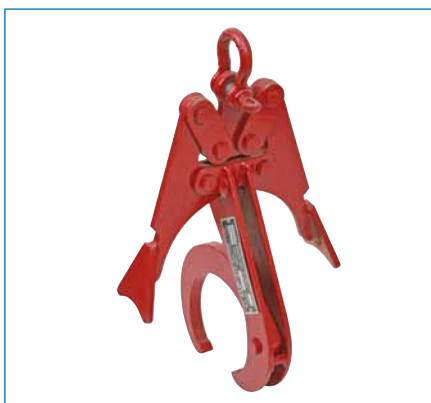
Copper paste

part no.	description	weight		
PD-142-10000	drill rod grease	23 kg		



13. Drill rod boxes

part no.	for rod length	thread Ø	quantity
PD-259-10007	5,000 mm	2 7/8" IF	30 pcs
PD-259-10008	6,000 mm	2 7/8" IF	30 pcs
PD-259-10009	5,000 mm	3 1/2" IF	20 pcs
PD-259-10010	6,000 mm	3 1/2" IF	20 pcs
PD-259-10011	5,000 mm	4 1/2" IF	12 pcs
PD-259-10012	6,000 mm	4 1/2" IF	12 pcs



14. Drill rod grippers

part no.	rod Ø	lifting capacity	
PD-254-10005	88.9 mm / 3 1/2"	205 kg	
PD-254-10007	127 mm / 5"	340 kg	
PD-254-10008	168.3 mm / 6 5/8"	500 kg	

15. Roller bits

soft – medium-hard ground

part no.	Ø	external thread Ø	weight
PD-252-10020	4 ¾" / 120 mm	2 7/8" Reg	9 kg
PD-252-10021	6 ¼" / 158 mm	3 ½" IF	23 kg
PD-252-10022	8 ½" / 216 mm	4 ½" Reg	43 kg
PD-252-10023	9 7/8" / 250 mm	6 5/8" Reg	67 kg

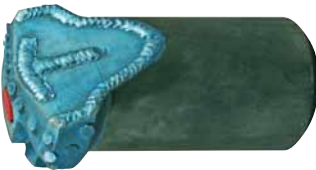


middle-hard ground

PD-252-10024	4 ¾" / 120 mm	2 7/8" Reg	9 kg
PD-252-10025	6 ¼" / 158 mm	3 ½" IF	25 kg
PD-252-10026	8 ½" / 216 mm	4 ½" Reg	45 kg
PD-252-10027	9 7/8" / 250 mm	6 5/8" Reg	70 kg

hard ground

PD-252-10028	4 ¾" / 120 mm	2 7/8" Reg	9 kg
PD-252-10029	6 ¼" / 158 mm	3 ½" IF	25 kg
PD-252-10030	8 ½" / 216 mm	4 ½" Reg	45 kg
PD-252-10031	9 7/8" / 250 mm	6 5/8" Reg	70 kg



16. Deflect drill bits standard

part no.	Ø	internal thread Ø	weight
BW-01-01-15	5 ½" / 140 mm	2 7/8" Reg	13 kg
BW-01-01-14	6 ½" / 160 mm	3 ½" IF	24 kg
BW-01-01-13	7 7/8" / 200 mm	4 ½" Reg	47 kg



17. Deflect drill bits with exchangeable plate

part no.	Ø	internal thread Ø	weight
BW-01-01-11	5 ½" / 140 mm	2 7/8" Reg	21 kg
BW-01-01-09	6 ½" / 160 mm	3 ½" IF	34 kg
BW-01-01-03	7 7/8" / 200 mm	4 ½" Reg	63 kg



18. Deflect drill bits with round shaft chisel

part no.	Ø	internal thread Ø	weight
BW-01-01-10	5 ½" / 140 mm	2 7/8" Reg	13 kg
BW-01-01-08	6 ½" / 160 mm	3 ½" IF	23 kg
BW-01-01-06	7 7/8" / 200 mm	4 ½" Reg	49 kg



19. Deflect drill bits with diamond facing

part no.	Ø	internal thread Ø	weight
BW-01-01-16	3 ¾" / 80 mm	2 7/8" Reg	
BW-01-01-17	3 ½" / 90 mm	3 ½" IF	

20. Bent subs



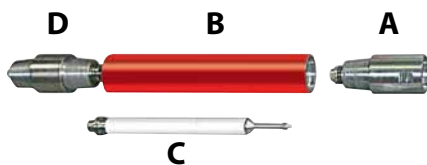
part no.	Ø	thread box-box Ø	weight
PD-255-10000	4 1/8" / 105 mm	2 3/8" Reg - 2 7/8" Reg	30 kg
PD-255-10001	4 3/4" / 120 mm	3 1/2" IF - 3 1/2" Reg	110 kg
PD-255-10002	6 1/2" / 165 mm	4 1/2" Reg - 4 1/2" Reg	160 kg

21. Sonde housings complete



part no.	Ø	thread box-pin Ø	weight
PD-251-10001	4 1/8" / 105 mm	2 3/8" IF - 2 3/8" Reg	35 kg
PD-251-10002	4 3/4" / 120 mm	3 1/2" IF - 3 1/2" IF	58 kg
PD-251-10003	6 1/2" / 165 mm	4 1/2" IF - 4 1/2" Reg	90 kg

consisting in:



part no.	Ø	components	(D / B / A / C)
PD-251-10006	4 1/8" / 105 mm	rear cap	A
PD-251-10007	4 3/4" / 120 mm	rear cap	A
PD-251-10008	6 1/2" / 165 mm	rear cap	A
PD-251-10009	4 1/8" / 105 mm	liner	B
PD-251-10010	4 3/4" / 120 mm	liner	B
PD-251-10005	6 1/2" / 165 mm	liner	B
PD-251-10011	4 1/8" / 105 mm	sonde capsule	C
PD-251-10012	4 3/4" / 120 mm	sonde capsule	C
PD-251-10000	6 1/2" / 165 mm	sonde capsule	C
PD-251-10013	4 1/8" / 105 mm	front cap	D
PD-251-10014	4 3/4" / 120 mm	front cap	D
PD-251-10015	6 1/2" / 165 mm	front cap	D



22. Mud motors

part no.	external Ø	flow rate (l/min)	Rotary speed (rpm)	torque (Nm)	power (kW)	length (mm)
PD-256-10000	6 1/2" / 6,75"	1,136 - 2,271	60 - 162	5,640 - 4,474	35 - 67	8,426

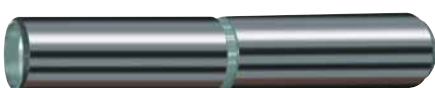
further mud motors on enquiry



23. Non magnetic drill rods

part no.	rod Ø	thread Ø	length	weight
PD-253-10012	4 1/8" / 105 mm	2 7/8" IF pin-box	4,500 mm	100 kg
PD-253-10013	4 3/4" / 120 mm	3 1/2" IF pin-box	4,500 mm	400 kg
PD-253-10014	6 3/4" / 170 mm	4 1/2" IF pin-box	4,500 mm	650 kg
PD-253-10015	8" / 203 mm	6 3/8" Reg pin-box	9,000 mm	2,050 kg

Non magnetic bent subs



part no.	rod Ø	thread Ø		
PD-253-10030	4 1/8" / 105 mm	2 7/8" IF pin-box		
PD-253-10031	4 3/4" / 120 mm	3 1/2" IF pin-box		
PD-253-10032	6 3/4" / 170 mm	4 1/2" IF pin-box		
PD-253-10033	8" / 203 mm	6 3/8" Reg pin-box		



24. F2 locating system

part no.	components		
PD-257-10020	receiver		
PD-257-10021	display		
PD-257-10022	battery charger		
PD-257-10023	repair kit		
PD-257-10024	tool set		



25. Eclipse locating system

part no.	components		
PD-257-10005	receiver		
PD-257-10006	display		
PD-257-10007	battery charger		
PD-257-10008	repair kit		
PD-257-10009	tool set		



26. Transmitter Mark I, II, III, F2

part no.	transmitter type (colour)	length x Ø	signal range	type of battery	nominal temperature (max.)	weight
PD-257-10010	transmitter yellow	38 x 3.125 cm	12.2 m	2 x alkali	104 °C	635 g
PD-257-10011	transmitter red short	38 x 3.125 cm	21.3 m	2 x alkali	104 °C	635 g
PD-257-10012	transmitter red long	48 x 3.125 cm	21.3 m	4 x alkali	104 °C	840 g
PD-257-10013	cable transmitter green	38 x 3.125 cm	42.7 m	12 V a 28 V DC	82 °C	545 g
PD-257-10025	transmitter grey	48 x 3.125 cm	25.9 m	Supercell	104 °C	840 g



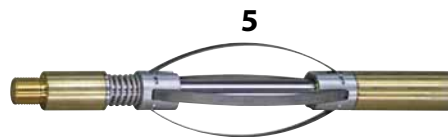
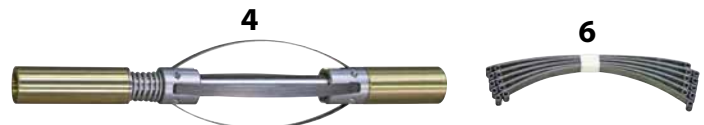
27. Transmitter Eclipse

part no.	transmitter type (colour)	length x Ø	signal range	type of battery	nominal temperature (max.)	weight
PD-257-10014	transmitter black	38 x 3.125 cm	15.2 m	2C-cell alkaline	104 °C	635 g
PD-257-10015	transmitter lilac	38 x 3.125 cm	15.2 / 31.3 m	2C-cell alkaline	104 °C	635 g
PD-257-10016	cable transmitter black	48 x 3.125 cm	30.5 m	12 V a 28 V DC	82 °C	840 g



28. Control unit

part no.	description	fig. no.	
PD-257-10017	interface	1	
PD-257-10018	drillers console	2	
PD-257-10036	steering tool	3	
PD-257-10019	upper centering	4	
PD-257-10020	lower centering	5	
PD-257-10022	replacement spring	6	
PD-257-10021	wet connector	7	
PD-257-10023	pack offs	8	
PD-257-10026	probe case	9	
PD-257-10024	cable drum	10	
PD-257-10025	ampere strippers	11	



29. Measurement cable components

part no.	description	fig. no.	
PD-257-10027	measurement cable	1	
PD-257-10028	butt connector	2	
PD-257-10029	shrink hose	3	
PD-257-10030	insulation strippers	4	
PD-257-10031	crimper	5	
PD-257-10032	hot air gun	6	
PD-257-10033	spider for 2 7/8" IF rods	7	
PD-257-10034	spider for 3 1/2" IF rods	8	
PD-257-10035	spider for 4 1/2" IF rods	9	



30. Fly-Cutters

part no.	Ø	thread pin x box
PD-105-0300	300 mm	2 7/8" IF
PD-278-0450	450 mm	2 7/8" IF
PD-278-0600	600 mm	2 7/8" IF
PD-278-0750	750 mm	2 7/8" IF
PD-105-0900	900 mm	2 7/8" IF
PD-312-0300	300 mm	3 1/2" IF
PD-312-0450	450 mm	3 1/2" IF
PD-312-0600	600 mm	3 1/2" IF
PD-312-0750	750 mm	3 1/2" IF
PD-312-0900	900 mm	3 1/2" IF
PD-312-1050	1,050 mm	3 1/2" IF
PD-165-0400	400 mm	4 1/2" IF
PD-165-0600	600 mm	4 1/2" IF
PD-165-0800	800 mm	4 1/2" IF
PD-165-1000	1,000 mm	4 1/2" IF
PD-165-1200	1,200 mm	4 1/2" IF
PD-165-1400	1,400 mm	4 1/2" IF
PD-165-1600	1,600 mm	4 1/2" IF
PD-658-0600	600 mm	6 5/8" FH
PD-658-0800	800 mm	6 5/8" FH
PD-658-1000	1,000 mm	6 5/8" FH
PD-658-1200	1,200 mm	6 5/8" FH
PD-658-1400	1,400 mm	6 5/8" FH
PD-658-1600	1,600 mm	6 5/8" FH
PD-658-1800	1,800 mm	6 5/8" FH

31. Barrel-Reamers

part no.	Ø	thread pin x box
br-10-01-01/1	300 mm	2 7/8" IF
br-10-01-02/1	450 mm	2 7/8" IF
br-10-01-03/1	450 / 600 mm	2 7/8" IF
br-10-01-04/1	600 / 750 mm	2 7/8" IF
br-10-01-05/1	750 / 900 mm	2 7/8" IF
br-10-01-01/2	300 mm	3 1/2" IF
br-10-01-02/2	450 mm	3 1/2" IF
br-10-01-03/2	450 / 600 mm	3 1/2" IF
br-10-01-04/2	600 / 750 mm	3 1/2" IF
br-10-01-05/2	750 / 900 mm	3 1/2" IF
br-10-01-06/2	900 / 1,050 mm	3 1/2" IF
br-10-01-02/3	400 mm	4 1/2" IF
br-10-01-03/3	400 / 600 mm	4 1/2" IF
br-10-01-04/3	600 / 800 mm	4 1/2" IF
br-10-01-06/3	800 / 1,000 mm	4 1/2" IF
br-10-01-08/3	1,000 / 1,200 mm	4 1/2" IF
br-10-01-09/3	1,200 / 1,400 mm	4 1/2" IF
br-10-01-10/3	1,400 / 1,600 mm	4 1/2" IF
br-11-01-01	600 mm	6 5/8" FH
br-11-01-02	600 / 800 mm	6 5/8" FH
br-11-01-03	800 / 1,000 mm	6 5/8" FH
br-11-01-04	1,000 / 1,200 mm	6 5/8" FH
br-11-01-05	1,200 / 1,400 mm	6 5/8" FH
br-11-01-06	1,400 / 1,600 mm	6 5/8" FH
br-11-01-07	1,600 / 1,800 mm	6 5/8" FH



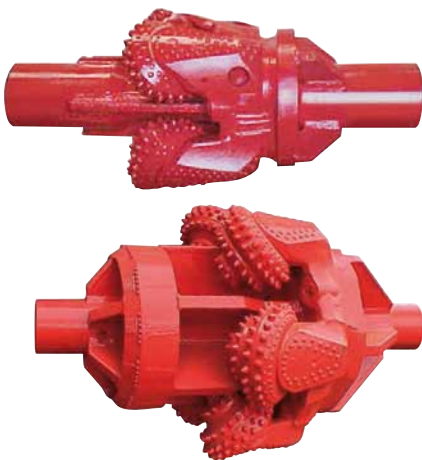
32. Nozzles

part no.	nozzle Ø		
PD-153-10007	3 mm		
PD-153-10008	4 mm		
PD-153-10005	5 mm		
PD-153-10004	6 mm		
PD-153-10009	7 mm		
PD-153-10003	8 mm		
PD-153-10010	9 mm		
PD-153-10000	10 mm		
PD-153-10006	nozzle key		



33. Hard metal facings

part no.	type of facing	sizes	fig. no.
PD-150-10002	round shaft chisel	Ø 18.65/16 x 83.5 mm	1
PD-150-10001	chisel holder	Ø 42 mm	2
PD-150-10003	hard metal tooth	65 x 31 x 25 mm	3
PD-150-10000	wearing plate	19 x 25 x 51 mm	4
PD-150-10008	wearing plate	19 x 25 x 100 mm	5



34. Hole Openers with TCI bits

for hard and solid geological formation

part no.	Ø	thread pin x box Ø	
PD-802-10000	8 ¾" / 222 mm	2 7/8" Reg	
PD-802-10001	10" / 254 mm	2 7/8" Reg	
PD-802-10002	12" / 305 mm	2 7/8" Reg	
PD-802-10003	15" / 380 mm	3 ½" IF	
PD-802-10004	17 ½" / 445 mm	3 ½" IF	
PD-802-10005	20" / 508 mm	3 ½" IF	
PD-802-10006	22" / 559 mm	3 ½" IF	
PD-802-10007	24" / 610 mm	4 ½" IF	
PD-802-10008	26" / 660 mm	4 ½" IF	
PD-802-10009	30" / 762 mm	4 ½" IF	



35. Milled Tooth Hole Openers

for soft geological formation

part no.	Ø	thread pin x box Ø	
PD-802-10010	15" / 381	6 5/8" Reg	
PD-802-10011	17 ½" / 445	6 5/8" Reg	
PD-802-10012	20" / 508	6 5/8" Reg	
PD-802-10013	26" / 660	7 5/8" Reg	
PD-802-10014	30" / 762	7 5/8" Reg	
PD-802-10015	36" / 914	7 5/8" Reg	
PD-802-10016	42" / 1,067	7 5/8" Reg	
PD-802-10017	48" / 1,220	7 5/8" Reg	
PD-802-10018	54" / 1,372	7 5/8" Reg	
PD-802-10019	60" / 1,524	7 5/8" Reg	



36. Swivel: spade x spade

part no.	max. tensile load	weight	
PD-250-10004	25 t	39 kg	
PD-250-10005	32 t	68 kg	
PD-250-10006	50 t	113 kg	
PD-250-10007	65 t	172 kg	



37. Swivel: spade x box

part no.	max. tensile load	thread connection Ø	weight
PD-250-10008	25 t	2 7/8" IF	43 kg
PD-250-10009	25 t	3 1/2" IF	45 kg
PD-250-10010	32 t	3 1/2" IF	80 kg
PD-250-10011	32 t	4 1/2" IF	82 kg
PD-250-10012	50 t	4 1/2" IF	114 kg
PD-250-10013	65 t	4 1/2" IF	177 kg
PD-250-10000	100 t	4 1/2" IF	190 kg
PD-250-10002	150 t	4 1/2" IF	260 kg
PD-250-10003	200 t	6 3/8" Reg	390 kg
PD-250-10001	320 t	7 3/8" Reg	770 kg
PD-250-10014	450 t	7 3/8" Reg	1,230 kg
PD-250-10015	640 t	7 3/8" Reg	1,880 kg



38. Cardan links

part no.	max. tensile load		
PD-250-10017	25 t		
PD-030-12704	32 t		
PD-060-12710	50 t		
PD-075-16816	65 t		
PD-075-20610	100 t		
PD-165-27501	150 t		
PD-05-0001	200 t		
PD-0350-23501	320 t		
PD-05-0018	450 t		
PD-05-0019	640 t		



39. Cross over: spade x box

part no.	max. tensile load	thread connection Ø	
PD-030-10502	25 t	2 7/8" IF	
PD-05-0020	25 t	3 1/2" IF	
PD-030-12702	32 t	3 1/2" IF	
PD-05-0021	32 t	4 1/2" IF	
PD-055-127-02	50 t	4 1/2" IF	
PD-075-16817	65 t	4 1/2" IF	
PD-05-0036	100 t	4 1/2" IF	
PD-05-0022	150 t	6 3/8" Reg	
PD-05-0023	200 t	6 3/8" Reg	
PD-05-0024	320 t	7 3/8" Reg	
PD-05-0025	450 t	7 3/8" Reg	
PD-05-0026	640 t	7 3/8" Reg	



40. Cross over: spade x pin

part no.	max. tensile load	thread connection Ø	
PD-030-10501	25 t	2 7/8" IF	
PD-05-0027	25 t	3 1/2" IF	
PD-030-12701	32 t	3 1/2" IF	
PD-05-0028	32 t	4 1/2" IF	
PD-05-0029	50 t	4 1/2" IF	
PD-05-0030	65 t	4 1/2" IF	
PD-05-0037	100 t	4 1/2" IF	
PD-05-0031	150 t	6 5/8" Reg	
PD-05-0032	200 t	6 5/8" Reg	
PD-05-0033	320 t	7 5/8" Reg	
PD-05-0034	450 t	7 5/8" Reg	
PD-05-0035	640 t	7 5/8" Reg	



41. Saver subs: pin x pin

part no.	for HDD type	thread Ø	usable length
PD-bk18-0124	PD 40	2 7/8" IF	200 mm
PD-060-12706	PD 60	3 1/2" IF	200 mm
PD-bk100-0128	PD 80 - 150	4 1/2" IF	250 mm
PD-bk67-0125	PD 200 - 460	6 5/8" FH	300 mm



42. Double sockets: box x box

part no.	thread Ø	usable length	
PD-030-10507	2 7/8" IF	300 mm	
PD-60-012705	3 1/2" IF	430 mm	
PD-75-16805	4 1/2" IF	480 mm	
PD-220-20334	5 1/2" IF	450 mm	
PD-220-20303	6 5/8" FH	450 mm	



43. Cross over: outside x inside

part no.	thread Ø	usable length	
PD-030-10503	2 7/8" IF - 2 7/8" IF	200 mm	
PD-060-12703	3 1/2" IF - 3 1/2" IF	200 mm	
PD-075-16807	4 1/2" IF - 4 1/2" IF	250 mm	
PD-02-0031	5 1/2" IF - 5 1/2" IF	300 mm	
PD-220-20318	6 5/8" FH - 6 5/8" FH	300 mm	



44. Cross over: box x pin

part no.	thread Ø	usable length	
PD-030-10504	2 7/8" IF - 2 7/8" IF	200 mm	
PD-060-12713	2 7/8" IF - 3 1/2" IF	220 mm	
PD-075-16820	2 7/8" IF - 4 1/2" IF	290 mm	
PD-02-0013	2 7/8" IF - 5 1/2" IF	450 mm	
PD-220-20315	2 7/8" IF - 6 5/8" FH	400 mm	
PD-060-12714	3 1/2" IF - 2 7/8" IF	220 mm	
PD-060-12709	3 1/2" IF - 3 1/2" IF	220 mm	
PD-075-16808	3 1/2" IF - 4 1/2" IF	250 mm	
PD-02-0014	3 1/2" IF - 5 1/2" IF	300 mm	
PD-02-0015	3 1/2" IF - 6 5/8" FH	300 mm	
PD-075-16809	4 1/2" IF - 2 7/8" IF	290 mm	
PD-075-16813	4 1/2" IF - 3 1/2" IF	250 mm	
PD-075-16811	4 1/2" IF - 4 1/2" IF	250 mm	
PD-020016	4 1/2" IF - 5 1/2" IF	300 mm	
PD-220-20307	4 1/2" IF - 6 5/8" FH	405 mm	
PD-02-0017	5 1/2" IF - 2 7/8" IF	300 mm	
PD-02-0018	5 1/2" IF - 3 1/2" IF	300 mm	
PD-02-0019	5 1/2" IF - 4 1/2" IF	300 mm	
PD-02-0020	5 1/2" IF - 5 1/2" IF	300 mm	
PD-02-0021	5 1/2" IF - 6 5/8" FH	300 mm	
PD-220-20326	6 5/8" FH - 2 7/8" IF	225 mm	
PD-02-0022	6 5/8" FH - 3 1/2" IF	300 mm	
PD-220-20305	6 5/8" FH - 4 1/2" IF	300 mm	
PD-02-0023	6 5/8" FH - 5 1/2" IF	300 mm	
PD-220-21602	6 5/8" FH - 6 5/8" FH	300 mm	
PD-02-0007	4 1/2" IF - 6 5/8" Reg	300 mm	
PD-02-0008	5 1/2" IF - 6 5/8" Reg	300 mm	
PD-02-0009	6 5/8" FH - 6 5/8" Reg	300 mm	
PD-02-0010	4 1/2" IF - 7 5/8" Reg	300 mm	
PD-02-0011	5 1/2" IF - 7 5/8" Reg	300 mm	
PD-02-0012	6 5/8" FH - 7 5/8" Reg	300 mm	



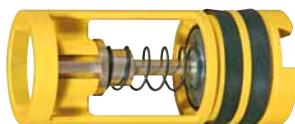
45. Cross over for check valve: (box side)

part no.	thread Ø	usable length	
PD-030-10505	2 7/8" IF - 2 7/8" IF	290 mm	
PD-060-12704	3 1/2" IF - 3 1/2" IF	320 mm	
PD-075-16801	4 1/2" IF - 4 1/2" IF	480 mm	
PD-02-0026	5 1/2" IF - 5 1/2" IF	500 mm	
PD-220-20330	6 5/8" FH - 6 5/8" FH	590 mm	



46. Cross over for check valve: (pin side)

part no.	thread Ø	usable length	
PD-02-0024	2 7/8" IF - 2 7/8" IF	300 mm	
PD-060-12707	3 1/2" IF - 3 1/2" IF	320 mm	
PD-075-16802	4 1/2" IF - 4 1/2" IF	480 mm	
PD-02-0025	5 1/2" IF - 5 1/2" IF	450 mm	
PD-220-20329	6 5/8" FH - 6 5/8" FH	450 mm	



47. Check valves for cross over

part no.	thread Ø	usable length	
PD-041-10000	2 7/8" IF	48.42 x 158.75 mm	
PD-041-10035	3 1/2" IF	61.12 x 165.10 mm	
PD-041-10013	4 1/2" IF	88.12 x 211.14 mm	
PD-041-10036	5 1/2" IF	98.43 x 254 mm	
PD-041-10009	6 5/8" FH	121.44 x 298.45 mm	



48. Breakout units

part no.	clamp Ø	drill rods	breaking torque
SK-100-01-12	76 - 210 mm	2 7/8" - 3 1/2"	75 kN/m
SK-075-01-12	89 - 310 mm	4 1/2"	100 kN/m
SK-150-12-02-12	89 - 410 mm	6 5/8"	180 kN/m

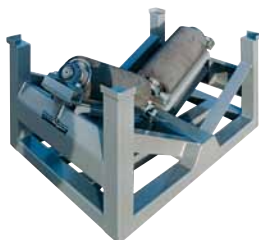
49. Ridgid tongs



part no.	size	grip Ø	torque max.	weight
PD-254-10009	24" steel	3"	3,163 Nm	2.7 kg
PD-254-10003	36" aluminium	4"	2,825 Nm	5.0 kg
PD-254-10010	36" steel	4"	5,141 Nm	8.7 kg
PD-254-10011	48" aluminium	6"	5,254 Nm	8.4 kg
PD-254-10000	48" steel	6"	5,875 Nm	15.6 kg
PD-254-10002	60" steel	8"	6,779 Nm	23.3 kg

50. Chain tongs with hydraulic operation

part no.	grip Ø	torque max.	weight
PD-254-10013	2 1/8" - 4 7/8"	10,000 Nm	100 kg
PD-254-10012	3 1/4" - 5 1/4"	20,000 Nm	140 kg
PD-254-10001	4" - 8 1/4"	67,800 Nm	260 kg
PD-254-10004	4" - 12"	122,000 Nm	370 kg



51. Roller block

part no.	loading weight max.	diameter max.
PD-158-10000	10,000 kg	1,200 mm



52. Roller cradles

part no.	size
PD-158-10001	6 - 12"
PD-158-10002	12 - 24"
PD-158-10003	24 - 36"
PD-158-10004	36 - 48"
PD-158-10005	48 - 62"



53. Transfer pumps

part no.	output	engine capacity
PD-023-10002	500 - 1,000 l/min	30 kW
PD-023-10001	1,000 - 1,500 l/min	37 kW
PD-023-10000	2,000 - 2,500 l/min	55 kW

Spare parts HDD rigs

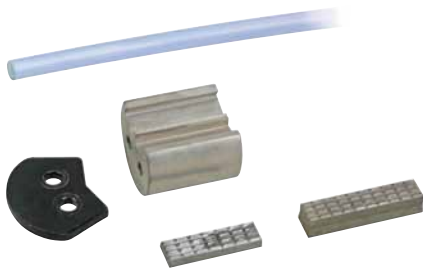


54. Clamping jaws complete



part no.	size	drilling rig	
PD-150-12-01-24	Ø 100 x 99 mm	PD 32 - PD 100	
PD-150-12-01-13	Ø 100 x 132 mm	PD 150 - PD 200	
PD-450-12-01-13	Ø 120 x 132 mm	PD 250 - PD 600	

55. Clamping jaw spare parts



clamping jaw part no.	size
PD-152-10000	Ø 100 x 99 mm
PD-151-10000	Ø 100 x 132 mm
PD-151-10002	Ø 120 x 132 mm

holding disc part no.	for Ø
kv25-0116	100 mm
kv100-0156-2	120 mm

tong dies part no.	size
PD-151-10000	½" - 1 ¼" - 3 ⅞"
PD-151-10001	1" - 1 ¼" - 3 ⅞"
PD-151-10002	½" - 1 ¼" - 5"
PD-151-10003	1" - 1 ¼" - 5"

safety string part no.	size
PD-190-10000	Ø 8 x 1,000 mm



56. Guidance rollers

part no.	Ø	drilling rig	
PD-131-10001	107.7 mm	PD 32 - PD 150	
PD-131-10004	123 mm	PD 100 Z	
PD-131-10006	149 mm	PD 200 - PD 600	

57. Slide bars

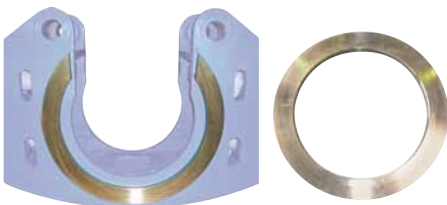


part no.	size	drilling rig	
PD-75-1304	107.7 mm	PD 32 - PD 150	
PD-250-16-01-21	149 mm	PD 200 - PD 600	

Slide bar sets



part no.	size	drilling rig	
PD-75-13020/21	107.7 mm	PD 32 - PD 150	
PD-250-16-0131/33	149 mm	PD 200 - PD 600	



58. Slide rings for clamping and breaking units

part no.	Ø	drilling rig	
PD-191-10002	420 / 340-30 mm	PD 32 - PD 50	
PD-191-10004	499 / 381-25 mm	PD 60 - PD 80	
PD-191-10000	599 / 481-18 mm	PD 100 - PD 600	



Spare parts HDD rigs



59. Mud swivel: thread version



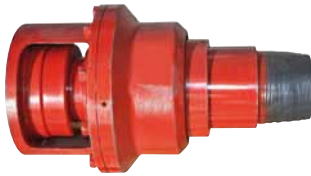
part no.	thread Ø	type	
PD-179-10013	2"	PD-R-2"	
PD-179-10007	3"	PD-R-3"	
PD-179-10008	4"	PD-R-4"	

flange version



part no.	flange Ø	type	
PD-179-10009	2"	PD-R-2"	
PD-179-10003	3"	PD-E-3"	
PD-179-10002	4"	PD-E-4"	

flange-thread version



part no.	Ø	type	
PD-179-21021	2"	PD-W-3"	
PD-179-10020	4"	PD-W-4"	

mud swivel seal kits



part no.	for Ø	type	
PD-179-10012	2"	PD-R-2"	
PD-179-10015	3"	PD-R-3"	
PD-179-10018	4"	PD-R-4"	
PD-179-10012	2"	PD-R-2"	
PD-179-10005	3"	PD-E-3"	
PD-179-10004	4"	PD-E-4"	
PD-179-10023	3"	PD-W-3"	
PD-179-10024	4"	PD-W-4"	

60. Rod strippers



part no.	Ø	for pipe Ø	
PD-259-1004	9"	1 ¼" - 3 ½"	
PD-259-10017	10"	2 ⅜" - 4 ½"	
PD-259-1005	11"	1 ¼" - 5 ½"	
PD-259-10018	14"	2 ¾" - 5"	
PD-259-10019	17"	2 ¾" - 5"	

61. Rod guides



part no.	guidance Ø	for pipe Ø	
PD-290-0001	105 mm	2 ⅞" IF	
PD-290-0002	127 mm	3 ½" IF	
PD-290-0003	165 mm	4 ½" IF	
PD-290-0005	283 mm	6 ⅝" FH	

Spare parts bentonite pumps



62. Valves and seals for bentonite pumps FMC, PP 500



part no.	spare parts
PD-038-10011	liner 3"
PD-038-10009	piston 3"
PD-038-10010	rubber 3"
PD-038-10015	piston rod
PD-038-10016	intermediate rod
PD-038-10026	assembly tools

part no.	valves
PD-038-10013	suction valve
PD-038-10012	discharge valve

part no.	seals for
PD-038-10017	suction valve
PD-038-10024	discharge valve
PD-038-10025	piston rod
PD-038-10024	piston rod



63. Valves and seals for bentonite pumps FMC, PP 1000 – 2000



part no.	spare parts
PD-038-10019	liner 4"
PD-038-10005	piston 4"
PD-038-10004	rubber 4"
PD-038-10020	piston rod
PD-038-10021	intermediate rod
PD-038-10027	assembly toolsg

part no.	valves
PD-038-10002	suction valve
PD-038-10003	discharge valve

part no.	seals for
PD-038-10023	suction valve
PD-038-10022	discharge valve
PD-038-10001	piston rod
PD-038-10014	piston rod



64. Valves and seals for bentonite pumps Weatherford, PP 700



part no.	spare parts
PD-039-10009	liner 4"
PD-039-10016	piston 4"
PD-039-10010	rubber 4"
PD-039-10017	piston rod
PD-039-10018	intermediate rod
PD-039-10029	assembly tools

part no.	valve
PD-039-10008	discharge/suction valve

part no.	seals for
PD-039-10019	discharge/suction valve
PD-039-10020	piston rod





Spare parts bentonite pumps



65. Valves and seals for bentonite pumps Weatherford, PP 1000 - 1300



part no.	spare parts
PD-039-10001	liner 5"
PD-039-10021	piston 5"
PD-039-10005	rubber 5"
PD-039-10022	piston rod
PD-039-10023	intermediate rod
PD-039-10030	assembly tools

part no.	valve
PD-039-10003	discharge/suction valve

part no.	seals for
PD-039-10013	discharge/suction valve
PD-039-10024	piston rod



66. Valves and seals for bentonite pumps Weatherford, PP 1500 - 2500

part no.	spare parts
PD-039-10000	liner 6"
PD-039-10011	piston 6"
PD-039-10004	rubber 6"
PD-039-10025	piston rod
PD-039-10026	intermediate rod
PD-039-10031	assembly tools

part no.	valve
PD-039-10002	discharge/suction valve

part no.	seals for
PD-039-10027	discharge/suction valve
PD-039-10028	piston rod



67. Valves and seals for bentonite pumps PRIME DRILLING X-3000



part no.	spare parts
PD-036-10000	liner 6"
PD-036-10001	piston 6"
PD-036-10002	rubber 6"
PD-036-10003	piston rod
PD-036-10004	intermediate rod
PD-036-10005	assembly tools
PD-036-10009	liner 6 1/2"
PD-036-10010	piston 6 1/2"
PD-036-10011	rubber 6 1/2"
PD-036-10012	liner 7"
PD-036-10013	piston 7"
PD-036-10014	rubber 7"
PD-036-10015	liner 7 1/2"
PD-036-10016	piston 7 1/2"
PD-036-10017	rubber 7 1/2"

part no.	valve
PD-036-10006	discharge/suction valve

part no.	seals for
PD-036-10007	discharge/suction valve
PD-036-10008	piston rod

Accessories bentonite pumps



68 Liner wash pump

part no.	flow rate	voltage rating	
PD-021-10002	150 l/min	24 V	



69. Bentonite high pressure hoses including couplings

part no.	Ø x length		
PD-072-10003	2" x 5,000 mm		
PD-072-10004	2" x 10,000 mm		
PD-072-10005	3" x 5,000 mm		
PD-072-10006	3" x 10,000 mm		
PD-072-10000	4" x 5,000 mm		
PD-072-10007	4" x 10,000 mm		



70. Couplings for Bentonite high pressure hoses

part no.	for hose Ø		
PD-171-10005	2"		
PD-171-10014	3"		
PD-171-10013	4"		



71. Bentonite suction hoses incl. couplings

part no.	Ø x length		
PD-172-10008	3" x 10,000 mm		
PD-172-10009	4" x 10,000 mm		
PD-172-10010	5" x 10,000 mm		
PD-172-10011	6" x 10,000 mm		
PD-172-10012	8" x 10,000 mm		



72. Perrot quick couplings

part no.	for hose Ø		
PD-172-10013	3"		
PD-172-10014	4"		
PD-172-10015	5"		
PD-172-10016	6"		
PD-172-10017	8"		



73. Hose clamps for Perrot quick couplings

part no.	for hose Ø		
PD-172-10018	3"		
PD-172-10019	4"		
PD-172-10020	5"		
PD-172-10021	6"		
PD-172-10022	8"		



74. Bentonite filters

part no.	capacity		
PD-1000-01-01	800 - 1,500 l/min		
PD-1000-01-02	1,500 - 2,500 l/min		
PD-1000-01-03	3,000 - 3,500 l/min		





Spare parts mixing units



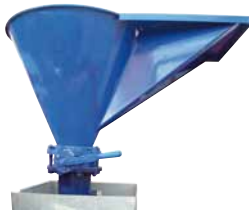
75. Agitator

part no.	power	nominal voltage	nominal speed
PD-160-10000	1.5 kW	400 V	710 1/min



76. Butterfly valves

part no.	Ø		
PD-169-10000	3"		
PD-169-10001	4"		
PD-169-10002	5"		
PD-169-10003	6"		



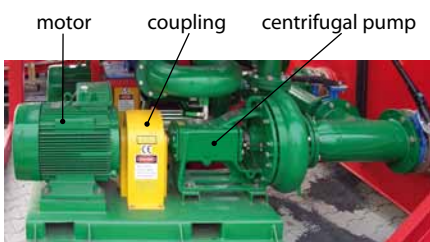
77. Mud hopper

part no.	hopper size Ø		
PD-169-10004	6"		



78. Venturi

part no.	size Ø		
PD-169-10005	6"		



79. Centrifugal pump components

part no.	components		
PD-011-10000	electric motor 22.5 kW		
PD-012-10010	coupling		
PD-161-10000	centrifugal pump 6" x 5" x 14"		
PD-011-10001	electric motor 45 kW		
PD-011-10012	coupling		
PD-161-10002	centrifugal pump 4" x 3" x 13"		

Spare parts recycling units



motor coupling centrifugal pump



80. Centrifugal pump components

part no.	components	
PD-011-10000	electric motor 22.5 kW	
PD-012-10010	coupling	
PD-161-10002	centrifugal pump 4" x 3" x 13"	
PD-011-10001	electric motor 45 kW	
PD-012-10011	coupling	
PD-161-10000	centrifugal pump 6" x 5" x 14"	
PD-011-10003	electric motor 55 kW	
PD-012-10012	coupling	
PD-161-10003	centrifugal pump 8" x 6" x 14"	



81. Cyclones

part no.	size Ø		
PD-169-10006	4"		
PD-169-10008	6"		
PD-169-10007	10"		



82. Vibration motor

part no.	nominal voltage	frequency	
PD-011-10002	380V	50 Hz	



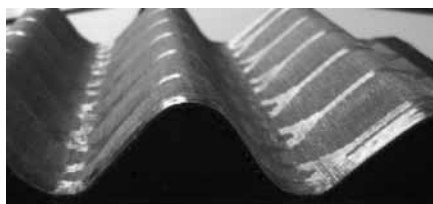
Spare parts recycling units



83. HP screens straight, type PWP

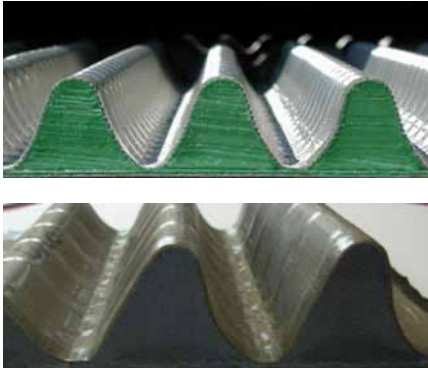
part no.	size		
PD-162-10000	HP-A 325 mm		
PD-162-10001	HP-A 270 mm		
PD-162-10002	HP-A 230 mm		
PD-162-10003	HP-A 200 F mm		
PD-162-10004	HP-A 200 mm		
PD-162-10005	HP-A 170 mm		
PD-162-10006	HP-A 140 mm		
PD-162-10007	HP-A 120 mm		
PD-162-10008	HP-A 100 mm		
PD-162-10009	HP-A 80 mm		
PD-162-10010	HP-A 70 mm		
PD-162-10011	HP-A 60 mm		
PD-162-10012	HP-A 50 mm		
PD-162-10013	HP-A 45 mm		
PD-162-10014	HP-A 40 mm		
PD-162-10015	HP-A 35 mm		

84. HP screens arched standard, type PMD



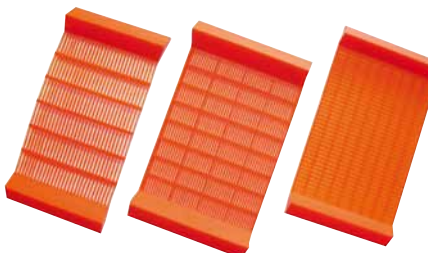
part no.	size		
PD-162-10016	HP-A 325 mm		
PD-162-10017	HP-A 270 mm		
PD-162-10018	HP-A 230 mm		
PD-162-10019	HP-A 200 F mm		
PD-162-10020	HP-A 200 mm		
PD-162-10021	HP-A 170 mm		
PD-162-10022	HP-A 140 mm		
PD-162-10023	HP-A 120 mm		
PD-162-10024	HP-A 100 mm		
PD-162-10025	HP-A 80 mm		
PD-162-10026	HP-A 70 mm		
PD-162-10027	HP-A 60 mm		
PD-162-10028	HP-A 50 mm		
PD-162-10029	HP-A 45 mm		
PD-162-10030	HP-A 40 mm		
PD-162-10031	HP-A 35 mm		

Spare parts recycling units



85. HP screens arched, type PMD+

part no.	size		
PD-162-10033	HP-A 325 mm		
PD-162-10034	HP-A 270 mm		
PD-162-10035	HP-A 230 mm		
PD-162-10036	HP-A 200 F mm		
PD-162-10037	HP-A 200 mm		
PD-162-10038	HP-A 170 mm		
PD-162-10039	HP-A 140 mm		
PD-162-10040	HP-A 120 mm		
PD-162-10041	HP-A 100 mm		
PD-162-10042	HP-A 80 mm		
PD-162-10043	HP-A 70 mm		
PD-162-10044	HP-A 60 mm		
PD-162-10045	HP-A 50 mm		
PD-162-10046	HP-A 45 mm		
PD-162-10047	HP-A 40 mm		
PD-162-10048	HP-A 35 mm		



86. Polyurethane screens, type TH

part no.	size		
PD-162-10049	DX-A 325 mm		
PD-162-10050	DX-A 270 mm		
PD-162-10051	DX-A 230 mm		
PD-162-10052	DX-A 200 F mm		
PD-162-10053	DX-A 200 mm		
PD-162-10054	DX-A 170 mm		
PD-162-10055	DX-A 140 mm		
PD-162-10056	DX-A 120 mm		
PD-162-10057	DX-A 100 mm		
PD-162-10058	DX-A 80 mm		
PD-162-10059	DX-A 70 mm		
PD-162-10060	DX-A 60 mm		
PD-162-10061	DX-A 50 mm		
PD-162-10062	DX-A 45 mm		
PD-162-10063	DX-A 40 mm		
PD-162-10064	DX-A 35 mm		





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PRIME DRILLING®, an independent partner of Tracto-Technik®, operating on an international scale, is specialised in Horizontal Directional Drilling Technology. With optimised products and 25 years of experience in constructing drilling units, we have set the standards in the European HDD industry.

While we are selling special technology, tailor-made to suit your projects, you are buying our **experience and knowledge** at the same time. Your investment affords you the invaluable advantage of becoming **self-sufficient, avoiding errors and reducing operating costs**.

We look after our customers and their projects directly on site and build them up systematically starting with machine-technical training, continuing with concepts and preparations and finally moving onto the execution of the job, we remain at your side all the time.

You can take our word on it, no matter, where you are: whether you need us in the Arctic, the Sahara or in the Himalayas, the **PRIME DRILLING® Modular System** is tailor-made to match all geographical and geological challenges - from standard to special production.

Not only HDD rigs, the complete system is manufactured by **PRIME DRILLING®**. Therefore, only one general supplier and a single contact person is required.

In short: we back you up with both physical and verbal support - in the long term - to come up to our objective: the best technique possible on job sites with an optimal structure, for successful customers with the ability to operate their units in a self-sufficient fashion. After all, we are working

... for your success!



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