



PERCUSSION SYSTEMTM

RPS TOOLS SERIES
FOR MINING APPLICATIONS

Terelion manufactures and services application specific drilling tools for the Mining and Construction industries. Our proprietary design capabilities, efficient manufacturing, and global sales force uniquely positions us to provide reliable drilling solutions faster than anyone else. We are a customer focused company with an innovative team conducting business sin a responsible manner and a passion to win.



ROTARY PERCUSSION SYSTEM TM



ADD SOME RPS TO YOUR ROP.

The patented RPS Rotary Percussion System combines the best advantages of rotary drilling and percussive drilling. The rotary cutting action combined with a percussive element allows for formations to fracture more easily. Thereby, RPS can drill efficiently in most formations whether hard or soft which leads to improved penetration rates and reduced drilling costs. The plug and play design makes it easy to fit the RPS system on your existing rotary drills.

Product Range in RP Bits

DIAMET	ΓER	SOFT TO MEDIUM			MEDIUM TO HARD		HARD.	TO VERY HARD	PIN SIZE	APPROX	. WEIGHT		
in	mm			_		\longrightarrow		\longrightarrow			Inches	lbs	kg
6.75	171			RP43		RP50	RP6	0			3 1/2	46	21
7.875	200			RP43					RP70		4 1/2	76	35
9	229		RP35	RP40	RP43	RP53					4 1/2	96	43
9.875	251		RP35		RP53	RP60		RP67			6 5/8	145	66
10.625	270			RP40	RP53		RP63				6 5/8	157	72
12.25	311				RP53	RP60	RP63	RP67			6 5/8	225	102

AV/AVL products can be modified to run under RPS by special request. Your Terelion representative can assist you in selecting the proper bits to suit your application and maximize your productivity. The availability of specific products may change from time to time.



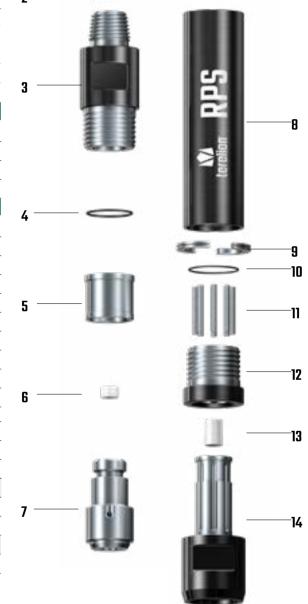
RPS62

TOOL WEIGHT		TOOL DIAMETER		TOOL LENGTH		BIT SIZE	
kg	lb	mm	inch	mm	inch	mm	inch
170	374	159	6 1/4	1245	49	200 - 216	7 % - 8 ½

AIR CONSUMPTION			
OPERATING RANGE	85 - 135 PSI	5.9 - 9.3 BAR	
RECOMMENDED AIR	1200 CFM	34 M³/MIN	

ASSEMBLY		
Type	Part#	Description
RPS62	P09882	RPS62 TOOL - MILL FLAT 5.00"
RPS62	P09872	RPS62 TOOL - MILL FLAT 5.00" - HIGH FLOW PISTON

SPARES	LIST					
Item	Part#	Description	lb	kg		
3	41910B	4½" BECO TOPSUB - MILL FLAT 5.00"	87	39		
4	41787	345 O-RING				
5	41914	GUIDE SLEEVE	12	5		
6	38350	SOLID CHOKE				
7	41916	PISTON - FOR P09882				
	48083	PISTON - FOR P09872				
8	41919B	CASE				
9	41920	SPLIT CATCH RING				
10	41821	350 O-RING				
11	4909	DRIVE LUG				
12	48084	DRIVE SUB	22	10		
13	48086	EXHAUSTER				
14	48085	4½" API MANDREL	57	26		
OPTION	AL ACCESSORY					
1	18970	VH393 SNAP RING				
2	42746	SCREEN PLATE				
SERVICE	КІТ					
32pcs of #11, 1pc of #10, 1pc of #6, 1pc of #4						



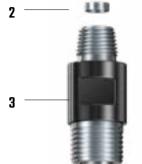
RPS75

TOOL WEIGHT		TOOL DIAMETER		TOOL LENGTH		BIT SIZE		
kg	lb	mm	inch	mm	inch	mm	inch	
210	463	194	7 %	1194	47	251	9 %	

AIR CONSUMPTION		
OPERATING RANGE	85 - 135 PSI	5.9 - 9.3 BAR
RECOMMENDED AIR	1900 CFM	54 M³/MIN

ASSEMBLY		
Туре	Part#	Description
RPS75	P20006	RPS75 TOOL - MILL FLAT 6.00"

Item	Part#	Description	lb	kg
3	60091A	5 ¼" BECO TOPSUB - MILL FLAT 6.00"	125	57
4	38319	433 O-RING		
5	60092	GUIDE SLEEVE	20	9
6	48982	SOLID CHOKE		
7	60093	PISTON		
8	60090	CASE		
9	60089	SPLIT CATCH RING		
10	38346	361 O-RING		
11	4909	DRIVE LUG	8	3,6
12	60094	DRIVE SUB	36	16
13	60095	EXHAUSTER		
14	60096	6 %" API MANDREL	98	45
OPTION	AL ACCESSORY			
1	43713	VH312 SNAP RING		
2	60087	SCREEN PLATE		
SERVICE	KIT			













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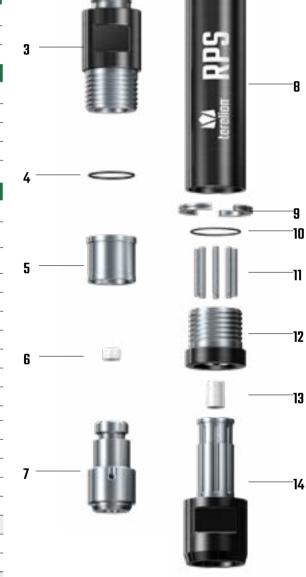
RPS85

TOOL WEIGHT		TOOL DIAMETER		TOOL LENGTH		BIT SIZE	
kg	lb	mm	inch	mm	inch	mm	inch
265	585	219	8 %	1194	47	270 - 279	10 % - 11

AIR CONSUMPTION							
OPERATING RANGE	85 - 135 PSI	5.9 - 9.3 BAR					
RECOMMENDED AIR	2600 CFM	74 M³/MIN					

	ASSEMBLY							
Type Part#		Part#	Description					
	RPS85	P09949	RPS85 TOOL - MILL FLAT 7.75"					
	RPS85	P20068	RPS85 TOOL - MILL FLAT 7.75" - HARD METAL MANDREL					
	RPS85	P20084	RPS85 TOOL - MILL FLAT 6.00"					

Item	Part#	Description	lb	kg
3	48980B	6" BECO TOPSUB - MILL FLAT 7.75" - FOR P09949, P20068	157	71
	60619A	6" BECO TOPSUB - MILL FLAT 6.00" - FOR P20084	157	71
4	38319	433 O-RING		
5	48979	GUIDE SLEEVE	25	11
6	48982	SOLID CHOKE		
7	48977	PISTON		
8	48978	CASE		
9	48976	SPLIT CATCH RING		
10	38320	364 O-RING		
11	4909	DRIVE LUG	8	3,6
12	48975	DRIVE SUB	48	22
13	48981	EXHAUSTER		
14	48974	6 %" API MANDREL - FOR P09949	126	57
	60514	6 %" API MANDREL - FOR P20068	126	57
	48947	6 %" API MANDREL - FOR P20084	126	57
OPTION	AL ACCESSORY			
1	AC-17712	VH393 SNAP RING		
2	42653	SCREEN PLATE		
SERVICE	KIT			
40ncs of	#11, 1pc of #10, 1p	r of #6 1pc of #4		



RPS92

TOOL V	VEIGHT	TOOL D	IAMETER	TOOL L	ENGTH	BIT SIZE		
kg	lb	mm	inch	mm	inch	mm	inch	
345	760	235	9 1/4	1283	50 ½	270 - 311	10 % - 12 ¼	

AIR CONSUMPTION			
OPERATING RANGE	85 - 135 PSI	5.9 - 9.3 BAR	
RECOMMENDED AIR	2400 CFM	68 M³/MIN	

ASSEMBLY		
Туре	Part#	Description
RPS92	P09754	RPS92 TOOL

Item	Part#	Description	lb	kg
3	46971	6" BECO TOPSUB	200	91
4	38319	433 O-RING		
5	46970	GUIDE SLEEVE	32	15
6	43929	SOLID CHOKE		
7	46968	PISTON		
8	46969	CASE		
9	38309	SPLIT CATCH RING		
10	38320	364 O-RING		
11	4909	DRIVE LUG		
12	46966	DRIVE SUB	53	24
13	46965	EXHAUSTER		
14	46972	6 %" API MANDREL	157	71
OPTION	AL ACCESSORY			
1	AC-17712	VH393 SNAP RING		
2	42653	SCREEN PLATE		
SERVICE	KIT			













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RPS106

TOOL WEIGHT		TOOL DIAMETER		TOOL LENGTH		BIT SIZE	
kg	lb	mm	inch	mm	inch	mm	inch
454	1000	273	10 ¾	1235	48 %	311 - 349	12 ½ - 13 ¾

AIR CONSUMPTION				
OPERATING RANGE	85 - 135 PSI	5.9 - 9.3 BAR		
RECOMMENDED AIR	2600 CFM	74 M³/MIN		

ASSEMBLY		
Туре	Part#	Description
RPS92	P09719	RPS106 TOOL

SPARES I	.IST					
Item	Part#	Description	lb	kg		
3	43815	8" BECO TOPSUB	293	133		
4	38443	441 O-RING				
5	43817	GUIDE SLEEVE	40	18		
6	38444	SOLID CHOKE				
7	43818	PISTON				
8	38438	CASE				
9	38445	SPLIT CATCH RING				
10	38446	370 O-RING				
11	40301	DRIVE LUG				
12	43819	DRIVE SUB	73	33		
13	46533	EXHAUSTER				
14	46625	6 %" API MANDREL	215	98		
OPTIONA	OPTIONAL ACCESSORY					
1	AC-17712	VH393 SNAP RING				
2	42653	SCREEN PLATE				
SERVICE I	SERVICE KIT					
24pcs of #11, 1pc of #10, 1pc of #6, 1pc of #4						

