



GENERATION 3
ROTARY
PERCUSSION
SYSTEM™



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 in a responsible manner and a passion to win.



RPS TOOLS SERIES
FOR MINING APPLICATIONS

RPS™ GENERATION 3

MORE EFFECTIVE THAN ROTARY.

NEW EASY SERVICE Access to the choke through the top sub without any disassembly of the tool enables easy changing of the choke to better match the air compressor. Just separate the tool from the drill string.

VERSATILE IN ALL FORMATIONS The combined RPS action also drills without problem in consolidated or broken formations and transitional hard or soft formation changes. The system works as a rotary drill bit when a percussive action is not possible, such as when encountering groundwater.

NEW EFFECTIVE BAILING A patented dual tube vent feature channels bypass air directly to the bit and assures all air is available at the bit face for bailing the cuttings.

The patented Terelion RPS Rotary Percussion System improves your productivity by combining the best advantages of rotary drilling and percussive drilling. Aimed at medium and hard rock, Terelion RPS increases ROP, maximizes drilled meters per shift and reduces drilling costs.

Terelion RPS works by combining low pressure percussion and rotary drilling to create a smoother and more efficient drilling operation while reducing drill vibration and drill steel torque. The plug and play tool design makes it easy to fit the RPS tool on your existing rotary drills.

PLUG AND PLAY The Plug and play design to fit on your existing rotary drills effectively makes the RPS a broad application tool for the blast hole market. RPS will operate efficiently on any air rotary drill rig with 85 psi available.



OPTIMIZED RP DRILL BITS A high quality, energy focused bit is necessary to ensure the best drilling results possible. The RP bit series is designed specifically for use with the RPS tool to maximize ROP and minimize TDC. Switching out bits is easy – all RPS tools are built with API bit connections.

Product Range

DIAMETER		SOFT TO MEDIUM		MEDIUM TO HARD	HARD TO VERY HARD	PIN SIZE	APPROX. WEIGHT	
in	mm					Inches	lbs	kg
6.75	171	RP43	RP50	RP60		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.