

**RPS™**

**NEVER  
SETTLE FOR  
LESS THAN  
THE TOTAL  
PACKAGE**



**VAREL**  
MINING AND INDUSTRIAL



## Rotary Percussion System (RPS™)

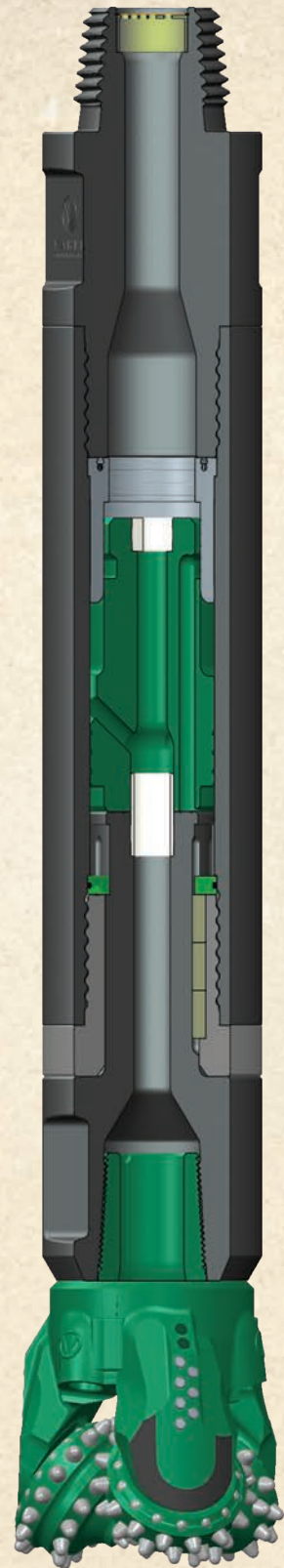
Varel's patented RPS percussion tool provides unparalleled performance, versatility, and reliability to any rotary drilling environment. The RPS has been proven to increase ROP over conventional rotary tools in blasthole mining applications.

### It's Never Been So Easy To Pound The Ground

- Combines versatility of rotary drilling with percussion energies for maximum ROP in wide ranging formations
- Plug and play on your existing rotary drills
- Operates on any air rotary drill rig with as little as 80 psi
- Effectively navigates transition zones for straighter boreholes
- Reduces bending stresses on drill steel
- External wear resistance feature available for abrasive formations
- When paired with the appropriate bit, provides enhanced performance in all formation types and hardnesses

### Go Varel Green With Revolutionary No Oil Technology

- Varel has introduced its patent pending no oil technology to improve your drilling experience while reducing costs.
- No expensive oiler to install
- No recurring oil costs or logistics
- No environmental restrictions
- No oil in your samples



*RPS Tool Section View*



# The Total Package

For optimum efficiency when using the RPS tool, bit selection is key. A high-quality, energy focused bit is necessary to ensure the best drilling results possible. Varel has developed the RP bit series specifically for use with the RPS tool to maximize ROP and minimize TDC.

## Why Is The RP Bit Best For The RPS?

Due to the tremendous amount of drilling energy, a high quality bit is required for success. The complete Rotary Percussion System must be examined carefully to maintain the highest bit life possible and the very best in tool performance. Varel engineers have designed RP bits with the following considerations in mind:

- Aggressive cutting structures for increased ROP
- Patented High Energy Tumbled (HET™) tungsten carbide inserts for impact resistance
- Peripheral plates reinforce the seams adjacent to the nozzle bosses for advanced structural strength
- Exacting process control and materials selection provide extended bearing and cutting structure life

## But What Really Makes The Total Package?

Closing the loop on the total package means having experienced, hands-on field engineers ready to bring solutions to the daily challenges of blasthole, water well, and construction drilling. Varel's global mining team has decades of industry experience in supporting our customers in areas such as:

- RPS tool service and repair
- Bit selection
- Dull bit analysis and site specific product optimization
- Applying field-proven best practices
- Supporting and developing application specific operating parameters for RPM and pull-down







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