

THRU-TUBING
MILLING AND CUTTING TOOLS

4

JUNK MILLS

- Flat Bottom
- Concave
- Convex
- Tapered
- String Mills

PDC BITS

- Roller Cone Bits
- Hurricane Mills
- Aardvark Mills
- Diamond Impreg Bits

3 1/2” PDC

With a matrix body bit, designed with stability enhancing features, the mill handles 2,000 to 20,000 lbs weight on the bit and has a flow rate of 70 to 200 gpm.

This tool is applicable for medium to hard formations.

FEATURES

- Advanced Cutter Placement
- Spiral Blades and Gage
- Force Balanced
- Unsymmetrical Blade Layout
- Incremental Back Rake

SPECIFICATIONS

Total Cutters	21
Cutter Size	9 mm (3/8")
Face cutters	12
Gage cutters	9
Nozzles	3 fixed ports
Junk Slot Area	1.7 in.sq.
Gage Length	1.8"
Gage Protection	Options Available
Make-up Length	8.0" Overall 11.0"
Bit Connection	2 3/8" Reg
Fishing Neck	Diameter 3.1" / Length 4.8"



UNDER REAMER

The Thru-Tubing Under reamer is designed to pass through restrictions and open to a predetermined diameter. To achieve maximum performance, optimum motor and nozzle selection is essential. Blades and pilot mill can be configured with standard carbide dressing,diamond or insert technologies depending upon the job requirements.

FEATURES

- Positive locking out system
- Internal assisted knife closure
- Knife configuration allows self-stabilization
- Rugged construction for downhole durability

SPECIFICATIONS

SIZE IN (MM)	OPENING DIAMETER IN (MM)	CONNECTIONS BOX X PIN
1.688 (42.9)	4.00 (101.6)	1" AMMT
2.125 (54.0)	6.00 (152.4)	1 1/2" AMMT
2.688 (68.3)	7.75 (196.9)	1 1/2" AMMT
3.125 (79.4)	8.50 (215.9)	2 3/8" PAC

