



TDS JET HAMMER

The TDS Jet Hammer is a powerful downhole rotating impact actuator designed for use in coiled tubing workover service. The high energy impact frequency and torque output of the TDS Jet Hammer provides efficient removal of paraffin, scale, sludge, and tar as well as an effective tool for drilling barium, sand, and cement bridge plugs. When a “blind box” is used in place of the bit or mill the TDS Jet Hammer can be utilized to drive debris downhole.

Operation of the TDS Jet Hammer begins when the bit comes into contact with a resistance that forces the mandrel closed to the tool housing. Internal pressure builds until the tool’s internal valve opens thrusting the bit outwardly with high velocity acceleration and rotational torque into the medium being drilled.

Water or light drilling fluid may be used as well as nitrogen when co- mingled with soap or foam to operate the tool.

O.D. SIZE	STANDARD CONNECTION	LENGTH INCHES	FLOW GPM/LITRE	SPEED RPM	OP. DP PSI	CYCLES PER MIN	TEMPERATURE ° F
1.375	3/4" AMMT	22"	20 / 76	60	500	1500	450
1.69/1.75	1" AMMT	22"	35 / 132	60	500	1500	450
2.125	1-1/2" AMMT	25"	60 / 227	60	500	1500	450



	1.375" TDS Jet Hammer	1.688" TDS Jet Hammer	1.750" TDS Jet Hammer	2.125" TDS Jet Hammer
Assembly Part Number	30-1375	30-1688	30-1750	30-2125
Outside Diameter	1.375"	1.688"	1.750"	2.125"
Bit Range	1.400 – 1.700	1.700 – 2.000	1.875 – 2.250	2.189 – 3.000
Overall Length (Maximum)	22"	22"	22"	25"
Approximate Weight (Lbs.)	10	15	18	25
Standard Tool Joint	3/4" AMMT Box Down/Box Up	1" AMMT Box Down/Box Up	1" AMMT Box Down/Box Up	1 ½" AMMT Box Down/Box Up

Operational

Operating Pressure (Maximum)	500 PSI	500 PSI	500 PSI	500 PSI
Flow Rate (Optimum)	20 GPM/600 SCFM	35GPM/1000 SCFM	35GPM/1000 SCFM	60 GPM/1500 SCFM
Torsional Yield (Ft-Lbs.)	15,000	20,000	25,000	35,000.
Tensile Yield	20,000	24,000	25,000	28,000
Temperature Rating	450	450	450	450

Performance at Optimum

Impacts Per Min/Impact Force	1500 cycles /10,000 Lbs.	1500 cycles /15,000 Lbs.	1500 cycles /15,000 Lbs.	1500 cycles /20,000 Lbs.
RPM	60	60	60	60