

UNDER REAMER



TOOL APPLICATIONS

The High Expansion Under Reamer is designed to clean or remove obstructions in well bores where there is an ID restriction, such as nipples or tapered strings, above the obstruction to be milled (scale, cement, plugs and debris).

The Dual Stage High Expansion Under-Reamer features two sets of cutting blades which are activated by increased flow rate.

In order to minimise torque on the reaming blades the tool can be configured with a mill below it, to create a pilot hole.

The first set of flow activated blades act as an intermediate reamer, with the second set of blades opening to full bore to remove the remaining obstruction.

The blades are held at the expanded diameter by flow rate through the tool. Once the job is complete, reducing the pump rate will allow the blades to collapse back into the body of the tool.

FEATURES AND BENEFITS

- Blades fully retained within tool OD
- Carbide dressed blades
- Dual Stage to minimise loading on blades
- Flo-activated
- Optional blade designs available
- Simple, robust design ensuring ease of operation for the end user
- Selected components QPQ treated
- Hexagonal flats for safe make-up & break out
- Connections to suit customer requirements

SPECIFICATIONS

Technical Variable		Units	Size	
			2 1/8"	2 7/8"
Max OD		in	6.190	2.875
Maximum Range		in	6.190	8.600
Connection	Top	Pin	1 1/2" AMMT	2 3/8" PAC DSI
	Bottom	Box	1 1/2" AMMT	2 3/8" PAC DSI
Make Up Length		in	40.00	57.12
Activation Pressure		psi	100	60
Working Pressure		psi	10,000	10,000
Strength	SWL	lbs	63,000	93,600
	Yield	lbs	70,000	104,000
	UTS	lbs	75,384	112,000
	Torsional	ft.lbs	1000	2,000
Make Up Torque		ft.lbs	900	3,250
Nozzle Sizes		in	0.187, 0.250, 0.312 and 0.375	0.312, 0.375, 0.437 and 0.500