

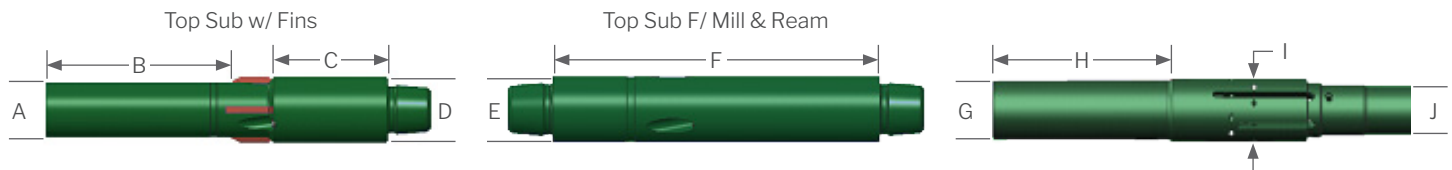
Section Mill Specification Sheet

Field Guidelines

Service Connections and Make-up Torques

Tool Series	Connection Location	Connection Type	Make up Torque (Ft-lb)
3600	Top sub / Body	2-3/8" I.F.	5,000
4500	Top sub / Body	3-1/2" I.F.	6,500
5500	Top sub / Body	4" I.F.	20,000
8200	Top sub / Body	6-5/8" REG	40,800
11700	Top sub / Body	8-5/8" REG	94,600

Fishing Dimensions:



Dimension (Inches)	Tool Series				
	3600	4500	5500	8200	11700
A	3.125	4.12	4.75	6.50	8.00
B	14.00	22.00	22.50	20.50	14.50
C	7.00	11.00	9.125	13.94	15.125
D	3.375	4.50	5.50	7.75	10.00
E	N/A	N/A	N/A	7.14	N/A
F	N/A	N/A	N/A	36.00	N/A
G	3.375	4.50	5.50	7.75	7.75
H	10.70	N/A	N/A	28.00	28.00
I	3.550	N/A	N/A	8.25	8.25
J	3.00	4.00	4.25	6.375	6.375
NOTES:	NO FINS	NO FINS	NO FINS	WITH FINS	WITH FINS

Operating Limits:

Tool Series	RPM	Max WOM (Lbs)	Max Torque (Ft-Lbs)	Pressure Drop (psi)	Max Fluid Jet Velocity (ft/sec)	Max Tensile
3600	80 - 120	7,000	1,200	350	250	As per connection
4500			4,900			As per connection
5500		15,000	7,000			As per connection
8200		20,000	13,000			As per connection
11700			11,000			As per connection

- Do not mill faster than cuttings are removed from hole.
- Perform Pre-Job Hydraulics (HART) to ensure recommended pressure drop and jet velocity are met.
- Milling flow rate is determined via (Mud Weight and Top Sub TFA) while meeting Pdrop and jet velocity limits.
- Avoid blanking top sub nozzles.