

Tubing Mandrels for Wire or All Rubber Type Cups			
Model	Size	Components	Pin Size
120~	1 1/4"	122-U Upper Section	5/8" S.R.
		122-L Lower Section	5/8" S.R.
		121-A Nose Guide	5/8" S.R.
150	1 1/2"	151-U Upper Section	5/8" S.R.
		152-L Lower Section	5/8" S.R.
		151-A Nose Guide	5/8" S.R.

Straight Mandrels for use with All Rubber Type Cups**			
Model	Size	Components	Pin Size
200~**	2"	202 Mandrel	3/4" S.R.
		201 Adapter	3/4" S.R.
250~**	2 1/2"	252 Mandrel	3/4" S.R.
		201 Adapter	3/4" S.R.

SKJ Series Knuckle Joint Swab Mandrels			
Model	Mandrel with Nut	Spacing Ring	Top Section 3/4" Pin
SKJ-45, 1 CUP	SKJ-45 MANDREL 1-CUP	SKJ-45 RING	SKJ-55 TOP
SKJ-45, 2 CUP	SKJ-45 MANDREL 2-CUP		
SKJ-55, 1 CUP	SKJ-55 MANDREL 1-CUP	SKJ-55 RING	SKJ-55 TOP
SKJ-55, 2 CUP	SKJ-55 MANDREL 2-CUP		

Swivel Joint Mandrels			
Model	Size	Components	Pin Size
SJ-20	2"	SJ-1 Adapter	3/4" S.R.
		SJ-2 Upper Section	
		SJ-3 Lower Section	
SJ-21~	2"	SJ-1 Adapter	
		SJ-6 Lower Section	
SJ-25	2 1/2"	SJ-1 Adapter	
		SJ-4 Upper Section	
		SJ-5 Lower Section	
SJ-26~	2 1/2"	SJ-1 Adapter	
		SJ-7 Lower Section	

** For use with all Rubber Type Cups.
 ~ May be used with Wire Type Cups if sleeves are used.

Two Basic Types

Swab Mandrels from Oil States are available for use with wire or "all rubber" type swab cups. Wire type tubing and drill pipe swab cups (1 1/4" through 3 1/2") can be used on the "all rubber" type mandrels by utilizing sleeves available from Oil States.

Maximum Fluid By-Pass

Tubing and drill pipe mandrels are fluted, allowing maximum fluid by-pass while lowering the mandrel to swabbing depth. Steel mandrels are either machined or drop forged from high strength alloy steel. All mandrels exceed strength requirements for wire rope sizes recommended for use with mandrels.



120 or
150
Tubing
Swab
Mandrel

SJ-21 or
SJ-26
Mandrel

SJ-20 or
SJ-25
Swivel
Joint
Mandrel