

S1 - Section Mill

Introduction

United S1Section Mill is a rugged, simple efficient inside cutter. Utilized for sidetrack or milling perforated casing in production zones. In order to cut pipe of any size, the only requirement within the range of the particular tool in use, is to change the tungsten carbide knives. The cutter may be directly run on drill pipe. Rotary table or power swivel can provide rotating power to perform the cut. It is operated hydraulically flowing thru a nozzle. Stabilization and limiting feature is designed on each cutting knife which provides a unique and efficient method to stabilize the cut for higher penetration rates.

Features & Tech Data

- ▶ Hydraulically actuated and requires no special surface equipment.
- ▶ Knife design included positive stop feature assisting in stabilizing cut.
- ▶ Proven cutting structure eliminates stringers which are hard to lift and remove from wellbore with just drilling fluid.
- ▶ All knives are utilized simotaneously for initial cut out, minimizing bent or broken knives.
- ▶ Simple design, manufactured from 4145 material.

Casing OD (in.)	Body OD (in.)	Closed Diameter (in.)	Max Knife Expansion (in.)	Tool Weight (lbs)	Tool Length	Connection
4-1/2"	3.625	3.75	5.5	135	42 in	2-3/8" Reg Pin
5-1/2"	4.5	4.5	7	220	50 in	3 1/2" IF Box
6-5/8 - 7/58	5.5	5.5	9.25	350	55 in	3 1/2" IF Box
7-5/8 - 8-5/8	6.5	6	10.5	450	55 in	4 1/2" IF Box
8-5/8 - 9-5/8	7.25	7.5	11.5	725	65 in	4 1/2" IF Box
9-5/8 - 10-3/4	8.25	8.5	12.75	925	70 in	4 1/2" IF Box
10 3/4 - 11 3/4	9.25	9.5	14.5	1225	70 in	6 5/8 Reg Box
11 1/2	11.5	11.75	19.5	1750	78 in	6 5/8 Reg Box

