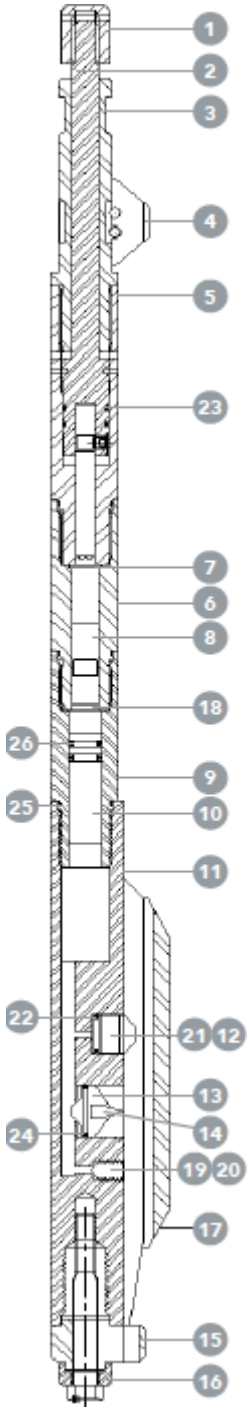
Sandline Cutter



PURPOSE

The Sandline Cutter is designed to cut the sand line from the top of the tool strings. It is used to cut swab lines, slick lines, guidelines, anchor lines, and drilling lines up to a depth of 20,000 feet. It is very versatile and can be easily field redressed. It can be deployed in a wide range of tubing sizes.

ASSEMBLY PARTS

1. Nut/Stricker
2. Shear Piston
3. Fishneck
4. Upper Line Guide
5. Shear Sub
6. Shell Chamber
7. Seal Disc
8. Shell Assembly
9. Piston Sub
10. Piston
11. Body
12. Crimper
13. Blade Carrier
14. Blade
15. Lower Line Guide
16. Lower Guide Cap
17. Cutter Sleeve
18. Rubber Disk
19. Bleed Screw
20. Ball
21. Shear Screw
22. O-Ring
23. O-Ring
24. O-Ring
25. O-Ring
26. O-Ring

DESCRIPTION

The Hydraulic Sandline Cutter is sealed with the use of o-rings, keeping contaminated well materials from entering the internal parts of the tool. The Sandline Cutter is attached to the cable to be cut at the surface. When released from the surface, the cutter drops to the top of the stuck tools using the cable as a guide.

The drop bar is then released in the same manner as the cutter. The drop bar follows the same path as the cutter landing on the striker pin detonating the firing shell.

The Sandline Cutter may alternatively also be fired with pressure. Install and drop the cutter in the same manner, but instead of dropping a drop bar, the wellbore is pressured up. The pressure is set by the amount of shear pins placed within the firing head. The shear pins will shear allowing the firing pin to contact the powder charged shell.

The detonated powder charged shell, creates gas pressure in the chamber above the piston creating hydraulic pressure in the knife housing.

The hydraulic pressure forces the knife piston and the crimper piston out of the knife housing cutting the cable. This wedges the cable between the crimping piston and the outer sleeve at the same time. The crimper piston is used only in conjunction with the cutting tool outer
sleeve.

The crimper piston can be used in all sizes of tubing and casing except 2 3/8". There is now a blank crimper piston available for use when cutting in 2 3/8" tubing.
The tool is designed to cut wire rope or steel cable with diameters of 3/16" to 9/16" OD. The Sandline Cutter has a curved slot the length of the knife housing and the upper neck of the striker pin. The cutter is held to the cable with an upper guide and outer sleeve attached to the knife housing. Standard fishing necks are incorporated on the drop bar and the cutter to allow for fishing after the cut cable is retrieved.

**** We offer this tool for sales or as a long-term rental. ****

**** Sizes on the next page. ****

Nominal Size		2.00”
Assembly Number		0501SLC200A0
Item	Part Name	
1a/1b	Nut/Striker	0501PAF20001/06
2	Shear Piston	0501PAF20002
3	Fishneck	0501PAF20003
4	Upper Line Guide	0501SLC20003
5	Shear Sub	0501PAF20004
6	Shell Chamber	0501PAF20005
7	Seal Disc	0501SLC20006
8	Shell Assembly	0101HP175S0
9	Piston Sub	0501SLC20007
10	Piston	0501SLC20008
11	Body	0501SLC20009
12	Crimper	0501SLC25010
13	Blade Carrier	0501SLC20011

14	Blade	0501SLC20012
15	Lower Line Guide	0501SLC20013
16	Lower Guide Cap	0501SLC20014
17	Cutter Sleeve Body	0501SLC25009
18	Rubber Disk	0101HP17511
19	Bleed Screw	0101HP17518
20	Ball	.250 Chrome
21	Shear Screw	0501SLC20020
22	0-Ring	016
23	0-Ring	018
24	0-Ring	020
25	0-Ring	021
26	0-Ring	111
Top Thread Connection		N/A
Lower Thread Connection		0.938”-10 UN
Max O.D.		2.25”
Fishneck size		1.0”

**** The Sandline Cutter and spare parts kit comes with 2 cutter assemblies. ****