

**INTEGRAL BLADE STABILIZER**

The body or mandrel is made of modified alloy steel or non-magnet steel material, one piece construction. Fully heat treated, all of the connections are strictly in accordance with API Standard. It prevents differential sticking of the drill string by stabilizing the BHA and keeping drill collars and drill pipes away from the borehole wall. This reduces vibration, drill pipe whirl and wellbore tortuosity. Further straight, horizontal or directional wells.

**Material:** AISI 4145H, AISI 4145H Mod, AISI 4340, AISI 4140-4142 and Non-magnetic.

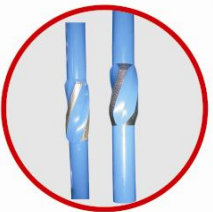
**Size:** Up to 42"

Type:

- Stabilizer forging/blank, Reamer Forging
- Spiral Integral blade stabilizer
- Straight Integral blade stabilize

Inquiry and order should specify:

- ◆ Hole size and type of stabilizer( string or near bits)
- ◆ Material (Alloy steel or Non Magnet)
- ◆ OD and ID
- ◆ Number of blades required(3 or 4 are standard styles)
- ◆ Connections type of pin and box
- ◆ Fishing Neck OD and length
- ◆ Open or tight design
- ◆ Right or left hand spiral
- ◆ Hard facing type
- ◆ Special feature stress relief groove on connection, bore for float etc



**MANDREL SLEEVE STABILIZER**

Mandrel Sleeve Stabilizer are consists of two part: one integral mandrel and one sleeve. One mandrel series can be equipped with different size of sleeve for several hole size. The sleeve are easily changed on the rig floor, either when changing hole size or changing the type of wear surface to match drilling conditions.

**Material:** AISI 4145H, AISI 4145H Mod, AISI 4340, AISI 4140-4142 and Non-magnetic.

**Size:** Up to 36"

Inquiry and order should specify:

- ◆ Mandrel series and sleeve OD
- ◆ String or near bits
- ◆ Material (Alloy steel or Non Magnet)
- ◆ Number of blades required(3 or 4 are standard styles)
- ◆ Connections type of pin and box
- ◆ Hard facing type



Technical specification and parameters for Mandrel

Hole size(in)	Mandrel Series	Drill collar Size(in)	Sleeve Length(in)	Recommend Make-up torque(ft/lb)
8 1/2"	62	6 1/4"-6 3/4"	14	4500-5400
	65	6 1/2"-7 3/4"	14	3500-4500
8 3/4"	62	6 1/4"-6 3/4"	14	4500-5400
	65	6 1/2"-7 3/4"	14	3500-4500
9 7/8"	62	6 1/4"-6 3/4"	19	4500-5400
	65	6 1/2"-7 3/4"	19	3500-4500
12 1/4"	77	7 3/4"-8 1/4"	22	6900-8000
	85	8 1/2"-9"	22	8000-9000
14 3/4"	77	7 3/4"-8 1/4"	23	6900-8000
	85	8 1/2"-9"	23	8000-9000
17 1/2"	77	7 3/4"-8 1/4"	23	10100-11900
	85	8 1/2"-9"	23	6900-8000
22	96	9"-10"	23	8000-9000
	96	9"-10"	27	10100-11900
24	96	9"-10"	27	10100-11900
	96	9"-10"	27	10100-11900
26	96	9"-10"	27	10100-11900
	96	9"-10"	27	10100-11900

Technical specification and parameters for Sleeve

Mandrel Series	Sleeve Size (in)	Fishing Neck (in)	Upset OD(in)	Upset Length (in)	Bottom Neck OD(in)	Overall Length(in)	Fishing Neck Length(in)
62	8 1/2"-9 7/8"	6 1/4"-6 3/4"	7 1/2"	7 4/5"	6 1/4"	65	22
65	8 1/2"-9 7/8"	6 1/2"-7 3/4"	7 3/4"	7 4/5"	6 1/2"	65	22
77	12 1/4"-17 1/2"	7 3/4"-8 1/4"	9 1/4"	7 4/5"	7 3/4"	67	22
85	12 1/4"-17 1/2"	8 1/2"-9"	9 7/8"	7 4/5"	8 1/2"	67	25
96	14 3/4"-20"	9 1/2"-10"	11	7 4/5"	9 5/8"	80	27
	22"-28"	9 1/2"-10"	11	7 4/5"	9 5/8"	90	27