



# *Downhole Drilling Stabilizers*

Weatherford supplies a complete line of downhole drilling stabilizers to increase rate of penetration and control hole deviation problems. All these stabilizers (including spiral blade, straight blade, integral blade, welded blade, sleeve-type, and stainless steel nonmagnetic types) are designed to meet or exceed the strictest quality control and quality assurance standards. All alloy stabilizers are manufactured from AISI 4145H modified heat-treated steel for a wide variety of configurations and hole sizes.

## *Applications*

- Welded straight blade for drilling soft formations
- Sleeve type allowing less equipment inventory in remote locations
- Integral spiral blade allowing 360° hole contact for use in hard rock formations
- Nonmagnetic stabilizers for applications requiring magnetic isolation

## *Features, Advantages, and Benefits*

- Welded stabilizer is a full wrap with a 360° hole contact.
- Stabilizers feature one-piece construction (integral blades).
- Sizes and configurations can be manufactured to operator's requirements, including blade sizes, connections, and types of material.
- All stabilizer connections can be configured as box × box, as pin × box, or as the operator requires.



String stabilizer

Near-bit stabilizer



### *Downhole Drilling Stabilizers*

Stabilizers

Directional Drilling

### *Specifications*

| Hole Size Range (in.)   | Body OD, ID (in.)   | Connection                                   | Characteristics                         |
|---|---|--|---|
| >12 <sup>1</sup> / <sub>4</sub>                                 | 9 <sup>1</sup> / <sub>2</sub> , 3 <sup>1</sup> / <sub>4</sub> | 7 <sup>5</sup> / <sub>8</sub> in. reg thread | welded, integral, or sleeve-type blades |
| 9 <sup>7</sup> / <sub>8</sub> to 12 <sup>1</sup> / <sub>4</sub> | 8, 3  | 6 <sup>5</sup> / <sub>8</sub> in. reg thread |   |
| 8 <sup>3</sup> / <sub>8</sub> to 9 <sup>7</sup> / <sub>8</sub>  | 6 <sup>3</sup> / <sub>4</sub> , 2 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> in. IF thread  | integral blades only                    |
| 5 <sup>1</sup> / <sub>2</sub> to 7                              | 4 <sup>3</sup> / <sub>4</sub> , 2 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> in. IF thread  |   |

This table includes some required standard sizes. Weatherford can provide most sizes on request.