

STABILIZER

Stabilizer

Stabilizer is one useful tool for drilling operation. Jereh offer a wide variety of near bit stabilizers and string stabilizers according to API SPEC 7. All drilling stabilizers are integral style, also can be highly customized as per customer's requirements.

Integral Straight Blade Stabilizer

Straight blade stabilizer is integrally made of high strength alloy steel AISI 4145H, usually with 3 blades or 4 blades. The working surface of straight stabilizer is provided with carbide insert, diamond compound insert, or overlay welding etc.

Technical Specifications of Straight Blade Stabilizer

| Bit O.D.(in) | O.D. (mm) | End O.D. (mm) | I.D. (mm) | Length(mm) | | | | Connection | | | | |
|--------------|-----------|---------------|-----------|-----------------|--------------|-----------|-----------------|-----------------|-------|-----------|-------|-------|
| | | | | Short Type | | Long Type | | Drill string | | Near bit | | |
| | | | | Near bit | Drill string | Near bit | Drill string | Top | Down | Top | Down | |
| 6 | 152.4 | 121 | 51 | 800 ~900 | 1,000 | 1,200 | 1,400 | NC | NC | NC | 3-1/2 | |
| 6-1/4 | 158.7 | | | | ~1,100 | ~1,400 | ~1,600 | 38 | 38 | 38 | REG | |
| 6-1/2 | 165.1 | | | | | | | | | | | |
| 7-1/2 | 190.5 | 159 | 57 | 800 ~900 | 1,000 | 1,600 | 1,800 | NC | NC | NC | 4-1/2 | |
| 7-7/8 | 200.0 | | | | 1,000 | 1,600 | 1,800 | 46 | 46 | 46 | REG | |
| 8 -3/8 | 212.7 | | | | 165 | 71 | 1,000 | 1,600 | 1,800 | NC46 | | 4-1/2 |
| 8 -1/2 | 215.9 | 178 | 71 | 800 ~1,000 | ~1,200 | ~1,800 | 1,800~ 2,000 | NC50 | | REG | | |
| 8-3/4 | 222.2 | | | | | | | | | | | |
| 9-1/2 | 241.3 | 178 | 71 | 800 ~1,000 | 1,000 | 1,600 | 1,800 | NC | NC | NC | 6-5/8 | |
| 9-5/8 | 244.5 | | | | 197 | ~1,200 | ~1,800 | 1,800~ 2,000 | 50 | 50 | 50 | REG |
| 9-7/8 | 250.8 | | | | | | | | | | | |
| 12-1/4 | 311.2 | 203 | 76 | 1,000 ~1,200 | 1,200 | 1,500 | 2,000 | NC56 | | 6-5/8 | | |
| | | | | | | | | | | 6-5/8 REG | | REG |
| 17-1/2 | 444.5 | 229 | 76 | 1,200 ~1,300 | 1,200 | 2,000 | 2,000~ 2,200 | NC61 | | 7-5/8 REG | | |

Integral Spiral Blade Stabilizer

Spiral blade stabilizer is integrally made of high strength alloy steel AISI 4145H, usually with 3 blades or 4 blades. The working surface of spiral stabilizer is provided with carbide insert, diamond compound insert, or overlay welding etc.

Technical specifications of spiral blade stabilizer

| Bit size (in) | Working O.D. (mm) | End O.D. of body (mm) | I.D. mm | Length mm | Thread code on both ends | | | |
|---------------|-------------------|-----------------------|---------|-----------|--------------------------|------|---------------|------|
| | | | | | String type | | Near bit type | |
| | | | | | Top | Down | Top | Down |
| 6 | 152.4 | 121 | 51 | 1,200 | NC38 | | 3-1/2 REG | |
| 6-1/4 | 158.7 | | | | | | | |
| 6-1/2 | 165.1 | | | | | | | |

| | | | | | | | | |
|--------|-------|-------|-----|-------|-----------|-----------|-----------|-----------|
| 7-1/2 | 190.5 | 159 | 57 | 1,600 | NC46 | | | 4-1/2 REG |
| 7-7/8 | 200 | | | | | | | |
| 8-3/8 | 212.7 | 159 | 71 | 1,600 | NC46 | | | |
| | | 165 | | | | | | |
| 8-1/2 | 215.2 | 159 | | 1,800 | NC50 | | | |
| | | 165 | | | | | | |
| 8-3/4 | 222.2 | 178 | | | | | | |
| 9-1/2 | 241.3 | 178 | | 1,600 | NC50 | NC50 | NC50 | |
| 9-5/8 | 244.5 | | | 1,800 | | | | |
| 9-7/8 | 250.8 | | 197 | | | | | |
| 12-1/4 | 311.2 | 203 | 76 | 1,800 | NC56 | NC56 | NC56 | 6-5/8 REG |
| | | 229 | | | 6-5/8 REG | 6-5/8 REG | 6-5/8 REG | |
| 16 | 406 | 229 | | 2,000 | NC61 | NC61 | NC61 | NC61 |
| | | 241.3 | | 2,200 | 7-5/8 REG | 7-5/8 REG | 7-5/8 REG | 7-5/8 REG |

Replaceable Sleeve Stabilizer

Replaceable sleeve stabilizer is special tool suitable for directional well drilling. The stabilizer sleeve can be changed quickly and easily after sleeve hard banding is worn-out. There're two styles available: 2-piece stabilizer, and 3-piece stabilizer.

Technical Specifications of Replaceable Sleeve Stabilizer

| Bit Dia (in) | DC dia. (in) | sleeve | | Stabilizer body | | | | | | | Thread code on both ends | | | |
|--------------|--------------|-----------|-----------|-----------------|------------------|---------------------|----|-----------------------|---------------|---------------|--------------------------|-----------|-----------|-----------|
| | | Length mm | Work O.D. | Upset end Dia. | Upset end length | Fishing neck length | ID | Make-up Torque (KN.m) | Over length L | | Drill string | | Near bit | |
| | | | | | | | | | Near bit | Drill String | Top | Down | Top | Down |
| 8-1/2 | 6 1/2 | 480 | 214 | 190 | | | 71 | 6.95 ~7.25 | 1,800 ~ 1,900 | 1,800 ~ ,900 | 4-1/2 IF | 4-1/2 IF | 4-1/2 F | 4-1/2 REG |
| 8-1/4 | | 470 | 210 | | | | | | | | | | | |
| 8 | | 472 | 203 | | | | | | | | | | | |
| 7-3/4 | | 455 | 197 | | | | | | | | | | | |
| 12-1/4 | 8 | 555 | 310 | 238 | 200 | 600 | 76 | 19.7 ~11 | 1,800 ~ 2,000 | 1,800 ~ 2,000 | 6-5/8 REG | 6-5/8 REG | 6-5/8 REG | 6-5/8 REG |
| 12 | | 550 | 305 | | | | | | | | | | | |
| 11-1/2 | | 540 | 292 | | | | | | | | | | | |
| 11 | | 530 | 279 | | | | | | | | | | | |
| 17-1/2 | 9 | 682 | 444 | 279 | | | 76 | 13.85 ~16.55 | 2,000 ~ 2,200 | 2,000 ~ 2,200 | 7-5/8 REG | 7-5/8 REG | 7-5/8 REG | 7-5/8 REG |
| 17 | | 676 | 432 | | | | | | | | | | | |
| 16-1/2 | | 670 | 420 | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 22 | | 644 | 407 | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |

Non-Rotating Stabilizer

Non-rotating stabilizer is special tool in drilling to avoid blade worn out or wall damage. Jereh provides non-rotating stabilizer for drilling hole from 13-3/8"~28".

Technical Specifications of Non-Rotating Stabilizer

| Hole size (in) | Stabilizer Sleeve | | | Stabilizer Body | | | Overall Length (mm) |
|-------------------|-------------------|-----|---------------|-----------------|---------------|-------------|------------------------|
| | Length (mm) | OD | Blade Qty. | ID (mm) | Fishing OD | Thread type | |
| 13-3/8 | 500 | 313 | 4 | 71 | 165 | 4-1/2 IF | 2,000 |
| 10-3/4 | 500 | 255 | 4 | 71 | 165 | 4-1/2 IF | 2,000 |
| 9-5/8 | 500 | 220 | 4 | 71 | 165 | 4-1/2 IF | 2,000 |
| 7 | 380 | 157 | 4 | 44 | 127 | 4-1/2 IF | 1,600 |
| 12-1/4 | 523 | 310 | 4 | 76 | 215 | 6-1/8 REG | 2,010 |
| 16 | 543 | 405 | 4 | 76 | 241 | 7-5/8 REG | 2,210 |
| 17 | 543 | 430 | 4 | 76 | 241 | 7-5/8 REG | 2,210 |
| 22 | 635 | 558 | 4 | 76 | 241 | 7-5/8 REG | 2,210 |
| 28 | 715 | 711 | 5 | 76 | 241 | 7-5/8 REG | 2,210 |

Float Valve Stabilizer

Float valve stabilizer is effective tool in drilling operation. The stabilizer is connected at upper part of drill bit, and the float valve assembly in stabilizer is near the bit thread. Such structure of stabilizer can realize the automatically shutting off inside bore of tool to avoid the accident.

Technical Specifications of Float Valve Stabilizer

| Stabilizer Body O.D. (mm) | Stabilizer thread | Float valve assembly O.D. (mm) | Float valve assembly length (mm) |
|------------------------------|----------------------|-----------------------------------|-------------------------------------|
| 228 , 241 | 7 -5/8 REG | 121 | 298.4 |
| 228 , 241 | 7 -5/8 REG | 121 | 298.4 |
| 228 , 241 | 7 -5/8 REG | 121 | 298.4 |
| 203 , 209.6 | 6 -5/8 REG | 121 | 298.4 |
| 178 | 4- 1/2 IF | 98 | 247.6 |
| 178 , 165 | 4 -1/2 REG | 88 | 211.14 |
| 127 , 121 | 3 -1/2 REG | 61 | 165.1 |

Spherical Stabilizer

Spherical stabilizer is new tool for various drilling operation. Jereh provides spherical stabilizer from 6"~12-1/4".

Technical Specifications of Spherical Stabilizer

| working O.D. (in) | Body O.D. on both ends (mm) | I.D. (mm) | Stabilizer Length (mm) | Thread on both stabilizer ends (in) | | | |
|----------------------|-----------------------------------|--------------|------------------------------|-------------------------------------|---------|---------------|----------|
| | | | | String type | | Near bit type | |
| | | | | Top | Down | Top | Down |
| 6~6-1/2 | 121 | 51 | 785 | 3-1/2IF | 3-1/2IF | 3-1/2IF | 3-1/2REG |

| | | | | | | | |
|-----------|-----|----|-----|----------|----------|----------|----------|
| 7-7-7/8 | 159 | 57 | 850 | 4-1/2IF | 4-1/2IF | 4-1/2IF | 4-1/2REG |
| 8-8-1/2 | 165 | 71 | 850 | 4-1/2IF | 4-1/2IF | 4-1/2IF | 4-1/2REG |
| 9-9-1/4 | 197 | 71 | 870 | 4-1/2IF | 4-1/2IF | 4-1/2IF | 4-1/2REG |
| 12-12-1/4 | 203 | 76 | 940 | 6-5/8REG | 6-5/8REG | 6-5/8REG | 6-5/8REG |

Variable Diameter Stabilizer

Variable diameter stabilizer is new tool for drilling operation. With special support head, variable diameter stabilizer can change the outside diameter by stretching out or drawing back support head so as to adjust the clearance between hole wall and stabilizer and avoid sticking.

Technical Specifications of Variable Diameter Stabilizer

| Body OD (mm) | ID (mm) | head OD (mm) | head Nos. | Overall Length (mm) | Box thread | Pin thread | OD varied | Min. pressure , Stretch out(Mpa) | Max. working pressure (Mpa) | Max. differential pressure (Mpa) |
|--------------|---------|--------------|-----------|---------------------|------------|------------|-----------|----------------------------------|-----------------------------|----------------------------------|
| 201 | 55 | 80 | 15 | 1,350 | NC50 | NC50 | 211~213 | 0.1 | 20 | 40 |
| 204 | 55 | 80 | 15 | 1,350 | NC50 | NC46 | 214~215 | 0.1 | 20 | 40 |

Unbalanced Spiral Blade Stabilizer

Unbalanced Spiral Blade Stabilizer is ideal anti-inclination tool for drilling operation. Relying on stabilizer's structural unbalanced principle, during rotating of drilling string, stabilizer will make one centrifugal force to heavy side, working with the eccentric force etc of drilling string, such large impart restoring force will straighten well-bore gradually. There're two styles available: unbalanced spiral blade

Technical Specifications of Unbalanced Single-Spiral-Blade Stabilizer

| OD | ID | Thread conn.(in) | Length(mm) |
|-----|----|------------------|------------|
| 215 | 71 | 4-1/2 IF | 1,800 |
| 311 | 76 | 6-5/8 REG | 1,800 |
| 444 | 76 | 7-5/8 REG | 2,000 |

Technical Specifications of Unbalanced Multi-Spiral-Blade Stabilizer

| OD | ID | Thread conn | Length(mm) |
|-----|----|-------------|------------|
| 215 | 71 | 4-1/2 IF | 4,600 |
| 311 | 76 | 6-5/8 REG | 4,600 |

Options for Stabilizer Hard Facing

HF 1000, ideal for soft formation drilling.



Sections through hard facing.

HF 2000, ideal for high deviation drilling in abrasive formations.



Sections through hard facing.

HF 3000, recommended for non-magnetic stabilizer

真诚 携手 争第一



Sections through hard facing.

TCI, button type



Sections through hard facing.

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