



# SOLID RIGID CENTRALIZER



Casing Centralizers, Float Shoe & Collars, Cementing Plug & Baskets

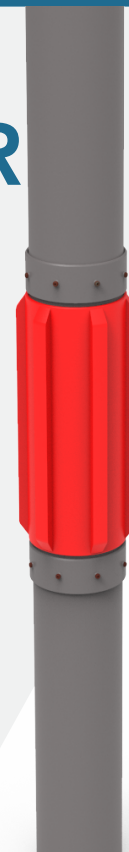
# SOLID RIGID CENTRALIZER

## Spiral/Straight Vanes and Rollers

Solid rigid centralizers are one series of casing centralizers, which are integral part of cementing processing. They are built out of solid steel bar or cast iron with a fixed blade height and are sized to fit a specific casing or hole size.

It is available in steel or aluminum materials with spiral or straight blade body construction in standard and customized sizes to match different casing sizes and wellbore conditions. Roller centralizers are also available for customers' requirements.

Solid rigid centralizers are available in deviated or horizontal wells. But it is rarely selected in the vertical wells because of the smaller diameter than the wellbore.



## Categories ▼

### Straight/Spiral Vane Solid Centralizer



Straight vane solid centralizer



Spiral vane solid centralizer

- › Available in straight or spiral vane types
- › It is used in areas where a good primary cementing job is required, including deviated and horizontal wells, liner overlaps and shoe joints.
- › Spiral vane is developed in response to the need for better cementing and can provide optimum flow area in high deviated and horizontal well.
- › Reduced flow area between the spiral blades produces a vortex motion of the fluids for more fluid velocity with direction.
- › Made of cast steel, which is high tensile and solid for shock and impact resistance.
- › 360 degree overlapping solid vanes provide maximum wall contact and fluid swirl.
- › Powder coating treatment provide excellent corrosion and rust resistance performance.
- › Vane ends are beveled 30 degree relative to the casing centerline to provide excellent lead into restrictions and reduced drag when running in the wellbore. Besides, it keeps running forces at a minimum.
- › Wide vanes distribute load from the casing string into the wellbore without gouging.
- › Standard size is 4-1/2" to 20". Any special sizes or combinations can be customized on request.
- › Available in with or without set screws for eliminating of stop collars.

### Straight/Spiral Roller Solid Centralizer



Straight roller solid centralizer



Spiral roller solid centralizer

- › Fully heat treated rollers are fixed on every straight or spiral blades/vanes.
- › Better capacity than the straight/spiral vanes solid centralizers because of rigid body and rolling friction between the roller and inside of well or casing.
- › Made of cast steel, which is high tensile and solid for shock and impact resistance.
- › Roller/wheeled centralizers are mainly used for high deviated wells and horizontal wells to centralize casing.
- › Can remove wellbore cake and improve mud replacement efficiency.
- › Provide superior wear resistance and remain functional throughout the life of the well and can aid in casing/tubing retrieval.
- › Smaller roller-contact area reduces the risk of differential sticking and maintains standoff when running casing through open holes.
- › Rollers are crimped in place, eliminating the welding process, while ensuring the rollers cannot bread free and fall into the wellbore.
- › Available in sizes 4-1/2" to 20".

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Straight vane aluminum  
solid centralizer



Spiral vane aluminum  
solid centralizer

### Straight/Spiral Vane Aluminum Solid Centralizer

- › Made of high tensile, solid, cast aluminum for shock, impact and corrosion resistance.
- › Used in areas where a good primary cementing job is required, including deviated and horizontal wells, liner overlaps and shoe joints.
- › Suitable for either cased or open hole.
- › Spiral vanes fully overlap to give 100% wellbore coverage and increase annular turbulence to improve wellbore cleanout.
- › Vane ends are beveled 30 degree relative to the casing centerline to provide excellent lead into restrictions and reduced drag when running in the wellbore. Besides, it keeps running forces at a minimum.
- › Wide vanes distribute load from the casing string into the wellbore without gouging.
- › Standard size is 4-1/2" to 20". Any special sizes or combinations can be customized on request.



### Slip-On Stand Off Band Centralizer

- › The centralizer is made of stamped steel.
- › It is designed for vertical well configurations where lateral loads are at a minimum.
- › It is designed to provide a positive stand off the casing for both cased and open holes.
- › The stand off centralizer is required where close tolerance between the casing and the hole is being encountered.
- › It allows for reciprocation and rotation during cementing and can be installed between set screw stop collar.
- › Available in all sizes ranging from 4-1/2" to 20" and any special sizes or combinations are available on request.



### Slip-On Welded Straight Cage Rigid Centralizer

- › It is designed for high deviated horizontal well where casing centralization is the main consideration.
- › Rolled alloy steel bars are welded to the one piece roll formed end collar under required temperature.
- › Provide superior toughness over other material.
- › Its insured positive standoff, maximum flow, maximum well bore stabilization, maximum holding strength and decreased drag.
- › It is directly installed on pipe by slipping on and with or without setscrews for elimination of stop collar.
- › All centralizers are painted or coated with polyester powder.
- › Available in all sizes ranging from 4-1/2" to 20" and any special sizes and combinations are available on request.



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## Specifications ▼

Size (in.)	Inside Diameter (mm)	Height (mm)	Total Height (mm)	Max. Outside Diameter (mm)
5" × 6-1/2"	128–131	110	650	175
5" × 6-1/4"	130–132	110	650	170
5" × 12-1/4"	128–131	105	690	330
5" × 20"	128–131	105	720	535
5-1/2" × 7"	142–148	55	650	215
5-1/2" × 8-1/2"	142–148	55	650	225
5-1/2" × 8-1/2"	142–148	110	650	225
6" × 8-1/2"	156–158	55	650	235
7" × 8-1/2"	181–186	55	650	235
7" × 8-1/2"	181–186	110	650	235
7" × 9-5/8"	181–186	55	650	255
7" × 9-5/8"	181–186	110	650	255
7-5/8" × 9-1/2"	196–200	110	650	250
7-5/8" × 9-5/8"	197–201	55	650	275
7-5/8" × 12-1/4"	197–201	55	650	275
8-5/8" × 12-1/4"	223–228	55	650	330
9-5/8" × 12-1/4"	250–255	55	650	330
9-5/8" × 12-1/4"	250–255	110	650	330
10-3/4" × 12-1/4"	274–276	55	650	330
10-3/4" × 12-1/4"	274–276	110	650	330
13-3/8" × 17-1/2"	342–347	55	650	450
13-3/8" × 17-1/2"	342–347	110	650	450
18-5/8" × 24"	476	55	600	610
20" × 26"	510	55	600	660

## Applications ▼

The solid rigid centralizer ensure positive centering in deviated or horizontal holes. It can provide mechanism to centralize the casing in the wellbore and allow uniform cement flow around the casing by reducing the effects of channeling and protect the casing at all points.

But since the centralizers are smaller than the wellbore, they will not provide a good centralization as the bow spring centralizers do in vertical wells.



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**CATALOG**

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