



SHAFT COLLARS

Product Guide



RS PRO

SHAFT COLLARS

- **Set Screw**
- **Clamp Style**
- **One Piece**
- **Two Piece**



Shaft Collars

Shaft Collars, also known as locking collars or shaft clamps are circular metal or plastic components that fit onto a shaft. Simple in design these components are one of the most important machine components in industry today. Collars are typically used for securing bearings and sprockets on a shaft, locating components in motor and gearbox assemblies, or alternatively as a mechanical stop.

What are the different types of Shaft collars?

There are two main types of collars, set screw and clamp. Each is designed to fix to the shaft in a different way.

Set screw

Set screw collars are attached to a shaft with screws. The screws are tightened and bite into the shaft itself. They work better when the shaft is made from a material that is softer than the screws themselves. Set screw collars possess impressive holding power and high torque capacities. While this type of collar is still used, the screws can damage the shaft and leave indentations making it difficult to reposition or remove the collars. Set screw collars are best used when the material of the shaft is softer than the set screw material. The set screw causes damage to the shaft (a flare-up of shaft material). This makes the collar harder to adjust or remove. Small flats machined onto the shaft at the set screw locations can help to eliminate this problem.

Clamp Style

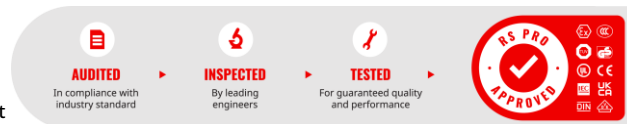
Clamping collars are mounted onto the shaft using the compression method locking it securely into place. This type of collar has many benefits over the set screw type making them a more popular choice. They are easy to fit and do not cause damage to the shaft itself. Clamping collars have exceptional holding power due to the even distribution of force on the shaft. Clamping collars can be a one-piece or two-piece design. Clamp-type collars work very well under relatively constant loads; however, shock loads can cause the collar to shift its position on the shaft. This is due to the very high forces that can be created by a relatively small mass during impact, compared to a statically or gradually applied load. An option for applications with this type of loading, is to make an undercut on the shaft and to use a clamp collar to create a positive stop, that is more resistant to shock loads.

One Piece

Shaft collars use screw clamps to tighten the collar to the shaft, these can be used on split hub applications.

Two Piece

Shaft collars can be used when it is difficult to install a one-piece collar. They offer the same benefits with the added convenience when installing. Clamp-style collars offer a no-tool option, they are adjusted by hand are ideal for light-duty applications where frequent change or adjustments are needed.



RS PRO SHAFT COLLARS

- Content**

Content

- **Metric Bore One Piece Set Screw Shaft Collars in Steel**
- **Metric Bore One Piece Set Screw Shaft Collars in Stainless Steel**
- **Imperial Bore One Piece Set Screw Shaft Collars in Steel**
- **Metric Bore Single Split Shaft Collars in Steel**
- **Metric Bore Single Split Shaft Collars in Stainless Steel**
- **Imperial Bore Single Split Shaft Collars in Steel**
- **Metric Bore Double Split Shaft Collars in Steel**
- **Metric Bore Double Split Shaft Collars in Stainless Steel**
- **Imperial Bore Double Split Shaft Collars in Steel**



RS PRO SHAFT COLLARS

- One Piece
- Set Screw
- Metric
- One Piece
- Steel



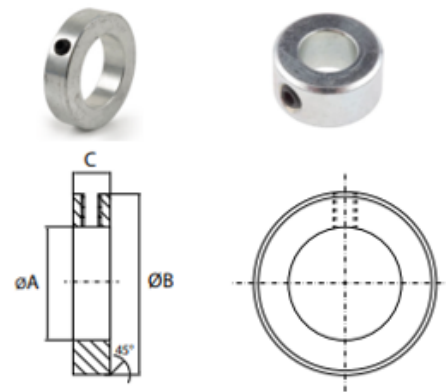
Metric Bore One Piece Set Screw Shaft Collars in Steel

RS PRO range of zinc plated steel shaft collars for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts.

- Supplied with setscrew.
- Made from high strength level EN8 Steel that have better properties than medium steel.
- One Piece
- Zinc plated for corrosion resistance.
- Quick and easy installation
- Metric bore sizes.

Specification	
Material	Steel EN8
Finish	Zinc Plated
Fastening	Set Screw (included)
One / Two Piece	One Piece

Tolerances (mm)	
Diameter A (4mm – 13mm)	+ 0.01mm / + 0.06mm
Diameter A (14mm – 70mm)	+ 0.01mm / + 0.08mm
Diameter B	+ 0.127 / - 0.000mm
Length C	+ 0.12mm / - 0.12mm



Please see next page for product line card



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For guaranteed quality and performance



RS PRO

SHAFT COLLARS

- One Piece
- Set Screw
- Metric
- No Split
- Steel



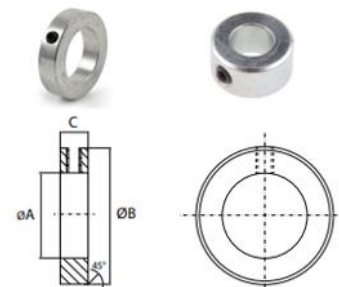
Stock No.	Shaft Diameter (Bore) A (mm)	Outside Diameter B (mm)	Width C (mm)	Threaded Bore Size (Setscrew)
8236932	4 mm	8 mm	5 mm	M2.5
8236935	5 mm	10 mm	6 mm	M3
8236939	6 mm	12 mm	8 mm	M4
8236948	7 mm	12 mm	8 mm	M4
8236941	8 mm	16 mm	8 mm	M4
8236945	9 mm	18 mm	10 mm	M5
8236954	10 mm	20 mm	10 mm	M5
1828016	11 mm	20 mm	10 mm	M5
8236957	12 mm	22 mm	12 mm	M6
1828018	13 mm	22 mm	12 mm	M6
8236951	14 mm	25 mm	12 mm	M6
8236960	15 mm	25 mm	12 mm	M6
8236963	16 mm	28 mm	12 mm	M6
1828019	17 mm	28 mm	12 mm	M6
8236967	18 mm	32 mm	14 mm	M6
1828020	19 mm	32 mm	14 mm	M6
8236976	20 mm	32 mm	14 mm	M6
8236979	22 mm	36 mm	14 mm	M6
8236973	24 mm	40 mm	16 mm	M8
8236982	25 mm	40 mm	16 mm	M8
1828021	26 mm	45 mm	16 mm	M8
8236985	28 mm	45 mm	16 mm	M8
8236989	30 mm	45 mm	16 mm	M8
8236998	32 mm	50 mm	16 mm	M8
8236991	35 mm	56 mm	16 mm	M8
1828022	36 mm	56 mm	16 mm	M8
8236995	40 mm	63 mm	18 mm	M10

Specification

Material	Steel EN8
Finish	Zinc Plated
Fastening	Set Screw (included)
One / Two Piece	One Piece

Tolerances (mm)

Diameter A (4mm - 13mm)	+ 0.01mm / + 0.06mm
Diameter A (14mm - 70mm)	+ 0.01mm / + 0.08mm
Diameter B	+ 0.127 / - 0.000mm
Length C	+ 0.12mm / - 0.12mm



RS PRO SHAFT COLLARS

- One Piece
- Set Screw
- Metric
- No Split
- Stainless Steel



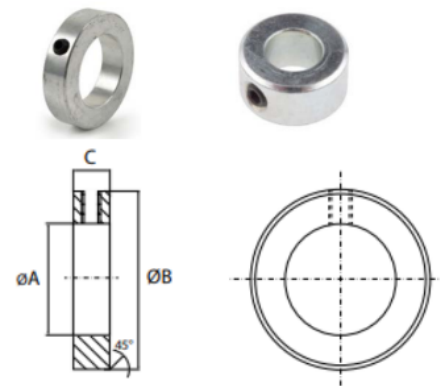
Metric Bore One Piece Set Screw Shaft Collars in Stainless

RS PRO range of Stainless Steel 304 shaft collars for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts.

- Supplied with setscrew.
- Stainless Steel 304
- One Piece
- Corrosion resistance finish
- Quick and easy installation
- Metric bore sizes

Specification	
Material	Stainless Steel 304
Finish	Corrosion resistant
Fastening	Set Screw (included)
One / Two Piece	One Piece
Metric / Imperial	Metric

Tolerances (mm)	
Diameter A (4mm - 13mm)	+ 0.01mm / + 0.06mm
Diameter A (14mm - 70mm)	+ 0.01mm / + 0.08mm
Diameter B	+ 0.127 / - 0.000mm
Length C	+ 0.12mm / - 0.12mm



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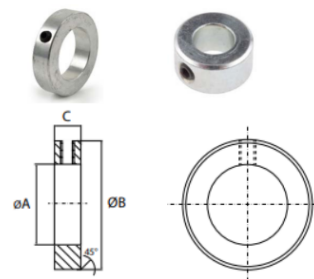
SHAFT COLLARS

- One Piece
- Set Screw
- Metric
- No Split
- Stainless Steel



Specification	
Material	Stainless Steel 304
Finish	Corrosion resistant
Fastening	Set Screw (included)
One / Two Piece	One Piece
Metric / Imperial	Metric

Tolerances (mm)	
Diameter A (4mm - 13mm)	+ 0.01mm / + 0.06mm
Diameter A (14mm - 70mm)	+ 0.01mm / + 0.08mm
Diameter B	+ 0.127 / - 0.000mm
Length C	+ 0.12mm / - 0.12mm



Stock No.	Shaft Diameter (Bore) A (mm)	Outside Diameter B (mm)	Width C (mm)	Threaded Bore Size (Setscrew)
1223448	5 mm	10 mm	6 mm	M3
1223449	6 mm	12 mm	8 mm	M4
1223450	8 mm	16 mm	8 mm	M4
1223451	10 mm	20 mm	10 mm	M5
1223452	12 mm	22 mm	12 mm	M6
1223453	14 mm	25 mm	12 mm	M6
1223454	15 mm	25 mm	12 mm	M6
1223455	16 mm	28 mm	12 mm	M6
1223456	18 mm	32 mm	14 mm	M6
1223457	20 mm	32 mm	14 mm	M6
1223458	22 mm	36 mm	14 mm	M6
1223459	24 mm	40 mm	16 mm	M8
1223460	25 mm	40 mm	16 mm	M8
1223461	30 mm	45 mm	16 mm	M8
1223462	32 mm	50 mm	16 mm	M8

RS PRO SHAFT COLLARS

- One Piece
- Set Screw
- Imperial
- No Split
- Steel



Imperial Bore One Piece Set Screw Shaft Collars in Steel

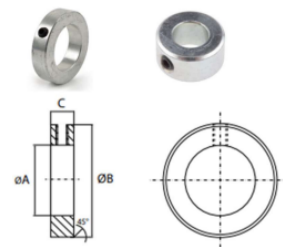


RS PRO range of Steel En8 Zinc plated shaft collars for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts.

- Supplied with setscrew.
- Steel En8 Zinc plated.
- One Piece
- Zinc plated for corrosion resistance.
- Quick and easy installation
- Imperial bore sizes

Specification	
Material	EN8 Steel
Finish	Zinc Plated
Fastening	Set Screw (included)
One / Two Piece	One Piece

Tolerances (mm)	
Diameter A (0.187" - 0.875")	+ 0.001" / + 0.003"
Diameter A (1" - 3")	+ 0.001" / + 0.004"
Diameter B	+ 0.005" / - 0.000"
Length C	+ 0.005" / - 0.005"



Stock No.	Shaft Diameter (Bore) A (Inch)	Outside Diameter B (Inch)	Width C (Inch)	Threaded Bore Size (Setscrew)
0145685	0.187	0.5	0.25	8-32 UNC
0145687	0.25	0.5	0.281	8-32 UNC
0145688	0.312	0.625	0.312	10-32 UNF
0145690	0.375	0.75	0.375	10-32 UNF
0145691	0.5	1	0.437	1/4 BSW or 1/4-20 UNC
0145693	0.625	1.25	0.562	1/4 BSW or 1/4-20 UNC
0145694	0.75	1.375	0.687	5/16 BSW or 5/16-18 UNC
0145696	0.875	1.5	0.687	5/16 BSW or 5/16-18 UNC
0145697	1	1.625	0.75	5/16 BSW or 5/16-18 UNC
0145698	1.25	2	0.875	3/8 BSW or 3/8-16 UNC
0145700	1.5	2.25	1	3/8 BSW or 3/8-16 UNC

RS PRO SHAFT COLLARS

- One Piece
- Clamp Screw
- Metric
- Single Split
- Steel



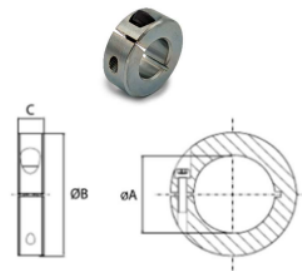
Metric Bore Single Split Shaft Collars in Steel

RS PRO range in Steel AISI/SAE 1018 Zinc plated supplied with clamp bolt for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts.

- Supplied with Clamp Screw.
- Steel AISI/SAE 1018
- Single Split
- Zinc plated for corrosion resistance.
- Quick and easy installation
- Metric bore sizes

Specification	
Material	Steel AISI/SAE 1018
Finish	Zinc Plated
Fastening	Clamp Screw (included)
One / Two Piece	One Piece
Split	Single Split
Metric / Imperial	Metric

Tolerances (mm)	
Diameter A (3mm – 6mm)	+ 0.05mm / + 0.00mm
Diameter A (7mm – 28mm)	+ 0.07mm / + 0.00mm
Diameter A (30mm – 80mm)	+ 0.12mm / + 0.00mm
Diameter B	+ 0.20 / – 0.20mm
Length C	+ 0.08mm / – 0.25mm



Stock No.	Shaft Diameter (Bore) A (mm)	Outside Diameter B (mm)	Width C (mm)	Threaded Bore Size (Clamp Screw)
0145653	8	18	9	M3 x 8
0145654	10	24	9	M3 x 10
0145656	12	28	11	M4 x 12
0145657	16	34	13	M5 x 16
0145659	20	40	15	M6 x 16
0145660	25	45	15	M6 x 16
0145662	30	54	15	M6 x 18
0145663	35	57	15	M6 x 18
0145665	40	60	15	M6 x 18
0145666	50	78	19	M8 x 25

RS PRO SHAFT COLLARS

- One Piece
- Clamp Screw
- Metric
- Single Split
- Stainless Steel



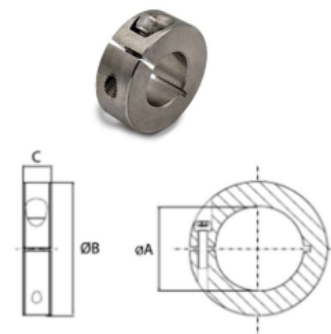
Metric Bore Single Split Shaft Collars in Stainless Steel

RS PRO range in Stainless Steel 304 supplied with clamp bolt for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts

- Supplied with Clamp Screw.
- Stainless Steel 304
- Single Split
- Quick and easy installation
- Metric bore sizes

Specification	
Material	Stainless Steel 304
Finish	Corrosion Resistant
Fastening	Clamp Screw (included)
One / Two Piece	One Piece
Split	Single Split
Metric / Imperial	Metric

Tolerances (mm)	
Diameter A (3mm – 6mm)	+ 0.05mm / + 0.00mm
Diameter A (7mm – 28mm)	+ 0.07mm / + 0.00mm
Diameter A (30mm – 80mm)	+ 0.12mm / + 0.00mm
Diameter B	+ 0.20 / - 0.20mm
Length C	+ 0.08mm / - 0.25mm



Stock No.	Shaft Diameter (Bore) A (mm)	Outside Diameter B (mm)	Width C (mm)	Threaded Bore Size (Clamp Screw)
0145668	10	24	9	M3 x 10
0145669	12	28	11	M4 x 12
0145671	14	30	11	M4 x 14
0145672	15	34	13	M5 x 16
0145674	16	34	13	M5 x 16
0145675	20	40	15	M6 x 16
0145676	25	45	15	M6 x 16
0145678	30	54	15	M6 x 18
0145679	40	60	15	M6 x 18

RS PRO SHAFT COLLARS

- One Piece
- Clamp Screw
- Imperial
- Single Split
- Steel



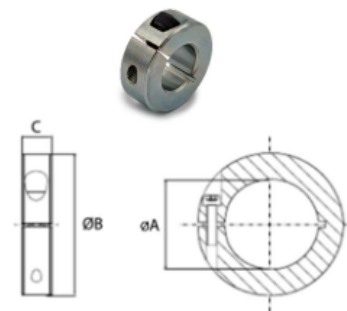
Imperial Bore Single Split Shaft Collars in Steel

RS PRO range in Steel AISI/SAE 1018 Zinc plated supplied with clamp bolt for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts.

- Supplied with Clamp Screw.
- Steel AISI/SAE 1018
- Single Split
- Zinc plated for corrosion resistance.
- Quick and easy installation
- Imperial bore sizes.

Specification	
Material	Steel AISI/SAE 1018
Finish	Zinc Plated
Fastening	Clamp Screw (included)
One / Two Piece	One Piece
Split	Single Split
Metric / Imperial	Imperial

Tolerances (mm)	
Diameter A (0.250" - 1.125")	+ 0.003" / 0
Diameter A (1.250" - 2.750")	+ 0.005" / 0
Diameter A (3.000" above)	+ 0.007" / 0
Diameter B	+ 0.008" / - 0.008"
Length C	+ 0.008" / - 0.008"



Stock No.	Shaft Diameter (Bore) A (Inch)	Outside Diameter B (Inch)	Width C (Inch)	Threaded Bore Size (Clamp Screw)
0145680	0.25	0.625	0.281	4-40 UNC
0145681	0.5	1.125	0.406	8-32 UNC
0145682	0.75	1.5	0.5	1/4-28 UNF
0145684	1	1.75	0.5	1/4-28 UNF

RS PRO SHAFT COLLARS

- Two Piece
- Clamp Screw
- Metric
- Double Split
- Steel



Metric Bore Double Split Shaft Collars in Steel

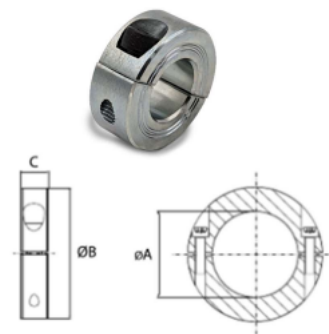


RS PRO range in Steel AISI/SAE 1018 Zinc plated supplied with clamp bolt for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts.

- Supplied with Clamp Screw.
- Steel AISI/SAE 1018
- Double Split
- Zinc plated for corrosion resistance.
- Quick and easy installation
- Metric bore sizes.

Specification	
Material	Steel AISI/SAE 1018
Finish	Zinc Plated
Fastening	Clamp Screw (included)
One / Two Piece	Two Piece
Split	Double Split
Metric / Imperial	Metric

Tolerances (mm)	
Diameter A (3mm – 6mm)	+ 0.05mm / + 0.00mm
Diameter A (7mm – 28mm)	+ 0.07mm / + 0.00mm
Diameter A (30mm – 80mm)	+ 0.12mm / + 0.00mm
Diameter B	+ 0.20 / - 0.20mm
Length C	+ 0.08mm / - 0.25mm



Stock No.	Shaft Diameter (Bore) A (mm)	Outside Diameter B (mm)	Width C (mm)	Threaded Bore Size (Clamp Screw)
0145621	8	18	9	M3 x 8
0145622	10	24	9	M3 x 10
0145624	12	28	11	M4 x 12
0145625	15	34	13	M5 x 16
0145626	20	40	15	M6 x 16
0145628	25	45	15	M6 x 16
0145629	30	54	15	M6 x 18
0145630	35	57	15	M6 x 18
0145631	40	60	15	M6 x 18
0145632	50	78	19	M8 x 25

RS PRO SHAFT COLLARS

- Two Piece
- Clamp Screw
- Metric
- Double Split
- Stainless Steel



Metric Bore Double Split Shaft Collars in Stainless Steel

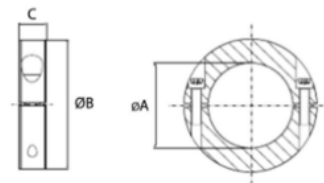


RS PRO range in Stainless Steel 304 supplied with clamp bolt for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts

- Supplied with Clamp Screw.
- Stainless Steel 304
- Double Split
- Quick and easy installation
- Metric bore sizes

Specification	
Material	Stainless Steel 304
Finish	Corrosion Resistant
Fastening	Clamp Screw (included)
One / Two Piece	Two Piece
Split	Double Split
Metric / Imperial	Metric

Tolerances (mm)	
Diameter A (3mm – 6mm)	+ 0.05mm / + 0.00mm
Diameter A (7mm – 28mm)	+ 0.07mm / + 0.00mm
Diameter A (30mm – 80mm)	+ 0.12mm / + 0.00mm
Diameter B	+ 0.20 / – 0.20mm
Length C	+ 0.08mm / – 0.25mm



Stock No.	Shaft Diameter (Bore) A (mm)	Outside Diameter B (mm)	Width C (mm)	Threaded Bore Size (Clamp Screw)
0145634	10	24	9	M3 x 10
0145635	12	28	11	M4 x 12
0145637	14	30	11	M4 x 14
0145638	15	34	13	M5 x 16
0145640	16	34	13	M5 x 16
0145641	20	40	15	M6 x 16
0145643	25	45	15	M6 x 16
0145644	30	54	15	M6 x 18
0145646	40	60	15	M6 x 18

RS PRO SHAFT COLLARS

- Two Piece
- Clamp Screw
- Imperial
- Double Split
- Steel



Imperial Bore Double Split Shaft Collars in Steel

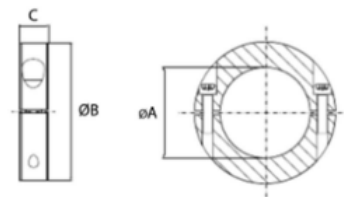


RS PRO range in Steel AISI/SAE 1018 Zinc plated supplied with clamp bolt for positioning or aligning power transmission components such as bearings, sprockets and pulleys to shafts

- Supplied with Clamp Screw.
- Steel AISI/SAE 1018
- Double Split
- Zinc plated for corrosion resistance.
- Quick and easy installation
- Imperial bore sizes

Specification	
Material	Steel AISI/SAE 1018
Finish	Zinc Plated
Fastening	Clamp Screw (included)
One / Two Piece	Two Piece
Split	Double Split
Metric / Imperial	Imperial

Tolerances (mm)	
Diameter A (0.250" - 1.125")	+ 0.003" / 0
Diameter A (1.250" - 2.750")	+ 0.005" / 0
Diameter A (3.000" above)	+ 0.007" / 0
Diameter B	+ 0.008" / - 0.008"
Length C	+ 0.008" / - 0.008"



Stock No.	Shaft Diameter (Bore) A (Inch)	Outside Diameter B (Inch)	Width C (Inch)	Threaded Bore Size (Clamp Screw)
0145647	0.25	0.625	0.281	4-40 UNC
0145648	0.5	1.125	0.406	8-32 UNC
0145650	0.75	1.5	0.5	1/4-28 UNF
0145652	1	1.75	0.5	1/4-28 UNF

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