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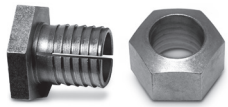
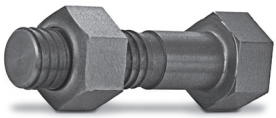
A 7Z36M...



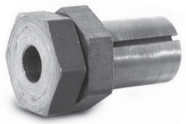
M-Type Shaftloc® pg. **4**-4

A 7Z38M...



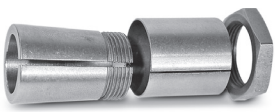
A-Type Shaftloc® pg. **4**-5

A 7Z39M...



Single-Ended Shaftloc® Sleeves pg. **4**-6

S99TBSM..

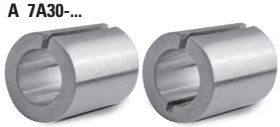


Taper Bushings pg. **4**-7

S21AMYM...
S21HSCM...

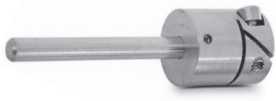
Locking Hub Bushings pgs. **4**-8 & **4**-9

A 7A30M...
A 7A30-...



Bore Reducers pgs. **4**-10 & **4**-11

S52FCYM...

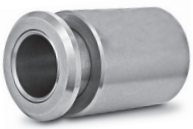


Fairloc® Shaft Reducers & Extenders pg. **4**-12

S25FB9M...
S25FY9M...

Fairloc® Shaft Collar pg. **4**-13

S25FLYM...



Fastlock Shaft Collars pg. **4**-14

S25CY9MPC...

Set Screw Shaft Collars pg. **4**-15

A 7C 2M...
A 7Z 2M...
A 7X 2M...

Set Screw Collar pg. **4**-16

S25NSCM1S...
S25NSCM2S...

One- & Two-Piece Clamp-Type Collars pg. **4**-17

S21SACM...
S79RUBM...

Stroke Adjustment Shaft Collars & Rubber Bumpers pg. **4**-18

S64SBAM...

Shaft Supports pg. **4**-19

S61SFAM...

Flange Mounted Shaft Supports pg. **4**-19

For More on our Shaftloc®, see page 4-2

SHAFTLOC® A SUPERIOR WAY TO FASTEN ROTATING COMPONENTS

PATENTED

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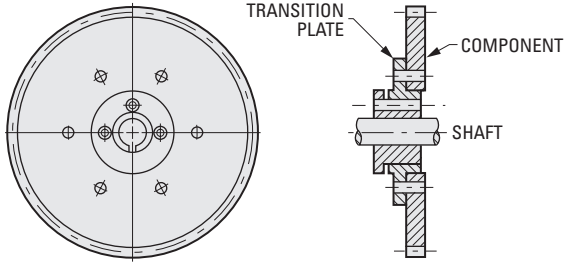
A SUPERIOR WAY TO FASTEN ROTATING COMPONENTS

Excelling because of its simplicity, it contains all structural features in only two parts. This new development is the Shaftloc® – a patented device (United States Patent No. 5,067,846 and No. 6,000,875) – manufactured and marketed by SDP/SI.

The usefulness of wedges and inclined surfaces for the lifting of heavy loads has been well-known for centuries. Similarly, the usefulness of tapered, conical surfaces has also been appreciated; in this case, for their ability to produce large forces.

An example of such an application is the use of a tapered cylindrical split bushing (see illustration) to fasten a rotating component to a shaft. The axial force, which results from tightening the bolts, is translated into amplified radial forces that close the split bushing.



PREVIOUS METHOD

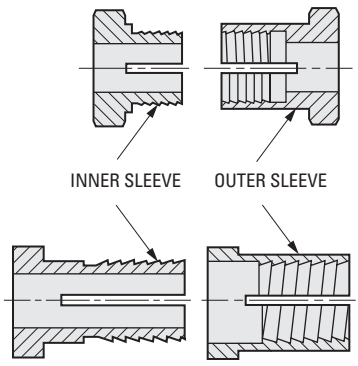
In this way, fastening of the component to the shaft is achieved. A disadvantage of this particular method is that the component must have a tapered bore.

A modification of this method, so that it can be used to fasten components with cylindrical bores, involves the use of a transition plate which contains the tapered bore.

However, the Shaftloc® design is the ULTIMATE in fastening methods for the following reasons:

Shaftloc® has only two parts:
A slotted outer sleeve and a slotted inner sleeve, both of which have hexagonal heads. The outer sleeve is cylindrical on its outside diameter, and threaded on its inside diameter. Conversely, the inner sleeve is threaded on its outside diameter, and cylindrical on its inside diameter. The thread is unique in that it is not symmetrical and that it creates a continuous inclined surface.

How Shaftloc® works:
The shallow angle of the thread produces large amplifications of forces, resulting in substantial torque transmission capability between the component and the shaft.



STYLE 1:
A 7Z37-series
Double-Ended

STYLE 2:
A 7Z39-series
A 7Z39M-series
Single-Ended

› **Shaftloc®** is an easy to use fastener, see our instructional video at:
https://www.sdp-si.com/videos/Shaftloc.php

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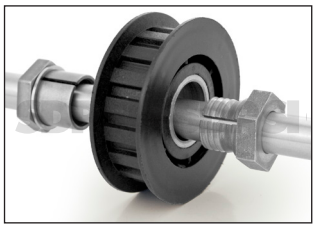
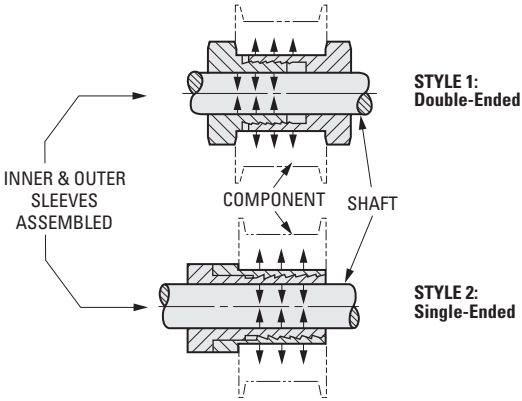
DISTINCT ADVANTAGES OF SHAFTLOC® OVER OTHER FASTENING DEVICES:

- Simplicity of design – few parts
- No marring of shafts
- Easy repositioning or synchronizing of rotating components.
- Ease of assembly
- Applicability to small shaft diameters
- Availability in all stainless steel construction
- Ability to be used for stationary breadboard or production structures
- Low-cost

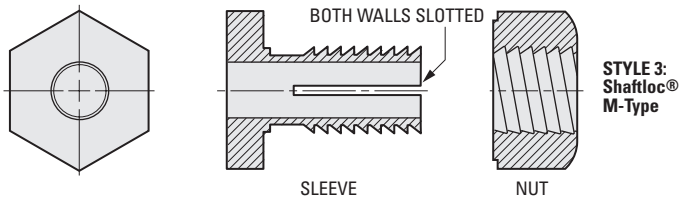


Style 1: Double-Ended
When the two sleeves are threaded into each other with a component placed between them, tightening the sleeves will cause the outer one to expand and the inner one to contract.

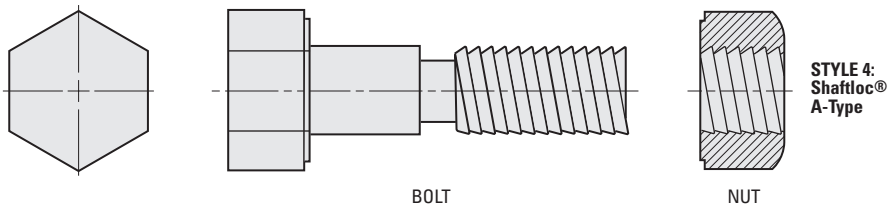
Style 2: Single-Ended
When the two sleeves are threaded into each other and slipped into the component, tightening the sleeves will cause the outer one to expand and the inner one to contract.



Style 3: Shaftloc® M-Type
Two-piece construction consists of a slotted sleeve and a nut, both of hexagonal shape. Used as a locking device for rigidly mounting mechanical components on a shaft. Tightening the nut next to the component causes the slotted sleeve to contract by gripping the shaft and clamping the part to the sleeve at the same time.



Style 4: Shaftloc® A-Type
Two-piece construction consists of a bolt and a nut which becomes a vibration-resistant fastener when the nut is tightened to embrace the component mounted to it. The two-piece unit uses the wedging action between the shallow thread inclines of the nut and bolt when the nut is tightened against the component mounted on the bolt.



M-TYPE SHAFTLOC®

SDP/SI
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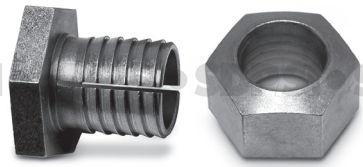
SELF-LOCKING
VIBRATION-RESISTANT
NONMARRING OF SHAFT
INSTALLED WITH STANDARD TOOLS
REUSABLE

Metric
0 10



MATERIAL:

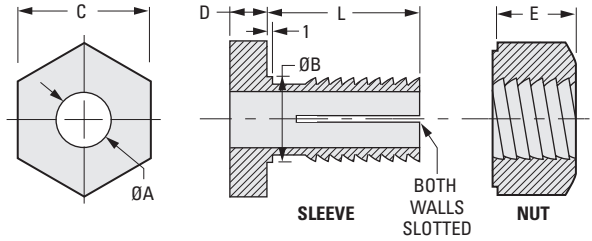
416 Stainless Steel, Passivated

SPECIFICATIONS:

Used as a locking device for rigidly mounting mechanical components onto a shaft. Due to its asymmetric thread geometry, a large radial clamping force is produced when the nut is tightened. It is a precision, dynamically balanced product suitable for high-speed applications. This simple two-piece keyless fastener can be installed within seconds, reducing assembly costs. Tightening the nut causes the slotted sleeve to contract, gripping the shaft and clamping the part to the sleeve at the same time. Keyways and screws are now obsolete; can be installed on shafts with existing keyways.

Special sizes available upon request.

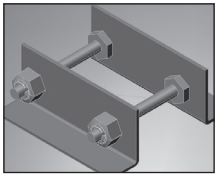
Sold in Pairs



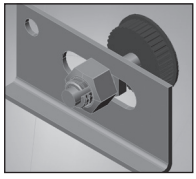
METRIC COMPONENT

Catalog Number	A Dia. +0.025 0	B Dia. 0 -0.025	C	D	E	L
A 7Z36M0612	6	10	14	4	7	12
A 7Z36M1016	10	14	18		12	16
A 7Z36M1218	12	16	24	5	14	18

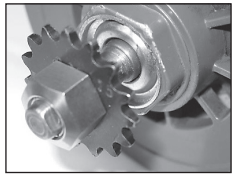
Diameters A and B concentric within 0.013 T.I.R.



A superior method for building frames, mounting shafts, pins, rails or any cylindrical components to thin sheet metal or plastic walls.



Ideal in slots or oversized holes used for shaft position or belt tension adjustment applications.



Mounts hubless gears, sprockets, pulleys, cams or any thin walled components onto a shaft. Offers infinite radial and axial adjustments and quick lock and release action.

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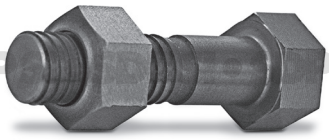
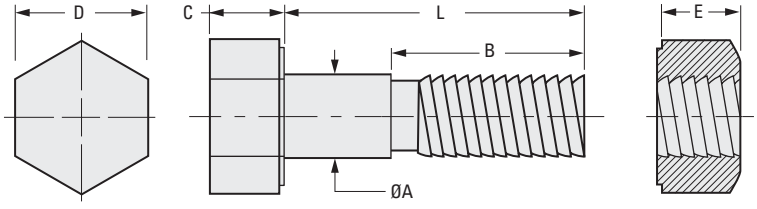
SELF-LOCKING
VIBRATION-RESISTANT
INSTALLED WITH STANDARD TOOLS
REUSABLE

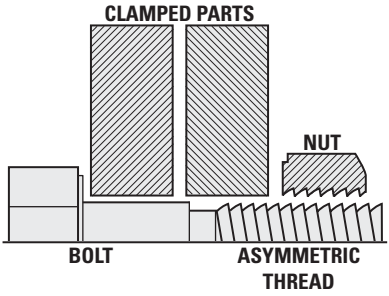
Metric
0 10



› MATERIAL:
416 Stainless Steel, Passivated



› SPECIFICATIONS:
These vibration-resistant fasteners employ asymmetric threads to self-lock. The two-piece unit uses the wedging action between the shallow thread inclines of the nut and bolt for self-locking when the nut encounters resistance.
The nut turns freely until it contacts parts being clamped together and additional turns wedge them into a locked and vibration-resistant condition.



Special sizes available upon request.

Sold in Pairs

METRIC COMPONENT

Catalog Number	A Dia. 0 -0.05	L	B	C	D	E
A 7Z38M0619	6.5	19	19	4	10	6.1
A 7Z38M0625		25				
A 7Z38M0632		32				
A 7Z38M0820	8	20	20	5	14	7
A 7Z38M0825		25				
A 7Z38M0832		32				
A 7Z38M1025	10	25	25	7	16	8.9
A 7Z38M1032		32				
A 7Z38M1038		38				
A 7Z38M1332	13	32	32	8	18	11.7
A 7Z38M1338		38				
A 7Z38M1345		45				

SINGLE-ENDED SHAFTLOC® SLEEVES

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NEW SIZES ADDED
EASY ASSEMBLY
NO MARRING OF SHAFTS

Metric
0 10

› MATERIAL:

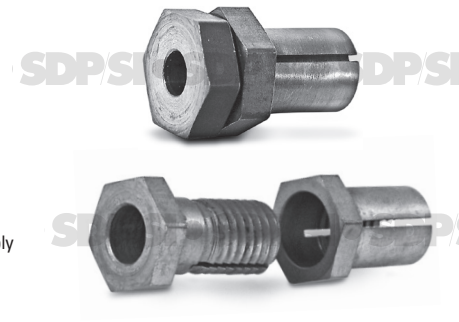
416 Stainless Steel

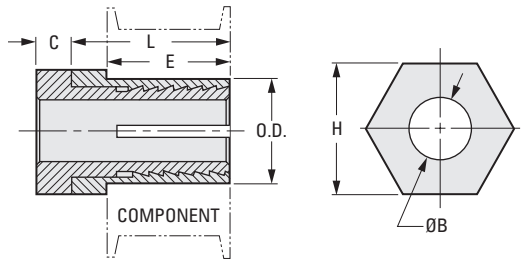
› SPECIFICATIONS:

For optimum performance, the clearances between the shaft, Shaftloc® and housing should not exceed 0.0254 mm.
Maximum torque capacity based on mating components being degreased before assembly with Shaftloc® coupling.

Single-Ended Shaftloc® Sleeves
Can be used with Precision Ground Shafting, Catalog Number A 7X 1M...

For Shaftloc® introduction and use, see page **4-2**.





The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d Bore +0.025 0	D Dia. 0 -0.025	A Hex Size	L	*l*	H	Max. Torque Capacity N • m
A 7Z39M0306	3	6	8	13.2	10	3.17	1.1
A 7Z39M0408	4	8	10	15.2	12		2.8
A 7Z39M0610	6	10	13	15.6		3.6	3.3
A 7Z39M0812	8	12	15	20	16	4	9.9
A 7Z39M1016	10	16	19				11
A 7Z39M1218	12	18	21	25.5	20	5.6	16.5
A 7Z39M1420	14	21	27	28.3		8.25	18.6
A 7Z39M1622	16	24	30	33.2	25		20.6
A 7Z39M1825	18	27	32	43		9.02	22.8

View our Shaftloc® ebook at http://info.designatronics.com/download-our-latest-shaftloc-catalog

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WON'T MAR SHAFT

Metric

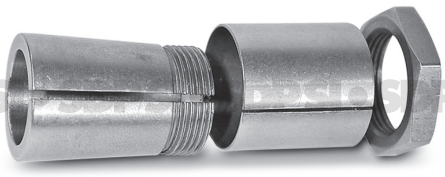
0 10

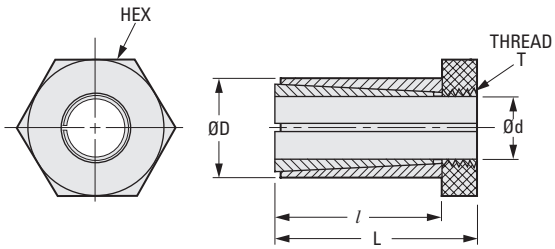
› MATERIAL:
Stainless Steel

› SPECIFICATIONS:
O.D. Tolerance:
8 & 10 mm 0/-0.015
12 to 17 mm 0/-0.018
20 to 28 mm 0/-0.021

Bore Tolerance:
4 to 6 mm +0.012/0
7 to 10 mm +0.015/0
11 to 17 mm +0.018/0
19 & 20 mm +0.021/0

Tolerance for diameters are before slitting.





The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d Bore H7	D Dia. h7	l	L ± 0.1	Hex Across Flats	T	Max. Torque N • m (lb • in)
S99TBSM04	4 (.157)	8 (.315)	12.5 (.492)	15 (.591)	8 (.315)	M6x0.5	3 (26.6)
S99TBSM05	5 (.197)	10 (.394)	12.5 (.492)	15 (.591)	10 (.394)	M8x0.5	4 (35.4)
S99TBSM06	6 (.236)						7 (62.0)
S99TBSM07	7 (.276)	12 (.472)	12 (.472)	15 (.591)	12 (.472)	M10x0.75	8 (70.8)
S99TBSM08	8 (.315)	14 (.551)	19 (.748)	22 (.866)	17 (.669)	M12x1	14 (123.9)
S99TBSM09	9 (.354)						
S99TBSM10	10 (.394)	17 (.669)	18.5 (.728)	22 (.866)	19 (.748)	M15x1	18 (159.3)
S99TBSM11	11 (.433)						
S99TBSM12	12 (.472)						
S99TBSM14	14 (.551)	20 (.787)	23 (.906)	28 (1.102)	22 (.866)	M17x1	24 (212.4)
S99TBSM15	15 (.591)						
S99TBSM16	16 (.630)	23 (.906)	23 (.906)	28 (1.102)	27 (1.063)	M20x1	26 (230.1)
S99TBSM17	17 (.669)						
S99TBSM19	19 (.748)	25 (.984)	23 (.906)	28 (1.102)	27 (1.063)	M22x1	29 (256.7)
S99TBSM20	20 (.787)	28 (1.102)	23 (.906)	28 (1.102)	30 (1.181)	M25x1	31 (274.4)

NOTE: Dimensions in ( ) are inch.

LOCKING HUB BUSHINGS

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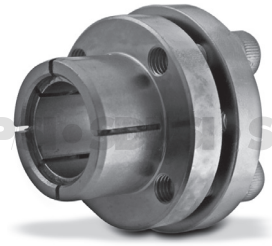
Metric
0 10

THREE-PIECE FRICTION GRIP CONSTRUCTION
CONNECTS ROTATING COMPONENT TO SHAFT
TRANSMITS HIGH TORQUE WITHOUT KEYWAYS



› MATERIAL:
Carbon Steel

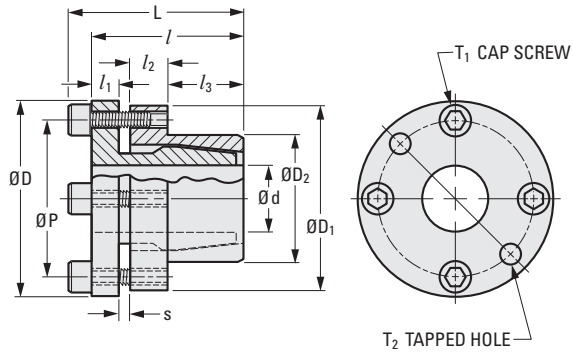
› FINISH:
Nickel Plated

› SPECIFICATIONS:

* Tolerance of mating shaft diameter (h8):
6 mm 0/-0.018
7 to 10 mm 0/-0.022
12 to 18 mm 0/-0.027
20 mm 0/-0.033

** Tolerance of mating bore of mounted component (H7):
12 to 18 mm +0.018/0
20 to 28 mm +0.021/0

Configuration and number of cap screws and tapped holes varies depending on catalog number.



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d* Bore	D Dia.	D_1 Dia.	D_2** Dia.	P Dia.	L	*l*	l_1	l_2	l_3	s	T_1 Cap Screw	T_2 Tapped Hole	Max. Torque N • m	Allow. Axial Force N	Bolt Tight. Torque N • m
S21AMYM062524	6	25	23	12	17	24	20	3.5	5	10	1.5	2-M4x8	2-M4	6	1948	2
S21AMYM072524	7													7		
S21AMYM082828	8	28	26	15	20	28	24	5	5	12	2	3-M4x10	3-M4	23	5898	4
S21AMYM092828	9													26		
S21AMYM103128	10	31	29	18	23	28	24	5	5	12	2	3-M4x10	3-M4	29	5898	4
S21AMYM123328	12	33	31	20	25							4-M4x10	2-M4	47	7798	
S21AMYM143528	14	35	33	22	27	28	24	5	5	12	2	4-M4x10	2-M4	55	7798	4
S21AMYM153934	15	39	36	23	29	34	29	6	7	14	2	4-M5x12	2-M5	95	12700	8
S21AMYM164034	16	40	37	24	30									100		
S21AMYM184234	18	42	39	26	32	34	29	6	7	14	2	4-M5x12	2-M5	110	12700	8
S21AMYM204434	20	44	41	28	34									130		

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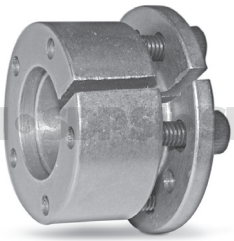
FITS COMPONENTS WITH LIMITED HUB O.D.
ELIMINATES KEYS OR SPLINES
IMPROVES FIT CONCENTRICITY
DEFINED AXIAL HUB POSITION
EASY AXIAL OR ANGULAR TIMING

Metric
0 10

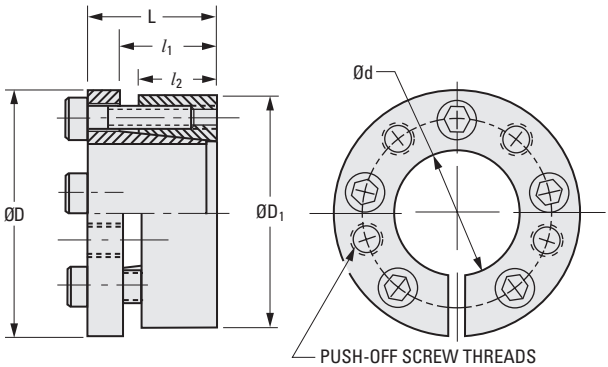


› MATERIAL:

Inner Body - Steel
Outer Sleeve - Steel
Socket Head Screws - Alloy Steel, Black Oxide Finish

› SPECIFICATION:

***** Tolerance of shaft diameter and mating mounted component bore is ± 0.025.



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d* Bore	D Dia.	D_1 Dia.	L	l_1	l_2	Locking Screw Size	Qty.	Screw Tightening Torque N • m	Max. Torque N • m
S21HSCM062024	6	23.8	20.6	16.5	13.1	10	M4	3	4.3	19
S21HSCM082225	8	25.4	22.2						5	29
S21HSCM102427	10	27	23.8							36
S21HSCM122730	12	30.2	27					4		58
S21HSCM153033	15	33.3	30.2	20.5	15.1	12	M4	6	5	109
S21HSCM163033	16	33.3	30.2							117
S21HSCM204045	20	44.5	39.7	25	19.2	15	M5	6	10	234
S21HSCM254348	25	47.6	42.9					8		390

BORE REDUCERS

METRIC TO METRIC REDUCTION

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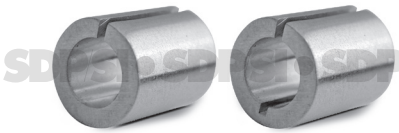
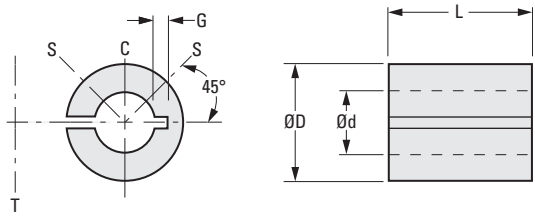
Metric
0 10

MATERIAL:
Aluminum

INSTALLATION RECOMMENDATIONS:
S = set screw positions in hub
C = for single set screw fastening
T = for tangential screw in clamp hub



SPECIFICATIONS:
Bore reducers with thicker walls may have slot extending into opposite wall for additional flexibility.
D and d tolerances are maintained before slitting.



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	D Dia. +0.013 -0.025	d Bore +0.025 0	G Groove Depth	L
A 7A30M060309	6	3	0.64 (.025)	9 (.354)
A 7A30M060312				12 (.472)
A 7A30M060409		4	—	9 (.354)
A 7A30M060412				12 (.472)
A 7A30M060509		5		9 (.354)
A 7A30M060512				12 (.472)
A 7A30M080412	8	4		12 (.472)
A 7A30M080416				16 (.625)
A 7A30M080512		5		12 (.472)
A 7A30M080516				16 (.625)
A 7A30M080612		6		12 (.472)
A 7A30M080616				16 (.625)
A 7A30M100512	10	5		12 (.472)
A 7A30M100516				16 (.625)
A 7A30M100522				22 (.865)
A 7A30M100612		6		12 (.472)
A 7A30M100616				16 (.625)
A 7A30M100622				22 (.865)
A 7A30M100812		8		12 (.472)

Catalog Number	D Dia. +0.013 -0.025	d Bore +0.025 0	G Groove Depth	L
A 7A30M100816	10	8	—	16 (.625)
A 7A30M100822				22 (.865)
A 7A30M120622	12	6	1.27 (.050)	22 (.865)
A 7A30M120635				35 (1.377)
A 7A30M120822		8	0.89 (.035)	22 (.865)
A 7A30M120835				35 (1.377)
A 7A30M121022		10	—	22 (.865)
A 7A30M121035				35 (1.377)
A 7A30M141022	14		0.89 (.035)	22 (.865)
A 7A30M141035				35 (1.377)
A 7A30M141222		12	—	22 (.865)
A 7A30M141235				35 (1.377)
A 7A30M161022	16	10	1.27 (.050)	22 (.865)
A 7A30M161035				35 (1.377)
A 7A30M161222		12	0.89 (.035)	22 (.865)
A 7A30M161235				35 (1.377)
A 7A30M161422		14	—	22 (.865)
A 7A30M161435				35 (1.377)

NOTE: Dimensions in ( ) are inch.

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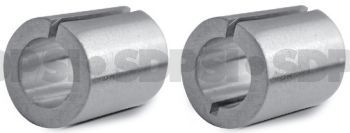
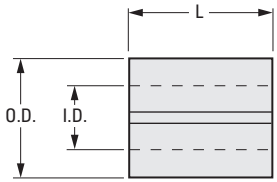
INCH TO METRIC REDUCTION

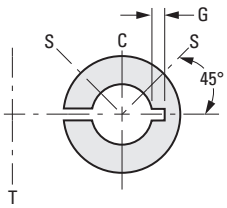
MATERIAL:
Aluminum or Brass where noted *

INSTALLATION RECOMMENDATIONS:
S = set screw positions in hub
C = for single set screw fastening
T = for tangential screw in clamp hub

SPECIFICATIONS:
Bore reducers with thicker walls may have a slot extending into opposite wall for additional flexibility.
O.D. and I.D. tolerances are maintained before slitting.







INCH COMPONENT

Catalog Number	O.D. +.0005 -.0010 in.	I.D. +0.025 0 mm	G Groove Depth in.	L in. (mm)
A 7A30-250309	.2500	3	.025	.354 (9)
A 7A30-250312				.472 (12)
A 7A30-250409		4	—	.354 (9)
A 7A30-250412				.472 (12)
A 7A30-250416				.625 (16)
A 7A30-250509		5		.354 (9)
A 7A30-250512				.472 (12)
A 7A30-250516				.625 (16)
A 7A30-250519				.750 (19)
*A 7B30-250609		6		.354 (9)
*A 7B30-250612				.472 (12)
*A 7B30-250616				.625 (16)
*A 7B30-250619				.750 (19)
*A 7B30-250622				.865 (22)
A 7A30-310609	.3125			.354 (9)
A 7A30-310612				.472 (12)
A 7A30-310616				.625 (16)
A 7A30-310619				.750 (19)
A 7A30-310622				.865 (22)
A 7A30-370512	.3750	5	.035	.472 (12)
A 7A30-370612		6		.472 (12)
A 7A30-370616				.625 (16)
A 7A30-370619				.750 (19)
A 7A30-370622				.865 (22)
A 7A30-370812		8	—	.472 (12)
A 7A30-370816				.625 (16)

Catalog Number	O.D. +.0005 -.0010 in.	I.D. +0.025 0 mm	G Groove Depth in.	L in. (mm)
A 7A30-370819	.3750	8	—	.750 (19)
A 7A30-370822				.865 (22)
A 7A30-500812	.5000		.035	.472 (12)
A 7A30-500816				.625 (16)
A 7A30-500819				.750 (19)
A 7A30-500822				.865 (22)
A 7A30-501012		10	—	.472 (12)
A 7A30-501016				.625 (16)
A 7A30-501019				.750 (19)
A 7A30-501022				.865 (22)
A 7A30-501212		12		.472 (12)
A 7A30-501216				.625 (16)
A 7A30-501219				.750 (19)
A 7A30-501222				.865 (22)
A 7A30-621012	.6250	10	.035	.472 (12)
A 7A30-621016				.625 (16)
A 7A30-621019				.750 (19)
A 7A30-621022				.865 (22)
A 7A30-621212		12	—	.472 (12)
A 7A30-621216				.625 (16)
A 7A30-621219				.750 (19)
A 7A30-621222				.865 (22)
A 7A30-621412		14		.472 (12)
A 7A30-621416				.625 (16)
A 7A30-621419				.750 (19)
A 7A30-621422				.865 (22)

NOTE: Dimensions in ( ) are mm.
* Brass

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Metric

0 10

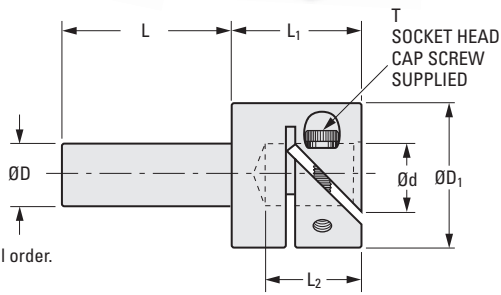
Precision Component

MATERIAL:
303 Stainless Steel

SPECIFICATIONS:
Bore Tolerance (H7):
3 mm +0.01/0
4, 5 & 6 mm +0.012/0
8 & 10 mm +0.015/0
12 mm +0.018/0

Shaft Tolerance (g6):
3 mm -0.002/-0.008
4, 5 & 6 mm -0.004/-0.012
8 & 10 mm -0.005/-0.014
12 mm -0.006/-0.017

d bores and D shaft concentric to within 0.025 mm T.I.R.
Fairloc® hubs require controlled mating shaft tolerances: g6, h6 or h7.



MODIFICATIONS:
Metric to inch or inch to metric connections, other sizes and materials, available on special order.

METRIC COMPONENT

Catalog Number	d Bore H7	D Dia. g6	D_1 Dia.	L	L_1	L_2	T	Clear. Radius	Max. Torque N • m
S52FCYM030030	3	3	11	25	15	9	M2	6.4	0.45
S52FCYM030040		4							
S52FCYM030050		5							
S52FCYM040030	4	3	14				M2.5	8.3	0.57
S52FCYM040040		4							
S52FCYM040050		5							
S52FCYM050030	5	3							0.9
S52FCYM050040		4							
S52FCYM050050		5							
S52FCYM050060		6							
S52FCYM060040	6	4	17		18	11	M3	11.3	1.3
S52FCYM060050		5							
S52FCYM060060		6							
S52FCYM060080		8							
S52FCYM060100		10							
S52FCYM080050	8	5							2.6
S52FCYM080060		6							
S52FCYM080080		8							
S52FCYM080100		10							
S52FCYM080120		12							
S52FCYM100060	10	6	24	30	23	15	M4	14	3.5
S52FCYM100080		8							
S52FCYM100100		10							
S52FCYM100120		12							
S52FCYM120080	12	8	26		26	18		15.1	5.1
S52FCYM120100		10							
S52FCYM120120		12							

WITH INTEGRAL BEARING SHIM SPACER

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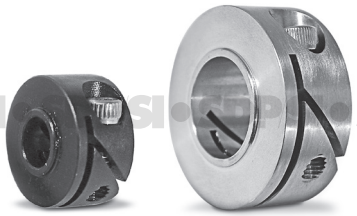
Metric
0 10

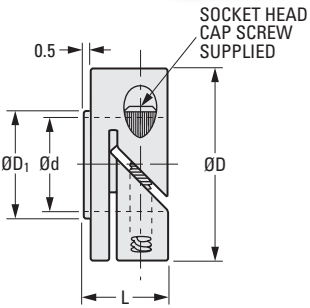
› MATERIAL:
Brass, Black Oxide Finish
303 Stainless Steel

› FEATURES:
No shim spacers required.
Used to preload bearing.
Fairloc® eliminates marred shafts.
More holding strength than set screw collars.



› SPECIFICATION:
*Bore Tolerances:

3 mm	+0.014/0
4, 5 & 6 mm	+0.018/0
8 & 10 mm	+0.022/0
12 & 15 mm	+0.027/0
20 mm	+0.033/0



METRIC COMPONENT

Catalog Number		Shaft Size	d* Bore H8	D Dia.	L	D_1 Dia.	Screw Size
Brass - Black Oxide	303 Stainless Steel						
S25FB9MPC0311	S25FY9MPC0311	3	3	11	7	5	M2
S25FB9MPC0412	S25FY9MPC0412	4	4	12.5		6	
S25FB9MPC0516	S25FY9MPC0516	5	5	16	9	7	M2.5
S25FB9MPC0616	S25FY9MPC0616	6	6			8	
S25FB9MPC0822	S25FY9MPC0822	8	8	22	11	10	M3
S25FB9MPC1025	S25FY9MPC1025	10	10	25		12	
S25FB9MPC1225	S25FY9MPC1225	12	12			14	
S25FB9MPC1530	S25FY9MPC1530	15	15	30	14	19	M4
S25FB9MPC2038	S25FY9MPC2038	20	20	38	16	22	M5

NOTE: Fairloc® collars require controlled shaft tolerances. Suggested tolerance according to g6, h6 or h7.

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FASTLOCK SHAFT COLLARS

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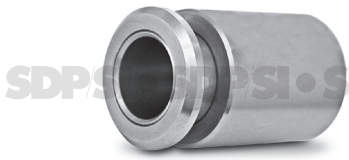
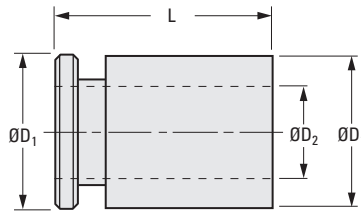
NO TOOLS NEEDED
USABLE FOR NONHARDENED SHAFTS

Metric
0 10

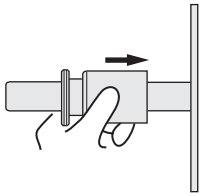
› **MATERIAL:**
Inner Body - 303 Stainless Steel
Outer Sleeve - 303 Stainless Steel
Balls - 440C Stainless Steel
Spring - 302 Stainless Steel



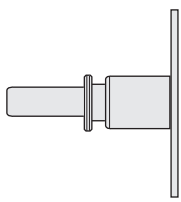


METRIC COMPONENT

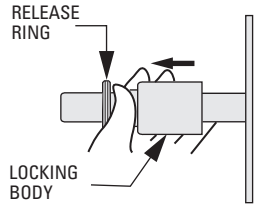
Catalog Number	D_1 Dia.	D_2 Shaft Dia. +0.03 -0.35	L Overall Length	Weight kg
S25FLYM0394	22	10	45	0.08
S25FLYM0591	28	15	45	0.13
S25FLYM0630		16		0.12
S25FLYM0787	37	20	45	0.22
S25FLYM0866		22		0.20
S25FLYM0984		25		0.16
S25FLYM1181	50	30	45	0.34
S25FLYM1260	57	32	48	0.52
S25FLYM1380		35		0.46
S25FLYM1575	60	40		0.42



Slide locking collar onto shaft to correct position



Locking collar holds position.



To release, hold body and pull release ring. This makes the "gap" between the body and ring larger allowing the **Fastlock** to Slide off easliy.

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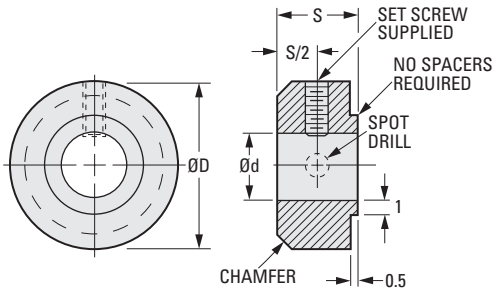
WITH INTEGRAL BEARING SHIM SPACER
NO SHIM SPACERS REQUIRED
USED TO PRELOAD BEARING

Metric
0 10

› **MATERIAL:**
303 Stainless Steel



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	Shaft Size	d Bore +0.013 0	D Dia.	S Width	Set Screw
S25CY9MPC0308	3	3.003	8	4	M2
S25CY9MPC0410	4	4.003	10	5	M3
S25CY9MPC0512	5	5.003	12		
S25CY9MPC0612	6	6.003		6	M4
S25CY9MPC0716	7	7.003	16		
S25CY9MPC0816	8	8.003			
S25CY9MPC1019	10	10.003	19	10	M5
S25CY9MPC1219	12	12.003			
S25CY9MPC1532	15	15.003	32	12	M6
S25CY9MPC1632	16	16.003			
S25CY9MPC1938	19	19.003	38	14	M8
S25CY9MPC2038	20	20.003			

SET SCREW COLLARS

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Metric
0 10

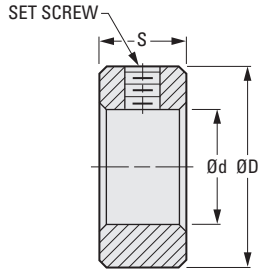
LIGHT-DUTY
HEAVY-DUTY
EQUIVALENT TO DIN 705A

› MATERIAL:

Light-Duty - Steel, Oiled
Heavy-Duty - Steel, Zinc Plated or
303 Stainless Steel, Clear Passivated

› SPECIFICATION:

Width tolerances from
3.5 to 6 mm ± 0.15
8 & 10 mm ± 0.18
12 mm ± 0.22



METRIC COMPONENT

Catalog Number	d Bore	D Dia.	S Width	Set Screw
Light-Duty *				
A 7C 2M107030	3	7	5	M2
A 7C 2M108040	4	8		M2.5
A 7C 2M110050	5	10	6	M3
A 7C 2M112060	6	12	8	M4
A 7C 2M112070	7	12		
A 7C 2M116080	8	16		
A 7C 2M120100	10	20	10	M5
A 7C 2M120110	11			
A 7C 2M122120	12	22	12	M6
A 7C 2M125140	14	25		
A 7C 2M125150	15	25		
A 7C 2M128160	16	28		

* Light-duty collars have a chamfer on one side only.

Catalog Number		d Bore	D Dia.	S Width	Set Screw
Steel, Zinc Plated	303 Stainless Steel				
Heavy-Duty					
—	A 7X 2M106015	1.5	6	3.5	M1.6
—	A 7X 2M107020	2	7		
—	A 7X 2M107025	2.5		4	M2
—	A 7X 2M107030	3		5	
A 7Z 2M109020	A 7X 2M109020	2	9	3.5	
A 7Z 2M109025	A 7X 2M109025	2.5		4	
A 7Z 2M109030	A 7X 2M109030	3		5	
A 7Z 2M111040	A 7X 2M111040	4	11	5	M2.5
A 7Z 2M111050	A 7X 2M111050	5		6	M3
A 7Z 2M116060	A 7X 2M116060	6	16	8	M4
—	A 7X 2M116070	7			
A 7Z 2M116080	A 7X 2M116080	8			
—	A 7X 2M120090	9	20	10	M5
A 7Z 2M120100	A 7X 2M120100	10			
A 7Z 2M124120	A 7X 2M124120	12	24	12	M6

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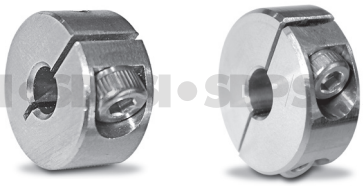
EASY INSTALLATION
WON'T MAR SHAFT

Metric
0 10

› MATERIAL:
304 Stainless Steel

› SPECIFICATION:
Shaft Tolerance:
3 mm 0/-0.007
4 to 6 mm 0/-0.012
8 & 10 mm 0/-0.015
12 to 18 mm 0/-0.018
20 & 25 mm 0/-0.021



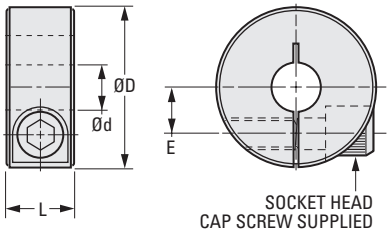


Fig. 1
One-Piece Clamp

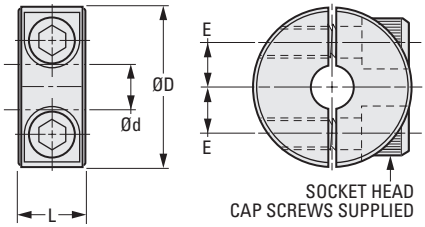


Fig. 2
Two-Piece Clamp

The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number		Shaft Size h7	d Bore	D Dia. ± 0.1	L ± 0.1	E	Set Screw	Weight g	
Fig. 1 One-Piece Clamp	Fig. 2 Two-Piece Clamp							Fig. 1	Fig. 2
S25NSCM1S0308	S25NSCM2S0308	3	3	15	8	4.5	M3	9	9
S25NSCM1S0408	S25NSCM2S0408	4	4						
S25NSCM1S0508	S25NSCM2S0508	5	5	20		5.5		16	16
S25NSCM1S0608	S25NSCM2S0608	6	6			6			
S25NSCM1S0808	S25NSCM2S0808	8	8	25		8		24	24
S25NSCM1S1010	S25NSCM2S1010	10	10	30	10	9	M4	44	42
S25NSCM1S1210	S25NSCM2S1210	12	12			10		42	40
S25NSCM1S1310	S25NSCM2S1310	13	13					40	38
S25NSCM1S1512	S25NSCM2S1512	15	15	35	12	12	M5	68	66
S25NSCM1S1612	S25NSCM2S1612	16	16					66	64
S25NSCM1S1715	S25NSCM2S1715	17	17	40	15	13	M6	108	102
S25NSCM1S1815	S25NSCM2S1815	18	18	45		15		140	132
S25NSCM1S2015	S25NSCM2S2015	20	20					144	129
S25NSCM1S2515	S25NSCM2S2515	25	25	50		18		164	155

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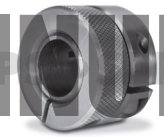
SHAFT COLLARS

EASY & PRECISE STROKE ADJUSTMENT
UP TO 11.1 mm FINE STROKE ADJUSTMENT

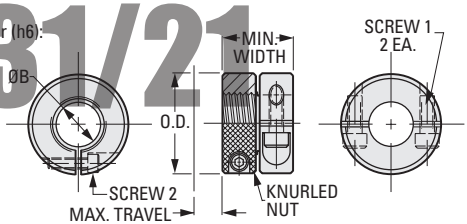


Metric
0 10

› MATERIAL:
Stainless Steel or Carbon Steel, Black Oxide

› SPECIFICATION:
** Recommended Tolerances for mating shaft diameter (h6):

6 mm	0/-0.008
8 & 10 mm	0/-0.009
12 & 16 mm	0/-0.011
20, 25 & 30 mm	0/-0.013



METRIC COMPONENT

Catalog Number		B** Dia.	O.D.	Min. Width	Max.* Travel	Screw 1	Screw 2	Max. Axial Load Capacity kgf	
Stainless Steel	Carbon Steel, Black Oxide							Stainless Steel	Steel
S21SACM06159	S21SACM06159S	6	15.9	12	4.8	M2.5	M2	170	300
S21SACM08190	S21SACM08190S	8	19		4			120	280
S21SACM10222	S21SACM10222S	10	22.2		4			170	310
S21SACM12286	S21SACM12286S	12	28.6	19.1	7.9	M4	M2.5	260	890
S21SACM16333	S21SACM16333S	16	33.3				M3	410	1230
S21SACM20381	S21SACM20381S	20	38.1	22.2	9.5	M5	M3	670	1730
S21SACM25445	S21SACM25445S	25	44.5				M4	670	1780
S21SACM30524	S21SACM30524S	30	52.4	25.4	11.1	M5	M4	750	1850

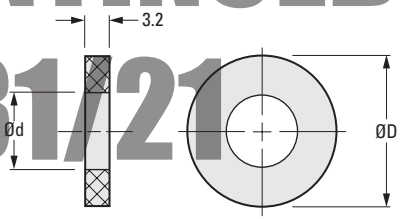
* Max. Width = Min. Width + Max. Travel

RUBBER BUMPERS

SHOCK ABSORBER FOR COMPRESSION LOADS
OIL- AND CHEMICAL-RESISTANT

› MATERIAL:
Buna-N 60-65A Durometer

› OPERATING TEMPERATURE:
-29°C to +121°C



METRIC COMPONENT

Catalog Number	d Bore	D Dia.
S79RUBM06159	6	15.9
S79RUBM08190	8	19
S79RUBM10222	10	22.2
S79RUBM12286	12	28.6
S79RUBM16333	16	33.3
S79RUBM20381	20	38.1
S79RUBM25445	25	44.5
S79RUBM30524	30	52.4

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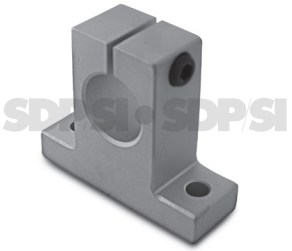
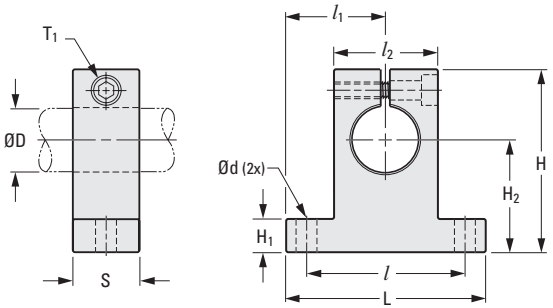
BASE MOUNT SHAFT SUPPORT

Metric

0 10

› MATERIAL:
Housing - Cast Aluminum
Clamping Screw (Supplied) - Steel





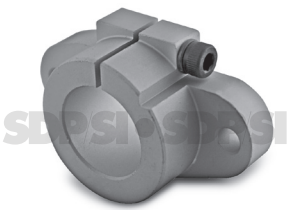
The projections shown are per ISO convention.

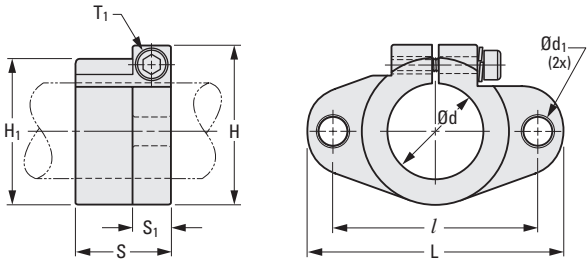
METRIC COMPONENT

Catalog Number	D Shaft Dia.	L Lgth.	H Hgt.	H_1	H_2 ± 0.02	l	l_1 ± 0.05	l_2	S	d Dia.	Mounting Screw Ref.	T_1 Clamping Screw
S64SBAM101433	10	42	33	6	20	32	21	18	14	5.5	M5	M4
S64SBAM121438	12		38		23			20				
S64SBAM161644	16	48	44	8	27	38	24	25	16	5.5	M5	M4
S64SBAM202051	20	60	51	10	31	45	30	30	20	6.6	M6	M5
S64SBAM252460	25	70	60	12	35	56	35	38	24			M6
S64SBAM302870	30	84	70	12	42	64	42	44	28	9	M8	M6
S64SBAM403696	40	114	96	15	60	90	57	60	36	11	M10	M8
S64SBAM5040C0	50	126	120	18	70	100	63	74	40	14	M12	M12

FLANGE MOUNT SHAFT SUPPORT

› MATERIAL:
Housing - Cast Aluminum
Clamping Screw (Supplied) - Steel





The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d Bore	L Length	H Height	H_1	l	S	S_1	d_1 Dia.	Mounting Screw Ref.	T_1 Clamping Screw
S61SFAM101024	10	43	24	20	32	10	7.5	5.5	M5	M4
S61SFAM121328	12	47	28	25	36	13				
S61SFAM161631	16	50	31	28	40	16				
S61SFAM202037	20	60	37	34	48	20	9	7	M6	M5
S61SFAM252542	25	70	42	40	56	25	10			

ENGINEERED MECHANICAL COMPONENTS

SDP/SI, established 1950, provides engineered mechanical solutions for small power transmission and motion control applications.

We manufacture precision gears, high-quality machined parts, molded components and complex assemblies for a wide variety of industries.

- Medical Devices
- Healthcare
- Automation
- Aviation
- Defense
- Space
- Oil & Gas
- Commercial

Our manufacturing capabilities include precision gear cutting, 5-axis milling, 9-axis Swiss turning and world class quality.

ISO 9001 + AS9100 certified, ITAR, REACH and RoHS compliant.

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