


Rotary Shafts

D-Cut

Rotary Shafts – D-Cut

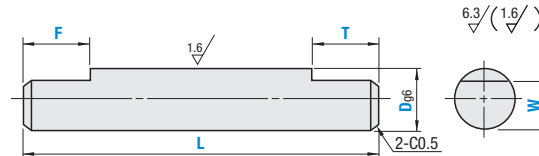


RoHS 10

Type	Material	Surface Treatment
NSFRV	1045 Carbon Steel or Equivalent	—
SFRV		Black Oxide
PSFRV		Electroless Nickel Plating
SSFRV	304 Stainless Steel	—

Use this shaft type for conveyor rollers where roller rotation is undesired.

⊖ Circularity and Straightness P.853.



Type	Part Number	Dg ₆	0.1 mm Increment		1 mm Increment
			L	F / T	W
NSFRV	6	-0.004	20.0-300.0	2.0-30.0	4-5
	8	-0.012	20.0-400.0		5-7
	10	-0.005	20.0-500.0		7-9
	12	-0.014	30.0-600.0		9-11
SFRV	13	-0.006	30.0-600.0	2.0-54.0	10-12
	15		30.0-700.0		12-14
	16		30.0-700.0		13-15
PSFRV	17	-0.017	40.0-800.0	2.0-90.0	14-16
	18		40.0-800.0		15-17
SSFRV	20	-0.007	40.0-800.0	2.0-90.0	15-18
	22		50.0-800.0		17-20
	25		50.0-800.0		20-23
	30		-0.020		60.0-800.0

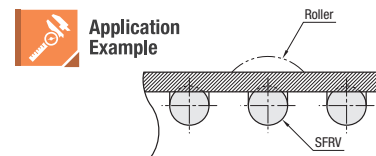
⊖ Max value for W will be used if W dimension is not specified.
 ⊖ When L>600, machined D-Cut ends are not exactly aligned. (Misalignment up to 1° may result.) ⊖ L≥F+T+20

Part Number Example

Part Number - L - F - T - W

SFRV15 - 300 - F30 - T7 - W13

SSFRV20 - 350 - F35 - T35 - W18



Part Number Alterations

Part Number - L - F - T - W - (FC, LKC...etc.)

SFRV15 - 300 - F15 - T8 - W12 - LKC


Alterations	Set Screw Flats	Wrench Flats	L Dimension Tolerance	Retaining Ring Groove
Code	FC, WFC	SC	LKC	TA, TB
Spec.	FC: Adds 1 set screw flat. Ordering Code: FC10-G3 WFC: Adds 2 set screw flats. Ordering Code: WFC10-J3-W10-V3 ⊖ FC / G / WFC / J / W / V = 1 mm Increment ⊖ G / J / V ≤ 50 ⊖ Processed ends will not be aligned with each other.	Adds a wrench flat. SC = 1 mm Increment ⊖ SC+ℓ ₂ ≤ L SC=0 or SC≥1 ⊖ Processed ends will not be aligned with each other.	Changes L Dimension Tolerance. Ordering Code: LKC ⊖ L<500 L±0.05 L≥500 L±0.1	Adds a retaining ring groove. (Applicable retaining rings are included.) TA, TB = 1 mm Increment Ordering Code: TA10-TB10 ⊖ For dimensions of the retaining ring groove, please refer to P.853. ⊖ F(T)+4≤TA(TB)≤L/2

⊖ For dimensions of the retaining ring groove, P.853.

Shaft for Tension

Pull – Retaining Ring Groove

Shaft for Tension – Pull – Retaining Ring Groove

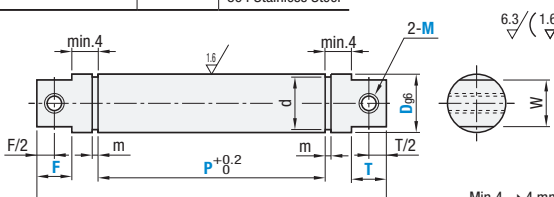


RoHS 10

Type	Material	Surface Treatment	Accessory	
SFRRT	1045 Carbon Steel or Equivalent	Black Oxide	Retaining Rings 2pcs.	Spring Steel
PSFRRT		Electroless Nickel Plating		304 Stainless Steel
SSFRRT	304 Stainless Steel	—	—	—

Suitable for where tension needs to be applied such as belt conveyor.

⊖ Circularity and Straightness P.853.



Min 4 → 4 mm or more is required

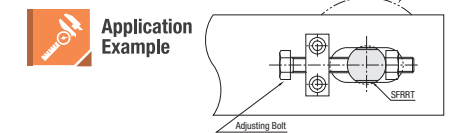
Type	Part Number	Dg ₆	1 mm Increment				M (Coarse) Selectable	W	d	Tolerance	m	Tolerance	
			L	F	T	P							
SFRRT	8	-0.005	20-400	7-30	7-30	5-370	3	7	7	+0.09	1.15	+0.1	
	10	-0.014	30-500	10-30	10-30	5-470	4	8	9.6	0			
	12	-0.006	30-500				4 5	9	11.5	-0.09			
PSFRRT	15	-0.017	30-600	16-50	16-50	10-550	4 5 6	12	14.3	0	1.35	+0.14	
	17	-0.017	40-600				5 6 8	13	16.2	-0.11			
SSFRRT	20	-0.007	40-600	16-50	16-50	10-550	6 8 10	16	19	0	1.65	0	
	25		-0.020				50-600	8 10 12	20	23.9			-0.21
	30		-0.020				60-600	8 10 12	25	28.6			-0.21

⊖ L≥P+F+T+8

Part Number Example

Part Number - L - F - T - P - M

SFRRT20 - 250 - F30 - T30 - P184 - M10



Part Number Alterations

Part Number - L - F - T - P - M - (FC, WFC, SC...etc.)

SFRRT20 - 250 - F30 - T30 - P184 - M10 - LKC

Alterations	Set Screw Flats	Wrench Flats	L Dimension Tolerance	WC	DC
Code	FC, WFC	SC	LKC	WC	DC
Spec.	FC: Adds 1 set screw flat. Ordering Code: FC10-G3 WFC: Adds 2 set screw flats. Ordering Code: WFC10-J3-W10-V3 ⊖ FC / G / WFC / J / W / V = 1 mm Increment ⊖ G / J / V ≤ 50 ⊖ Processed ends will not be aligned with each other.	Adds a wrench flat. SC = 1 mm Increment ⊖ SC+ℓ ₂ ≤ L SC=0 or SC≥1 ⊖ Processed ends will not be aligned with each other.	Changes L Dimension Tolerance. Ordering Code: LKC ⊖ L<500 L±0.05 L≥500 L±0.1	Changes W dimension in 0.1 increment. Ordering Code: WC6	Chamfering Dia. can be specified. DC=0.1mm Increment ⊖ When DC≤W, chamfering is not available for W.

⊖ Not applicable to D10 or less.

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