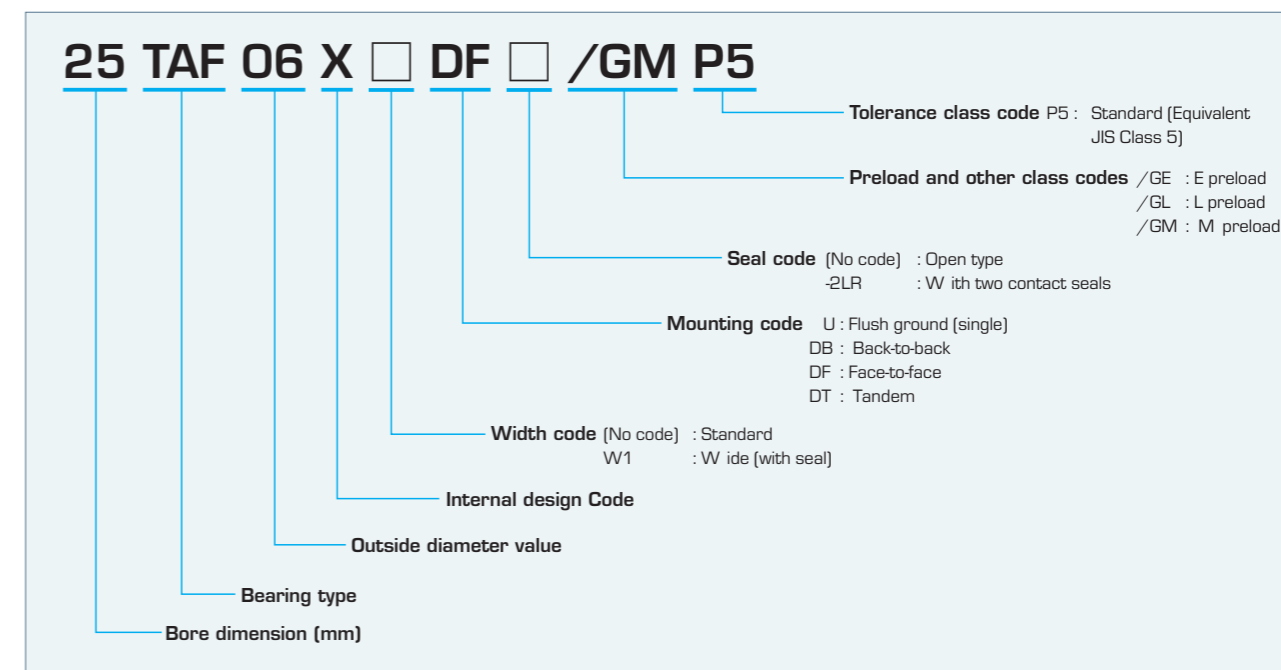


Ball Screw Support Bearings

TAF-X Series



Nomenclature of Bearing Numbers



Features

- A large-diameter ball and large contact angle provides the high thrust load capacity needed for the high loads of the ball screw used in injection molding machines.
- A one-piece molded resin cage that combines both greater accuracy and strength, and the ability to withstand repeated high-speed switching between forward and reverse.

Contact Angle

The contact angle is 55°.

Accuracy

Equivalent JIS Class 5 is standard. See page 14 for details.

Preload

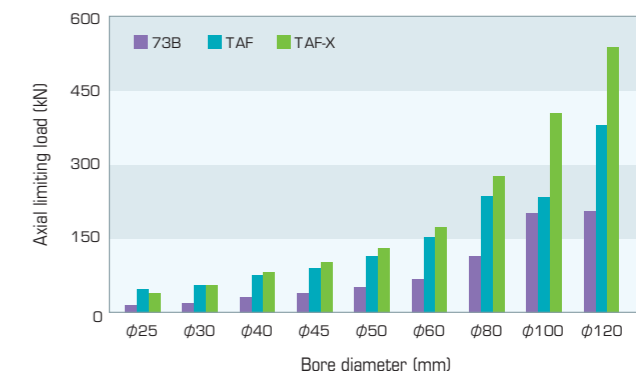
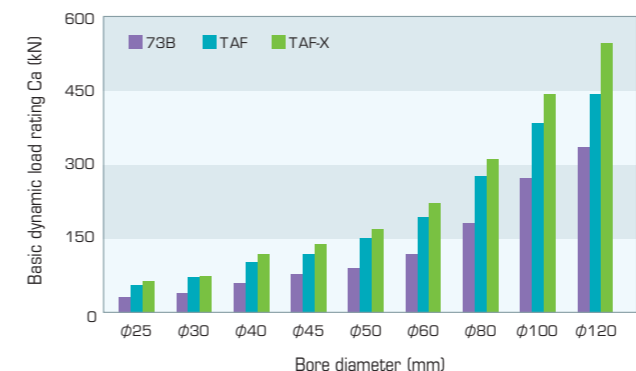
Three types of preload settings are available. See page 24 for details. Standard preloads are M-preloads if less than 80T AF17X, and E-preloads if greater than 80T AF21X.

Cage

A ball guide polyamide resin cage is provided as standard.

With Seal

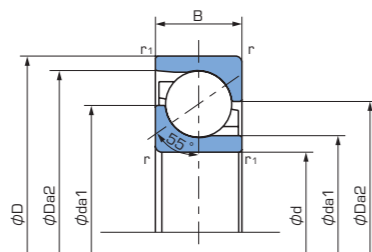
Contact seals are also available for improved intrusion protection and grease retention. (They are wider than open types.)



Dimension Tables Types and Designs 7900/7000/7200 BNH TAH/TBH NN3000/NUU4900 XRN/XRG TAB/T AU/T AF-X/XY51/W1

Ball Screw Support Bearings

TAF-X Series



Dynamic equivalent axial load $P_a = XFr + YFa$

No. of bearings in set	2	
	1 row	2 rows
$F_a/F_r \leq 1.79$	X	1.60
	Y	0.56
$F_a/F_r > 1.79$	X	0.81
	Y	1

Bearing No.	Boundary dimensions (mm)					Basic dynamic load rating ⁽¹⁾ Ca (kN)	Axial limiting load ⁽²⁾ (kN)	Limiting speed ⁽³⁾ (min ⁻¹)	Reference dimensions (mm)				Mass (kg) (Reference)	Bearing No.
	d	D	B	r _{min}	r _{1min}				Grease lubrication	da ₁	da ₂	Da ₁		
25TAF05X	25	52	15	1.0	0.6	38.0	25.7	7,700	38.7	31.6	39.7	48.0	0.140	25TAF05X
25TAF06X	25	62	17	1.1	0.6	64.5	40.5	6,800	43.0	32.7	44.5	56.6	0.230	25TAF06X
30TAF07X	30	72	19	1.1	0.6	78.5	56.9	5,800	50.4	38.8	52.1	65.8	0.357	30TAF07X
35TAF09X	35	90	23	1.5	1.0	119	85.5	4,600	64.3	50.8	66.3	82.2	0.713	35TAF09X
40TAF09X	40	90	23	1.5	1.0	119	85.5	4,600	64.3	50.8	66.3	82.2	0.650	40TAF09X
40TAF11X	40	110	27	2.0	1.0	173	131	3,700	79.2	62.4	81.7	101.0	1.28	40TAF11X
45TAF10X	45	100	25	1.5	1.0	139	103	4,100	71.8	56.9	74.0	91.1	0.880	45TAF10X
45TAF11X	45	110	27	2.0	1.0	173	131	3,700	79.2	62.4	81.7	101.0	1.21	45TAF11X
50TAF11X	50	110	27	2.0	1.0	173	131	3,700	79.2	62.4	81.7	101.0	1.15	50TAF11X
50TAF13X	50	130	31	2.1	1.1	225	174	3,100	94.1	74.7	96.9	119.5	1.98	50TAF13X
60TAF13X	60	130	31	2.1	1.1	225	174	3,100	94.1	74.7	96.9	119.5	1.77	60TAF13X
60TAF17X	60	170	39	2.1	1.1	315	280	2,400	123.8	99.3	127.4	155.8	4.42	60TAF17X
80TAF17X	80	170	39	2.1	1.1	315	280	2,400	123.8	99.3	127.4	155.8	3.76	80TAF17X
80TAF21X	80	215	47	3.0	1.1	445	405	1,900	155.2	125.0	160.5	196.2	8.54	80TAF21X
100TAF21X	100	215	47	3.0	1.1	445	405	1,900	155.2	125.0	160.5	196.2	7.53	100TAF21X
100TAF26X	100	260	55	3.0	1.1	550	540	1,500	187.1	153.4	193.3	234.9	14.7	100TAF26X
120TAF26X	120	260	55	3.0	1.1	550	540	1,500	187.1	153.4	193.3	234.9	13.2	120TAF26X

[Note 1] When the axial load is on a 2-row, 3-row, or 4-row arrangement, the values in the table should be multiplied by 1.62, 2.16, and 2.64 respectively.
 [Note 2] When the axial load is on a 2-row, 3-row, or 4-row arrangement, the values in the table should be multiplied by 2, 3, and 4 respectively.
 [Note 3] Limiting speed for standard preload.