

Unit Type Ball Screw Support Bearings

WTB SERIES



Improved Unit Type Ball Screw Support Bearings for Easy Installation

Uses TAB Ball Screw Support Bearing series

Easier to install

- Unit type uses high precision and high rigidity TAB ball screw support bearing series and achieved easy installation
- No need for preloading adjustments during the mounting
- Shortening the bearing installation process

Superior resistance to dust intrusion

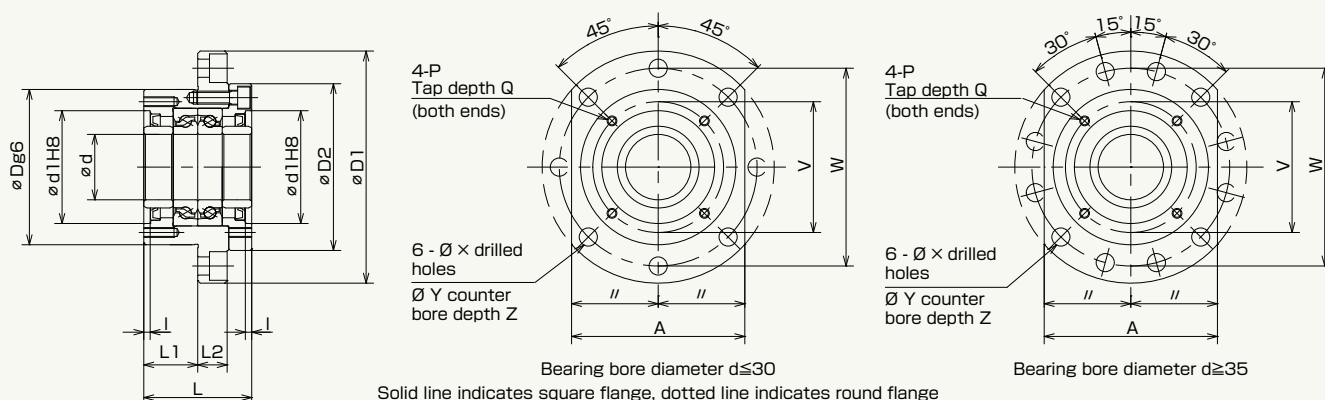
- Pre-installed oil seals is designed to prevent intrusion of dirt
- Configuration includes sealed bearings in low-torque conditions

Customized specifications are supported

- Flanges, grease supply & disposal oil holes, and other customized specifications are supported
- Supports specifications for heavy load capacity TAF ball screw support bearings series (WTF)
- DB, DT, FFB, and other arrangements are supported



Configurations



Bearing No.	Dimensions(mm)												
	d	D	D1	D2	L	L1	L2	A	W	X	Y	Z	d1
WTB15DF106-A(-B)	15	70	106	72	60	32	15	80	88	9	14	8.5	45
WTB17DF106-A(-B)	17	70	106	72	60	32	15	80	88	9	14	8.5	45
WTB20DF106-A(-B)	20	70	106	72	60	32	15	80	88	9	14	8.5	45
WTB25DF130-A(-B)	25	85	130	90	66	33	18	100	110	11	17.5	11	57
WTB25BFF130-A(-B)	25	85	130	90	81	48	18	100	110	11	17.5	11	57
WTB30DF130-A(-B)	30	85	130	90	66	33	18	100	110	11	17.5	11	57
WTB30BFF130-A(-B)	30	85	130	90	81	48	18	100	110	11	17.5	11	57
WTB35DF142-A(-B)	35	95	142	102	66	33	18	106	121	11	17.5	11	69
WTB35BFF142-A(-B)	35	95	142	102	81	48	18	106	121	11	17.5	11	69
WTB35BBFF142-A(-B)	35	95	142	102	96	48	18	106	121	11	17.5	11	69
WTB40DF142-A(-B)	40	95	142	102	66	33	18	106	121	11	17.5	11	69
WTB40BFF142-A(-B)	40	95	142	102	81	48	18	106	121	11	17.5	11	69
WTB40BBFF142-A(-B)	40	95	142	102	96	48	18	106	121	11	17.5	11	69

- Nominal letter "-A" indicates round flange type, "-B" indicates square flange type.
- Refer to our catalog of precision roller bearings (catalog number 3205-2) regarding bearing arrangements.
- Starting torque indicates only the bearing's starting torque, it does not include the oil seal.

Configuration of Bearing Numbers

WTB 15 DF - 106 -A

Flange code -A: Round flange
-B: Square flange

Outside diameter of flange(mm)

Seal code

(none): Oil seal + open type bearing
2NSE or 2LR: Both-side contact sealed bearing: (without oil seal)
NSE or LR: One-side contact sealed bearing: (without oil seal)
2NKE or 2NK: Both-side non-contact sealed bearing: (without oil seal)
NKE or NK: One-side non-contact sealed bearing: (without oil seal)

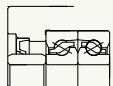
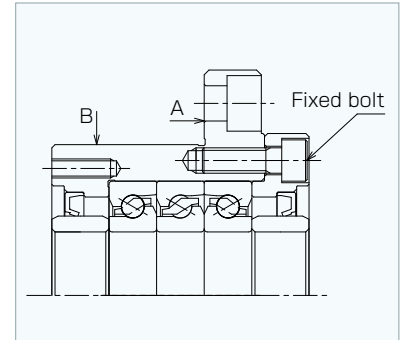
Bearing mounting code 2-row arrangement: DF
3-row arrangement: BFF
4-row arrangement: BFFF, BBFF

Bearing bore diameter(mm)

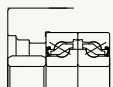
Unit type support code WTB: TAB series bearings
WTF: TAF series bearings
(high capacity, customized specifications)

Operating precautions

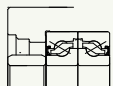
- Use A and B as the reference for installation on machine.
- These products are pre-adjusted. Do not loosen fixed bolts.
- These products are pre-greased.



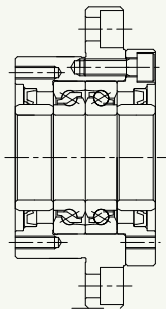
Open type + oil seal



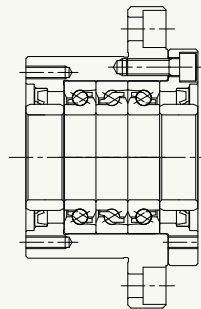
Light contact seal only



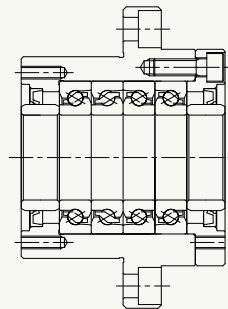
Non-contact seal only



DF



BFF



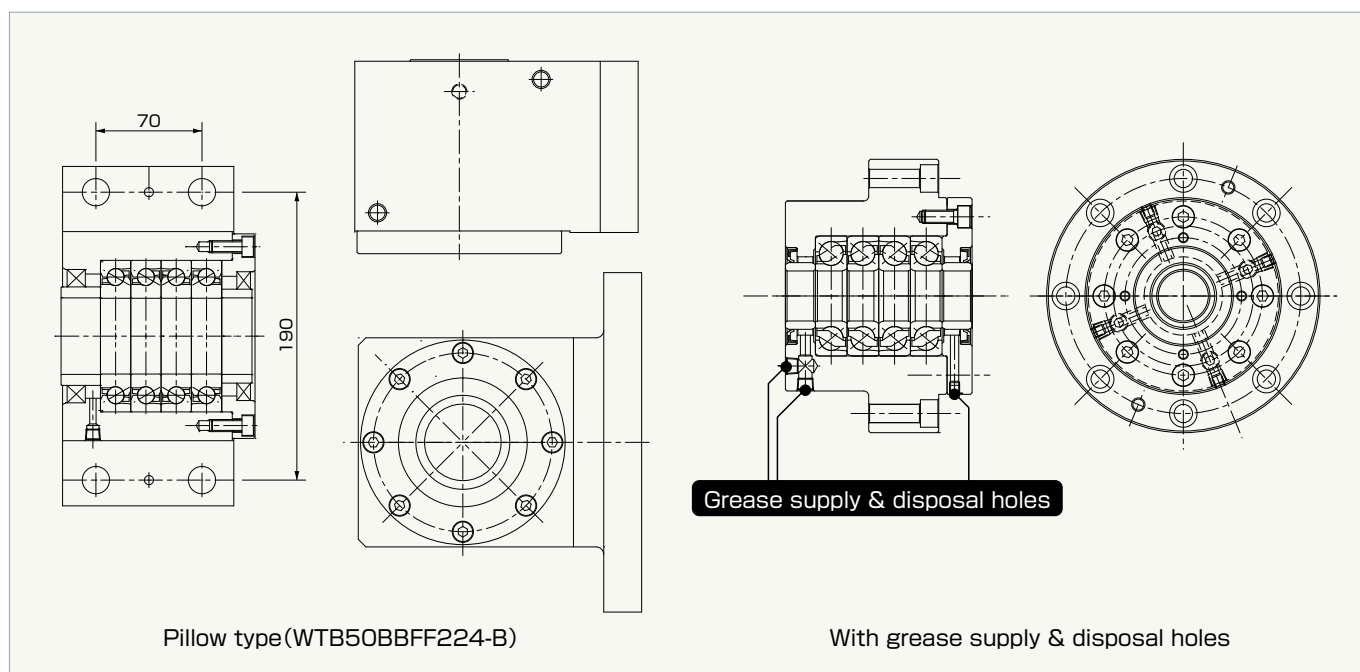
BBFF

	I	V	P	Q	Number of rows	Basic dynamic load rating Ca(kN)	Limiting Axial load Coa(N)	Preload (N)	Axial rigidity (N/μm)	Starting torque (Ncm)
	3	58	M5	10	2	25.9	32	2160	735	15
	3	58	M5	10	2	25.9	32	2160	735	15
	3	58	M5	10	2	25.9	32	2160	735	15
	4	70	M6	12	2	29.9	46.4	3330	981	20
	4	70	M6	12	3	48.5	92.8	4510	1470	27
	4	70	M6	12	2	29.9	46.4	3330	981	20
	4	70	M6	12	3	48.5	92.8	4510	1470	27
	4	80	M6	12	2	32.5	54.3	3920	1230	25
	4	80	M6	12	3	53	108.6	5300	1770	35
	4	80	M6	12	4	53	108.6	7840	2350	50
	4	80	M6	12	2	32.5	54.3	3920	1230	25
	4	80	M6	12	3	53	108.6	5300	1770	35
	4	80	M6	12	4	53	108.6	7840	2350	50

Example of customized specifications

Bearing No.	Installation dimensions			Applicable bearings		Remarks
	Outside diameter	Bore diameter	Width	Bearing No.	Bearing arrangements	
WTB25DF108-A	108	25	63	25TAB06W1	DF	Custom dimensions
WTB25DT108-A	108	25	63	25TAB06W1	DT	Custom dimensions
WTB35DF106-A	106	35	66	35TAB07	DF	Custom dimensions
WTB50BBFF224-B	224	50	128	50TAB10	BBFF	With pillow-type housing, grease supply & disposal holes
WTF30BBFF164-A	164	30	112	30TAF07	BBFF	With grease supply & disposal holes
WTF40BBFF200-A	200	50	138	40TAF09	BBFF	With grease supply & disposal holes
WTF50FFBB210-B	210	50	158	50TAF11	FFBB	With grease supply & disposal holes
WTF60BBFF240-B	240	60	190	60TAF13	BBFF	With grease supply & disposal holes
WTF60BFFF290-A	290	60	200	60TAF13	BFFF	With grease supply & disposal holes

● Customized specifications, such as specialized dimensions, grease supply & disposal holes and other features are supported.



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