


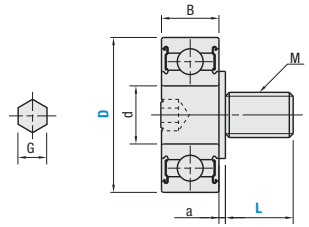
Threaded Bearings / Urethane Mold Bearings Shafts / Eccentric Bushings

Rollers & Conveyor Components



Threaded Bearings

Type		Material		Surface Treatment	
Standard	Long	Bearing	Shaft	Shaft	
NTBG	NTBGT	Steel	SUM	Electroless Nickel Plating	
NTSBG	NTSBGT	Stainless Steel	303 Stainless Steel	—	




Part Number Example

NTBG16 - 5

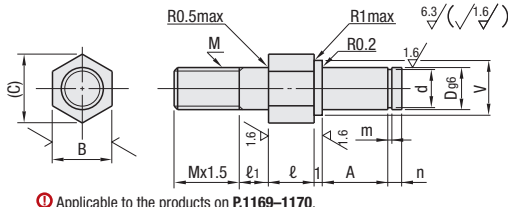
Part Number	Type	L		B	d	a	G	M (Coarse)	Bearing
		Standard	Long						
Standard Threaded NTBG NTSBG	6	4	6	2.5	3	1	1.5	M3	673ZZ
	7	4	6	3	3				W683ZZ
	8	5	8	2.5	5				675ZZ
	9	5	8	4	4				W684Ax50ZZ
	13	5	8	5	4				624ZZ
	16	5	8	5	5				625ZZ
	19	8	12	6	6				626ZZ
	22	8	12	7	8				608ZZ
	26	8	12	8	10				6000ZZ
	30	8	12	9	10				6200ZZ
Long Threaded NTBGT NTSBGT	32	12	20	9	15	2.5	5	M6	6002ZZ
	35	12	20	11	15				6202ZZ
	37	12	20	9	20				6904ZZ
	47	12	20	14	20				6204ZZ
	52	12	20	15	25				6205ZZ

For detailed bearing dimensions, see P.1018-1020, 1026-1029.



Shafts for Urethane Mold Bearings


Type	Material	Surface Treatment	Accessory
UWS	1018 Carbon Steel or Equivalent	Black Oxide	Nut Retaining Ring-C Type



Part Number Example

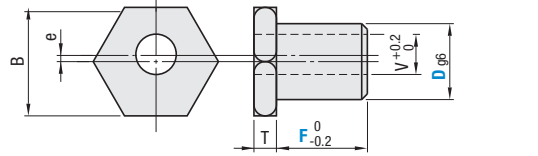
UWS312

Part Number	Type	No.	D ₉₅	A	ℓ	ℓ ₁	V	d	Tolerance	M	B	(C)	Dim.	m	Tolerance	n	Applicable Urethane Molded Bearing	
																	UMBB	UMBRR
UWS	312	3	3	—	4	2.05	+0.06	3	5	5.8	0.5	0.5	+0.05	0	2	UMBB	UMBRR	3-12
	413	4	4	1	5	3.05	0	4	7	8.1	0.7	0.7	0	2	UMBB	UMBRR	4-13	
	416	4	5	1	6	—	—	4	7	8.1	0.7	0.7	0	2	UMBB	UMBRR	4-16	
	516	5	5	2	6.9	4.05	+0.075	5	8	9.2	0.7	0.7	0	2	UMBB	UMBRR	5-16	
	520	5	5	2	7.5	—	—	5	8	9.2	0.7	0.7	0	2	UMBB	UMBRR	5-20	
	620	6	5	3	8	5.05	0	6	10	11.5	0.9	0.9	+0.1	0	3	UMBL	UMBLW	6-20
	628	6	6	3	9	—	—	6	10	11.5	0.9	0.9	+0.1	0	3	UMBL	UMBLW	6-28
	828	8	7	4	12	7.1	+0.09	8	14	16.2	1.15	1.15	+0.14	0	3	UMBD	SUMBBR	8-28
	830	8	7	4	12	7.1	0	8	14	16.2	1.15	1.15	+0.14	0	3	UMBD	SUMBBR	8-30
	1030	10	8	5	13	9.6	0	10	19	21.9	1.35	1.35	+0.14	0	4	UMSB	UMSWR	10-30
	1040	10	9	5	16	9.6	-0.09	10	19	21.9	1.35	1.35	+0.14	0	4	UMSB	UMSWR	10-40
	1540	15	9	6	18	14.3	0	12	21	24	1.35	1.35	+0.14	0	4	UMSG	UMSGW	15-40
	1545	15	11	6	19	14.3	-0.11	12	21	24	1.35	1.35	+0.14	0	4	UMSG	UMSGW	15-45
	2045	20	9	6	23	19	0	16	27	31.2	1.35	1.35	+0.14	0	4	UMSGW	SUMSB	20-45
	2055	20	14	6	25	19	-0.21	16	27	31.2	1.35	1.35	+0.14	0	4	UMSGW	SUMSB	20-55



Eccentric Bushings

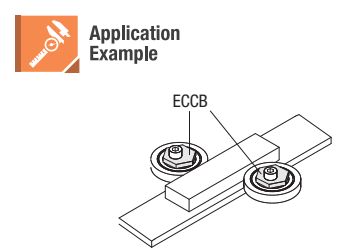
Type	Material
ECCB	1045 Carbon Steel or Equivalent



Part Number Example


ECCB10 - 8

Part Number	Type	D ₉₅	F	Applicable Bearing	V	B	T	e
6	6	606ZZ / 626ZZ	4	12	0.5			
	7	698ZZ						
8	8	608ZZ	5	14	1			
	9	628ZZ						
10	10	6900ZZ	6	17	1.2			
	11	6000ZZ						
12	12	6200ZZ	8	19	1.5			
	13	6901ZZ						
15	15	6001ZZ	8	19	1.5			
	16	6201ZZ						
15	17	6902ZZ	8	19	1.5			
	18	6002ZZ						
15	19	6202ZZ	8	19	1.5			
	20	6202ZZ						



Engineered Plastic Bearings

Flat / Crowned Type



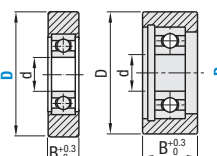
Engineered Plastic Bearings - Flat Type

Type				Material			Surface Treatment	
No Retaining Ring	With Retaining Ring	No Retaining Ring	With Retaining Ring	Bearing	Shaft	Shaft	Shaft	
EBSS	—	EBBS	EBHS	440C Stainless Steel or Equivalent	304 Stainless Steel or Equivalent	—	—	
EB	—	EBB	EBH	52100 Bearing Steel	SWCH Carbon Steel	Trivalent Chromate	—	
EBD	—	EBBD	—	440C Stainless Steel or Equivalent	304 Stainless Steel or Equivalent	—	—	
EBC	—	—	EBCC	440C Stainless Steel or Equivalent (Low Dust Raise)	304 Stainless Steel or Equivalent	—	—	
EBSZ	—	—	EBHZ	304 Stainless Steel or Equivalent (Low Dust Raise)	1045 Carbon Steel or Equivalent	Trivalent Chromate	—	
—	EBM	—	—	MC Nylon UHMWPE	—	—	—	
—	EBPE	—	—	—	—	—	—	

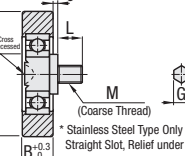
EBC, EBSZ, EBCC and EBHZ use low particulate grease and the resin section may be discolored due to reactions with ultraviolet, but the functionality will not be affected.
 Surface resistivity of antistatic polyacetal is 1.5x10¹¹Ω (Temperature 23°C / Humidity 65%)
 For identification, markings are painted on the side of antistatic polyacetal plastic parts. Wipe off before use.

Straight Bore

No Retaining Ring With Retaining Ring

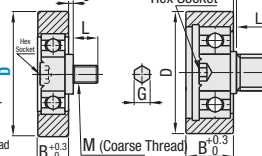


Threaded

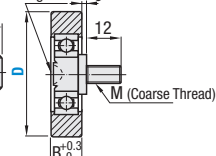


Threaded Stud Hex Socket

No Retaining Ring With Retaining Ring




Long Threaded Stud



Bearing Accuracy JIS B 1514 0 Class

Part Number	Type	D	Allowable Load N () indicates 304 Stainless Steel	B		M (Coarse Thread)	Hex Socket G	Retaining Ring Size (C Type) (Only for Retained Type)	Bearing Used	Compliance with Standard										
				Polyacetal	MC Nylon Ultra High Molecular Weight Polyethylene					Threaded Stud	Threaded Stud Hex Socket	Long Threaded Stud	Straight Bore							
Straight Bore	EBSS	13	29.4 (14.7)	4	5	—	1	1.5	L-1040ZZ	—	—	—	—	—	—	—	—	—	—	
	EB	14	29.4 (14.7)	4	5	—	1	1.5	L-1040ZZ	—	—	—	—	—	—	—	—	—	—	
	EBD	16	29.4 (14.7)	5	5	8	4	5	8	1	1.5	RTWS13	695ZZ	—	—	—	—	—	—	—
	EBC	18	29.4 (14.7)	5	5	8	4	8	8	1	1.5	RTWS13	695ZZ	—	—	—	—	—	—	—
	EBZ	19	78.4 (39.2)	6	6	9	6	8	8	1	2.5	RTWS15	696ZZ	—	—	—	—	—	—	—
	EBSZ	20	78.4 (39.2)	6	6	9	6	8	8	1	2.5	RTWS15	696ZZ	—	—	—	—	—	—	—
	EBM	22	78.4 (39.2)	6	6	9	6	8	8	1	2.5	RTWS15	696ZZ	—	—	—	—	—	—	—
	EBPE	24	78.4 (39.2)	6	6	9	6	8	8	1	2.5	RTWS15	696ZZ	—	—	—	—	—	—	—
	Threaded Stud	EBBS	26	176 (88)	8	8	12	6	8	8	1	5	RTWS22	608ZZ	—	—	—	—	—	—
		EBB	30	176 (88)	8	9	12	6	8	8	1	5	RTWS22	608ZZ	—	—	—	—	—	—
EBBD		*40	245 (122)	10	12	14	8	12	12	2	6	RTWS30	6200ZZ	—	—	—	—	—	—	
Long Threaded Stud		EBBL	*45	245 (122)	10	12	14	8	12	12	2	6	RTWS30	6200ZZ	—	—	—	—	—	—
		EBBL	*50	245 (122)	10	12	14	8	12	12	2	6	RTWS30	6200ZZ	—	—	—	—	—	—

For detailed bearing dimensions, see P.1018-1019, 1028-1029.

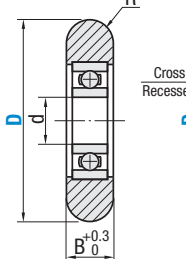


Engineered Plastic Bearings - Crowned Type

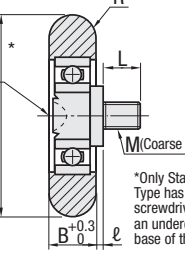
Type				Material			Surface Treatment	
Straight Bore	Threaded Stud	Threaded Stud Hex Socket	Long Thread	Bearing	Shaft	Shaft	Shaft	
ERBS	ERBBS	ERBHS	—	440C Stainless Steel or Equivalent	304 Stainless Steel Equivalent	—	—	
ERB	ERBB	ERBH	ERBBL	52100 Bearing Steel	SWCH Carbon Steel	Trivalent Chromate	—	
ERBZ	—	ERBHZ	—	Antistatic Polyacetal	304 Stainless Steel or Equivalent (Low Particulate Generation)	304 Stainless Steel Equivalent	—	

ERBHZ uses low particulate grease and the resin section may be discolored due to reactions with ultraviolet, but the functionality will not be affected.
 Surface resistivity of antistatic polyacetal is 1.5x10¹¹Ω (Temperature 23°C / Humidity 65%)
 For identification, markings are painted on the side of antistatic polyacetal plastic parts. Wipe off before use.

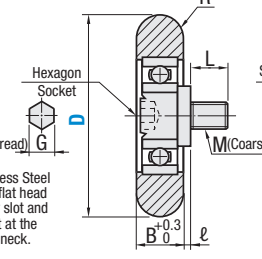
Straight Bore



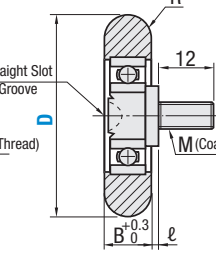
Threaded



Threaded Stud Hex Socket



Long Threaded Stud



Bearing Accuracy JIS B 1514 0 Class

Part Number	Type	D	Allowable Load N () indicates 304 Stainless Steel	d	R	B	M (Coarse)	L	ℓ	Hexagon Socket G	Bearing Used	Compliance with Standard								
												Straight Bore	Threaded Stud	Hexagon Socket	Long Thread					
Straight Bore	ERBS	19	78.4 (39.2)	6	5	6	6	8	1	2.5	696ZZ	ERBS	ERB	ERBZ	ERBBS	ERBB	ERBHS	ERBH	ERBHZ	ERBBL
	ERB	—										—	—	—	—	—	—	—	—	—
	ERBZ	—										—	—	—	—	—	—	—	—	—
	ERBBS	—										—	—	—	—	—	—	—	—	—
	ERBB	—										—	—	—	—	—	—	—	—	—
Threaded Stud	ERBBS	20	176 (88)	8	9	9	8	1	5	608ZZ	ERBBS	ERBB	ERBHS	ERBH	ERBHZ	ERBBL	—	—	—	—
	ERBB	—									—	—	—	—	—	—	—	—		
	ERBHS	—									—	—	—	—	—	—	—	—	—	
	ERBH	—									—	—	—	—	—	—	—	—	—	
	ERBHZ	—									—	—	—	—	—	—	—	—	—	
Long Threaded Stud	ERBBL	*35	245	10	6	12	8	12	2	6	6200ZZ	ERBBL	—	—	—	—	—	—	—	
	ERBBL	—										—	—	—	—	—	—	—	—	
	ERBBL	—										—	—	—	—	—	—	—	—	—
	ERBBL	—										—	—	—	—	—	—	—	—	—
	ERBBL	—										—	—	—	—	—	—	—	—	—

Plating color may vary depending on production lot but no differences in plating properties. For detailed bearing dimensions, see P.1018-1020, 1026-1029. *marked sizes are only available for ERBS, ERB and ERBH.

</