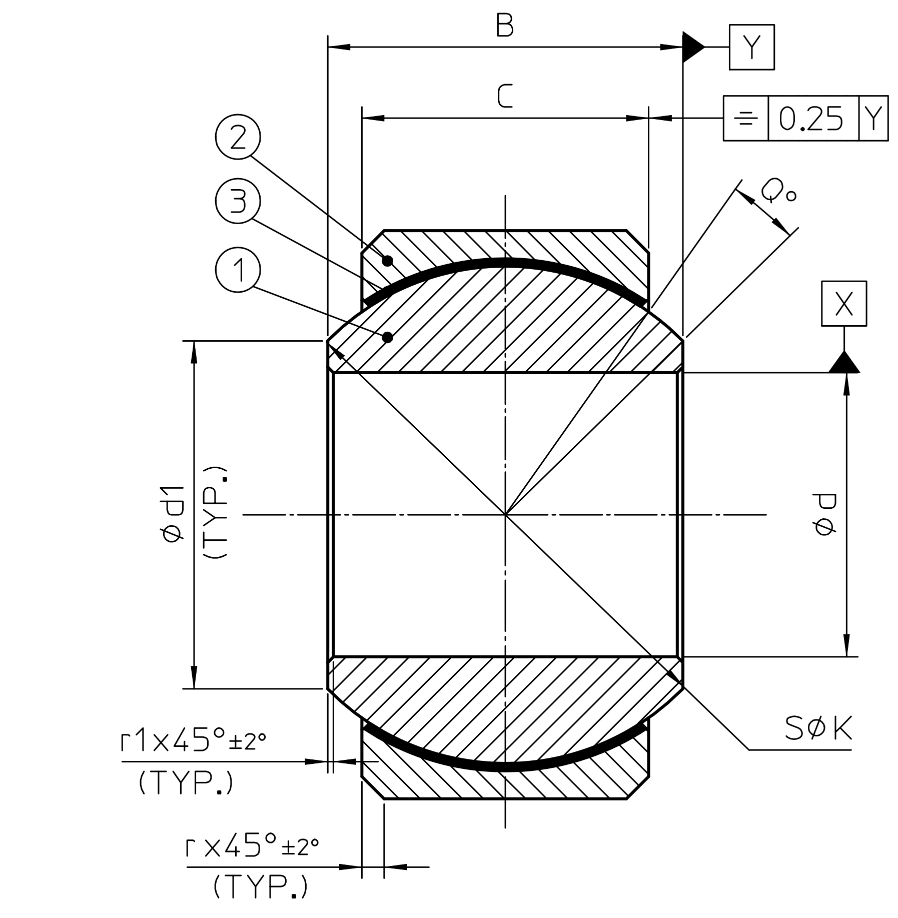
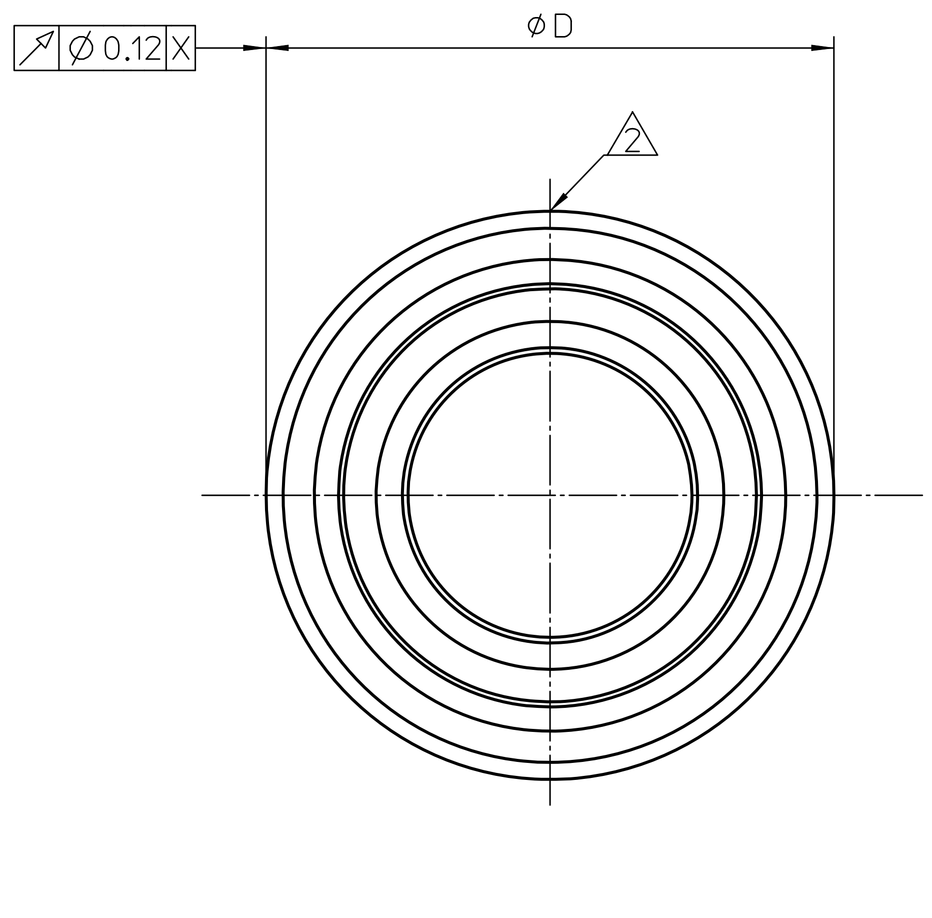
SALES DRAWING

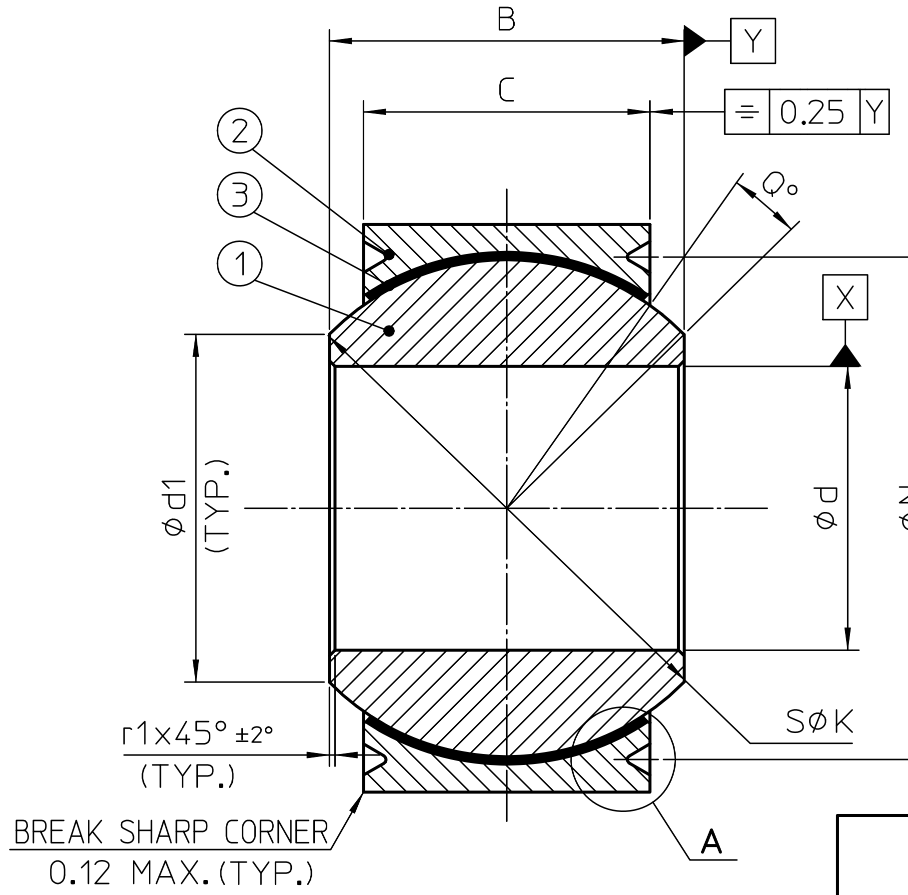
BEARING PART NUMBER				d	D	C	B	TOLERANCES (μm)				d1	K	r	r1	N	P	R	T	C°	Q° a)	APPROX. WEIGHT	STARTING TORQUES	PERMISSIBLE STATIC LOADS		RADIAL DYNAMIC LOAD
WITHOUT GROOVE		WITH GROOVE				±0.1	0 / −0.06					MIN.	(REF.)			+0.1 / 0	0 / −0.2	+0.1 / 0	MAX.	±0.5	MIN.	g		RADIAL	AXIAL b)	25,000 CYCLES
AECMA	NMB	AECMA	NMB	NOMINAL				ΔDmp	ΔDs	Δdmp	Δds												(Nm)	(kN)	(kN)	(kN)
EN2584S05	MHT5-60	EN2584R05	MHT5V-60	5	14	5.5	7.0	0 / −8	+5 / −13	0 / −8	+2 / −10	8.6	11.1	0.8 / 0.5	0.1 / 0.4	12.2	0.7	0.2	0.8	20	9°	7	0.08 TO 0.50	20.5	1.9	12.3
EN2584S06	MHT6-60	EN2584R06	MHT6V-60	6	16	6.5	9.0					9.0	12.8			14.2					14°	9		29.2	3.5	17.5
EN2584S08	MHT8-60	EN2584R08	MHT8V-60	8	18	7.0	10.0					10.2	14.3			16.2					15°	12		37.0	3.9	22.2
EN2584S10	MHT10-60	EN2584R10	MHT10V-60	10	21	8.0	10.5	0 / −9	+6 / −15			11.9	15.9			18.4	0.9	0.3	0.9	30	11°	20	0.12 TO 0.80	47.2	6.5	28.3
EN2584S12	MHT12-60	EN2584R12	MHT12V-60	12	25	10.0	13.0				+3 / −11	15.0	19.8			22.4					10°	32		78.1	11.7	43.0
EN2584S15	MHT15-60	EN2584R15	MHT15V-60	15	29	12.0	15.0					20.5	25.4			26.4			1.0		8°	50		121.9	18.0	67.0
EN2584S17	MHT17-60	EN2584R17	MHT17V-60	17	31	13.5	16.0					21.7	27.0			28.4					7°	59		148.3	24.3	81.0
EN2584S22	MHT22-60	EN2584R22	MHT22V-60	22	40	18.0	22.0	0 / −11	+8 / −19	0 / −10	+3 / −13	27.1	34.9	1.0 / 0.6		36.8	1.4		1.2		8°	126	0.25 TO 1.00	268.6	45.5	147.0
EN2584S25	MHT25-60	EN2584R25	MHT25V-60	25	45	20.0	25.0					29.6	38.8			41.8						185		324.7	55.9	162.4
EN2584S30	MHT30-60	EN2584R30	MHT30V-60	30	51	24.0	28.0	0 / −13	+10 / −23			35.5	45.2			47.8					6°	300	0.40 TO 2.00	433.4	77.8	216.7
EN2584S35	MHT35-60	EN2584R35	MHT35V-60	35	57	26.0	31.0			0 / −12	+3 / −15	41.7	52.0	1.2 / 0.8		53.8			1.5		7°	340		543.4	92.2	271.7
EN2584S40	MHT40-60	EN2584R40	MHT40V-60	40	64	29.0	34.0					47.0	56.0			60.8					6°	460	0.60 TO 2.70	680.9	113.4	340.3
EN2584S45	MHT45-60	EN2584R45	MHT45V-60	45	72	32.0	37.0					52.2	64.0			68.8					5°	630		833.9	135.9	416.9
EN2584S50	MHT50-60	EN2584R50	MHT50V-60	50	80	34.0	41.0	0 / −15	+13 / −28			59.2	72.0			76.8					7°	870		981.4	154.2	490.7

Δ ds = DEVIATION OF A SINGLE BORE DIAMETER. Δ dmp = SINGLE PLANE MEAN BORE DIAMETER DEVIATION. Δ Ds = DEVIATION OF A SINGLE OUTSIDE DIAMETER. ΔDmp = SINGLE PLANE MEAN OUTSIDE DIAMETER DEVIATION.
a) THE ACCEPTANCE VALUE IS THE MAXIMUM VALUE FOR THE USER
b) THESE VALUES APPLY TO LOOSE SPHERICAL BEARINGS. FOR INSTALLED BEARINGS, THE PUSH-OUT LOADS MAY BE SMALLER THAN THESE VALUES.

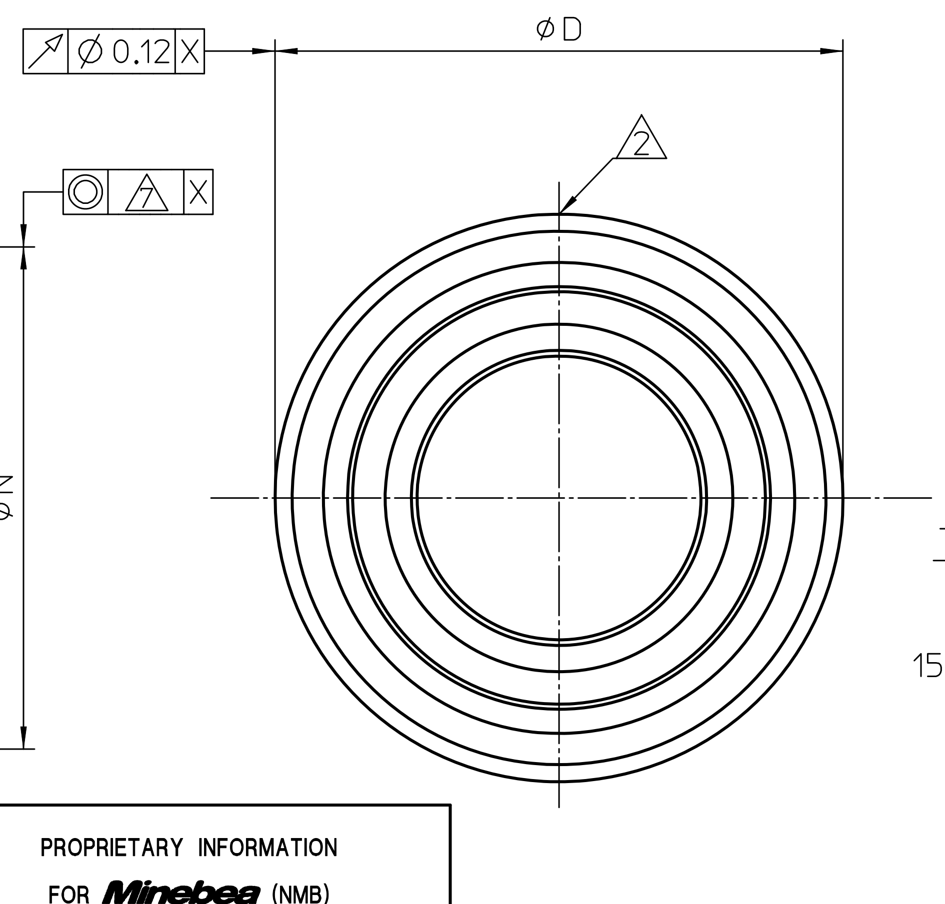


CHAMFER TYPE

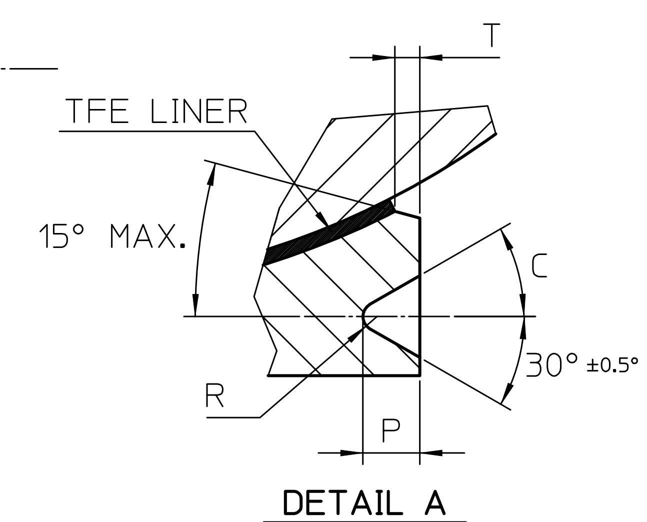




V-GROOVE TYPE



PROPRIETARY INFORMATION
FOR **Minebea** (NMB)
UNAUTHORIZED REPRODUCTION PROHIBITED



DETAIL A
(TYP.)

NOTES:

1. SURFACE FINISH : BALL SPH. O.D. 0.2 μmRa, BALL I.D., ENDS AND RACE O.D. 0.8 μmRa, ALL OTHER MACHINED SURFACES 3.2 μmRa MAX.
2. MARKING : ELECTRO-CHEM. ETCHED WITH "NMB", NMB PART NO. AND EN PART NO. BEARINGS WITH INSUFFICIENT SIZE WILL BE MARKED WITH EN PART NO. ONLY.
3. PACKAGE : INDIVIDUALLY AND DRY IN SEALED POLY. BAGS. EACH POLY. BAG SHALL BE IDENTIFIED WITH "NMB", NMB PART NO. AND EN PART NO.
4. LUBRICATION : DRY.
5. CHROMIUM PLATED ON BALL SPHERICAL O.D. PER AMS-QQ-C-320, THICKNESS 15 μm TO 50 μm. (ENDS OPTION)
6. TEMP. RANGE : −55°C TO +163°C.
7. ød ≦ 8: ø0.08, ød > 8: ø0.12.
8. © CLEANING FOR BALL IS REQUIRED BEFORE SWAGING, CLEANING METHOD ACC.TO ISO8075.
9. TECHNOLOGY : NMB BEARING IS AVAILABLE WITH BONDED LINER TECHNOLOGY ONLY.
10. © TECHNICAL SPEC: EN2755.
11. © SIMILARITY ACCORDING TO AECMA TECHNICAL REPORT TR4661.
12. © INSPECTION: MAGNETIC PARTICLE INSPECTION PER ASTM E 1444.
13. © TECHN. SPEC: LINER MEETS REQUIREMENTS OF EN2755/AS81820 SPECIFICATION.

BORE CODE (BALL I.D. 6mm)
BASIC PART No.
WITH STAKING GROOVE.
NO CODE FOR WITHOUT STAKING GROOVE.
BALL CHROMIUM PLATED.
NO CODE FOR NO CHROMIUM PLATED. 5

NMB P/N : MHT6VPL-60
EN P/N : EN2584R06PA

BASIC PART No.
BORE CODE (BALL I.D. 6mm)
TECHNOLOGY CODE. 9
CODE 'A' : BONDED LINER.
CODE 'B' : INJECTED OR MOULDED LINER.
NO CODE : BOTH TECHNOLOGIES CAN BE USED AT THE MANUFACTURER'S OPTION.
BALL CHROMIUM PLATED.
NO CODE FOR NO CHROMIUM PLATED. 5
WITH STAKING GROOVE.
SUBSTITUTE BY 'S' FOR WITHOUT STAKING GROOVE.

PART NUMBER GUIDANCE

NMB GmbH
12-JUN-2012
ISSUED

No.		NAME	MATERIAL	FINISH	HEAT TREAT	QTY
3		LINER	TFE/N X-1820 13 ©	— // —	— // —	1
2	© 12	RACE	17-4PH CRES AMS5643/EN3161 ©	© 11	28-37HRC	1
1	© 12	BALL	440C CRES AMS5630/EN2030 ©	5 8	55-62HRC	1

CUSTOMER SPEC. NO.
EN2584: 2001

MARK	DATE	REASON / ECN NO.	ENGINEER	APPROVED
C	12.JUN.'12	SDCN-E90013C	[signature]	[signature]
B	20.JUN.'05	SDCN-E90013B	MURAKAMI	KAWADA
A	15.MAR.'90	REVISED TO COMPLY WITH EN2584 ISSUED 10/89	ASAKA	— // —

Minebea
Rodend-Fastener B/U
Rodend MFG Division
European Headquarters

APPROVED | CHECKED | DRAWN

UNIT mm
SCALE FREE
SIZE A2
CAGE CODE : S0352

LENGTH	TOL.
L≦4	±0.1
4<L≦16	±0.2
16<L≦63	±0.3
63<L≦250	±0.5
250<L≦1000	±0.8
DEG.	±0.5°

DATE 01. MAR. 1990 A
DESCRIPTION
SPHERICAL BEARING
PART NUMBER
MHTxx(V)(PL)-60 SERIES
SHEET 1/1
DRAWING NO.
E90013
REV. C