

## **Selection Guide**

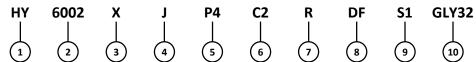
**Radial Bearings** 



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		<u> </u>	
	Material	-	Bearings made of bearing steel have no prefix
(1)		M	Bearings made of high temperature steel <sup>1</sup>
9		N	Bearings made from high nitrogen steel <sup>1</sup>
		HY	Balls made of Silicon Nitride, rings made of bearing steel
2	Bearing size	6002	Designation of dimension series and bore diameter
	Series/Shields	Х	Extra-wide bearing
3		Z	Shield on one side
		2Z	Shields on both sides (for matched pairs, shields are on outside faces)
	Cage	J	Steel ribbon cage, ball guided
		Т9Н	Crown cage of fiberglass reinforced polyamide, ball guided
		TBH	Crown cage of laminated phenolic resin, inner land guided
•		TA	Solid cage of laminated phenolic resin, outer land guided
		ТВ	Solid cage of laminated phenolic resin, inner land guided
		MA	Solid cage of brass, outer land guided
	<u> </u>	P4	European tolerance class, similar to ABEC 72
	Precision	P2	European tolerance class, similar to ABEC 9 <sup>2</sup>
Œ		A7	ABEC 7 per ABMA standards, similar to P4 <sup>2</sup>
<b>9</b>		A9	ABEC 9 per ABMA standards, similar to P2 <sup>2</sup>
		HG	GMN high precision according to GMN specification, higher than P4, but lower than UP <sup>2</sup>
		UP	GMN ultra precision according to GMN specification, higher than HG, but lower than P2 <sup>2</sup>
	Internal clearance	C2	Radial clearance smaller than standard <sup>2</sup>
<b>6</b>		-	Standard clearance <sup>2</sup>
<b>O</b>		C3	Radial clearance greater than standard <sup>2</sup>
		C4	Radial clearance greater than C3 <sup>2</sup>
	High point marking	R	High point mark for radial runout for both inner and outer rings
7		$R_{i}$	Similar to R, but only for inner ring
		$R_a$	Similar to R, but only for outer ring
	Bearing sets	DF	Face-to-Face arrangement
8		DB	Back-to-Back arrangement
		DT	Tandem arrangement
	Heat treatment	S1	Operating temperature up to 200° C¹
9		S2	Operating temperature up to 250° C¹
_		<b>S</b> 3	Operating temperature up to 300° C¹
(10)	Lubrication	-	No lubrication
(10)		GLY32	Lubrication identifier, ex. Asonic GLY 32
1	Available on request		

- Available on request
- 2. Exact specifications can be found in the GMN Ball Bearing Catalog