



All indications were made carefully and verified. Kugellager-Express doesn't assume any liability for incomplete or false indications.




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fast – beneficial – reliable

Suffix keys for deep groove ball bearings

BRAND/SEAL	KUGELLAGER-EXPRESS	SKF	FAG	NKE	NSK	NTN	KOYO	SNR	TWB
1/2 SHIELDS	Z/ZZ	Z/2Z	Z/2Z	Z/2Z	Z/ZZ	Z/ZZ	Z/ZZ	Z/ZZ	Z/ZZ
1/2 SEALS	RS/2RS	RS1/2RS1 RSH/2RSH	RSR/ 2RSR	RSR/2RSR RS2/2RS2	DU/ DDU	LU/ LLU	RS/ 2RS	E/ EE	RS/ 2RS

Comparison of seal characteristics

TYP	SEAL MATERIAL	SEAL DESIGN	PROS	CONS
 <p>Deep groove ball bearings without seal (offen)</p>	–	–	<ul style="list-style-type: none"> + no frictional resistance + simple relubrication 	<ul style="list-style-type: none"> – fast contamination
 <p>Deep groove ball bearings with shields on both sides (ZZ) identical to FAG and SKF: 2Z</p>	Stahlblech	Gap seal from a profiled sheet steel disc	<ul style="list-style-type: none"> + contactless + no additional friction and temperature increase + can be used up to the speed limit + good sealing effect against grease leakage + long maintenance-free running time (lubricated for life) 	<ul style="list-style-type: none"> – limited sealing effect against pollution
 <p>Deep groove ball bearings with sealing washers on both sides (2RS) identical to FAG: 2RSR and SKF: 2RS1, 2RSH</p>	NBR – temperature resistance -30 °C up to +120 °C	contact lip seal on both sides	<ul style="list-style-type: none"> + High sealing effect against dirt and moisture + NBR is resistant to a wide range of aggressive media + long maintenance-free running time (lubricated for life) 	<ul style="list-style-type: none"> – increased frictional resistance