

# ZXB Bearing

## Europe

*Premium quality that convinces!*

### Quality comparison to leading bearing manufacturers

Below you can see a comparison of the results of a noise test to a leading manufacturer of bearings that we have currently performed for a local engineering company. In this way, the high quality of our products is clearly shown once again.

Following you will see the results of a frequency analysis. It has been split into low-, medium- and high band. In this way direct conclusions can be done (grinding quality, offset of the raceways to one another and also damage such as foreign matters, eruptions or scratches). The analysis has been performed with a speed sensor on a BVT-1A.

#### Test specifications of the frequency analysis:

Low Frequency Band	= 50 ~ 300 Hz
Medium Frequency Band	= 300 ~ 1800 Hz
High Frequency Band	= 1800 ~ 10000 Hz
Speed	= 1800rpm
Axial load	= Depends on the bearing type

#### Fixed limits of the vibration standard:

	V2 [µm/s]			V3 [µm/s]			V4 [µm/s]		
	Low	Mid	High	Low	Mid	High	Low	Mid	High
6000 2RS	90	60	50	55	35	30	45	14	15
6004 2RS	130	100	75	80	60	45	60	25	25
6204 2RS	130	100	75	80	60	45	60	25	25
6207 2RS	150	120	100	90	75	60	70	42	45
6212 ZZ	240	180	200	145	110	130	100	80	80

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### Analysis results:

		<b>Low</b>	<b>Mid</b>	<b>High</b>
<b>6000 2RS</b>	FAG, side A	50	12	11
	FAG, side B	40	11	11
	UBS/ZXB, side A	21	9	9
	UBS/ZXB, side B	40	8	9
<b>6004 2RS</b>	FAG, side A	38	16	18
	FAG, side B	25	16	16
	UBS/ZXB, side A	23	15	12
	UBS/ZXB, side B	20	13	12
<b>6204 2RS</b>	FAG, side A	60	17	16
	FAG, side B	30	14	17
	UBS/ZXB, side A	50	17	18
	UBS/ZXB, side B	70	15	16
<b>6207 2RS</b>	FAG, side A	40	35	50
	FAG, side B	50	30	40
	UBS/ZXB, side A	40	30	50
	UBS/ZXB, side B	70	25	40
<b>6212 ZZ</b>	FAG, side A	70	60	50
	FAG, side B	100	40	70
	UBS/ZXB, side A	80	60	40
	UBS/ZXB, side B	60	40	50
<b>FAG mean value</b>		<b>50</b>	<b>25</b>	<b>30</b>
<b>FAG standard deviation</b>		<b>22</b>	<b>16</b>	<b>21</b>
<b>UBS/ZXB mean value</b>		<b>47</b>	<b>23</b>	<b>26</b>
<b>UBS/ZXB standard deviation</b>		<b>22</b>	<b>16</b>	<b>17</b>

These results are showing clearly the great quality of our bearings and that ZXB has not to be afraid of the comparison to leading bearing manufacturers!

**Try our service, we look forward to meeting you!**