



About us

The Zwicker ball bearing company was founded in 1927 in Esslingen a. N. by Christian Zwicker, a master of mechanics. After 50 years at the habitat Esslingen, Hans and Rolf Zwicker moved the factory to Schoellnach in the Bavarian Forest, easily accessible via the highways A3 and A92.



Even though every day several thousands of ball bearings leave our production, we have become more and more a manufacturer of specialties, adapted precisely to the requirements and usage of the customer.

Current investment in a flexible production, well trained and motivated coworkers as well as long-time engagement to a sub company in the Czech Republic ensure a delivery on time with reasonably priced and high-quality products. Trustful cooperation with other manufacturers of ball bearings world wide has been established for many years and provides us with the possibility to conduct even bigger orders without any problems.

As one of the producing companies inside the Künemund Group we are pleased that our products and our flexibility is appreciated by leading com-

pa-nies of most different industries.







Overview

Delivery program

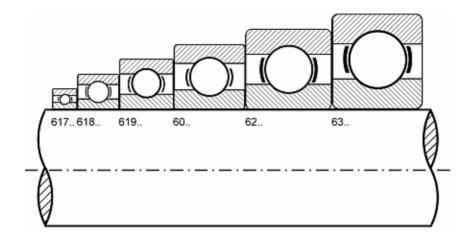
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All information, data and dimension tables in this catalogue have been compiled carefully and have been thoroughly checked. However, no responsibility for possible errors or omissions can be assumed. We reserve the right to change specifications and other information included in this catalogue without notice.

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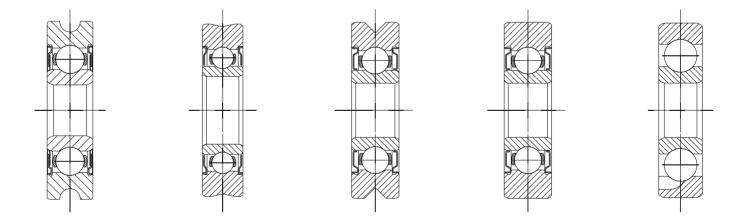


Program overview



The single row radial contact ball bearing is the most common rolling bearing. Besides the type series in compliance with boundary dimensions according to ISO 15, ball bearings other than the given values are also produced as miniature bearings, pulleys, wire alignment ball bearings and more special bearings. Further there are ball bearings in inch measurements in our program, which are oriented towards the ABMA/ANSI – boundary dimensions. Single row metric radial contact ball bearings according to DIN 625 are produced as series 617.., 618.., 619.., 60.. and 63.. . A comparison between the constructed sizes is shown in the chart above.

Being a German manufacturer of quality products, we have focussed our business on the demands of our clients. A few special products emerged from close co-operation during product planning, which offer our customers crucial advantages concerning carrying capacity, endurance, temperature stability and reliability of their products. No matter if bearing pairs, multiple arrangements, special bearings made out of special materials or bearing units ready for application, for many customers we have been an essential partner for decades if small or medium batch sizes in highest quality are of concern.



Some of these special types have become a part of the catalogue program because of high market demands, such as our track rollers with an outside diameter up to 62mm and wire straightening ball bearings R6.. with an outside diameter up to 47mm. These have a 90° annular groove by default but are also available with ground radii and other special designs on demand.

For the choice of the proper bearing you can take advantage of our application engineering service.



Designation code

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|----|------|--------|------|---|-----|-----|----|----|------|-----|
| HY | 6201 | /d12.7 | -2RS | N | T9H | 1P6 | C3 | G1 | NB52 | 20% |

| 1 | F HY LR R S | flanged ball bearings hybrid bearings, rings and balls made of different materials track rollers, pulleys wire straightening ball bearings ball bearings made of materials with high corrosion resistance |
|--------|---|--|
| 2/3 | 6201 R8 | identification according to DIN623 / DIN625 basic identification for bearings in inch measurements |
| 4 | Z RS RZ RU BRS URS VS | non-contact shield made of sheet steel land riding seal made of steel armoured NBR non-contact shield made of steel armoured NBR non-contact seal made of steel armoured NBR non-contact seal made of steel armoured NBR land riding seal made of steel armoured NBR land riding, steel armoured high temperature seal |
| 5 | N, NR NB, NBR | annular groove in outer ring, for NR with added snap ring like N/NR, but annular groove and closure on the same side |
| 6 | J Y T9H TXH TBH | two-part sheet steel cage, standard cage, not indicated two-part sheet brass cage one-part ball guided crown cage from PA66GF one-part ball guided crown cage from PEEKGF one-part, inner land guided phenolic crown cage, fibre reinforced |
| 7 | PN P6, P5, P4 | precision class PN according to DIN620T2, not indicated higher precision classes according to DIN620T2 |
| 8 | C C0/3 | radial internal bearing clearance according to DIN620T4, see page 13 optimized internal bearing clearance according to Zwicker– factory standard |
| | Rµ | specified rafial clearance, available on request |
| 9 | G | matched deep groove ball bearing, see page 16 |
| 10 / 1 | I | special lubricant and quantity, see page 14 |



Delivery versions

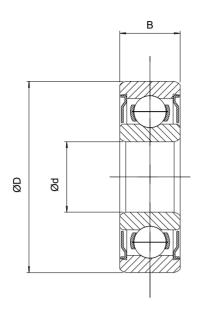
| | Open-type | Z | RS | RZ | BRS | URS | VS (Fluorelastomer) | Cn, C3 | C2 | C1, C4, C5 | Specified radial clearance | J - retainer | Y - retainer | TBH - retainer | T9H - retainer | TXH - retainer | P5 | P4 | Special lubrication | Matched G1, G2 | Matched G3 | Universally matched | Wire aligning bearings | Reinforced outer ring | Convex outer ring | nch sized bore diameter | Full ball complement | Hybrid versions |
|---------------|-----------|---|----|----|-----|--------|---------------------|--------|----|------------|----------------------------|--------------|--------------|----------------|---|----------------|----|----|---------------------|----------------|------------|---------------------|------------------------|-----------------------|-------------------|-------------------------|----------------------|-----------------|
| 623 | х | X | 0 | | | 1 | ŕ | x | х | х | X | x | Ó | 0 | | | x | 0 | X | 0 | 0 | 0 | X | 0 | 0 | | 0 | 0 |
| 618/4 | х | | | | | | | х | 0 | 0 | 0 | х | | | | | х | | х | х | х | 0 | | | | | 0 | 0 |
| 628/4 + 638/4 | х | х | х | | | | | х | 0 | 0 | 0 | х | | | | | х | | х | х | х | 0 | | | | | 0 | 0 |
| 619/4 | х | Х | х | | | | | х | 0 | 0 | 0 | х | | | | | х | | х | х | х | 0 | | | | | 0 | 0 |
| 604 | х | Х | х | | | | | х | х | х | х | х | 0 | х | | | х | | х | х | х | 0 | х | 0 | 0 | | 0 | 0 |
| 624 | х | Х | х | | | | | х | х | х | х | х | 0 | х | | | х | 0 | х | х | х | 0 | х | 0 | 0 | | 0 | 0 |
| 634 | х | X | х | | | | | х | х | х | х | х | Х | Х | | | х | х | х | х | Х | 0 | х | 0 | 0 | | 0 | 0 |
| 618/5 | х | | | | | | | х | 0 | 0 | 0 | х | | 0 | | | х | | х | х | х | 0 | | | | | 0 | 0 |
| 628/5 + 638/5 | х | х | х | | | | | х | 0 | 0 | 0 | х | | 0 | | | х | | х | х | х | 0 | | | | | 0 | 0 |
| 619/5 | х | X | х | | | | | х | 0 | 0 | 0 | х | | х | | | х | | х | х | х | 0 | | | 0 | | 0 | 0 |
| 605 | х | Х | х | | | | | х | 0 | 0 | 0 | х | х | х | | | х | | х | х | х | 0 | х | 0 | 0 | | 0 | 0 |
| 625 | х | х | х | | | | | х | х | х | х | х | х | х | | | х | х | х | х | х | 0 | х | 0 | 0 | | 0 | 0 |
| 635 | х | Х | х | | х | | х | х | х | х | х | х | 0 | х | х | х | х | х | х | х | х | 0 | х | х | 0 | | 0 | 0 |
| 618/6 | Х | | | | | | | х | X | X | Х | х | | 0 | | | х | 0 | х | Х | X | 0 | | | | | 0 | 0 |
| 628/6 | Х | X | 0 | | | | | х | х | X | Х | х | | 0 | | | х | 0 | х | х | Х | 0 | | | | | 0 | 0 |
| 619/6 | х | Х | х | | | | | х | 0 | 0 | 0 | х | | | | | х | 0 | х | х | х | 0 | | | | | 0 | 0 |
| 606 | Х | X | Х | | | | | Х | X | X | X | Х | | X | | | Х | 0 | Х | X | X | 0 | | | 0 | | 0 | 0 |
| 626 | Х | X | Х | | X | | Х | х | X | X | X | Х | 0 | X | X | Х | Х | X | х | Х | X | 0 | Х | X | 0 | 0 | 0 | 0 |
| 618/7 | х | | | | | | | х | х | Х | х | х | | 0 | | | х | 0 | х | х | х | 0 | | | | | 0 | 0 |
| 628/7 | X | X | X | | | | | Х | X | X | X | Х | | 0 | | | Х | 0 | Х | X | X | 0 | | | | | 0 | 0 |
| 619/7 | Х | X | 0 | | | | | х | X | X | Х | Х | | X | | | Х | 0 | X | Х | X | 0 | | | 0 | | 0 | 0 |
| 607 | X | X | X | | X | | х | Х | X | X | Х | Х | 0 | X | X | Х | Х | Х | Х | Х | X | 0 | X | X | 0 | | 0 | 0 |
| 627 | X | X | X | X | X | X | х | Х | X | X | X | Х | 0 | X | X | Х | Х | Х | Х | X | X | 0 | X | X | 0 | | 0 | 0 |
| 618/8 | X | | | | | | | Х | X | X | X | х | | 0 | | | х | 0 | х | X | X | 0 | | | | | 0 | 0 |
| 628/8 + 638/8 | Х | X | Х | | | | | Х | X | X | Х | Х | | X | | | Х | 0 | Х | Х | X | 0 | | | | | 0 | 0 |
| 619/8 | X | X | X | | | | | х | X | X | X | х | 0 | X | 0 | х | Х | х | х | X | X | 0 | X | X | 0 | | 0 | 0 |
| 608 | X | X | X | X | X | X | х | х | X | X | X | х | 0 | X | X | х | Х | х | х | X | X | 0 | X | X | 0 | 0 | 0 | 0 |
| 628 | X | X | X | | | | | х | 0 | 0 | 0 | х | | | | | X | 0 | x | X | X | 0 | | | | | 0 | 0 |
| 618/9 | X | | | | | | | х | X | X | X | х | | 0 | | | х | 0 | x | х | X | 0 | | | | | 0 | 0 |
| 628/9 | X | X | X | | | | | х | X | X | X | х | | 0 | | | х | 0 | х | X | X | 0 | | | | | 0 | 0 |
| 619/9 | X | X | 0 | | | | | х | X | X | X | х | | 0 | | | х | 0 | х | х | X | 0 | | | 0 | | 0 | 0 |
| 609 | X | X | X | | | | | х | X | X | X | х | 0 | X | | | X | х | х | X | X | 0 | | | 0 | | 0 | 0 |
| 629 | X | X | X | X | 0 | 0 | х | х | X | X | X | х | 0 | X | X | | X | х | х | X | X | 0 | 0 | X | 0 | | 0 | 0 |
| 61800 | X | X | X | | | | | х | X | X | X | х | | 0 | X | | Х | х | х | X | X | 0 | | | | | 0 | 0 |
| 62800/63800 | X | X | 0 | | | | | х | X | X | X | х | | 0 | | | Х | х | х | X | X | 0 | | | | | 0 | 0 |
| 61900 | х | X | X | | | | | х | х | X | х | х | 0 | X | | | х | х | х | х | X | 0 | x | X | 0 | 0 | 0 | 0 |
| 6000 | X | X | X | X | X | X | х | х | X | X | X | х | 0 | X | X | | Х | х | х | X | X | 0 | X | X | 0 | 0 | 0 | 0 |
| 16100 | х | X | х | | | | | х | х | X | х | х | 0 | X | | | х | х | х | х | X | 0 | | X | 0 | | 0 | 0 |
| 6200 | х | X | X | | | | 0 | х | х | X | X | х | X | X | X | | х | х | х | х | X | 0 | x | X | 0 | 0 | 0 | 0 |
| 6300 | X | X | 0 | | | | | х | X | X | x | х | X | X | | | X | х | х | х | X | 0 | | | 0 | | 0 | 0 |
| 61801 | X | X | X | X | | | | х | X | X | х | х | | 0 | X | | х | х | х | x | X | 0 | | | | | 0 | 0 |
| 62801/63801 | X | X | 0 | 0 | | | Щ | х | X | X | X | х | | 0 | | Щ | х | х | x | X | X | 0 | | | | | 0 | 0 |
| 61901 | Х | Х | Х | | | \Box | Ш | Х | Х | X | Х | Х | | X | $ldsymbol{ld}}}}}}$ | Ш | Х | х | х | Х | Х | 0 | Ш | Ш | 0 | | 0 | 0 |

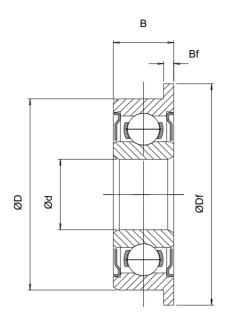


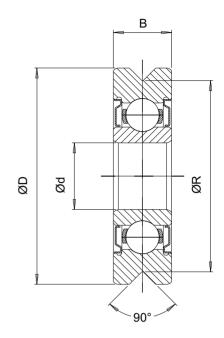
Delivery versions

| | Open-type | | RS | RZ | BRS | URS | VS (Fluorelastomer) | Cn, C3 | C2 | C1, C4, C5 | Specified radial clearance | - retainer | - retainer | TBH - retainer | T9H - retainer | TXH - retainer | P5 | 4 | Special lubrication | Matched G1, G2 | Matched G3 | Universally matched | Wire aligning bearings | Reinforced outer ring | Convex outer ring | nch sized bore diameter | Full ball complement | Hybrid versions |
|-------------|-----------|-----|----|----|-----|-----|---------------------|--------|----|------------|----------------------------|------------|------------|----------------|----------------|----------------|----|------|---------------------|----------------|------------|---------------------|------------------------|-----------------------|-------------------|-------------------------|----------------------|-----------------|
| 6001 | | Z > | | | | | ŕ | | | | | \cap | Υ (| _ | × | | | , P4 | | | | <u> </u> | > | ď | | 드 | | |
| 16101 | X | x | x | Х | X | 0 | Х | x | x | x | x | x | 0 | x | ^ | Х | x | x | x x | x | x | 0 | _ | | x | ┢ | 0 | 0 |
| 6201 | x | x | X | х | х | х | х | x | x | x | x | x | x | X | х | x | x | x | x | x | x | 0 | <u></u> | х | x | \vdash | 0 | 0 |
| 6301 | x | X | x | Ĥ | Ĥ | _ | Ĥ | x | x | x | x | x | _ | x | x | Ĥ | x | X | x | x | X | 0 | Ĥ | <u>^</u> | ^ | \vdash | 0 | 0 |
| 61802 | x | X | x | х | | | | x | X | x | х | x | | 0 | X | | X | Х | x | x | X | 0 | | | | | 0 | 0 |
| 62802/63802 | х | х | 0 | 0 | | | | X | X | x | х | X | | 0 | | П | X | Х | х | X | Х | 0 | | | | | 0 | 0 |
| 61902 | х | Х | x | x | | | | X | X | X | х | X | | x | | П | X | х | х | X | X | 0 | | | 0 | | 0 | 0 |
| 16002 | х | Х | 0 | | | | | х | х | х | х | х | 0 | х | | | х | х | х | х | х | 0 | | | 0 | | 0 | 0 |
| 6002 | х | х | х | х | х | х | х | х | х | х | х | х | 0 | х | х | | х | х | х | х | х | 0 | | | 0 | 0 | 0 | 0 |
| 6202 | х | х | х | | х | х | х | х | х | х | х | х | 0 | х | х | х | х | х | х | х | х | 0 | x | х | 0 | х | 0 | 0 |
| 6302 | х | х | | | | х | | х | х | х | х | х | | х | | | х | х | х | х | х | 0 | | | | | 0 | 0 |
| 61803 | х | х | х | | | | | х | х | х | х | х | | 0 | | | х | х | х | х | х | 0 | | | | | 0 | 0 |
| 62803/63803 | х | х | 0 | | | | | х | х | х | х | х | | 0 | | | х | х | х | х | х | 0 | | | | | 0 | 0 |
| 61903 | х | Х | х | | | | | х | х | х | х | х | | х | | | х | х | х | х | х | 0 | | | 0 | | 0 | 0 |
| 16003 | х | Х | 0 | | | | | х | х | х | х | х | | х | х | | х | х | х | х | Х | 0 | | | 0 | | 0 | 0 |
| 6003 | х | х | х | х | х | | х | х | х | х | х | х | | х | х | | х | х | х | х | х | 0 | | | 0 | | 0 | 0 |
| 6203 | х | х | х | х | х | х | х | х | х | х | х | х | | х | х | х | х | х | х | х | х | 0 | | | 0 | х | 0 | 0 |
| 6303 | Х | Х | | | | х | | х | 0 | 0 | | х | | | | | х | | х | | 0 | | | | | | | |
| 61804 | х | Х | х | х | | | | х | х | х | х | х | | 0 | 0 | | х | х | х | х | х | х | | | | | 0 | 0 |
| 61904 | X | X | Х | | | | | Х | 0 | 0 | 0 | Х | | | 0 | | Х | | 0 | 0 | 0 | 0 | | | | | 0 | 0 |
| 6004 | X | X | х | X | | | X | X | X | X | X | X | | X | X | х | X | X | х | X | X | 0 | | | 0 | | 0 | 0 |
| 6204 | X | X | 0 | | | X | X | X | X | X | X | X | | X | X | | X | X | Х | X | X | 0 | | | 0 | | 0 | 0 |
| 6304 | X | X | | | X | X | | X | 0 | 0 | | X | | | | | X | | х | | 0 | | | | | | | |
| 61805 | X | X | X | | | | | X | 0 | 0 | 0 | X | | | | Ш | X | | 0 | 0 | 0 | 0 | | | | | 0 | 0 |
| 61905 | X | X | X | | | | | X | 0 | 0 | 0 | х | | | | Ш | х | | 0 | 0 | 0 | 0 | | | | | 0 | 0 |
| 6005 | X | X | Х | X | | | х | х | X | х | х | х | | X | X | | х | х | х | х | X | 0 | | | 0 | | 0 | 0 |
| 6205 | X | X | 0 | | | | | X | X | X | X | X | | X | 0 | Ш | X | Х | х | X | X | 0 | | | 0 | | 0 | 0 |
| 6305 | х | Х | | | | Х | | х | 0 | 0 | | х | | | | Ш | х | | х | | 0 | | | | | _ | | |
| 61806 | X | X | Х | | | | | Х | 0 | 0 | 0 | х | | | | Ш | Х | | 0 | 0 | 0 | 0 | | | | | 0 | 0 |
| 61906 | X | X | Х | | | | | х | 0 | 0 | 0 | Х | | | | Ш | Х | | 0 | Х | X | 0 | | | | | 0 | 0 |
| 6006 | X | X | Х | | | X | | Х | 0 | 0 | 0 | Х | | 0 | | | Х | | 0 | 0 | 0 | 0 | | | 0 | _ | 0 | 0 |
| 6206 | Х | Х | Х | | | Х | | Х | 0 | 0 | 0 | Х | | 0 | 0 | Щ | Х | | 0 | 0 | 0 | 0 | | | 0 | _ | 0 | 0 |
| 6306 | X | X | | | | X | | X | 0 | 0 | | X | | | | Щ | X | | Х | | 0 | | | | | | | |
| | | | | | | | Ш | | | | | | | | | Ш | | | | | | Ш | | | | _ | | |
| R4 | Х | Х | _ | | | | Щ | х | X | Х | Х | х | | | | Ш | х | | х | 0 | 0 | 0 | | | | <u> </u> | 0 | 0 |
| R4A | Х | | | | | | | Х | Х | Х | Х | х | | | | Щ | х | | х | 0 | 0 | 0 | | | | \vdash | 0 | 0 |
| R4A-2Z | Х | X | 0 | | | | | Х | Х | Х | Х | Х | | | | Ш | Х | | Х | 0 | 0 | 0 | | | | | 0 | 0 |
| R6 | Х | | | | | | | Х | Х | Х | Х | Х | | | | | Х | | х | 0 | 0 | 0 | | | | | 0 | 0 |
| R6-2Z | Х | X | 0 | | | | | Х | X | X | Х | X | | | | Щ | Х | | Х | 0 | 0 | 0 | | | | | 0 | 0 |
| R8 | Х | | - | - | - | | Н | Х | X | Х | Х | Х | | | | Щ | Х | | х | 0 | 0 | 0 | | | | <u> </u> | 0 | 0 |
| R8-2Z | X | Х | 0 | | | | | X | X | X | Х | X | | | | Н | Х | | Х | 0 | 0 | 0 | | | | | 0 | 0 |
| R10 | Х | | | | | | | X | Х | Х | Х | Х | | | | Щ | Х | | Х | 0 | 0 | 0 | | | | | 0 | 0 |
| R10-2Z | Х | Х | 0 | Щ | Щ | | | Х | X | Х | Х | Х | | | | Ш | Х | | Х | 0 | 0 | 0 | | | | Щ | 0 | 0 |









| | | | Dimer | nsions | in mm | | | Load rat | ings in N | Lim | iting Sp | eed | Weight |
|----------|---|----|-------|--------------------|----------|-------|-------|----------|-----------|------|----------|-----------------|--------|
| Туре | | | | , main | Ь | Б | В | Static | Dynamic | Oil | Grease | 2RS | ca. |
| | d | D | В | r _s min | D_{MR} | D_F | B_F | C_{0r} | C_r | х | 1000 mii | n ⁻¹ | Gram |
| 623 | 3 | 10 | 4 | 0,15 | | 11,5 | 1 | 220 | 630 | 60,0 | 50,0 | 26,0 | 1,65 |
| R623/10 | 3 | 10 | 4 | 0,15 | 9,4 | | | 220 | 630 | 36,0 | 30,0 | 15,5 | 1,50 |
| R623/13 | 3 | 13 | 4 | 0,15 | 11 | | | 220 | 630 | 36,0 | 30,0 | 15,5 | 2,90 |
| 618/4 | 4 | 9 | 2,5 | 0,1 | | 10,3 | 0,6 | 225 | 640 | 63,0 | 53,0 | | 0,65 |
| 628/4 | 4 | 9 | 3,5 | 0,1 | | | | 225 | 640 | 63,0 | 53,0 | 26,0 | 1,00 |
| 638/4 | 4 | 9 | 4 | 0,1 | | 10,3 | 1 | 225 | 640 | 63,0 | 53,0 | 26,0 | 1,35 |
| 619/4 | 4 | 11 | 4 | 0,15 | | 12,5 | 1 | 350 | 965 | 56,0 | 48,0 | 24,0 | 1,75 |
| 604 | 4 | 12 | 4 | 0,2 | | 13,5 | 1 | 350 | 965 | 56,0 | 48,0 | 24,0 | 2,34 |
| 624 | 4 | 13 | 5 | 0,2 | | 15 | 1 | 490 | 1.340 | 48,0 | 40,0 | 24,0 | 3,20 |
| 624 TBH | 4 | 13 | 5 | 0,2 | | | | 490 | 1.340 | 57,5 | 48,0 | 24,0 | 2,80 |
| R624/13 | 4 | 13 | 5 | 0,2 | 12,5 | | | 490 | 1.340 | 29,0 | 24,0 | 14,5 | 3,10 |
| 634 | 4 | 16 | 5 | 0,3 | | 18 | 1 | 680 | 1.880 | 60,0 | 50,0 | 36,0 | 5,44 |
| 634 TBH | 4 | 16 | 5 | 0,3 | | | | 680 | 1.880 | 72,0 | 60,0 | 36,0 | 5,44 |
| R634/16 | 4 | 16 | 5 | 0,3 | 15 | | | 680 | 1.880 | 36,0 | 30,0 | 21,5 | 5,20 |
| 618/5 | 5 | 11 | 3 | 0,15 | | 12,5 | 0,8 | 280 | 715 | 53,0 | 45,0 | | 1,16 |
| 628/5 | 5 | 11 | 4 | 0,15 | | 12,6 | 0,8 | 280 | 715 | 53,0 | 45,0 | 25,0 | 1,62 |
| 638/5 | 5 | 11 | 5 | 0,15 | | 12,5 | 1 | 280 | 715 | 53,0 | 45,0 | 25,0 | 1,93 |
| 619/5 | 5 | 13 | 4 | 0,2 | | 15 | 1 | 430 | 1.075 | 50,0 | 43,0 | 24,0 | 2,39 |
| 605 | 5 | 14 | 5 | 0,2 | | 16 | 1 | 505 | 1.330 | 50,0 | 40,0 | 22,0 | 3,75 |
| 625 | 5 | 16 | 5 | 0,3 | | 18 | 1 | 680 | 1.880 | 60,0 | 50,0 | 36,0 | 4,90 |
| 625 TBH | 5 | 16 | 5 | 0,3 | | | | 680 | 1.880 | 72,0 | 60,0 | 36,0 | 4,60 |
| R625/16 | 5 | 16 | 5 | 0,3 | 15 | | | 680 | 1.880 | 36,0 | 30,0 | 21,5 | 5,20 |
| 635 | 5 | 19 | 6 | 0,3 | | 22 | 1,5 | 1.050 | 2.460 | 48,0 | 40,0 | 25,0 | 9,00 |
| 635 TBH | 5 | 19 | 6 | 0,3 | | | | 1.050 | 2.460 | 58,0 | 48,0 | 25,0 | 8,70 |
| LR635/21 | 5 | 21 | 6 | 0,3 | | | | 1.050 | 2.460 | 48,0 | 40,0 | 25,0 | 12,10 |
| R635/21 | 5 | 21 | 6 | 0,3 | 19 | | | 1.050 | 2.460 | 29,0 | 24,0 | 15,0 | 11,30 |



| Type | | | | Dimer | nsions | in mm | | | Load rat | ings in N | Lim | iting Sp | eed | Weight |
|--|-----------|----|-----|-------|--------------------|----------|---------|----------|----------|-----------|------|----------|-----------------|--------|
| 61866 6 13 3,5 0,15 15 1 440 1.080 50,0 40,0 22,0 2,86 6196 6 15 5 0,2 17 12,2 525 1.340 450, 40,0 22,0 6,40 606 TBH 6 17 6 0,3 1 9 1.2 775 1.795 48.0 40,0 22,0 6,40 606 TBH 6 19 6 0,3 2 1 1 1,60 0,3 1 1,75 5 0,0 1 40,0 1 2,0 3 6,60 0,7 1 1,7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Type | | _ | | | | _ | | Static | Dynamic | Oil | Grease | 2RS | ca. |
| BIBBIG 6 | | a | D | B | r _s min | D_{MR} | D_{F} | B_F | C_{0r} | C_r | X · | 1000 mi | n ⁻¹ | Gram |
| 622816 6 13 5 0,15 15 1,1 440 1,080 50,0 40,0 22,0 2,88 61916 6 15 5 0,2 17 1,2 525 1,340 45,0 40,0 22,0 6,40 606 6 17 6 0,3 19 1,2 776 1,795 48,0 40,0 22,0 6,40 606 17 6 0,3 2 1,55 1,050 2,460 48,0 22,0 6,40 6287 6 19 6 0,3 2 1,050 2,460 48,0 22,0 8,20 LLR626/21 6 21 6 0,3 19 1,1050 2,460 48,0 40,0 25,0 11,50 618/7 7 14 3,5 0,15 16 1 515 1,175 50,0 40,0 22,0 2,03 619/7 7 14 <th< td=""><td>618/6</td><td>6</td><td>13</td><td>3,5</td><td>0,15</td><td></td><td>15</td><td>1</td><td>_</td><td></td><td></td><td></td><td></td><td>1,87</td></th<> | 618/6 | 6 | 13 | 3,5 | 0,15 | | 15 | 1 | _ | | | | | 1,87 |
| 6196 | | | _ | | | | | | | | | | 22.0 | |
| 606 6 | | | 15 | 5 | | | | | | | | | | |
| GOB TBH | | | 17 | 6 | | | | | | | | | | |
| 626 6 19 6 0.3 22 1,5 1.050 2.460 48,0 40,0 25,0 8,60 626 TBH 6 19 6 0,3 1 1.050 2.460 58,0 48,0 25,0 8,20 LR626/21 6 21 6 0,3 19 1.050 2.460 38,0 24,0 15,0 11,50 618/7 7 14 3,0 16 1 515 1.175 50,0 40,0 22,0 2,93 28287 7 14 5 0,15 16 1 515 1.175 50,0 40,0 22,0 2,95 619/7 7 17 5 0,3 19 12 720 1.605 43,0 36,0 20,0 5,26 607 7 19 6 0,3 22 1,5 1.050 2.460 42,0 36,0 20,0 5,26 607 | | | | 6 | | | | ŕ | | | | _ | | |
| 626 TBH 6 19 6 0.3 1050 2.460 58.0 48.0 25.0 8.20 LR626/21 6 21 6 0.3 1050 2.460 48.0 40.0 25.0 11.50 R626/21 6 21 6 0.3 19 1.050 2.460 48.0 40.0 25.0 11.50 618/7 7 14 3.5 0.15 16 1 515 1.175 50.0 40.0 22.03 62877 7 14 5 0.15 16 1 515 1.175 50.0 40.0 22.0 2.56 607 7 19 6 0.3 22 1,5 1.050 2.460 42.0 36.0 25.0 7.90 607 TBH 7 19 6 0.3 25 1,5 1.250 3.200 40.0 33.0 23.0 12.40 627 TBH 7 22 7 | | 6 | 19 | 6 | | | 22 | 1,5 | | | | 40,0 | | |
| IRBG26/21 | | | 19 | | _ | | | ,- | | | | | | |
| R626/21 | LR626/21 | 6 | 21 | 6 | | | | | | 2.460 | | | | |
| 618/7 7 14 3,5 0,15 16 1 515 1.175 50,0 40,0 2,0 2,0 3 628/7 7 14 5 0,15 16 1,1 515 1.175 50,0 40,0 22,0 2,95 619/7 7 14 5 0,3 19 1,2 720 1.605 43,0 36,0 20,0 5,26 607 7 19 6 0,3 22 1,5 1.050 2.460 42,0 36,0 25,0 7,90 607 TBH 7 19 6 0,3 22 1,5 1.050 2.460 50,0 40,0 32,0 12,40 627 TBH 7 22 7 0,3 25 1,5 1.250 3.200 40,0 33,0 25,0 7,50 627 7 7 22 7 0,3 25 1,5 1.250 3.200 40,0 33,0 23,0 12,40 627 TBH 7 22 7 0,3 1 1.250 3.200 40,0 33,0 23,0 12,40 627 TBH 7 24 7 0,3 1 1.250 3.200 40,0 33,0 23,0 12,40 18627/24 7 24 7 0,3 1 1.250 3.200 40,0 33,0 23,0 12,00 18627/26 7 26 7 0,3 23 1.250 3.200 40,0 33,0 23,0 12,00 18627/26 7 26 7 0,3 23 1.250 3.200 40,0 33,0 23,0 12,00 18627/26 7 26 7 0,3 23 1.250 3.200 40,0 33,0 23,0 12,00 18627/26 7 26 7 0,3 23 1.250 3.200 40,0 33,0 23,0 12,00 18627/26 8 8 16 5 0,2 18 1,1 590 1.250 3.200 40,0 33,0 23,0 12,00 19,10 1 | | 6 | | 6 | | 19 | | | | | | _ | | |
| 628/7 7 14 5 0,15 16 1,1 515 1.175 50.0 40,0 22,0 2,95 619/7 7 17 5 0,3 19 1,2 720 1.605 43,0 36,0 25,0 5,26 607 7 19 6 0,3 2 1.5 1.050 2.460 42,0 36,0 25,0 7,90 607 7 19 6 0,3 2 1.55 1.050 2.460 50,0 43,0 25,0 7,50 627 7 19 6 0,3 2 1.250 3.200 40,0 33,0 23,0 12,00 LR627/24 7 24 7 0,3 1 1.250 3.200 40,0 33,0 23,0 16,40 LR627/26 7 26 7 0,3 2 1.250 3.200 40,0 33,0 23,0 20,0 618/8 | | - | 4.4 | 0.5 | | | 40 | | | | | | · | |
| 619/7 | | | | | | | | | | | | | 00.0 | |
| 607 7 19 6 0.3 22 1,6 1.050 2.460 42,0 36,0 25,0 7,90 607 TBH 7 19 6 0.3 1.050 2.460 50,0 43,0 25,0 7,50 627 7 7 22 7 0.3 25 1,5 1,250 3.200 40,0 33,0 23,0 12,00 LR627/24 7 24 7 0,3 1,250 3.200 40,0 33,0 23,0 12,00 LR627/26 7 26 7 0,3 1,250 3.200 40,0 33,0 23,0 16,40 LR627/26 7 26 7 0,3 2 1,250 3.200 40,0 33,0 23,0 16,40 LR827/26 7 26 7 0,3 2 18 1,250 3.200 40,0 33,0 23,0 19,10 619/8 8 16 6< | | | | _ | | | | | | | | | | |
| 607 TBH 7 19 6 0.3 25 1.5 1.050 2.460 50.0 43.0 25.0 7.50 627 7 7 22 7 0.3 25 1.5 1.250 3.200 40.0 33.0 23.0 12.40 627 TBH 7 22 7 0.3 1 1.250 3.200 40.0 33.0 23.0 12.40 LR627/24 7 24 7 0.3 1.250 3.200 40.0 33.0 23.0 16.40 LR627/26 7 26 7 0.3 1.250 3.200 40.0 33.0 23.0 16.40 LR627/26 7 26 7 0.3 23 1.250 3.200 40.0 33.0 23.0 20.70 R627/26 7 26 7 0.3 23 1.250 3.200 40.0 33.0 23.0 20.70 R627/26 7 26 7 0.3 23 1.250 3.200 40.0 33.0 36.0 30.0 19.10 19.10 618/8 8 16 4 0.2 18 18 1 590 1.250 43.0 36.0 36.0 3.11 628/8 8 16 5 0.2 18 1.1 590 1.250 43.0 36.0 20.0 4.70 619/8 B 19 6 0.3 22 1.5 1.050 2.460 42.0 36.0 20.0 4.70 619/8 B 8 19 6 0.3 22 1.5 1.050 2.460 42.0 36.0 22.0 7.80 619/8 TBH 8 19 6 0.3 25 1.5 1.250 3.200 41.0 34.0 23.0 12.10 608 TBH 8 22 7 0.3 20.2 1.250 3.200 41.0 34.0 23.0 12.10 608 TBH 8 22 7 0.3 20.2 1.250 3.200 41.0 34.0 23.0 12.10 608 TBH 8 22 7 0.3 20.2 1.250 3.200 41.0 34.0 23.0 12.10 608 TBH 8 22 7 0.3 20.2 1.250 3.200 41.0 34.0 23.0 12.10 608 TBH 8 24 8 24 7 0.3 20.2 1.250 3.200 41.0 34.0 23.0 12.10 608 TBH 8 24 8 24 7 0.3 20.2 1.250 3.200 41.0 34.0 23.0 12.10 608 TBH 8 24 8 0.3 1.250 3.200 41.0 34.0 23.0 15.80 LR608/26 8 26 7 0.3 20.2 1.250 3.200 41.0 34.0 23.0 15.80 LR608/26 8 26 7 0.3 23 1.250 3.200 41.0 34.0 23.0 15.80 LR608/26 8 26 7 0.3 23 1.250 3.200 41.0 34.0 23.0 20.20 R608/26 8 26 7 0.3 23 1.250 3.200 41.0 34.0 23.0 20.0 44.0 11.60 609 9 17 4 0.2 19 1 670 1.325 43.0 36.0 20.0 14.0 11.50 609 19 20 6 0.3 23 1.5 1.80 1.250 3.200 41.0 34.0 23.0 20.0 44.0 609 9 24 7 0.3 23 1.5 1.80 1.250 3.200 41.0 34.0 23.0 15.80 609 19 20 6 0.3 23 1.5 1.80 1.250 3.200 41.0 34.0 23.0 15.80 609 19 20 6 0.3 23 1.5 1.80 1.250 3.200 41.0 34.0 23.0 15.80 609 19 20 6 0.3 23 1.5 1.250 3.200 40.0 33.5 28.0 16.5 31.30 609/10 10 24 7 0.3 23 1.5 1.80 1.90 4.600 33.5 28.0 16.5 31.30 609/10 10 24 7 0.3 20 1.5 1.5 1.5 1.80 2.40 4.00 33.5 28.0 16.5 31.30 609/10 10 24 7 0.3 20 1.5 1.5 1.5 1.80 1.90 3.5 28.0 16.5 31.30 609/10 10 24 7 0.3 20 1.5 1.5 1.5 1.5 1.80 1.400 3.350 3.60 3.0 19.0 19.0 14.00 609/10 10 19 5 0.3 18.0 19.0 1 | | | | | _ | | | | | | | | | |
| 627 | | | | | | | 22 | 1,5 | | | | | | |
| 627 TBH 7 22 7 0,3 12,00 LR627/24 7 24 7 0,3 12,00 LR627/26 7 26 7 0,3 2 1.250 3.200 40,0 33,0 23,0 16,40 R627/26 7 26 7 0,3 2 1.250 3.200 40,0 33,0 23,0 16,40 R627/26 7 26 7 0,3 2 1.250 3.200 40,0 33,0 23,0 23,0 16,40 R627/26 7 26 7 0,3 2 3 1.250 3.200 40,0 33,0 23,0 20,70 R627/26 8 16 4 0,2 18 1 590 1.250 43,0 36,0 20,0 14,0 19,10 618/8 8 16 5 0,2 18 1,1 590 1.250 43,0 36,0 20,0 4,05 638/8 8 16 6 0,2 18 1,3 590 1.250 43,0 36,0 20,0 4,75 638/8 8 19 6 0,3 22 1,5 1,050 2.460 42,0 36,0 22,0 7,80 619/8 TBH 8 19 6 0,3 22 1,5 1,050 2.460 50,0 43,0 36,0 22,0 7,40 608 8 22 7 0,3 25 1,5 1.250 3.200 41,0 34,0 23,0 12,10 608 18 8 22 7 0,3 25 1,5 1.250 3.200 41,0 34,0 23,0 12,10 R608/24 8 24 7 0,3 2 1.250 3.200 41,0 34,0 23,0 12,10 LR608/26 8 26 7 0,3 20,2 1.250 3.200 41,0 34,0 23,0 11,30 R608/26 8 26 7 0,3 20,2 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 2 3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 8 3,3 1.250 3.200 41,0 34,0 19,0 14,0 17,50 628 8 24 8 0,3 1.250 3.200 40,0 33,0 36,0 14,0 14,0 17,50 629 TBH 9 24 7 0,3 23 1.5 1.630 3.650 36,0 30,0 19,0 14,70 609 TBH 9 24 7 0,3 21 1.5 1.630 3.650 36,0 30,0 19,0 14,0 17,50 629 TBH 9 26 8 0,3 1.1970 4.600 33,5 28,0 16,5 19,80 LR629/28 9 28 8 0,3 1.1970 4.600 33,5 28,0 16,5 19,80 LR629/28 9 28 8 0,3 1.1970 4.600 33,5 28,0 16,5 19,80 LR629/28 9 28 8 0,3 21 1.5 840 1.450 43,0 36,0 18,0 6,20 63800 10 19 6 0,3 25 1,5 14,5 1430 1.450 43,0 36,0 18,0 7,40 61900 TBH 10 22 6 0,3 25 1,5 | | | | | _ | | 0.5 | 4.5 | | | | | | |
| LR627/24 | | | | | _ | | 25 | 1,5 | | | | | | |
| LR627/26 | | | | | | | | | | | | | | |
| R627/26 7 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 19,10 618/8 8 16 4 0,2 18 1 590 1.250 43,0 36,0 20,0 4,05 638/8 8 16 5 0.2 18 1,1 590 1.250 43,0 36,0 20,0 4,05 619/8 8 19 6 0,3 2 1,5 1,050 2.460 42,0 36,0 22,0 7,80 619/8 TBH 8 19 6 0,3 2 1,050 2.460 50,0 43,0 22,0 7,40 608 8 22 7 0,3 25 1,5 1,250 3,200 41,0 34,0 23,0 12,10 608 TBH 8 22 7 0,3 22 1,250 3,200 41,0 34,0 23,0 11,60 R608/24 | | | | | | | | | | | | | | |
| 618/8 8 16 4 0.2 18 1 590 1.250 43,0 36,0 20,0 4,05 638/8 8 16 5 0,2 18 1,1 590 1.250 43,0 36,0 20,0 4,05 638/8 8 16 6 0.2 18 1,3 590 1.250 43,0 36,0 20,0 4,70 619/8 8 19 6 0,3 22 1,5 1.050 2.460 42,0 36,0 22,0 7,80 619/8 TBH 8 19 6 0,3 22 1,5 1.050 2.460 50,0 43,0 22,0 7,40 608 8 22 7 0,3 25 1,5 1.250 3.200 41,0 34,0 23,0 12,10 608 TBH 8 22 7 0,3 20,2 1.250 3.200 41,0 34,0 23,0 11,30 R608/2 8 22 7 0,3 20,2 1.250 3.200 41,0 34,0 23,0 11,30 R608/2 8 22 7 0,3 20,2 1.250 3.200 41,0 34,0 23,0 11,30 R608/2 8 24 7 0,3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 R608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 R608/26 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 24 8 0,3 1.400 3.300 34,0 28,0 17,0 18,00 618/9 9 17 4 0,2 19 1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 20 6 0,3 23 1,5 1.080 2.465 40,0 34,0 14,0 14,0 14,0 609 TBH 9 24 7 0,3 27 1,5 1.630 3.650 36,0 30,0 19,0 14,70 609 TBH 9 24 7 0,3 1 1.630 3.650 36,0 30,0 19,0 14,0 13,90 609/d10 10 24 7 0,3 27 1,5 1.630 3.650 36,0 30,0 19,0 14,00 R629 9 26 8 0,3 1.970 4.600 33,5 28,0 16,5 19,80 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 19,80 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 19,80 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 25,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 25,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 25,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 25,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 25,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 31,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 31,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 25,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 25,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 31,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 31,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 31,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 31,30 R629/30 9 30 8 0,3 1.970 4.600 33,5 28,0 16,5 31,30 | | | | | _ | 00 | | | | | | | | |
| 628/8 8 16 5 0,2 18 1,1 590 1,250 43,0 36,0 20,0 4,05 638/8 8 16 6 0,2 18 1,3 590 1,250 43,0 36,0 20,0 4,70 619/8 8 19 6 0,3 22 1,5 1,050 2,460 50,0 43,0 22,0 7,80 619/8 18 19 6 0,3 25 1,5 1,250 3,200 41,0 34,0 23,0 12,10 608 8 22 7 0,3 25 1,5 1,250 3,200 41,0 23,0 12,10 608 8 22 7 0,3 22 1,5 1,250 3,200 41,0 23,0 11,30 R608/26 8 24 7 0,3 1,250 3,200 41,0 34,0 23,0 15,80 R608/26 8 | R627/26 | 7 | 26 | / | 0,3 | 23 | | | 1.250 | 3.200 | 24,0 | 20,0 | 14,0 | 19,10 |
| 638/8 8 16 6 0,2 18 1,3 590 1.250 43,0 36,0 20,0 4,70 619/8 8 19 6 0,3 22 1,5 1.050 2.460 42,0 36,0 22,0 7,80 619/8 TBH 8 19 6 0,3 25 1.5 1.050 2.460 50,0 43,0 22,0 7,40 608 8 22 7 0,3 25 1.5 1.250 3.200 41,0 34,0 23,0 12,10 608 TBH 8 22 7 0,3 20,2 1.250 3.200 49,0 41,0 23,0 11,30 R608/22 8 22 7 0,3 20,2 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 20,2 20 | 618/8 | 8 | 16 | 4 | 0,2 | | 18 | 1 | 590 | 1.250 | 43,0 | 36,0 | | 3,11 |
| 619/8 8 19 6 0,3 22 1,5 1.050 2.460 42,0 36,0 22,0 7,80 619/8 TBH 8 19 6 0,3 1.050 2.460 50,0 43,0 22,0 7,40 608 B 8 22 7 0,3 25 1,5 1.250 3.200 44,0 34,0 23,0 12,10 608 TBH 8 22 7 0,3 20,2 1.250 3.200 44,0 24,0 20,0 14,0 11,30 R608/22 8 22 7 0,3 20,2 1.250 3.200 24,0 20,0 14,0 11,60 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 20,2 20 628 | 628/8 | 8 | 16 | 5 | 0,2 | | 18 | 1,1 | 590 | 1.250 | 43,0 | 36,0 | 20,0 | 4,05 |
| 619/8 TBH 8 19 6 0,3 1.050 2.460 50,0 43,0 22,0 7,40 608 8 22 7 0,3 25 1,5 1.250 3.200 41,0 34,0 23,0 12,10 608 TBH 8 22 7 0,3 1.250 3.200 49,0 41,0 23,0 11,30 R608/22 8 22 7 0,3 20,2 1.250 3.200 24,0 20,0 14,0 11,60 LR608/26 8 24 7 0,3 1.250 3.200 24,0 20,0 14,0 17,50 628 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 24 8 0,3 1 1.250 | 638/8 | 8 | 16 | 6 | 0,2 | | 18 | 1,3 | 590 | 1.250 | 43,0 | 36,0 | 20,0 | 4,70 |
| 608 8 22 7 0,3 25 1,5 1.250 3.200 41,0 34,0 23,0 12,10 608 TBH 8 22 7 0,3 1.250 3.200 49,0 41,0 23,0 11,30 R608/22 8 22 7 0,3 20,2 1.250 3.200 24,0 20,0 14,0 11,60 LR608/24 8 24 7 0,3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,0 18,00 618/9 9 17 4 0,2 19 1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 17 5 <t< td=""><td>619/8</td><td>8</td><td>19</td><td>6</td><td>0,3</td><td></td><td>22</td><td>1,5</td><td>1.050</td><td>2.460</td><td>42,0</td><td>36,0</td><td>22,0</td><td>7,80</td></t<> | 619/8 | 8 | 19 | 6 | 0,3 | | 22 | 1,5 | 1.050 | 2.460 | 42,0 | 36,0 | 22,0 | 7,80 |
| 608 TBH 8 22 7 0,3 1.250 3.200 49,0 41,0 23,0 11,30 R608/22 8 22 7 0,3 20,2 1.250 3.200 24,0 20,0 14,0 11,60 LR608/24 8 24 7 0,3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 1.250 3.200 41,0 34,0 23,0 20,20 R608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 20,20 R608/26 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 24 8 0,3 1 1.400 3.300 34,0 28,0 17,0 18,00 618/9 9 17 4 0,2 19 1,1 | 619/8 TBH | 8 | 19 | 6 | 0,3 | | | | 1.050 | 2.460 | 50,0 | 43,0 | 22,0 | 7,40 |
| R608/22 8 22 7 0,3 20,2 1.250 3.200 24,0 20,0 14,0 11,60 LR608/24 8 24 7 0,3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 23 1.250 3.200 41,0 34,0 23,0 20,20 R608/26 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 24 8 0,3 1 1.400 3.300 34,0 28,0 17,0 18,00 618/9 9 17 4 0,2 19 1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 20 6 0,3 <td>608</td> <td>8</td> <td>22</td> <td>7</td> <td>0,3</td> <td></td> <td>25</td> <td>1,5</td> <td>1.250</td> <td>3.200</td> <td>41,0</td> <td>34,0</td> <td>23,0</td> <td>12,10</td> | 608 | 8 | 22 | 7 | 0,3 | | 25 | 1,5 | 1.250 | 3.200 | 41,0 | 34,0 | 23,0 | 12,10 |
| LR608/24 8 24 7 0,3 1.250 3.200 41,0 34,0 23,0 15,80 LR608/26 8 26 7 0,3 1.250 3.200 41,0 34,0 23,0 20,20 R608/26 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 24 8 0,3 1.400 3.300 34,0 28,0 17,0 18,00 618/9 9 17 4 0,2 19 1 670 1.325 43,0 36,0 20,0 4,38 618/9 9 17 5 0,2 19 1,1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 17 5 0,2 19 1,1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 24 7 0,3 | 608 TBH | 8 | 22 | 7 | 0,3 | | | | 1.250 | 3.200 | 49,0 | 41,0 | 23,0 | 11,30 |
| LR608/26 8 26 7 0,3 1.250 3.200 41,0 34,0 23,0 20,20 R608/26 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 24 8 0,3 1.400 3.300 34,0 28,0 17,0 18,00 618/9 9 17 4 0,2 19 1,1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 17 5 0,2 19 1,1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 20 6 0,3 23 1,5 1.080 2.465 40,0 34,0 19,0 8,54 609 9 24 7 0,3 27 1,5 1.630 3.650 36,0 30,0 19,0 14,70 609/HBH 9 26 | R608/22 | 8 | 22 | 7 | 0,3 | 20,2 | | | 1.250 | 3.200 | 24,0 | 20,0 | 14,0 | 11,60 |
| R608/26 8 26 7 0,3 23 1.250 3.200 24,0 20,0 14,0 17,50 628 8 24 8 0,3 1.400 3.300 34,0 28,0 17,0 18,00 618/9 9 17 4 0,2 19 1,670 1.325 43,0 36,0 20,0 4,38 619/9 9 17 5 0,2 19 1,1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 20 6 0,3 23 1,5 1.080 2.465 40,0 34,0 19,0 8,54 609 9 24 7 0,3 27 1,5 1.630 3.650 36,0 30,0 19,0 14,70 609 TBH 9 24 7 0,3 1.630 3.650 36,0 30,0 19,0 13,90 609/d10 10 24 7 | LR608/24 | 8 | 24 | 7 | 0,3 | | | | 1.250 | 3.200 | 41,0 | 34,0 | 23,0 | 15,80 |
| 628 8 24 8 0,3 1.400 3.300 34,0 28,0 17,0 18,00 618/9 9 17 4 0,2 19 1 670 1.325 43,0 36,0 20,0 4,38 628/9 9 17 5 0,2 19 1,1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 20 6 0,3 23 1,5 1.080 2.465 40,0 34,0 19,0 8,54 609 9 24 7 0,3 27 1,5 1.630 3.650 36,0 30,0 19,0 14,70 609 TBH 9 24 7 0,3 1.630 3.650 43,0 36,0 19,0 14,70 609/d10 10 24 7 0,3 1.630 3.650 36,0 30,0 19,0 14,70 629 TBH 9 26 8 | LR608/26 | 8 | 26 | 7 | 0,3 | | | | 1.250 | 3.200 | 41,0 | 34,0 | 23,0 | 20,20 |
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| 628/9 9 17 5 0,2 19 1,1 670 1.325 43,0 36,0 20,0 4,38 619/9 9 20 6 0,3 23 1,5 1.080 2.465 40,0 34,0 19,0 8,54 609 9 24 7 0,3 27 1,5 1.630 3.650 36,0 30,0 19,0 14,70 609 TBH 9 24 7 0,3 1.630 3.650 43,0 36,0 19,0 13,90 609/d10 10 24 7 0,3 1.630 3.650 36,0 30,0 19,0 14,70 629 9 26 8 0,3 1.970 4.600 33,5 28,0 16,5 19,80 629 TBH 9 26 8 0,3 1.970 4.600 33,5 28,0 16,5 19,80 LR629/28 9 28 8 0,3 1.97 | 628 | 8 | 24 | 8 | 0,3 | | | | 1.400 | 3.300 | 34,0 | 28,0 | 17,0 | 18,00 |
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| INTURBUZA T TO T 26 T 6 T O X T T T T T T T T T T T T T T T T O D O D | 61900/16 | 10 | 26 | 6 | 0,3 | | | | 1.130 | 2.550 | 28,0 | 23,8 | 17,3 | 16,80 |



| Type d | | | | Dimer | nsions | in mm | 1 | | I oad rat | ings in N | l im | iting Sp | eed | Weight |
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| 6000 BH 10 | . , po | d | D | В | r _s min | D_{MR} | D_F | B_F | | | | | | |
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| LREDOUZS 10 | | | | | | | | | | | | | | |
| IREGOO(30 | | | | | | | | | | | | | | |
| Re6000/30 | | | | | | | | | | | | | | |
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| 6200 10 30 9 0.6 2.600 6.100 32.0 26.0 17.0 29.40 | | | | | | | | | | | | | | |
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| LR6200/32 | | | | | | | | | | | | | | |
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| 61801 TBH | | 10 | 33 | - 11 | 0,0 | | | | 3.500 | | 31,0 | | | 55,90 |
| 62801 12 21 6 0,3 23 1,5 900 1,930 38,0 32,0 19,0 7,10 63801 12 24 6 0,3 26,5 1,5 1,450 2,970 36,0 30,0 18,0 10,60 61901 TBH 12 24 6 0,3 26,5 1,5 1,450 2,970 43,0 36,0 18,0 10,20 6001 12 28 8 0,3 23,0 2,370 5,100 30,0 25,0 16,5 21,20 6001 TBH 12 28 8 0,3 23,0 2,370 5,100 30,0 25,0 16,5 21,20 6001 TBH 12 30 8 0,3 2,370 5,100 30,0 25,0 16,5 27,20 6101 TBH 12 30 8 0,3 2,370 5,100 36,0 30,0 16,5 20,40 16101 12 30 8 0,3 2,370 5,100 36,0 30,0 16,5 25,90 6201 12 32 10 0,6 3,100 7,100 27,5 22,5 15,0 36,00 6201 TBH 12 32 10 0,6 3,100 7,100 27,5 22,5 15,0 36,00 6201 TBH 12 32 10 0,6 3,100 7,100 27,5 22,5 15,0 47,00 6301 TBH 12 37 12 1 4,200 9,700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4,200 9,700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4,200 9,700 30,0 25,0 14,0 63,00 6302 TBH 15 28 7 0,3 30,5 1,5 2,260 4,350 30,0 24,0 13,5 17,80 6300 15 28 7 0,3 30,5 1,5 2,260 4,350 30,0 24,0 13,5 17,80 6300 15 28 7 0,3 30,5 1,5 2,260 4,350 30,0 24,0 13,5 17,80 6300 15 32 8 0,3 30,0 16,5 25,00 6300 15 32 8 0,3 30,0 16,5 25,00 6300 15 32 8 0,3 30,0 16,5 25,00 6300 6301 TBH 15 28 7 0,3 30,5 1,5 2,260 4,350 30,0 25,0 14,0 62,00 6300 TBH 15 32 8 7 0,3 30,5 1,5 2,260 4,350 30,0 24,0 13,5 17,80 6300 15 32 8 0,3 30,0 16,5 25,00 16,00 2,00 31,0 2,00 31,0 2,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 31,0 3,00 3,0 | 61801 | 12 | 21 | 5 | 0,3 | | 23 | 1,1 | 900 | 1.930 | 38,0 | 32,0 | 19,0 | 6,00 |
| 63801 12 21 7 0,3 23 1,5 900 1.930 38,0 32,0 19,0 8,50 61901 12 24 6 0,3 26,5 1,5 1.450 2.970 36,0 30,0 18,0 10,60 61901 TBH 12 24 6 0,3 26,5 1,5 1.450 2.970 43,0 36,0 18,0 10,60 6001 12 28 8 0,3 2.370 5.100 30,0 25,0 16,5 21,20 6001 TBH 12 28 8 0,3 2.370 5.100 30,0 25,0 16,5 22,20 16101 TBH 12 30 8 0,3 2.370 5.100 30,0 25,0 16,5 27,20 16101 TBH 12 30 8 0,3 2.370 5.100 36,0 30,0 16,5 26,90 6201 12 32 10 0,6 3.100 7.100 27,5 22,5 15,0 35,00 LR6201/35 12 35 10 0,6 3.100 7.100 27,5 22,5 15,0 35,00 LR6201/35 12 35 10 0,6 3.100 7.100 27,5 22,5 15,0 35,00 LR6201/35 12 37 12 1 4.200 9.700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4.200 9.700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4.200 9.700 30,0 25,0 14,0 59,00 61802 TBH 15 24 5 0,3 26 1,1 1.100 2.080 34,0 28,0 16,0 7,20 61802 TBH 15 28 7 0,3 26 1,5 1.100 2.080 34,0 28,0 16,0 7,20 63802 15 28 7 0,3 30,5 1,5 2.260 4.350 30,0 24,0 13,5 17,80 61902 TBH 15 32 8 0,3 30,5 1,5 2.260 4.350 36,0 29,0 13,5 17,80 61902 TBH 15 32 8 0,3 30,5 1,5 2.260 4.350 36,0 29,0 13,5 17,80 61902 TBH 15 32 8 0,3 30,3 26 1,5 2.260 4.350 36,0 29,0 13,5 17,80 61902 TBH 15 32 8 0,3 26 1,5 1.100 2.080 31,0 27,5 13,5 25,70 6002 TBH 15 32 9 0,3 2.850 5.600 26,0 23,0 13,5 26,90 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 26,90 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 26,90 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 26,90 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 26,90 6002 TBH 15 35 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,80 6202 TBH 15 35 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,60 6202 TBH 15 35 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,60 6202 TBH 15 35 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,0 6200 7.700 24,0 20,0 13,0 14,0 6200 7.700 24,0 20,0 13,0 14,60 6202 TBH 15 35 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,60 6202 TBH 15 34 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,60 6202 TBH 15 34 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,60 6202 TBH 15 34 11 0,6 3.3500 7.700 24,0 20,0 13,0 14,0 6202 TBH 15 34 11 0,6 3.3500 7.700 24,0 20,0 13,0 110,60 710,00 7.700 7.700 7.700 7.700 7.700 7.700 7.700 7.700 | 61801 TBH | 12 | 21 | 5 | | | | | 900 | 1.930 | 45,5 | 38,5 | 19,0 | 5,80 |
| 61901 12 24 6 0.3 26,5 1,5 1.450 2.970 36,0 30,0 18,0 10,60 61901 TBH 12 24 6 0,3 1.450 2.970 43,0 36,0 18,0 10,20 6001 12 28 8 0,3 2.370 5.100 30,0 25,0 16,5 21,20 6001 TBH 12 28 8 0,3 2.370 5.100 36,0 30,0 16,5 22,20 16101 TBH 12 30 8 0,3 2.370 5.100 36,0 30,0 16,5 22,20 16101 TBH 12 32 10 0,6 3.100 7.100 27,5 22,5 15,0 36,00 6201 TBH 12 32 10 0,6 3.100 7.100 27,5 22,5 15,0 36,00 6201 TBH 12 35 10 0,6 3.100 7.100 27,5 | 62801 | 12 | 21 | 6 | 0,3 | | | | 900 | 1.930 | 38,0 | 32,0 | 19,0 | 7,10 |
| 61901 TBH 12 24 6 0,3 1.450 2.970 43,0 36,0 18,0 10,20 6001 12 28 8 0,3 2.370 5.100 30,0 25,0 16,5 21,20 6001 TBH 12 28 8 0,3 2.370 5.100 36,0 30,0 16,5 22,40 16101 TBH 12 30 8 0,3 2.370 5.100 30,0 25,0 16,5 27,20 6201 TBH 12 32 10 0,6 3.100 7.100 27,5 22,5 15,0 36,00 6201 TBH 12 32 10 0,6 3.100 7.100 27,5 22,5 15,0 36,00 6201 TBH 12 35 10 0,6 3.100 7.100 27,5 22,5 15,0 36,00 182 37 12 1 4.200 9.700 25,0 21,0 14,0 62,00 63 | 63801 | 12 | 21 | 7 | 0,3 | | 23 | 1,5 | 900 | 1.930 | 38,0 | 32,0 | 19,0 | 8,50 |
| 6001 12 28 8 0,3 2.370 5.100 30,0 25,0 16,5 21,20 6001 TBH 12 28 8 0,3 2.370 5.100 36,0 30,0 16,5 20,40 16101 12 30 8 0,3 2.370 5.100 30,0 25,0 16,5 27,20 16101 TBH 12 30 8 0,3 2.370 5.100 36,0 30,0 16,5 25,90 6201 TBH 12 32 10 0,6 3.100 7.100 36,0 30,0 16,5 25,90 6201 TBH 12 32 10 0,6 3.100 7.100 33,0 27,0 15,0 36,00 6201 TBH 12 37 12 1 4.200 9.700 27,5 22,5 15,0 47,00 6301 TBH 12 37 12 1 4.200 9.700 30,0 25,0 14,0 | 61901 | 12 | 24 | 6 | 0,3 | | 26,5 | 1,5 | 1.450 | 2.970 | 36,0 | 30,0 | 18,0 | 10,60 |
| BOO1 TBH 12 28 8 0,3 2.370 5.100 36,0 30,0 16,5 20,40 | 61901 TBH | 12 | 24 | 6 | 0,3 | | | | 1.450 | 2.970 | 43,0 | 36,0 | 18,0 | 10,20 |
| 16101 | 6001 | 12 | 28 | 8 | 0,3 | | | | 2.370 | 5.100 | 30,0 | 25,0 | 16,5 | 21,20 |
| 16101 TBH 12 30 8 0,3 | 6001 TBH | 12 | 28 | 8 | 0,3 | | | | 2.370 | 5.100 | 36,0 | 30,0 | 16,5 | 20,40 |
| 6201 12 32 10 0,6 3.100 7.100 27,5 22,5 15,0 36,00 6201 TBH 12 32 10 0,6 3.100 7.100 33,0 27,0 15,0 35,00 LR6201/35 12 35 10 0,6 3.100 7.100 27,5 22,5 15,0 47,00 6301 12 37 12 1 4.200 9.700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4.200 9.700 30,0 25,0 14,0 59,00 61802 15 24 5 0,3 26 1,1 1.100 2.080 34,0 28,0 16,0 7,20 61802 TBH 15 24 5 0,3 26 1,1 1.100 2.080 34,0 28,0 16,0 6,90 62802 15 24 6 0,3 1.5 1.100 </td <td>16101</td> <td>12</td> <td>30</td> <td>8</td> <td>0,3</td> <td></td> <td></td> <td></td> <td>2.370</td> <td>5.100</td> <td>30,0</td> <td>25,0</td> <td>16,5</td> <td>27,20</td> | 16101 | 12 | 30 | 8 | 0,3 | | | | 2.370 | 5.100 | 30,0 | 25,0 | 16,5 | 27,20 |
| 6201 TBH 12 32 10 0,6 3.100 7.100 33,0 27,0 15,0 35,00 LR6201/35 12 35 10 0,6 3.100 7.100 27,5 22,5 15,0 47,00 6301 12 37 12 1 4.200 9.700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4.200 9.700 30,0 25,0 14,0 59,00 61802 TBH 15 24 5 0,3 26 1,1 1.100 2.080 34,0 28,0 16,0 7,20 61802 TBH 15 24 5 0,3 1.100 2.080 34,0 28,0 16,0 6,90 62802 TBH 15 24 7 0,3 26 1,5 1.100 2.080 34,0 28,0 16,0 7,20 61902 TBH 15 28 7 0,3 30,5 | 16101 TBH | 12 | 30 | 8 | 0,3 | | | | 2.370 | 5.100 | 36,0 | 30,0 | 16,5 | 25,90 |
| LR6201/35 12 35 10 0,6 3.100 7.100 27,5 22,5 15,0 47,00 6301 12 37 12 1 4.200 9.700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4.200 9.700 30,0 25,0 14,0 59,00 61802 TBH 15 24 5 0,3 26 1,1 1.100 2.080 34,0 28,0 16,0 7,20 61802 TBH 15 24 5 0,3 1.100 2.080 34,0 28,0 16,0 7,20 61802 TBH 15 24 6 0,3 1.100 2.080 34,0 28,0 16,0 6,90 62802 TBH 15 24 7 0,3 26 1,5 1.100 2.080 34,0 28,0 16,0 8,30 63802 TBH 15 28 7 0,3 30,5 | 6201 | 12 | 32 | 10 | | | | | 3.100 | | 27,5 | 22,5 | 15,0 | |
| 6301 12 37 12 1 4.200 9.700 25,0 21,0 14,0 62,00 6301 TBH 12 37 12 1 4.200 9.700 30,0 25,0 14,0 59,00 61802 TBH 15 24 5 0,3 26 1,1 1.100 2.080 34,0 28,0 16,0 7,20 61802 TBH 15 24 5 0,3 1.100 2.080 34,0 28,0 16,0 6,90 62802 15 24 6 0,3 1.100 2.080 34,0 28,0 16,0 6,90 63802 15 24 7 0,3 26 1,5 1.100 2.080 34,0 28,0 16,0 8,30 63802 15 24 7 0,3 26 1,5 1.100 2.080 33,0 28,0 16,0 10,00 61902 15 28 7 0,3 | 6201 TBH | 12 | 32 | 10 | 0,6 | | | | 3.100 | 7.100 | 33,0 | | 15,0 | 35,00 |
| 6301 TBH 12 37 12 1 4.200 9.700 30,0 25,0 14,0 59,00 61802 15 24 5 0,3 26 1,1 1.100 2.080 34,0 28,0 16,0 7,20 61802 TBH 15 24 5 0,3 1.100 2.080 41,0 33,5 16,0 6,90 62802 15 24 6 0,3 1.100 2.080 34,0 28,0 16,0 8,30 63802 15 24 7 0,3 26 1,5 1.100 2.080 33,0 28,0 16,0 10,00 61902 15 28 7 0,3 30,5 1,5 2.260 4.350 30,0 24,0 13,5 17,80 61902 TBH 15 28 7 0,3 2.260 4.350 36,0 29,0 13,5 17,30 16002 TBH 15 32 8 0,3 <td>LR6201/35</td> <td></td> <td>35</td> <td>10</td> <td>0,6</td> <td></td> <td></td> <td></td> <td>3.100</td> <td></td> <td></td> <td></td> <td></td> <td></td> | LR6201/35 | | 35 | 10 | 0,6 | | | | 3.100 | | | | | |
| 61802 | 6301 | 12 | 37 | 12 | 1 | | | | 4.200 | 9.700 | 25,0 | | | |
| 61802 TBH 15 24 5 0,3 1.100 2.080 41,0 33,5 16,0 6,90 62802 15 24 6 0,3 1.100 2.080 34,0 28,0 16,0 8,30 63802 15 24 7 0,3 26 1,5 1.100 2.080 33,0 28,0 16,0 10,00 61902 15 28 7 0,3 30,5 1,5 2.260 4.350 30,0 24,0 13,5 17,80 61902 TBH 15 28 7 0,3 2.260 4.350 36,0 29,0 13,5 17,30 16002 15 32 8 0,3 2.850 5.600 26,0 23,0 13,5 26,90 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 | 6301 TBH | 12 | 37 | 12 | 1 | | | | 4.200 | 9.700 | 30,0 | 25,0 | 14,0 | 59,00 |
| 61802 TBH 15 24 5 0,3 1.100 2.080 41,0 33,5 16,0 6,90 62802 15 24 6 0,3 1.100 2.080 34,0 28,0 16,0 8,30 63802 15 24 7 0,3 26 1,5 1.100 2.080 33,0 28,0 16,0 10,00 61902 15 28 7 0,3 30,5 1,5 2.260 4.350 30,0 24,0 13,5 17,80 61902 TBH 15 28 7 0,3 2.260 4.350 36,0 29,0 13,5 17,30 16002 15 32 8 0,3 2.850 5.600 26,0 23,0 13,5 26,90 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 | 61802 | 15 | 24 | 5 | 0,3 | | 26 | 1,1 | 1.100 | 2.080 | 34,0 | 28,0 | 16,0 | 7,20 |
| 62802 15 24 6 0,3 1.100 2.080 34,0 28,0 16,0 8,30 63802 15 24 7 0,3 26 1,5 1.100 2.080 33,0 28,0 16,0 10,00 61902 15 28 7 0,3 30,5 1,5 2.260 4.350 30,0 24,0 13,5 17,80 61902 TBH 15 28 7 0,3 2.260 4.350 36,0 29,0 13,5 17,80 16002 TBH 15 32 8 0,3 2.850 5.600 26,0 23,0 13,5 26,90 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5 | | 15 | 24 | 5 | | | | | | | | · | | |
| 63802 15 24 7 0,3 26 1,5 1.100 2.080 33,0 28,0 16,0 10,00 61902 15 28 7 0,3 30,5 1,5 2.260 4.350 30,0 24,0 13,5 17,80 61902 TBH 15 28 7 0,3 2.260 4.350 36,0 29,0 13,5 17,30 16002 15 32 8 0,3 2.850 5.600 26,0 23,0 13,5 26,90 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 28,40 6202 15 35 11 0,6 3.500 7.70 | 62802 | 15 | 24 | 6 | | | | | | | | | | |
| 61902 15 28 7 0,3 30,5 1,5 2.260 4.350 30,0 24,0 13,5 17,80 61902 TBH 15 28 7 0,3 2.260 4.350 36,0 29,0 13,5 17,30 16002 15 32 8 0,3 2.850 5.600 26,0 23,0 13,5 26,90 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 29,20 6002 TBH 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 44,80 6202 TBH 15 35 11 0,6 3.500 7.700 24,0 | | | | | | | 26 | 1.5 | | | | | | |
| 61902 TBH 15 28 7 0,3 2.260 4.350 36,0 29,0 13,5 17,30 16002 15 32 8 0,3 2.850 5.600 26,0 23,0 13,5 26,90 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 26,0 23,0 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 28,40 6202 TBH 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 44,80 LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 | | | | | | | | | | | | | | |
| 16002 15 32 8 0,3 2.850 5.600 26,0 23,0 13,5 26,90 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 26,0 23,0 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 29,20 6202 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 44,80 6202 TBH 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 43,80 LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 LR6202/47 15 47 11 0,6 41 3.500 7.700 24,0 20,0 | | | | 7 | | | , | | | | | | | |
| 16002 TBH 15 32 8 0,3 2.850 5.600 31,0 27,5 13,5 25,70 6002 15 32 9 0,3 2.850 5.600 26,0 23,0 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 28,40 6202 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 44,80 6202 TBH 15 35 11 0,6 3.500 7.700 29,0 24,0 13,0 43,80 LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 LR6202/47 15 47 11 0,6 3.500 7.700 24,0 20,0 13,0 110,60 R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 12,0 <td>16002</td> <td>15</td> <td>32</td> <td>8</td> <td></td> | 16002 | 15 | 32 | 8 | | | | | | | | | | |
| 6002 15 32 9 0,3 2.850 5.600 26,0 23,0 13,5 29,20 6002 TBH 15 32 9 0,3 2.850 5.600 31,0 27,5 13,5 28,40 6202 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 44,80 6202 TBH 15 35 11 0,6 3.500 7.700 29,0 24,0 13,0 43,80 LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 LR6202/47 15 47 11 0,6 3.500 7.700 24,0 20,0 13,0 110,60 R6202/47 15 47 11 0,6 41 3.500 7.700 24,0 20,0 13,0 110,60 R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 | 16002 TBH | 15 | 32 | 8 | | | | | | | | | | |
| 6202 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 44,80 6202 TBH 15 35 11 0,6 3.500 7.700 29,0 24,0 13,0 43,80 LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 LR6202/47 15 47 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 12,0 8,0 100,30 6302 15 42 13 1 5.400 11.400 23,0 18,0 10,3 84,00 | 6002 | 15 | 32 | 9 | | | | | | | | | | |
| 6202 15 35 11 0,6 3.500 7.700 24,0 20,0 13,0 44,80 6202 TBH 15 35 11 0,6 3.500 7.700 29,0 24,0 13,0 43,80 LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 LR6202/47 15 47 11 0,6 3.500 7.700 24,0 20,0 13,0 110,60 R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 12,0 8,0 100,30 6302 15 42 13 1 5.400 11.400 23,0 18,0 10,3 84,00 | 6002 TBH | 15 | 32 | 9 | | | | | | | | | | |
| 6202 TBH 15 35 11 0,6 3.500 7.700 29,0 24,0 13,0 43,80 LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 LR6202/47 15 47 11 0,6 3.500 7.700 24,0 20,0 13,0 110,60 R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 12,0 8,0 100,30 6302 15 42 13 1 5.400 11.400 23,0 18,0 10,3 84,00 | 6202 | 15 | 35 | 11 | 0,6 | | | | | | | | | 44,80 |
| LR6202/40 15 40 11 0,6 3.500 7.700 24,0 20,0 13,0 70,00 LR6202/47 15 47 11 0,6 3.500 7.700 24,0 20,0 13,0 110,60 R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 12,0 8,0 100,30 6302 15 42 13 1 5.400 11.400 23,0 18,0 10,3 84,00 | | | | | | | | | | | | | | |
| LR6202/47 15 47 11 0,6 3.500 7.700 24,0 20,0 13,0 110,60 R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 12,0 8,0 100,30 6302 15 42 13 1 5.400 11.400 23,0 18,0 10,3 84,00 | | | | | | | | | | | | | | |
| R6202/47 15 47 11 0,6 41 3.500 7.700 14,5 12,0 8,0 100,30 6302 15 42 13 1 5.400 11.400 23,0 18,0 10,3 84,00 | | | | | | | | | | | | · | | |
| 6302 15 42 13 1 5.400 11.400 23,0 18,0 10,3 84,00 | | | | | | 41 | | | | | | | | |
| | | | 42 | 13 | | | | | | | | | | |
| | | | 42 | 13 | 1 | | | | | | | | | |



| | | | Dimer | nsions | in mm | | | Load rat | ings in N | Lim | iting Sp | eed | Weight |
|-----------|----|----|-------|--------------------|----------|-------|----------------|----------|-----------|------|----------|-----------------|--------|
| Type | _1 |) | 1 | , no in | 7 | 7 | Ъ | Static | Dynamic | Oil | Grease | 2RS | ca. |
| | d | D | В | r _s min | D_{MR} | D_F | B _F | C_{0r} | C_{r} | Х ′ | 1000 mi | n ⁻¹ | Gram |
| 61803 | 17 | 26 | 5 | 0,3 | | 28 | 1,1 | 1.270 | 2.240 | 30,0 | 24,0 | 15,0 | 7,30 |
| 62803 | 17 | 26 | 6 | 0,3 | | | | 1.270 | 2.240 | 30,0 | 24,0 | 15,0 | 9,20 |
| 63803 | 17 | 26 | 7 | 0,3 | | 28 | 1,5 | 1.270 | 2.240 | 30,0 | 24,0 | 15,0 | 11,00 |
| 61903 | 17 | 30 | 7 | 0,3 | | 32,5 | 1,5 | 2.550 | 4.600 | 28,0 | 22,0 | 14,0 | 16,50 |
| 61903 TBH | 17 | 30 | 7 | 0,3 | | | | 2.550 | 4.600 | 33,5 | 26,5 | 14,0 | 16,10 |
| 16003 | 17 | 35 | 8 | 0,3 | | | | 3.250 | 6.000 | 23,0 | 19,0 | 13,0 | 32,50 |
| 16003 TBH | 17 | 35 | 8 | 0,3 | | | | 3.250 | 6.000 | 27,5 | 23,0 | 13,0 | 30,40 |
| 6003 | 17 | 35 | 10 | 0,3 | | | | 3.250 | 6.000 | 23,0 | 19,0 | 13,0 | 38,80 |
| 6003 TBH | 17 | 35 | 10 | 0,3 | | | | 3.250 | 6.000 | 27,5 | 23,0 | 13,0 | 37,70 |
| 6203 | 17 | 40 | 12 | 0,6 | | | | 4.750 | 9.800 | 21,0 | 17,5 | 12,0 | 65,00 |
| 6203 TBH | 17 | 40 | 12 | 0,6 | | | | 4.750 | 9.800 | 25,0 | 21,0 | 12,0 | 63,00 |
| 61804 | 20 | 32 | 7 | 0,3 | | 35 | 1,5 | 2.300 | 3.900 | 24,0 | 19,0 | 11,5 | 18,00 |
| 61904 | 20 | 37 | 9 | 0,3 | | 40 | 2 | 3.700 | 6.300 | 22,0 | 18,0 | 11,5 | 40,00 |
| 6004 | 20 | 42 | 12 | 0,6 | | | | 5.000 | 9.300 | 20,0 | 17,0 | 11,0 | 66,50 |
| 6004 TBH | 20 | 42 | 12 | 0,6 | | | | 5.000 | 9.300 | 24,0 | 20,5 | 11,0 | 65,80 |
| 6204 | 20 | 47 | 14 | 1 | | | | 6.550 | 12.700 | 18,0 | 15,0 | 9,3 | 103,50 |
| 6204 TBH | 20 | 47 | 14 | 1 | | | | 6.550 | 12.700 | 21,5 | 18,0 | 9,3 | 102,00 |
| 6304 | 20 | 52 | 15 | 1,1 | | | | 7.900 | 15.900 | 17,0 | 14,0 | 8,8 | 144,00 |
| 61805 | 25 | 37 | 7 | 0,3 | | 40 | 1,5 | 2.600 | 4.150 | 20,0 | 17,0 | 9,8 | 24,00 |
| 61905 | 25 | 42 | 9 | 0,3 | | 45 | 2 | 4.350 | 6.900 | 19,0 | 16,0 | 9,8 | 47,00 |
| 6005 | 25 | 47 | 12 | 0,6 | | | | 5.850 | 10.000 | 18,0 | 15,0 | 9,7 | 78,00 |
| 6005 TBH | 25 | 47 | 12 | 0,6 | | | | 5.850 | 10.000 | 21,5 | 18,0 | 9,7 | 76,50 |
| 6205 | 25 | 52 | 15 | 1 | | | | 7.800 | 14.000 | 17,0 | 14,0 | 8,0 | 125,00 |
| 6205 TBH | 25 | 52 | 15 | 1 | | | | 7.800 | 14.000 | 20,5 | 17,0 | 8,0 | 125,00 |
| 6305 | 25 | 62 | 17 | 1,1 | | | | 10.900 | 21.200 | 14,0 | 12,0 | 7,5 | 230,00 |
| 61806 | 30 | 42 | 7 | 0,3 | | 45 | 1,5 | 2.900 | 4.300 | 18,0 | 15,0 | 8,4 | 27,00 |
| 61906 | 30 | 47 | 9 | 0,3 | | 50 | 2 | 4.600 | 7.000 | 17,0 | 14,0 | 8,1 | 53,00 |
| 6006 | 30 | 55 | 13 | 1 | | | | 8.300 | 13.200 | 16,0 | 13,0 | 8,0 | 120,00 |
| 6206 | 30 | 62 | 16 | 1 | | | | 11.300 | 19.500 | 14,0 | 11,0 | 6,7 | 200,00 |
| 6206 TBH | 30 | 62 | 16 | 1 | | | | 11.300 | 19.500 | 17,0 | 13,0 | 6,7 | 200,00 |
| 6306 | 30 | 72 | 19 | 1,1 | | | | 15.000 | 26.700 | 12,0 | 10,0 | 6,3 | 360,00 |

| | | | Dime | nsions ir | n mm | | | Load ra | tings in N | Lim | iting Sp | eed | Weight |
|--------|-----|--------|-------|-----------|-------|-------|--------------------|----------|------------|------|----------|-----------------|--------|
| Type | | ٦ | | <u> </u> | | П | r min | Static | Dynamic | Oil | Grease | 2RS | ca. |
| | | d | | D | | В | r _s min | C_{0r} | C_{r} | x ′ | 1000 mi | n ⁻¹ | Gram |
| R4 | 1/4 | 6,350 | 5/8 | 15,875 | 3/16 | 4,978 | 0,3 | 620 | 1.480 | 45,0 | 38,0 | | 4,50 |
| R4A | 1/4 | 6,350 | 3/4 | 19,050 | 7/32 | 5,558 | 0,3 | 900 | 2.340 | 43,0 | 36,0 | | 7,50 |
| R4A-2Z | 1/4 | 6,350 | 3/4 | 19,050 | 9/32 | 7,142 | 0,3 | 900 | 2.340 | 43,0 | 36,0 | 20,0 | 10,00 |
| R6 | 3/8 | 9,525 | 7/8 | 22,225 | 7/32 | 5,556 | 0,3 | 1.420 | 3.330 | 38,0 | 32,0 | | 9,00 |
| R6-2Z | 3/8 | 9,525 | 7/8 | 22,225 | 9/32 | 7,142 | 0,3 | 1.420 | 3.330 | 38,0 | 32,0 | 17,5 | 12,00 |
| R8 | 1/2 | 12,700 | 1 1/8 | 28,575 | 1/4 | 6,350 | 0,3 | 2.410 | 5.100 | 32,0 | 27,0 | | 11,50 |
| R8-2Z | 1/2 | 12,700 | 1 1/8 | 28,575 | 5/16 | 7,938 | 0,3 | 2.410 | 5.100 | 32,0 | 27,0 | 15,0 | 24,00 |
| R10 | 5/8 | 15,875 | 1 3/8 | 34,925 | 9/32 | 7,142 | 0,3 | 3.280 | 6.000 | 25,0 | 21,0 | | 23,50 |
| R10-2Z | 5/8 | 15,875 | 1 3/8 | 34,925 | 11/32 | 8,733 | 0,3 | 3.280 | 6.000 | 25,0 | 21,0 | 11,5 | 38,00 |



Versions of cages and seals

| Version | Abbreviation | Description | Properties |
|-------------|--------------|--|--|
| Gaskets | Z | Non-contact sheet steel shield | Protection against rough pollution and loss of grease |
| | RZ | Steel armoured NBR-seal, non-contact, gap seal | Additional protection against loss of grease with outer ring rotation |
| | RS | Steel armoured NBR-seal, land riding | Protection against pollution, please attend speed limitation |
| | VS | Steel armoured FPM-seal, land riding | Like RS, but higher temperature stability |
| | RU | Steel armoured NBR-seal, non-contact, simple labyrinth | Like RZ, but improved sealing effect |
| | BRS | Steel armoured NBR-seal, non-contact, optimized labyrinth | Balanced sealing effect without speed limitation |
| | URS | Steel armoured NBR-seal, land riding, 2 sealing lips | Best sealing effect, please attend speed limitation |
| Cages | J | Sheet steel, two-part clamped or riveted | Standard cage, high volume of grease, high temperature stability |
| | Y | Sheet brass, two-part clamped | Non-magnetizable, grease compatibility must be tested |
| | Т9Н | Crown cage, made from PA66GF | For highest speed, please pay attention to temperatures and bearing position |
| | TXH | Crown cage, made from PEEKGF | For highest speed and high temperature, please pay attention to bearing position |
| | ТВН | Crown cage, fibre reinforced, machined | For highest speed, emergency running properties, please pay attention to temperatures and bearing position |
| Radial play | C1 | Radial clearance according to Zwicker - factory standards, smaller than C2 | |
| | C2 | Radial clearance according to DIN620T4, smaller than CN | See page 13 |
| | CN | Standard radial clearance according to DIN620T4 | See page 13 |
| | C3 | Radial clearance according to DIN620T4, larger than CN | See page 13 |
| | C4 | Radial clearance according to DIN620T4, larger than C3 | See page 13 |
| | C5 | Radial clearance according to Zwicker - factory standards, larger than C4 | See page 13 |
| Accuracy | PN | Standard accuracy according to DIN620T2 | |
| | P6 | Accuracy according to DIN620T2, better than PN | |
| | P5 | Accuracy according to DIN620T2, better than P6 | |
| | P4 | Accuracy according to DIN620T2, better than P5 | |
| | P2 | Accuracy according to DIN620T2, better than P4 | |
| Adjustment | G1, G2, G3 | Matched bearings, see page 16 | |

Internal bearing clearance, factors of rotational speed, fittings



Radial clearing

Most of the applications can be covered with the standard internal bearing clearance. There are though a number of special cases in which a lower or higher internal bearing clearance is needed. Our office for technical application will be glad to help you determining the optimal clearance range. Following up an extract from the DIN620T4:

| | rnal er [mm] | | | | Rad | lial clea | arance (| μm] | | | | |
|------|-----------------|-----|-----|-----|-----|-----------|----------|-----|-----|-----|-----|--|
| | | C | | | | | | | | | | |
| over | up to | min | max | min | max | min | max | min | max | min | max | |
| 1,5 | 6 | 0 | 7 | 2 | 13 | 8 | 23 | - | - | - | - | |
| 6 | 10 | 0 | 7 | 2 | 13 | 8 | 23 | 14 | 29 | 20 | 37 | |
| 10 | 18 | 0 | 9 | 3 | 18 | 11 | 25 | 18 | 33 | 25 | 45 | |
| 18 | 24 | 0 | 10 | 5 | 20 | 13 | 28 | 20 | 36 | 28 | 48 | |
| 24 | 30 | 1 | 11 | 5 | 20 | 13 | 28 | 23 | 41 | 30 | 53 | |

^{*:} internal bearing clearance C5 according to production norm

Fittings

Ball bearing cages need to be well supported by shaft and shell. The general rule in this case is that the ring carrying the rotating load gets the firmer hub. Following up the standard values for fittings of shafts and shells:

| Choice of the shaft tolerance for solid shafts of steel | | | | | | | |
|--|----------------------|---|-----------------------------|--|--|--|--|
| Rotational condition Example Installation of the inner ring ISO - field of tolerance | | | | | | | |
| Static load on inner ring | Fans, wheel bearings | Inner ring axially movable Inner ring press fit | g5, (g6)* j5, js5, (j6)* | | | | |
| Rotating load on Cutters, inner ring loops Inner ring press fit j5, js5, (j6)* | | | | | | | |

| Choice of the shell tolerance for shells of steel or cast iron | | | | | | | |
|---|-------------------|---|--------------------------|--|--|--|--|
| Rotational condition | Example | Installation of the outer ring | ISO - field of tolerance | | | | |
| Static load on outer ring | Cutters, loops | Outer ring axially movalbe Outer ring press fit | H6, (H7)* J6 | | | | |
| Rotating load on outer ring bearings Outer ring press fit K6, (M6, N6)* | | | | | | | |

Limiting speeds

The limiting speeds mentioned in the chart below apply to the mentioned bearing design in basic precision and radial clearance class with balanced thermal budget and axial positioning. For the determination of the limiting speeds for special designs the following applies:

 $n_{max} = n_0 x f_{n1} x f_{n2} x f_{n3} x f_{n4} x f_{n5} x f_{n6} x f_{n7}$

| | Factors of adjustment | | | | | | |
|-----------------|--|----------------|------|--------------------------------|--|--|--|
| Ball material | | | 1,0 | | | | |
| f _{n1} | Chrome steel | Ceramics | 1,25 | Si ₃ N ₄ | | | |
| Cages | J/Y | | 1,0 | n x dm < 625.000 mm/min | | | |
| f _{n2} | TBH | | 1,2 | n x dm <1.000.000 mm/min | | | |
| ¹n2 | Т9Н | | 1,6 | n x dm <1.400.000 mm/min | | | |
| Kinematics | Inner ring rotates | | 1,0 | | | | |
| f_{n3} | Outer ring rotates | | 0,6 | | | | |
| Accuracy | PN, P6 | | 1,0 | | | | |
| f _{n4} | P5 | | 1,2 | | | | |
| ¹n4 | P4 | | 1,4 | | | | |
| | Single bearing, not preloaded | | 0,5 | | | | |
| Positioning of | Single bearing, preloaded with spring | | 1,0 | | | | |
| bearings | Matched bearings acc. to G1, G2 | | 0,8 | | | | |
| f _{n5} | Matched bearings acc. to G1, G2, with a | xial clearance | 0,7 | | | | |
| ¹n5 | Matched bearings acc. to G3, preloaded | with spring | 1,0 | | | | |
| | Matched bearings acc. to G3, fixedly pre | loaded | 0,8 | | | | |
| Cover | open-type bearings, BRS, RU, Z | | 1,0 | | | | |
| f_{n6} | RS, URS | | 0,8 | | | | |

^{*:} values for complicated production conditions



Lubrication

The purpose of lubrication is to separate the surfaces of the bearing components as good as possible and thereby provide low friction and inhibit waste.

Shielded and/or sealed Zwicker ball bearings are basically delivered with a For-Life-grease lubrication, opentype bearings are provided either with a corrosion protective on the basis of mineral oil or with a specified lubricant upon request.

Oil lubrication

Oil lubrication is mainly used if

- the aggregate already has an oil lubrication and the bearing is to be supplied as well
- heat is to be dissipated
- highest cleanliness in the lubricating gap is necessary
- high demands on a low torque do not permit a grease- or solid lubrication

Our application engineering provides support for a proper oil selection. The required amount of lubrication may be determined either by tests or on recommendation of the lubricant supplier.

Following up an excerpt from the program of lubricating oils with which Zwicker ball bearings can be delivered.

| Ball bearing oils | | | | | | | | | |
|-----------------------|----------|-------------------------|------------|------------|-----------------------------|---|--|--|--|
| Labeling | Producer | Oil basis | Pour point | Flashpoint | Kinematic viscosity at 40°C | Properties | Application Area | | |
| Aeroshell Fluid 12 | Shell | Synthetic | < - 60° | ~ 220° | 15 mm²/s | Low vaporazition rate, MIL-L-6085 C | Instruments, turbines, spindles, gyroscopes | | |
| Ensis Öl N | Shell | Mineral oil | - 12° | ~ 200° | 68 mm ⁻ /e | Adherent, well compatible with lubricants and plastics | Standard corrosion protection for Zwicker ball bearings | | |
| Isoflex PDP38 | Klüber | Ester oil, synthetic | - 70° | ~ 200° | 12 mm ⁻ /e | Able to work under high pressure, protects from corrosion | Spindles, high- precision insturments, ball bearings | | |
| Tonna T 68 | Shell | Mineral oil | - 15° | ~ 225° | 68 mm ⁻ /s | Inhibits slipstik-effects, well adherent, aging stable | Guide bars, guides, ball bearings | | |



Grease Iubrication

The bigger part of the deep groove ball bearings used worldwide is life-long lubricated with grease. This means that the period of use of the bearing is reached at latest with the end of the grease's period of use. The life-long grease lubrication is used if

- A maintenance-free handling of the bearing application is important
- Equipment for later re-lubrication is not available due to space or application reasons
- No heat dissipation via the lubricant is necessary
- The product of the target speed and the bearing's pitch circle diameter (d_mxn) is smaller than the speed factor of the available greases

To achieve a running friction that is as low as possible and a long period of use at high speeds, it is necessary to perform a grease distributing run. This helps to lower the primarily occurring heightened friction by churning and can positively influence the period of use as well as the rotation speed capability.

Following up some of the mostly used lubrication greases for Zwicker ball bearings:

| Ball bearing greases | | | | | | | | |
|------------------------------|----------|-----------------------------|--------------------|----------------------|----------------|--|--|--|
| Labeling | Producer | Oil basis | Thickener | Temperature range | NLGI- class | Rotation speed factor d _m x n | Properties | Application area |
| Asonic GLY32 | Klüber | Synth. KW- oil/ester oil | Lithium | - 50°C to + 140°C | 2 | 1.000.000 | For extremely low noise bearings | Office machines, textile machines |
| Asonic GHY72 | Klüber | Ester oil | Polyurea | - 40°C to + 180°C | 2/3 | 600.000 | For extremely low noise bearings and high temperatures | Household machines, fan motors |
| Barrierta L55/2 | Klüber | Fluorinated polyether oil | PTFE | - 40°C to + 260°C | 2 | 300.000 | High temperature grease, water- and solvent-resistent | Electric motors ISO- class F, pulleys |
| Isoflex LDS18 Spezial A | Klüber | Mineral oil/ester oil | Lithium | - 50°C to + 120°C | 2 | 1.000.000 | High speed grease, fine pressure capability | Precision mechanics, optics, low temperatures, standard Zwicker grease |
| Isoflex Topas NB52 | Klüber | Polyalpha- olefin | Barium- complex | - 50°C to + 150°C | 2 | 1.000.000 | Distinct effect of wear protection, fine corrosion protection, water-resistant | Very high rotation speeds, high and low temperatures |
| Klüberquiet BQH 72-102 | Klüber | Ester oil | Polyurea | - 40°C to + 180°C | 2/3 | 700.000 | For low noise bearings and high temperatures | Electric motors, generators, belt tensioners |
| Klüberspeed BF 72-22 | Klüber | Synthetic | Polyurea | - 50°C to + 120°C | 2/3 | 2.000.000 | High speed grease, very water-resistent | High speed spindles, electric motors |
| Staburags NBU 8EP | Klüber | Mineral oil | Barium- komplex | - 20°C to + 140°C | 2 | 500.000 | Resists heavy splash water and vapor influence, high rotation speed | High radial load, also shock load |
| Krytox GPL 227 | Du Pont | Fluorinated polyether oil | PTFE | - 20°C to + 288°C | 2 | ~200.000 | High temperatures, corrosion protection | Furnace bearings, guides, laminate presses |
| Longtime PD2 | BP | Mineral oil | Lithium | - 35°C to + 140°C | 2 | 1.000.000 | Inhibits Slipstik-effect, EP-additives | Speed sensors |
| Thermoplex 2 TML | Lubcon | Synthetic | Lithium | - 35°C to + 170°C | 2 | 1.300.000 | High speed and high temperature grease | Textile industry, small and miniature bearings |
| Turmotemp Super 2EP | Lubcon | Synthetic | MeK | - 30°C to + 280°C | 2 | 300.000 | No bearing degreasing needed, very high metal affinity | Pulleys in ovens, electric motors ISO- class F |
| Turmsilongrease mittel TF | Lubcon | Silicone | Polyurea | - 40°C to + 230°C | 2 | 200.000 | For moderate load, wide temperature range | Houshold machines, conveyors, plastic parts |



Matched bearings

For a multitude of applications the loading capacity of a single bearing is not sufficient. Therefore two or more bearings need to be combined as multiple arrangements. To obtain a balanced load distribution on the bearings, the bearings need to be matched.

The matching method depends on the assembling possibilities and applied loads. The nomenclature of the matching versions results from the positive direction of the clearance interactions. The matching versions are

Face- to- face arrangement (G1)

The face- to- face arrangement is chosen if

- Axial loads in both directions need to be supported
- A preloading of the bearings against each other is only possible for the outer rings
- Relatively high angular misalignment is expected
- Tilting moment rigidity is a secondary criterion

Back- to- back arrangement (G2)

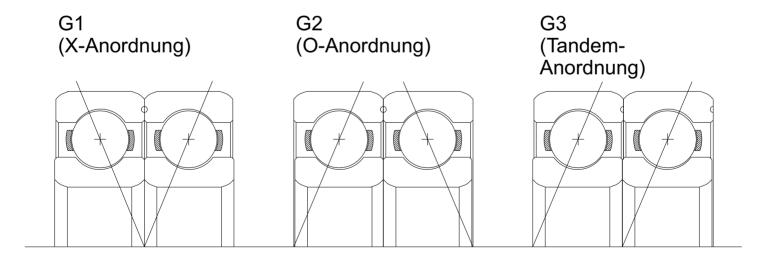
The back- to back- arrangement is chosen if

- Axial loads in both directions need to be supported
- A preloading of the bearings against each other is only possible for the inner rings
- The accuracy of the corresponding parts is high
- A tilting moment rigidity as high as possible is demanded

Tandem- arrangement (G3)

The tandem- arrangement is chosen if

- High axial loads in one direction need to be supported
- Preloading of the bearings with an aligned bearing or by springs is possible
- High speeds are expected



Matched bearings are usually matched with a defined preload, a specified axial clearance (GUA) or universal matching (GU) is possible for G1- and G2- bearing sets on request.



Matched bearings

Preloadings

Bearing arrangements are matched with a defined preload by default.

| Type period | Axial measuring load | | | | | | |
|-------------|----------------------|-------------|-------------|------------|--|--|--|
| Type series | 10N | 20N | 30N | 40N | | | |
| 618 | up to 17 mm | 20 to 35 mm | from 40 mm | 1 | | | |
| 619 | up to 10mm | 12 to 25 mm | 30 to 50 mm | from 55 mm | | | |
| 60 | up to 7 mm | 8 to 15 mm | 17 to 30 mm | from 35 mm | | | |
| 62 | up to 7 mm | 8 to 15 mm | 17 to 30 mm | from 35 mm | | | |

The preload values depend not only on the size of the bearing but also on the boundary conditions of the application. Therefore special preload values can be specified on request.

Design specifics

For the design of a bearing pair for an application some specifics need to be considered. As the running properties of both bearings influence each other, matched bearings should at least be produced in precision class ISO 5 (P5 or ABEC5).

The width tolerance of matched single bearings and/or bearing pairs is higher than the standard width tolerance. The DIN620 provides the following values:

| Bore diameter | Width tolerance [µm] | | | | | |
|------------------|-------------------------|------------------------|---------------|--|--|--|
| d [mm] | Single bearing | Matched single bearing | Bearing pairs | | | |
| up to 10 mm | 0 -40 | 0 -250 | 0 -500 | | | |
| over 10 to 18 mm | 0 -80 | 0 -250 | 0 -500 | | | |
| over 18 to 50 mm | 0 -120 | 0 -250 | 0 -500 | | | |

Therefore it is important to consider when changing a bearing, that the clamping elements can always exert enough axial pressure on the rings to be clamped. It is recommended to hint to this in maintenance plans and instructions and to arrange a length adaptation by precision washers.

The limiting speeds for bearing pairs that are matched according to G1 and G2 are lower than those of single spring preloaded bearings.

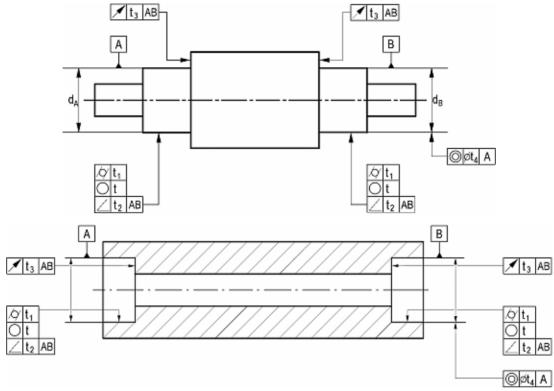
$$n_{g G1,G2} = 0.8 n_{gi}$$

Shielded or sealed bearing pairs are equipped with shields or seals on the outside of the bearing pair only while the inner faces remain open. In case that double shielded/sealed bearings are required - due to big bearing distances or vertical axis application - this is to be separately stated on the order.



Tolerances of corresponding part

Ball bearings only reach their load carrying capacity if the rings are well supported by the corresponding parts. A consequence of this support is that any form deviation of the bearing seats will be represented on the raceways. The squareness and evenness of the abutment surfaces, locknuts and screw covers also have a strong influence on the performance of the ball bearings. The following charts show recommendations for machining tolerances of shaft and housing. The thinner the wall thickness of the rings (series 617.., 618.., 619..), the more important becomes the precision of the corresponding parts.



| _ | | Tol | Tol Allowed shape deviation for tolerance class | | | | | | |
|---------------|------------|----------------|---|-------|-------|-----|--|--|--|
| Property | Symbol | value | PN | P6 | P5 | P4 | | | |
| Roundness | | t | IT5/2 | IT4/2 | IT3/2 | IT1 | | | |
| Tapering | \Diamond | t ₁ | IT5/2 | IT3 | IT2 | IT1 | | | |
| Squareness | _ | t ₂ | IT5/2 | IT3 | IT2 | IT1 | | | |
| Axial runout | 1 | t ₃ | IT5/2 | IT3 | IT2 | IT1 | | | |
| Concentricity | | t ₄ | IT4 | IT4 | IT3 | IT3 | | | |

| Nominal dia | meter [mm] | Tolerance quality [µm] | | | | |
|-------------|------------|------------------------|-----|-----|-----|-----|
| over | up to | IT1 | IT2 | IT3 | IT4 | IT5 |
| 1 | 3 | 0,8 | 1,2 | 2 | 3 | 4 |
| 3 | 6 | 1 | 1,5 | 2,5 | 4 | 5 |
| 6 | 10 | 1 | 1,5 | 2,5 | 4 | 6 |
| 10 | 18 | 1,2 | 2 | 3 | 5 | 8 |
| 18 | 30 | 1,5 | 2,5 | 4 | 6 | 9 |
| 30 | 50 | 1,5 | 2,5 | 4 | 7 | 11 |
| 50 | 80 | 2 | 3 | 5 | 8 | 13 |

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