

**THRUST BEARINGS**

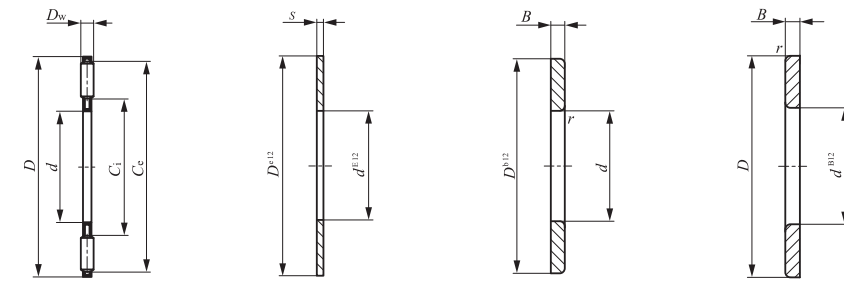
Thrust Needle Roller Bearings



Shaft dia. 90 – 130mm

| Shaft dia.<br>mm | Identification number        |               |                  |               |                  |                  |               |
|------------------|------------------------------|---------------|------------------|---------------|------------------|------------------|---------------|
|                  | Thrust needle roller bearing | Mass (Ref.) g | Thrust washer    | Mass (Ref.) g | Inner ring       | Outer ring       | Mass (Ref.) g |
| 90               | <b>NTB 90120</b>             | 92            | <b>AS 90120</b>  | 38            | <b>WS 90120</b>  | <b>GS 90120</b>  | 250           |
| 100              | <b>NTB 100135</b>            | 119           | <b>AS 100135</b> | 50            | <b>WS 100135</b> | <b>GS 100135</b> | 350           |
| 110              | <b>NTB 110145</b>            | 129           | —                | —             | <b>WS 110145</b> | <b>GS 110145</b> | 380           |
| 120              | <b>NTB 120155</b>            | 139           | —                | —             | <b>WS 120155</b> | <b>GS 120155</b> | 410           |
| 130              | <b>NTB 130170</b>            | 225           | —                | —             | <b>WS 130170</b> | <b>GS 130170</b> | 660           |

Notes<sup>(1)</sup> Minimum allowable value of chamfer dimension  $r$   
<sup>(2)</sup> Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 25% of this value is allowable.



NTB AS WS GS

| Boundary dimensions mm |     |       |     |     |                    |       |       | Basic dynamic load rating<br>$C$<br>N | Basic static load rating<br>$C_0$<br>N | Allowable rotational speed <sup>(2)</sup><br>min <sup>-1</sup> |
|------------------------|-----|-------|-----|-----|--------------------|-------|-------|---------------------------------------|--|--|
| $d$                    | $D$ | $D_w$ | $s$ | $B$ | $r_{s \min}^{(1)}$ | $C_i$ | $C_e$ |                                       |  |  |
| 90                     | 120 | 4     | 1   | 6.5 | 1                  | 96    | 116   | 64 500                                | 394 000                                | 2 500  |
| 100                    | 135 | 4     | 1   | 7   | 1                  | 107   | 131   | 80 300                                | 541 000                                | 2 000  |
| 110                    | 145 | 4     | —   | 7   | 1                  | 117   | 141   | 83 200                                | 578 000                                | 2 000  |
| 120                    | 155 | 4     | —   | 7   | 1                  | 127   | 151   | 87 900                                | 634 000                                | 1 800  |
| 130                    | 170 | 5     | —   | 9   | 1                  | 137   | 165   | 120 000                               | 839 000                                | 1 700  |

**F**  
 NTB  
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 AZK  
 WS-GS