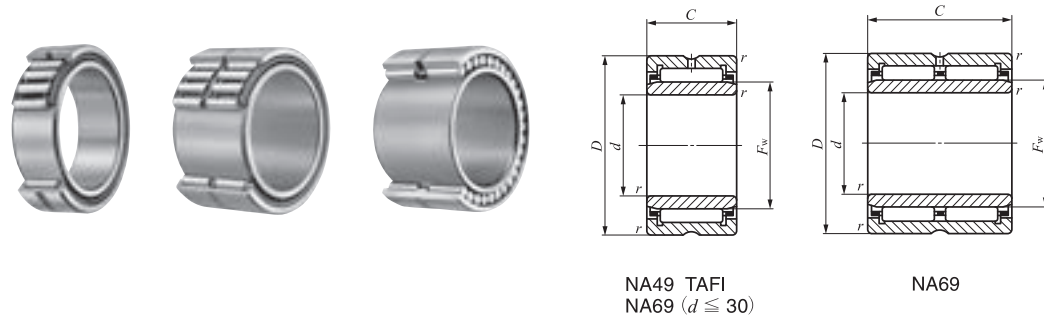


MACHINED TYPE NEEDLE ROLLER BEARINGS

With Inner Ring



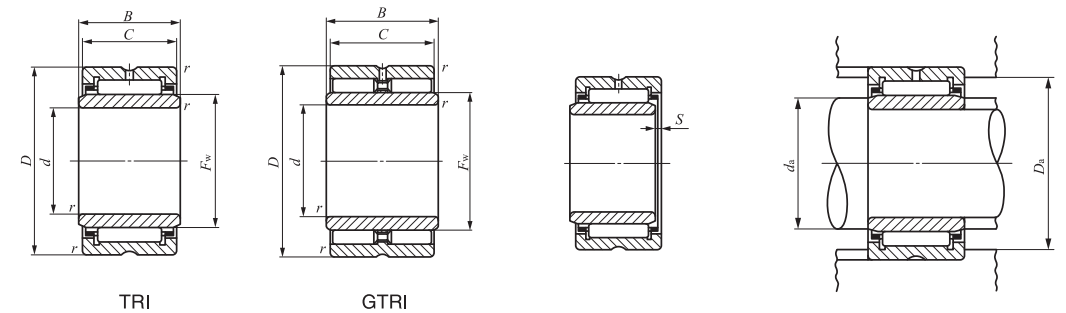
NA49 TAFI  
NA69 ( $d \leq 30$ )

NA69

Shaft dia. 25 – 32mm

| Shaft dia. mm | Identification number |                 |       |                    |                   |                    | Mass (Ref.) g | d  |
|---------------|-----------------------|-----------------|-------|--------------------|-------------------|--------------------|---------------|----|
|               | NA 49                 | NA 69           | NA 48 | TAFI               | TRI               | GTRI               |               |    |
| 25            | —                     | —               | —     | <b>TAFI 253820</b> | —                 | —                  | 82            | 25 |
|               | —                     | —               | —     | <b>TAFI 253830</b> | —                 | —                  | 123           | 25 |
|               | <b>NA 4905</b>        | —               | —     | —                  | —                 | —                  | 92.5          | 25 |
|               | —                     | <b>NA 6905</b>  | —     | —                  | —                 | —                  | 160           | 25 |
| 28            | —                     | —               | —     | —                  | <b>TRI 254425</b> | —                  | 157           | 25 |
|               | —                     | —               | —     | —                  | —                 | <b>GTRI 254425</b> | 175           | 25 |
|               | —                     | —               | —     | <b>TAFI 284220</b> | —                 | —                  | 96.5          | 28 |
|               | —                     | —               | —     | <b>TAFI 284230</b> | —                 | —                  | 145           | 28 |
| 30            | <b>NA 49/28</b>       | —               | —     | —                  | —                 | —                  | 101           | 28 |
|               | —                     | <b>NA 69/28</b> | —     | —                  | —                 | —                  | 176           | 28 |
|               | —                     | —               | —     | —                  | —                 | <b>GTRI 284530</b> | 196           | 28 |
|               | —                     | —               | —     | <b>TAFI 304520</b> | —                 | —                  | 112           | 30 |
| 32            | —                     | —               | —     | <b>TAFI 304530</b> | —                 | —                  | 171           | 30 |
|               | <b>NA 4906</b>        | —               | —     | —                  | —                 | —                  | 106           | 30 |
|               | —                     | <b>NA 6906</b>  | —     | —                  | —                 | —                  | 184           | 30 |
|               | —                     | —               | —     | —                  | <b>TRI 304830</b> | —                  | 199           | 30 |
| 32            | —                     | —               | —     | —                  | —                 | <b>GTRI 304830</b> | 225           | 30 |
|               | —                     | —               | —     | <b>TAFI 324720</b> | —                 | —                  | 121           | 32 |
|               | <b>NA 49/32</b>       | —               | —     | <b>TAFI 324730</b> | —                 | —                  | 180           | 32 |
|               | —                     | —               | —     | —                  | —                 | —                  | 165           | 32 |
| 32            | —                     | —               | —     | —                  | <b>TRI 325230</b> | —                  | 245           | 32 |
|               | —                     | <b>NA 69/32</b> | —     | —                  | —                 | —                  | 295           | 32 |
|               | —                     | —               | —     | —                  | —                 | <b>GTRI 325230</b> | 270           | 32 |
|               | —                     | —               | —     | —                  | —                 | —                  | 270           | 32 |

Notes<sup>(1)</sup> Minimum allowable value of chamfer dimension  $r$   
<sup>(2)</sup> Allowable axial shift amount of inner ring to outer ring  
<sup>(3)</sup> Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.  
 Remarks1. The outer ring has an oil groove and an oil hole.  
 2. No grease is prepacked. Perform proper lubrication.



TRI

GTRI

| Boundary dimensions mm |    |      |                                   |                               |                  | Standard mounting dimensions mm |                     |                     | Basic dynamic load rating C N | Basic static load rating C <sub>0</sub> N | Allowable rotational speed <sup>(3)</sup> min <sup>-1</sup> | Assembled inner ring |
|------------------------|----|------|-----------------------------------|-------------------------------|------------------|---------------------------------|---------------------|---------------------|-------------------------------|---|---|----------------------|
| D                      | C  | B    | r <sub>s min</sub> <sup>(1)</sup> | F <sub>w</sub> <sup>(2)</sup> | S <sup>(2)</sup> | Min.                            | d <sub>a</sub> Max. | D <sub>a</sub> Max. |                               |   |   |                      |
| 38                     | 20 | —    | 0.3                               | 29                            | 0.5              | 27                              | 28                  | 36                  | 21 600                        | 37 200                                    | 14 000  | <b>LRT 252920</b>    |
| 38                     | 30 | —    | 0.3                               | 29                            | 1                | 27                              | 28                  | 36                  | 30 900                        | 59 100                                    | 14 000  | <b>LRT 252930</b>    |
| 42                     | 17 | —    | 0.3                               | 30                            | 0.5              | 27                              | 29                  | 40                  | 23 700                        | 30 700                                    | 13 000  | <b>LRT 253017</b>    |
| 42                     | 30 | —    | 0.3                               | 30                            | 0.5              | 27                              | 29                  | 40                  | 42 100                        | 64 300                                    | 13 000  | <b>LRT 253030</b>    |
| 44                     | 25 | 25.5 | 0.3                               | 30                            | 0.5              | 27                              | 29                  | 42                  | 37 900                        | 52 100                                    | 13 000  | <b>LRT 253025</b>    |
| 44                     | 25 | 25.5 | 0.3                               | 30                            | —                | 27                              | 29                  | 42                  | 47 000                        | 76 500                                    | 5 000   | <b>LRTZ 253025</b>   |
| 42                     | 20 | —    | 0.3                               | 32                            | 0.5              | 30                              | 31                  | 40                  | 25 700                        | 42 200                                    | 12 000  | <b>LRT 283220</b>    |
| 42                     | 30 | —    | 0.3                               | 32                            | 1                | 30                              | 31                  | 40                  | 36 800                        | 67 200                                    | 12 000  | <b>LRT 283230</b>    |
| 45                     | 17 | —    | 0.3                               | 32                            | 1                | 30                              | 31                  | 43                  | 24 500                        | 32 700                                    | 12 000  | <b>LRT 283217</b>    |
| 45                     | 30 | —    | 0.3                               | 32                            | 1                | 30                              | 31                  | 43                  | 41 800                        | 64 800                                    | 12 000  | <b>LRT 283230</b>    |
| 45                     | 30 | 30.5 | 0.3                               | 32                            | —                | 30                              | 31                  | 43                  | 58 000                        | 101 000                                   | 4 500   | <b>LRTZ 283230</b>   |
| 45                     | 20 | —    | 0.3                               | 35                            | 0.3              | 32                              | 34                  | 43                  | 26 900                        | 46 200                                    | 11 000  | <b>LRT 303520</b>    |
| 45                     | 30 | —    | 0.3                               | 35                            | 0.5              | 32                              | 34                  | 43                  | 38 600                        | 73 600                                    | 11 000  | <b>LRT 303530</b>    |
| 47                     | 17 | —    | 0.3                               | 35                            | 0.5              | 32                              | 34                  | 45                  | 25 200                        | 34 700                                    | 11 000  | <b>LRT 303517</b>    |
| 47                     | 30 | —    | 0.3                               | 35                            | 0.5              | 32                              | 34                  | 45                  | 43 000                        | 69 000                                    | 11 000  | <b>LRT 303530</b>    |
| 48                     | 30 | 30.5 | 0.3                               | 35                            | 1                | 32                              | 34                  | 46                  | 47 400                        | 72 300                                    | 11 000  | <b>LRT 303530-1</b>  |
| 48                     | 30 | 30.5 | 0.3                               | 35                            | —                | 32                              | 34                  | 46                  | 61 100                        | 110 000                                   | 4 500   | <b>LRTZ 303530</b>   |
| 47                     | 20 | —    | 0.3                               | 37                            | 0.3              | 34                              | 36                  | 45                  | 28 200                        | 50 100                                    | 11 000  | <b>LRT 323720</b>    |
| 47                     | 30 | —    | 0.3                               | 37                            | 0.5              | 34                              | 36                  | 45                  | 40 500                        | 79 800                                    | 11 000  | <b>LRT 323730</b>    |
| 52                     | 20 | —    | 0.6                               | 40                            | 0.5              | 36                              | 39                  | 48                  | 31 200                        | 47 800                                    | 10 000  | <b>LRT 324020</b>    |
| 52                     | 30 | 30.5 | 0.6                               | 38                            | 0.5              | 36                              | 37                  | 48                  | 50 800                        | 81 100                                    | 11 000  | <b>LRT 323830</b>    |
| 52                     | 36 | —    | 0.6                               | 40                            | 0.3              | 36                              | 39                  | 48                  | 53 500                        | 95 700                                    | 10 000  | <b>LRT 324036</b>    |
| 52                     | 30 | 30.5 | 0.6                               | 38                            | —                | 36                              | 37                  | 48                  | 64 200                        | 121 000                                   | 4 000   | <b>LRTZ 323830</b>   |

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