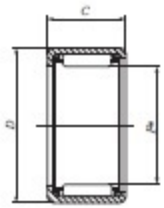
## SHELL TYPE NEEDLE ROLLER BEARINGS




TA···Z TLA···Z

Shaft dia. 20 — 21mm

| Shaft dia. mm | Identification number: Standard | Mass (Ref.) g | Closed end | Mass (Ref.) g | Standard | Mass (Ref.) g | Closed end | Mass (Ref.) g | Grease retained | Mass (Ref.) g | Boundary dimensions mm: $F_w$ | $D$ | $C$ | $r_2$ Max. | Standard mounting dimensions mm: Shaft dia. h6 Max. | Shaft dia. h6 Min. | Housing bore dia. J7 Max. | Housing bore dia. J7 Min. | Housing bore dia. N7 Max. | Housing bore dia. N7 Min. | Basic dynamic load rating $C$ N | Basic static load rating $C_0$ N | Allowable rotational speed(†) rpm | Assembled inner ring |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | — | — | — | — | TLA 2012 Z | 13.2 | TLAM 2012 | 15.2 | — | — | 20 | 26 | 12 | 1.3 | 20.000 | 19.987 | — | — | 25.993 | 25.972 | 8 740 | 12 900 | 20 000 | — |
| | — | — | — | — | TLA 2016 Z | 17.8 | TLAM 2016 | 19.9 | — | — | 20 | 26 | 16 | 1.3 | | | | | | | 11 100 | 17 500 | 20 000 | IRT 1716 |
| | — | — | — | — | TLA 2020 Z | 22 | TLAM 2020 | 24 | — | — | 20 | 26 | 20 | 1.3 | | | | | | | 14 500 | 24 700 | 20 000 | IRT 1720 |
| | — | — | — | — | TLA 2030 Z | 33 | TLAM 2030 | 35 | — | — | 20 | 26 | 30 | 1.3 | | | | | | | 22 300 | 42 900 | 20 000 | IRT 1730 |
| | TA 2015 Z | 20 | TAM 2015 | 22.5 | — | — | — | — | — | — | 20 | 27 | 15 | 1.3 | 20.000 | 19.987 | 27.012 | 26.991 | — | — | 10 400 | 14 600 | 20 000 | IRT 1515-2 |
| | TA 2020 Z | 26.5 | TAM 2020 | 29 | — | — | — | — | — | — | 20 | 27 | 20 | 1.3 | | | | | | | 15 000 | 23 400 | 20 000 | IRT 1520-2 |
| | TA 2025 Z | 33 | TAM 2025 | 35.5 | — | — | — | — | — | — | 20 | 27 | 25 | 1.3 | | | | | | | 19 200 | 32 200 | 20 000 | IRT 1525-2 |
| | TA 2030 Z | 39.5 | TAM 2030 | 42 | — | — | — | — | — | — | 20 | 27 | 30 | 1.3 | | | | | | | 23 100 | 41 000 | 20 000 | IRT 1530-2 |
| | — | — | — | — | — | — | — | — | YT 2015 | 23.5 | 20 | 27 | 15 | — | | | | | | | 18 400 | 30 900 | 7 500 | IRT 1515-2 |
| | — | — | — | — | — | — | — | — | YT 2025 | 41 | 20 | 27 | 25 | — | | | | | | | 30 000 | 58 300 | 7 500 | IRT 1525-2 |
| | TA 202820 Z | 30 | TAM 202820 | 32.5 | — | — | — | — | — | — | 20 | 28 | 20 | 1.3 | 20.000 | 19.987 | 28.012 | 27.991 | — | — | 16 900 | 24 300 | 20 000 | IRT 1520-2 |
| | — | — | — | — | — | — | — | — | YT 202820 | 37.5 | 20 | 28 | 20 | — | | | | | | | 26 800 | 44 600 | 7 500 | IRT 1520-2 |
| 21 | TA 2116 Z | 25 | TAM 2116 | 28 | — | — | — | — | — | — | 21 | 29 | 16 | 1.3 | 21.000 | 20.987 | 29.012 | 28.991 | — | — | 13 300 | 18 100 | 19 000 | IRT 1716-1 |
| | TA 2120 Z | 31.5 | TAM 2120 | 34.5 | — | — | — | — | — | — | 21 | 29 | 20 | 1.3 | | | | | | | 17 600 | 25 900 | 19 000 | IRT 1720-1 |
| | — | — | — | — | — | — | — | — | YT 2116 | 31 | 21 | 29 | 16 | — | | | | | | | 22 100 | 35 200 | 7 000 | IRT 1716-1 |
| | — | — | — | — | — | — | — | — | YT 2120 | 39 | 21 | 29 | 20 | — | | | | | | | 27 500 | 46 800 | 7 000 | IRT 1720-1 |

Note(†) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remark Shell Type Grease Retained Full Complement Needle Roller Bearings are provided with prepacked grease. Standard type and closed end type bearings are not provided with prepacked grease, so perform proper lubrication when using these types of bearings.