



HEAVY DUTY COMPOSITE BUSHINGS

INCH & METRIC SIZES



HEAVY DUTY BUSHINGS

TA 100 • TA 200 • TA 400

Standard Size List

The sizes listed in this catalog represent Tribotech's standard range of composite bushings, stocked and available for fast delivery. For applications requiring a size not listed, contact us with your required ID, OD, length, and material grade — Tribotech machines bushings to customer specification in any of our composite grades.

Benefits of Composite Bushings Over Metals

Tribotech fabric-reinforced composite bushings deliver performance and operational advantages over bronze, cast iron, and babbitt across industrial applications.

- **Self-Lubricating** — Solid lubricants embedded in the resin eliminate the need for grease or oil, reducing maintenance and contamination risk.
- **No Metallic Scoring** — Will not score or gall a mating shaft, extending shaft life and reducing repair costs.
- **High Load capacity** — Compressive strength up to 358 N/mm² [52,000 psi] normal to laminate.
- **Dimensional Stability** — Negligible water swell (<0.15%) maintains bore tolerances in wet conditions.
- **Corrosion Resistance** — Polyester resin is unaffected by moisture, most chemicals, and salt water.
- **Lightweight** — At 1.25 g/cm³, roughly 85% lighter than bronze.
- **Electrically Versatile** — TA 100 is non-conductive for isolation; TA 200 is conductive for grounding.
- **Wide Temperature Range** — Up to 120°C standard; up to 176°C with TA 400.
- **Machinability** — CNC machined to precision tolerances without specialised tooling.

Typical Applications

- » Hydraulic cylinders and actuators
- » Cranes, hoists, and lifting equipment
- » Agricultural, mining, and off-road equipment
- » Marine on-deck and submerged applications
- » Oil and gas bushings and thrust washers
- » Electrical isolation and insulator mounts
- » General industrial rotating and sliding applications

Available Material Grades

TA 100

PTFE-Lubricated
Non-Conductive

Polyester resin composite with PTFE solid lubrication. Ideal for dry-running applications requiring electrical isolation. Tough, low-friction, maintenance-free — direct replacement for bronze in most general industrial applications.

Compressive Strength (Normal)	310 N/mm ² [45,000 psi]
Hardness (Rockwell M)	100
Temperature Range	-40 to +120°C [-40 to +250°F]
COF Static / Dynamic	0.15 / 0.08-0.12
Water Swell	<0.10% of wall thickness
Electrical	Non-conductive

TA 200

Graphite-Lubricated
Electrically Conductive

Fabric-reinforced polyester composite with graphite lubrication. Graphite excels in wet and water-lubricated conditions, making TA 200 the preferred grade for marine, offshore, and submerged applications. Also suitable where electrical conductivity or static dissipation is required.

Compressive Strength (Normal)	310 N/mm ² [45,000 psi]
Hardness (Rockwell M)	100
Temperature Range	-40 to +120°C [-40 to +250°F]
COF Static / Dynamic	0.15 / 0.13
Water Swell	<0.15% of wall thickness
Electrical	Conductive — suitable for grounding

TA 400

High Temperature
Highest Compressive Strength

High-temperature polyester resin composite with the highest compressive strength of the three grades. Rated to 176°C [349°F], TA 400 is specified where elevated operating temperatures or higher bearing loads rule out standard grades. Distinctive yellow colour for easy visual identification.

Compressive Strength (normal)	330-358 N/mm ² [47,900-52,000 psi]
Hardness (Rockwell M)	107
Max Operating Temperature	176°C [349°F]
COF	0.12-0.17
Water Swell	<0.10% of wall thickness
Colour	Yellow

HEAVY DUTY BUSHINGS

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Design of Composite Bushings

Proper bushing design and selection are critical to dependable performance. The standard range covers most common applications. For operating conditions approaching design limits, or where maximum performance is needed, consult Tribotech for application advice. Standard bushings are supplied with an interference fit on the outside diameter and provide shaft-to-bushing clearance suitable for most applications.

Projected Bearing Stress

Radial load is evaluated as bearing stress — applied force divided by the projected (shadow) area of the bore. Keep dynamic bearing stress below the material's allowable limit: ~70–80 N/mm² for TA 100 and TA 200; up to ~100 N/mm² for TA 400.

$$P = F \div (ID \times L)$$

P — Bearing stress [N/mm² or MPa]

F — Applied radial load [N]

ID — Bushing inside diameter [mm]

L — Bushing length [mm]

PV Rating (Pressure × Velocity)

PV combines bearing stress and surface speed to predict frictional heat generation. It is the primary design limit for dry-running composite bushings. Tribotech composites are rated to approximately 1.75 N/mm²·m/s dry; lubricated or water-wetted applications allow significantly higher PV values.

$$PV = P \times V$$

$$V = \pi \times d \times n \div 60,000$$

P — Bearing stress [N/mm²]

V — Surface velocity [m/s]

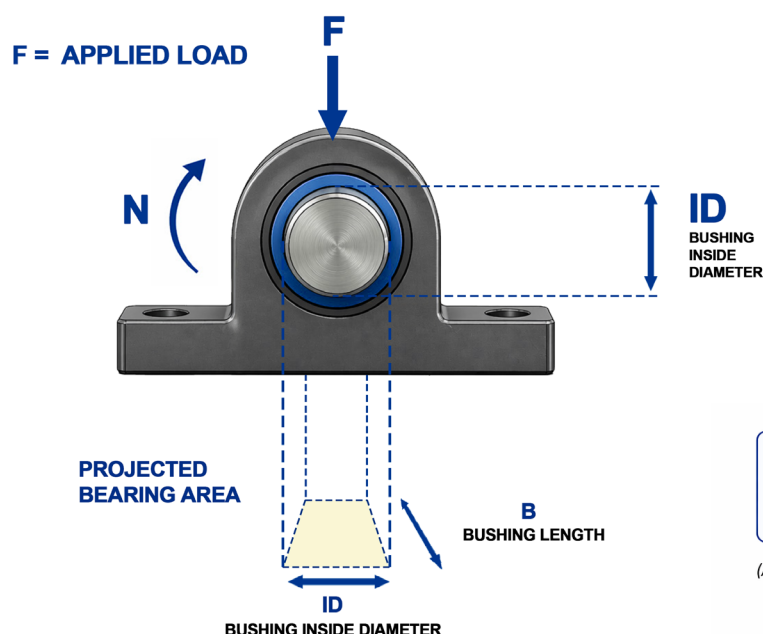
d — Shaft diameter [mm]

n — Rotational speed [rpm]

PV — N/mm² · m/s [limit: ~1.75 dry]

Design Guidelines

- Apply a safety factor of 2.5–3× on compressive strength for dynamic loads.
- For oscillating motion, reduce the PV limit by 30–40%.
- Minimum L/D ratio 0.5; prefer 1.0–1.5 under side load.
- Shaft surface finish of Ra 0.4–0.8 µm optimises break-in and wear life.
- Diametral clearance: 0.025 mm per 25 mm of ID as a starting point.
- Above 120°C or under very high sustained loads, specify TA 400.
- For elevated-temperature service, consult de-rating curves — strength drops with heat.



P = Projected Bearing Stress (MPa)

F = Applied Load (N)

ID = Bushing Inside Diameter (mm)

B = Bushing Length (mm)



WHERE:

P is the average pressure developed on the projected bearing area ($ID \times B$) and is used to determine load carrying capability and service life.

$$P = \frac{F}{ID \times B}$$

(All units in millimeters and Newtons)

HEAVY DUTY BUSHINGS

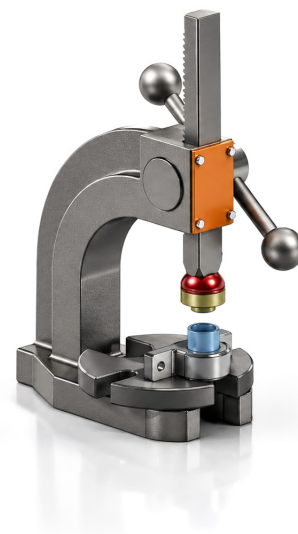
TA 100 • TA 200 • TA 400

Bushing Installation

Correct installation is essential to achieving full performance and service life. Standard bushings are supplied with a slight interference fit on the OD, which locks the bushing in the housing bore and prevents rotation in service.

Arbor Press — Preferred Method (*All Sizes*)

An arbor press applies controlled, even axial force that seats the bushing squarely without shock loading. Use a correctly sized installation mandrel that bears on the full end face of the bushing — never on the bore wall. Ensure the housing bore and bushing OD are clean and free of burrs. A light application of assembly lubricant on the housing bore is permissible; do not lubricate the bushing bore.



Gentle Tapping — Small Sizes Only ($d \leq 60 \text{ mm} / 2.5 \text{ in}$)

For smaller bushings, careful tapping with a soft-faced mallet is acceptable where an arbor press is not available. An installation mandrel must be used in all cases — never strike the bushing directly, as this can crack or chip the composite at the leading edge.

Freeze Fitting — Recommended for Larger Sizes ($d > 60 \text{ mm} / 2.5 \text{ in}$)

Thermal contraction is an effective, stress-free method for installing larger bushings, or where press equipment is unavailable. Cooling reduces OD enough to allow hand or light-press installation; the bushing returns to interference dimension at ambient temperature.

METHOD	TEMPERATURE	NOTES
Dry Ice <i>[Preferred]</i>	−78°C / −108°F	Soak 20–30 Min. Safe, Readily Available.
Freezer	−18 To −30°C / 0 To −22°F	Small-To-Medium Sizes, Light Interference.
Liquid Nitrogen	−196°C / −321°F	Heavy Interference Fits. Requires PPE.

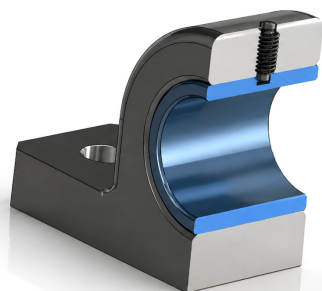
Post-Installation Checks

Verify the bushing is fully and squarely seated; the end face should be flush with or slightly below the housing face. Check bore diameter with a calibrated internal gauge — a small reduction of 0.01–0.03 mm is normal. If bore closure exceeds running clearance, lightly hone to finished size maintaining Ra 0.8 µm or better.

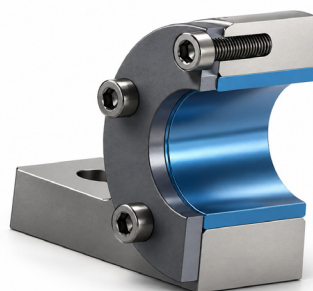
IMPORTANT: Never strike the bushing bore surface directly. Always use a full-face installation mandrel. Impact on the bore edge will chip or crack the laminate and compromise bore tolerance and service life.

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Grub Screw Retention



Face Plate / Keeper Plate Retention

Securing Bushings

A standard interference fit on the OD is sufficient in most applications. Where a press fit is not practical or desired — elevated operating temperatures, frequent removal for inspection, or housing tolerance limits — the following methods are available individually or in combination.

Grub Screws or Set Screws

A flat-bottomed recess in the housing aligned to the bushing OD, with the bushing drilled or spotted to accept the screw tip. Spotting is essential — never apply full point pressure from a grub screw onto an unrecessed composite surface, as this risks splitting the laminate. Apply Loctite 243 or equivalent to prevent vibration loosening. For heavy vibration, use two diametrically opposed screws.

Cover Plate or Keeper Plate

A plate fastened to the housing face bears against the bushing end face, providing axial retention without radial clamping force. Maintain shaft clearance through the plate. No radial clamping — compressing the bushing wall closes the bore and tightens the running fit. Treat as a retaining device only, not a structural clamp.

Flanged Bushings with Fasteners

An integral flange at one or both ends, bolted to the housing, provides positive axial and rotational retention without an interference fit. Suited to applications requiring regular removal, soft housing materials, or thermal cycling. Available in all three composite grades, machined to drawing.

Adhesive Bonding

Structural adhesive applied to the housing bore or bushing OD immediately before installation. Roughen both surfaces (80-grit abrasion on the bushing OD, honing on the housing bore) and clean before applying. Select an adhesive rated for the operating temperature and allow full cure before loading.

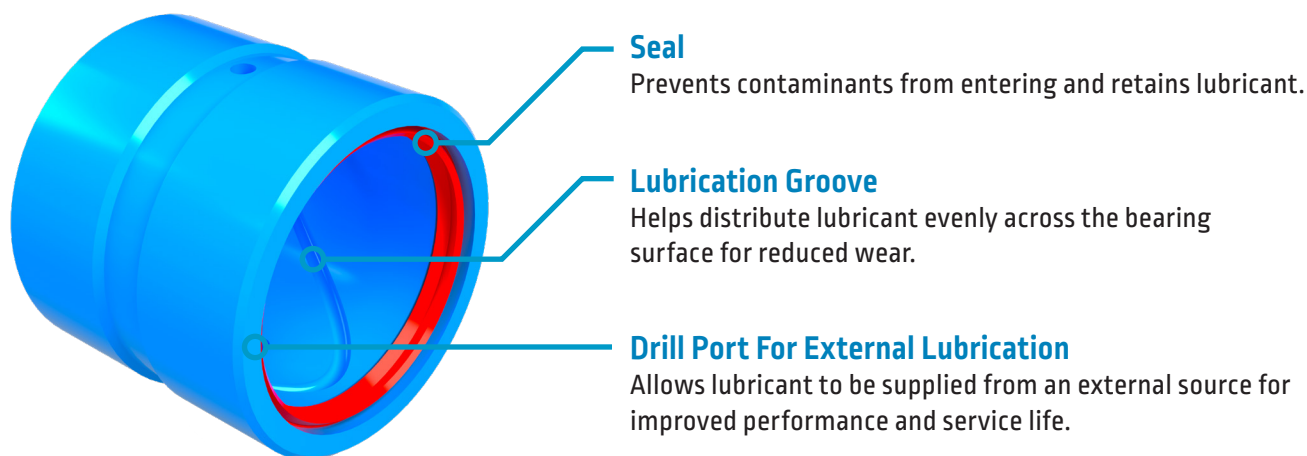
ADHESIVE TYPE	MAX TEMP	BEST USED FOR
Standard Epoxy	Up to ~120°C [248°F]	General industrial, static loads
High-Temp Epoxy	Up to ~200°C [392°F]	TA 400, elevated-temp environments
Anaerobic [e.g. Loctite 638]	Up to ~150°C [302°F]	Cylindrical retention, close-fitting bores

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Additional Options & Custom Features

Tribotech can supply bushings with the following custom machined features to improve performance, extend service life, or simplify installation in specialised applications.



Bushing options: seal groove [1], lubrication groove [2], external lubrication port [3]

Spiral Lubrication Grooves

Continuous spiral groove machined into the bore — distributes lubricant evenly and acts as a debris channel. Standard geometry: 2–3 mm wide × 1–1.5 mm deep at 30–45° helix. Left- and right-hand options available. Effective in oscillating and slow-speed applications.

Circumferential Grooves & Lubrication Ports

Combined with a radial port through the housing for external grease injection to mid-bore via a nipple or centralised lubrication system. Multiple grooves recommended for long bushings ($L/D > 1.5$). Port threads: BSP, NPT, or metric.

End-Face Seal Grooves

Machined to accept elastomeric lip seals, V-rings, or O-rings — excludes contamination and retains lubricant. A double-seal arrangement with a purge port between seals allows grease to actively flush contaminants in dredging, sub-sea, mining, and agricultural applications.

Pre-Drilled & Spotted OD for Grub Screws

Pre-drilled or pre-spotted holes on the OD indexed to the housing drawing — eliminates field drilling risk. Standard spot is a 90° countersink or flat-bottom blind hole. Multiple positions and cross-holes for pinning available.

Integral Flanges

Single- or double-flanged geometry providing positive axial location and end-face thrust support. Counterbored bolt holes or through-slots can be included in the flange face.

Split Bushings

Single axial cut through the wall allows installation around a shaft that cannot be disassembled. A locating peg or grub screw is recommended to prevent the split from opening in service. Plain or flanged configurations.

Custom Profiles & Non-Standard Geometry

Tapered bores, profiled ODs, keyways or anti-rotation slots, stepped bores, eccentric profiles. Wear pads, slide plates, and strip material from sheet stock also available. Tribotech engineers components from the ground up to suit specific load, speed, temperature, and environmental requirements.

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Options Summary

OPTION	WHAT IT DOES	BEST USED FOR
Spiral lubrication grooves	Distributes lubricant evenly; acts as a debris channel	Oscillating and slow-speed applications
Circumferential grooves & ports	External grease injection to mid-bore via nipple or central system	Long bushings (L/D > 1.5)
End-face seal grooves	Accepts lip seals, V-rings, or O-rings; excludes contamination	Dredging, sub-sea, mining, agricultural
Pre-drilled / spotted OD	Indexed holes for grub screws; eliminates field drilling risk	Housings with anti-rotation screws
Split bushings	Single axial cut allows installation around a non-removable shaft	Shafts that cannot be disassembled
Adhesive bonding	Retention without interference fit	See adhesive table, page 5
Integral flanges	Positive axial location and end-face thrust support	Frequent removal, soft housings, thermal cycling
Custom profiles	Tapered bores, keyways, stepped bores, wear pads, strip material	Engineered-to-order applications

Contact & Support

Tribotech Composites is an ISO 9001-certified manufacturer based in Cleveland, Ohio, producing custom-engineered composite bushings, wear rings, and guide bearings for marine, hydropower, oil and gas, and industrial machinery. Custom sizes are also available for quick delivery. Please contact us for more information.

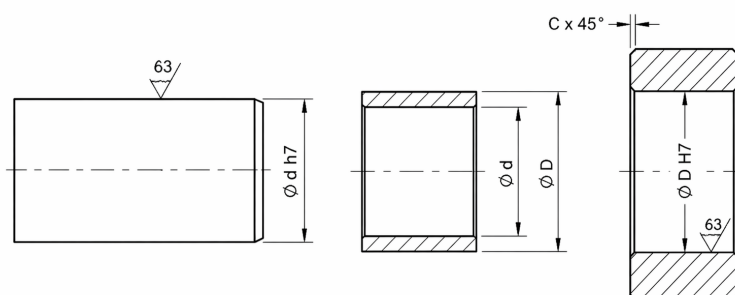
Address

9217 Midwest Ave.
Cleveland, OH 44125
United States

Get in Touch

Phone: (216) 901-1300
Email: sales@tribotechcomposites.com
Web: www.tribotechcomposites.com

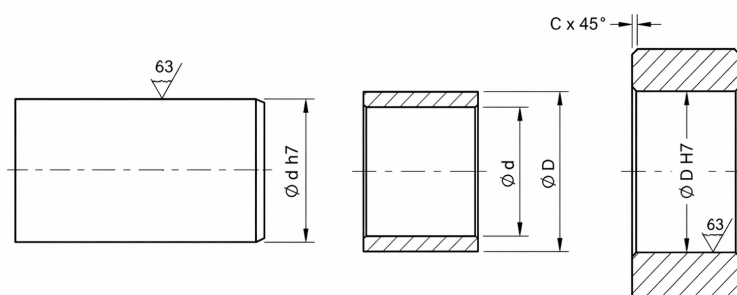
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30878	10	14	5	14.00 +0.000/+0.018	10.00 +0.000/-0.015	0.50 x 45°	200 N @ 955 rpm	2500 N	-40 to +120
30694	10	14	8	14.00 +0.000/+0.018	10.00 +0.000/-0.015	0.50 x 45°	320 N @ 955 rpm	4000 N	-40 to +120
30107	10	14	10	14.00 +0.000/+0.018	10.00 +0.000/-0.015	0.50 x 45°	400 N @ 955 rpm	5000 N	-40 to +120
30266	10	15	10	15.00 +0.000/+0.018	10.00 +0.000/-0.015	0.50 x 45°	400 N @ 955 rpm	5000 N	-40 to +120
30869	10	16	8	16.00 +0.000/+0.018	10.00 +0.000/-0.015	1.00 x 45°	320 N @ 955 rpm	4000 N	-40 to +120
30643	10	16	10	16.00 +0.000/+0.018	10.00 +0.000/-0.015	1.00 x 45°	400 N @ 955 rpm	5000 N	-40 to +120
30662	12	16	8	16.00 +0.000/+0.018	12.00 +0.000/-0.018	0.50 x 45°	384 N @ 796 rpm	4800 N	-40 to +120
30293	12	16	10	16.00 +0.000/+0.018	12.00 +0.000/-0.018	0.50 x 45°	480 N @ 796 rpm	6000 N	-40 to +120
30047	12	16	12	16.00 +0.000/+0.018	12.00 +0.000/-0.018	0.50 x 45°	576 N @ 796 rpm	7200 N	-40 to +120
30273	12	18	8	18.00 +0.000/+0.018	12.00 +0.000/-0.018	1.00 x 45°	384 N @ 796 rpm	4800 N	-40 to +120
30862	12	18	10	18.00 +0.000/+0.018	12.00 +0.000/-0.018	1.00 X 45°	480 N @ 796 RPM	6000 N	-40 TO +120
30605	12	18	12	18.00 +0.000/+0.018	12.00 +0.000/-0.018	1.00 X 45°	576 N @ 796 RPM	7200 N	-40 TO +120
30984	12	20	12	20.00 +0.000/+0.021	12.00 +0.000/-0.018	1.00 X 45°	576 N @ 796 RPM	7200 N	-40 TO +120
30685	14	18	14	18.00 +0.000/+0.018	14.00 +0.000/-0.018	0.50 X 45°	784 N @ 682 RPM	9800 N	-40 TO +120
30121	14	20	10	20.00 +0.000/+0.021	14.00 +0.000/-0.018	1.00 X 45°	560 N @ 682 RPM	7000 N	-40 TO +120
30536	14	20	12	20.00 +0.000/+0.021	14.00 +0.000/-0.018	1.00 X 45°	672 N @ 682 RPM	8400 N	-40 TO +120
30522	14	20	14	20.00 +0.000/+0.021	14.00 +0.000/-0.018	1.00 X 45°	784 N @ 682 RPM	9800 N	-40 TO +120
30942	15	19	10	19.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	600 N @ 637 RPM	7500 N	-40 TO +120
30812	15	19	15	19.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	900 N @ 637 RPM	11250 N	-40 TO +120
30225	15	20	10	20.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	600 N @ 637 RPM	7500 N	-40 TO +120
30794	15	20	15	20.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	900 N @ 637 RPM	11250 N	-40 TO +120
30225	15	20	10	20.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	600 N @ 637 RPM	7500 N	-40 TO +120
30794	15	20	15	20.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	900 N @ 637 RPM	11250 N	-40 TO +120
30225	15	20	10	20.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	600 N @ 637 RPM	7500 N	-40 TO +120
30794	15	20	15	20.00 +0.000/+0.021	15.00 +0.000/-0.018	0.50 X 45°	900 N @ 637 RPM	11250 N	-40 TO +120

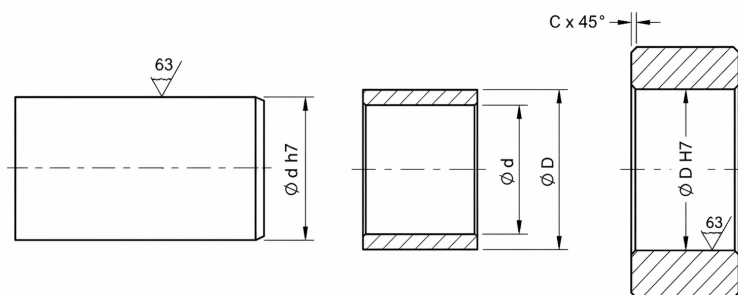
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30843	15	21	15	21.00 +0.000/+0.021	15.00 +0.000/-0.018	1.00 x 45°	900 N @ 637 rpm	11250 N	-40 to +120
30945	15	22	15	22.00 +0.000/+0.021	15.00 +0.000/-0.018	1.00 x 45°	900 N @ 637 rpm	11250 N	-40 to +120
30302	16	20	12	20.00 +0.000/+0.021	16.00 +0.000/-0.018	0.50 x 45°	768 N @ 597 rpm	9600 N	-40 to +120
30648	16	20	16	20.00 +0.000/+0.021	16.00 +0.000/-0.018	0.50 x 45°	1,020 N @ 597 rpm	12800 N	-40 to +120
30127	16	22	12	22.00 +0.000/+0.021	16.00 +0.000/-0.018	1.00 x 45°	768 N @ 597 rpm	9600 N	-40 to +120
30953	16	22	16	22.00 +0.000/+0.021	16.00 +0.000/-0.018	1.00 x 45°	1,020 N @ 597 rpm	12800 N	-40 to +120
30462	17	22	15	22.00 +0.000/+0.021	17.00 +0.000/-0.018	0.50 x 45°	1,020 N @ 562 rpm	12750 N	-40 to +120
30013	18	22	18	22.00 +0.000/+0.021	18.00 +0.000/-0.018	0.50 x 45°	1,300 N @ 531 rpm	16200 N	-40 to +120
30097	18	24	12	24.00 +0.000/+0.021	18.00 +0.000/-0.018	1.00 x 45°	864 N @ 531 rpm	10800 N	-40 to +120
30433	18	24	16	24.00 +0.000/+0.021	18.00 +0.000/-0.018	1.00 x 45°	1,150 N @ 531 rpm	14400 N	-40 to +120
30768	18	24	18	24.00 +0.000/+0.021	18.00 +0.000/-0.018	1.00 x 45°	1,300 N @ 531 rpm	16200 N	-40 to +120
30334	18	25	16	25.00 +0.000/+0.021	18.00 +0.000/-0.018	1.00 x 45°	1,150 N @ 531 rpm	14400 N	-40 to +120
30741	18	25	18	25.00 +0.000/+0.021	18.00 +0.000/-0.018	1.00 x 45°	1,300 N @ 531 rpm	16200 N	-40 to +120
30823	20	24	16	24.00 +0.000/+0.021	20.00 +0.000/-0.021	0.50 x 45°	1,280 N @ 477 rpm	16000 N	-40 to +120
30709	20	24	20	24.00 +0.000/+0.021	20.00 +0.000/-0.021	0.50 x 45°	1,600 N @ 477 rpm	20000 N	-40 to +120
30070	20	25	15	25.00 +0.000/+0.021	20.00 +0.000/-0.021	0.50 x 45°	1,200 N @ 477 rpm	15000 N	-40 to +120
30323	20	25	16	25.00 +0.000/+0.021	20.00 +0.000/-0.021	0.50 x 45°	1,280 N @ 477 rpm	16000 N	-40 to +120
30959	20	25	20	25.00 +0.000/+0.021	20.00 +0.000/-0.021	0.50 x 45°	1,600 N @ 477 rpm	20000 N	-40 to +120
30597	20	26	16	26.00 +0.000/+0.021	20.00 +0.000/-0.021	1.00 x 45°	1,280 N @ 477 rpm	16000 N	-40 to +120
30992	20	26	20	26.00 +0.000/+0.021	20.00 +0.000/-0.021	1.00 x 45°	1,600 N @ 477 rpm	20000 N	-40 to +120
30452	20	28	16	28.00 +0.000/+0.021	20.00 +0.000/-0.021	1.00 x 45°	1,280 N @ 477 rpm	16000 N	-40 to +120
30296	20	28	20	28.00 +0.000/+0.021	20.00 +0.000/-0.021	1.00 x 45°	1,600 N @ 477 rpm	20000 N	-40 to +120
30827	22	27	15	27.00 +0.000/+0.021	22.00 +0.000/-0.021	0.50 x 45°	1,320 N @ 434 rpm	16500 N	-40 to +120
30060	22	27	18	27.00 +0.000/+0.021	22.00 +0.000/-0.021	0.50 x 45°	1,580 N @ 434 rpm	19800 N	-40 to +120
30554	22	27	20	27.00 +0.000/+0.021	22.00 +0.000/-0.021	0.50 x 45°	1,760 N @ 434 rpm	22000 N	-40 to +120

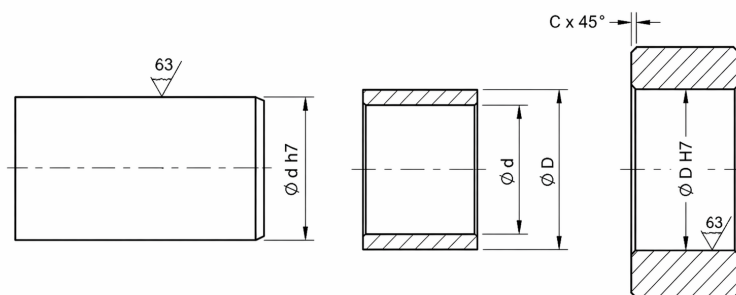
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30197	22	27	22	27.00 +0.000/+0.021	22.00 +0.000/-0.021	0.50 x 45°	1,940 N @ 434 rpm	24200 N	-40 to +120
30700	22	28	18	28.00 +0.000/+0.021	22.00 +0.000/-0.021	1.00 x 45°	1,580 N @ 434 rpm	19800 N	-40 to +120
30846	22	28	20	28.00 +0.000/+0.021	22.00 +0.000/-0.021	1.00 x 45°	1,760 N @ 434 rpm	22000 N	-40 to +120
30523	22	28	22	28.00 +0.000/+0.021	22.00 +0.000/-0.021	1.00 x 45°	1,940 N @ 434 rpm	24200 N	-40 to +120
30895	22	29	18	29.00 +0.000/+0.021	22.00 +0.000/-0.021	1.00 x 45°	1,580 N @ 434 rpm	19800 N	-40 to +120
30333	22	29	22	29.00 +0.000/+0.021	22.00 +0.000/-0.021	1.00 x 45°	1,940 N @ 434 rpm	24200 N	-40 to +120
30424	25	30	20	30.00 +0.000/+0.021	25.00 +0.000/-0.021	0.50 x 45°	2,000 N @ 382 rpm	25000 N	-40 to +120
30055	25	30	25	30.00 +0.000/+0.021	25.00 +0.000/-0.021	0.50 x 45°	2,500 N @ 382 rpm	31250 N	-40 to +120
30450	25	32	20	32.00 +0.000/+0.025	25.00 +0.000/-0.021	1.00 x 45°	2,000 N @ 382 rpm	25000 N	-40 to +120
30914	25	32	25	32.00 +0.000/+0.025	25.00 +0.000/-0.021	1.00 x 45°	2,500 N @ 382 rpm	31250 N	-40 to +120
30083	25	35	25	35.00 +0.000/+0.025	25.00 +0.000/-0.021	1.00 x 45°	2,500 N @ 382 rpm	31250 N	-40 to +120
30202	28	32	22	32.00 +0.000/+0.025	28.00 +0.000/-0.021	0.50 x 45°	2,460 N @ 341 rpm	30800 N	-40 to +120
30388	28	32	28	32.00 +0.000/+0.025	28.00 +0.000/-0.021	0.50 x 45°	3,140 N @ 341 rpm	39200 N	-40 to +120
30970	28	36	20	36.00 +0.000/+0.025	28.00 +0.000/-0.021	1.00 x 45°	2,240 N @ 341 rpm	28000 N	-40 to +120
30650	28	36	25	36.00 +0.000/+0.025	28.00 +0.000/-0.021	1.00 x 45°	2,800 N @ 341 rpm	35000 N	-40 to +120
30381	30	35	25	35.00 +0.000/+0.025	30.00 +0.000/-0.021	0.50 x 45°	3,000 N @ 318 rpm	37500 N	-40 to +120
30746	30	35	30	35.00 +0.000/+0.025	30.00 +0.000/-0.021	0.50 x 45°	3,600 N @ 318 rpm	45000 N	-40 to +120
30311	30	38	20	38.00 +0.000/+0.025	30.00 +0.000/-0.021	1.00 x 45°	2,400 N @ 318 rpm	30000 N	-40 to +120
30481	30	38	25	38.00 +0.000/+0.025	30.00 +0.000/-0.021	1.00 x 45°	3,000 N @ 318 rpm	37500 N	-40 to +120
30908	30	38	30	38.00 +0.000/+0.025	30.00 +0.000/-0.021	1.00 x 45°	3,600 N @ 318 rpm	45000 N	-40 to +120
30917	30	40	20	40.00 +0.000/+0.025	30.00 +0.000/-0.021	1.00 x 45°	2,400 N @ 318 rpm	30000 N	-40 to +120
30463	30	40	25	40.00 +0.000/+0.025	30.00 +0.000/-0.021	1.00 x 45°	3,000 N @ 318 rpm	37500 N	-40 to +120
30927	30	40	30	40.00 +0.000/+0.025	30.00 +0.000/-0.021	1.00 x 45°	3,600 N @ 318 rpm	45000 N	-40 to +120
30348	32	38	20	38.00 +0.000/+0.025	32.00 +0.000/-0.025	1.00 x 45°	2,560 N @ 298 rpm	32000 N	-40 to +120
30487	32	38	25	38.00 +0.000/+0.025	32.00 +0.000/-0.025	1.00 x 45°	3,200 N @ 298 rpm	40000 N	-40 to +120

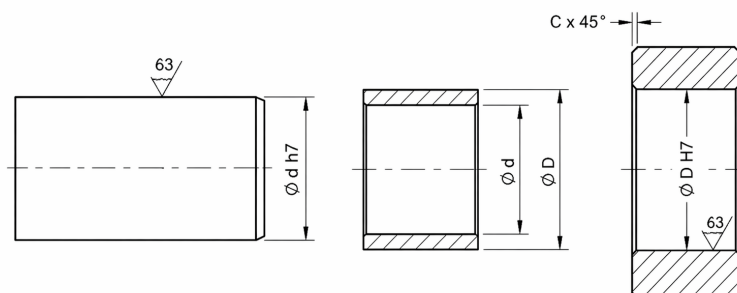
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30150	32	40	20	40.00 +0.000/+0.025	32.00 +0.000/-0.025	1.00 x 45°	2,560 N @ 298 rpm	32000 N	-40 to +120
30139	32	40	25	40.00 +0.000/+0.025	32.00 +0.000/-0.025	1.00 x 45°	3,200 N @ 298 rpm	40000 N	-40 to +120
30587	32	40	30	40.00 +0.000/+0.025	32.00 +0.000/-0.025	1.00 x 45°	3,840 N @ 298 rpm	48000 N	-40 to +120
30380	32	40	32	40.00 +0.000/+0.025	32.00 +0.000/-0.025	1.00 x 45°	4,100 N @ 298 rpm	51200 N	-40 to +120
30387	35	41	25	41.00 +0.000/+0.025	35.00 +0.000/-0.025	1.00 x 45°	3,500 N @ 273 rpm	43750 N	-40 to +120
30635	35	41	35	41.00 +0.000/+0.025	35.00 +0.000/-0.025	1.00 x 45°	4,900 N @ 273 rpm	61250 N	-40 to +120
30688	35	44	28	44.00 +0.000/+0.025	35.00 +0.000/-0.025	1.00 x 45°	3,920 N @ 273 rpm	49000 N	-40 to +120
30246	35	44	35	44.00 +0.000/+0.025	35.00 +0.000/-0.025	1.00 x 45°	4,900 N @ 273 rpm	61250 N	-40 to +120
30406	35	45	25	45.00 +0.000/+0.025	35.00 +0.000/-0.025	1.00 x 45°	3,500 N @ 273 rpm	43750 N	-40 to +120
30458	35	45	30	45.00 +0.000/+0.025	35.00 +0.000/-0.025	1.00 x 45°	4,200 N @ 273 rpm	52500 N	-40 to +120
30294	35	45	35	45.00 +0.000/+0.025	35.00 +0.000/-0.025	1.00 x 45°	4,900 N @ 273 rpm	61250 N	-40 to +120
30044	36	42	22	42.00 +0.000/+0.025	36.00 +0.000/-0.025	1.00 x 45°	3,170 N @ 265 rpm	39600 N	-40 to +120
30543	36	45	25	45.00 +0.000/+0.025	36.00 +0.000/-0.025	1.00 x 45°	3,600 N @ 265 rpm	45000 N	-40 to +120
30772	38	48	35	48.00 +0.000/+0.025	38.00 +0.000/-0.025	1.00 x 45°	5,320 N @ 251 rpm	66500 N	-40 to +120
30765	40	46	25	46.00 +0.000/+0.025	40.00 +0.000/-0.025	1.00 x 45°	4,000 N @ 239 rpm	50000 N	-40 to +120
30679	40	46	30	46.00 +0.000/+0.025	40.00 +0.000/-0.025	1.00 x 45°	4,800 N @ 239 rpm	60000 N	-40 to +120
30325	40	46	40	46.00 +0.000/+0.025	40.00 +0.000/-0.025	1.00 x 45°	6,400 N @ 239 rpm	80000 N	-40 to +120
30300	40	50	25	50.00 +0.000/+0.025	40.00 +0.000/-0.025	1.00 x 45°	4,000 N @ 239 rpm	50000 N	-40 to +120
30620	40	50	30	50.00 +0.000/+0.025	40.00 +0.000/-0.025	1.00 x 45°	4,800 N @ 239 rpm	60000 N	-40 to +120
30226	40	50	35	50.00 +0.000/+0.025	40.00 +0.000/-0.025	1.00 x 45°	5,600 N @ 239 rpm	70000 N	-40 to +120
30872	40	50	40	50.00 +0.000/+0.025	40.00 +0.000/-0.025	1.00 x 45°	6,400 N @ 239 rpm	80000 N	-40 to +120
30240	45	55	35	55.00 +0.000/+0.030	45.00 +0.000/-0.025	1.00 x 45°	6,300 N @ 212 rpm	78750 N	-40 to +120
30080	45	55	45	55.00 +0.000/+0.030	45.00 +0.000/-0.025	1.00 x 45°	8,100 N @ 212 rpm	101200 N	-40 to +120
30744	50	60	40	60.00 +0.000/+0.030	50.00 +0.000/-0.025	1.00 x 45°	8,000 N @ 191 rpm	100000 N	-40 to +120
30568	50	60	50	60.00 +0.000/+0.030	50.00 +0.000/-0.025	1.00 x 45°	10,000 N @ 191 rpm	125000 N	-40 to +120

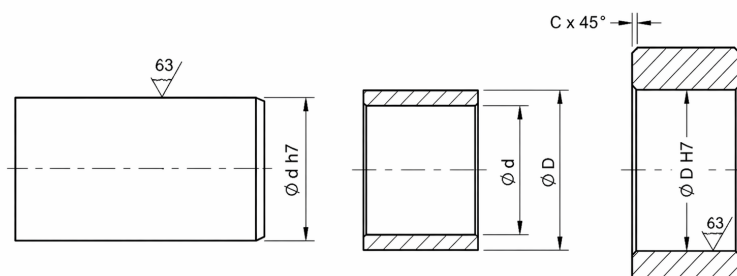
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30220	50	58	25	58.00 +0.000/+0.030	50.00 +0.000/-0.025	1.00 x 45°	5,000 N @ 191 rpm	62500 N	-40 to +120
30059	50	58	38	58.00 +0.000/+0.030	50.00 +0.000/-0.025	1.00 x 45°	7,600 N @ 191 rpm	95000 N	-40 to +120
30180	50	58	50	58.00 +0.000/+0.030	50.00 +0.000/-0.025	1.00 x 45°	10,000 N @ 191 rpm	125000 N	-40 to +120
30612	50.8	58.8	25	58.80 +0.000/+0.030	50.80 +0.000/-0.030	1.00 x 45°	5,080 N @ 188 rpm	63500 N	-40 to +120
30419	50.8	58.8	38	58.80 +0.000/+0.030	50.80 +0.000/-0.030	1.00 x 45°	7,720 N @ 188 rpm	96520 N	-40 to +120
30825	50.8	58.8	50.8	58.80 +0.000/+0.030	50.80 +0.000/-0.030	1.00 x 45°	10,320 N @ 188 rpm	129000 N	-40 to +120
30301	52	60	25	60.00 +0.000/+0.030	52.00 +0.000/-0.030	1.00 x 45°	5,200 N @ 184 rpm	65000 N	-40 to +120
30524	52	60	38	60.00 +0.000/+0.030	52.00 +0.000/-0.030	1.00 x 45°	7,900 N @ 184 rpm	98800 N	-40 to +120
30076	52	60	52	60.00 +0.000/+0.030	52.00 +0.000/-0.030	1.00 x 45°	10,820 N @ 184 rpm	135200 N	-40 to +120
30751	54	62	28	62.00 +0.000/+0.030	54.00 +0.000/-0.030	1.00 x 45°	6,050 N @ 177 rpm	75600 N	-40 to +120
30469	54	62	40	62.00 +0.000/+0.030	54.00 +0.000/-0.030	1.00 x 45°	8,640 N @ 177 rpm	108000 N	-40 to +120
30728	54	62	54	62.00 +0.000/+0.030	54.00 +0.000/-0.030	1.00 x 45°	11,660 N @ 177 rpm	145800 N	-40 to +120
30689	55	63	28	63.00 +0.000/+0.030	55.00 +0.000/-0.030	1.00 x 45°	6,160 N @ 174 rpm	77000 N	-40 to +120
30390	55	63	40	63.00 +0.000/+0.030	55.00 +0.000/-0.030	1.00 x 45°	8,800 N @ 174 rpm	110000 N	-40 to +120
30676	55	63	55	63.00 +0.000/+0.030	55.00 +0.000/-0.030	1.00 x 45°	12,100 N @ 174 rpm	151200 N	-40 to +120
30299	56	64	28	64.00 +0.000/+0.030	56.00 +0.000/-0.030	1.00 x 45°	6,270 N @ 171 rpm	78400 N	-40 to +120
30456	56	64	40	64.00 +0.000/+0.030	56.00 +0.000/-0.030	1.00 x 45°	8,960 N @ 171 rpm	112000 N	-40 to +120
30881	56	64	56	64.00 +0.000/+0.030	56.00 +0.000/-0.030	1.00 x 45°	12,540 N @ 171 rpm	156800 N	-40 to +120
30326	59	69	30	69.00 +0.000/+0.030	59.00 +0.000/-0.030	1.00 x 45°	7,080 N @ 162 rpm	88500 N	-40 to +120
30350	59	69	45	69.00 +0.000/+0.030	59.00 +0.000/-0.030	1.00 x 45°	10,620 N @ 162 rpm	132800 N	-40 to +120
30090	59	69	59	69.00 +0.000/+0.030	59.00 +0.000/-0.030	1.00 x 45°	13,920 N @ 162 rpm	174000 N	-40 to +120
30478	60	70	30	70.00 +0.000/+0.030	60.00 +0.000/-0.030	1.00 x 45°	7,200 N @ 159 rpm	90000 N	-40 to +120
30340	60	70	45	70.00 +0.000/+0.030	60.00 +0.000/-0.030	1.00 x 45°	10,800 N @ 159 rpm	135000 N	-40 to +120
30172	60	70	60	70.00 +0.000/+0.030	60.00 +0.000/-0.030	1.00 x 45°	14,400 N @ 159 rpm	180000 N	-40 to +120
30519	63	73	32	73.00 +0.000/+0.030	63.00 +0.000/-0.030	1.00 x 45°	8,060 N @ 152 rpm	100800 N	-40 to +120

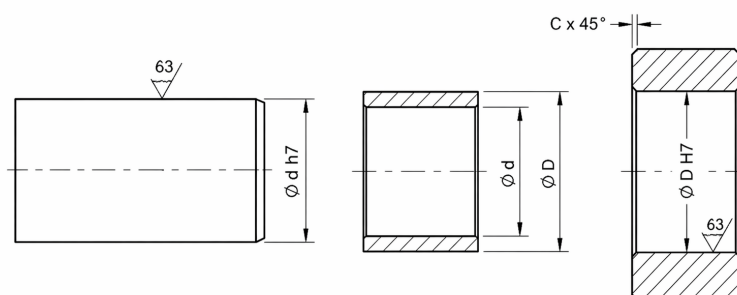
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30506	63	73	50	73.00 +0.000/+0.030	63.00 +0.000/-0.030	1.00 x 45°	12,600 N @ 152 rpm	157500 N	-40 to +120
30204	63	73	63	73.00 +0.000/+0.030	63.00 +0.000/-0.030	1.00 x 45°	15,880 N @ 152 rpm	198400 N	-40 to +120
30710	63.5	73.5	32	73.50 +0.000/+0.030	63.50 +0.000/-0.030	1.00 x 45°	8,130 N @ 150 rpm	101600 N	-40 to +120
30005	63.5	73.5	50	73.50 +0.000/+0.030	63.50 +0.000/-0.030	1.00 x 45°	12,700 N @ 150 rpm	158800 N	-40 to +120
30207	63.5	73.5	63.5	73.50 +0.000/+0.030	63.50 +0.000/-0.030	1.00 x 45°	16,130 N @ 150 rpm	201600 N	-40 to +120
30129	65	75	32	75.00 +0.000/+0.030	65.00 +0.000/-0.030	1.00 x 45°	8,320 N @ 147 rpm	104000 N	-40 to +120
30646	65	75	50	75.00 +0.000/+0.030	65.00 +0.000/-0.030	1.00 x 45°	13,000 N @ 147 rpm	162500 N	-40 to +120
30347	65	75	65	75.00 +0.000/+0.030	65.00 +0.000/-0.030	1.00 x 45°	16,900 N @ 147 rpm	211200 N	-40 to +120
30096	67	77	35	77.00 +0.000/+0.030	67.00 +0.000/-0.030	1.00 x 45°	9,380 N @ 143 rpm	117200 N	-40 to +120
30371	67	77	50	77.00 +0.000/+0.030	67.00 +0.000/-0.030	1.00 x 45°	13,400 N @ 143 rpm	167500 N	-40 to +120
30616	67	77	67	77.00 +0.000/+0.030	67.00 +0.000/-0.030	1.00 x 45°	17,960 N @ 143 rpm	224400 N	-40 to +120
30697	69	79	35	79.00 +0.000/+0.030	69.00 +0.000/-0.030	1.00 x 45°	9,660 N @ 138 rpm	120800 N	-40 to +120
30637	69	79	50	79.00 +0.000/+0.030	69.00 +0.000/-0.030	1.00 x 45°	13,800 N @ 138 rpm	172500 N	-40 to +120
30729	69	79	69	79.00 +0.000/+0.030	69.00 +0.000/-0.030	1.00 x 45°	19,040 N @ 138 rpm	238000 N	-40 to +120
30026	70	80	35	80.00 +0.000/+0.030	70.00 +0.000/-0.030	1.00 x 45°	9,800 N @ 136 rpm	122500 N	-40 to +120
30727	70	80	55	80.00 +0.000/+0.030	70.00 +0.000/-0.030	1.00 x 45°	15,400 N @ 136 rpm	192500 N	-40 to +120
30401	70	80	70	80.00 +0.000/+0.030	70.00 +0.000/-0.030	1.00 x 45°	19,600 N @ 136 rpm	245000 N	-40 to +120
30551	72	82	35	82.00 +0.000/+0.035	72.00 +0.000/-0.030	1.00 x 45°	10,080 N @ 133 rpm	126000 N	-40 to +120
30931	72	82	55	82.00 +0.000/+0.035	72.00 +0.000/-0.030	1.00 x 45°	15,840 N @ 133 rpm	198000 N	-40 to +120
30542	72	82	72	82.00 +0.000/+0.035	72.00 +0.000/-0.030	1.00 x 45°	20,740 N @ 133 rpm	259200 N	-40 to +120
30472	73	83	38	83.00 +0.000/+0.035	73.00 +0.000/-0.030	1.00 x 45°	11,100 N @ 131 rpm	138700 N	-40 to +120
30879	73	83	55	83.00 +0.000/+0.035	73.00 +0.000/-0.030	1.00 x 45°	16,060 N @ 131 rpm	200800 N	-40 to +120
30147	73	83	73	83.00 +0.000/+0.035	73.00 +0.000/-0.030	1.00 x 45°	21,320 N @ 131 rpm	266400 N	-40 to +120
30489	75	85	38	85.00 +0.000/+0.035	75.00 +0.000/-0.030	1.00 x 45°	11,400 N @ 127 rpm	142500 N	-40 to +120
30686	75	85	55	85.00 +0.000/+0.035	75.00 +0.000/-0.030	1.00 x 45°	16,500 N @ 127 rpm	206200 N	-40 to +120

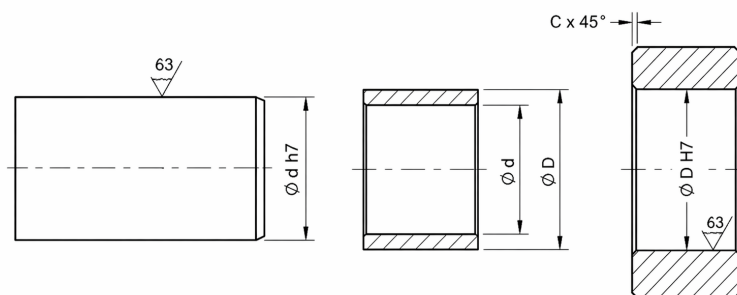
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30577	75	85	75	85.00 +0.000/+0.035	75.00 +0.000/-0.030	1.00 x 45°	22,500 N @ 127 rpm	281200 N	-40 to +120
30742	78	88	38	88.00 +0.000/+0.035	78.00 +0.000/-0.030	1.00 x 45°	11,860 N @ 122 rpm	148200 N	-40 to +120
30145	78	88	60	88.00 +0.000/+0.035	78.00 +0.000/-0.030	1.00 x 45°	18,720 N @ 122 rpm	234000 N	-40 to +120
30999	78	88	78	88.00 +0.000/+0.035	78.00 +0.000/-0.030	1.00 x 45°	24,340 N @ 122 rpm	304200 N	-40 to +120
30369	80	90	40	90.00 +0.000/+0.035	80.00 +0.000/-0.030	1.00 x 45°	12,800 N @ 119 rpm	160000 N	-40 to +120
30018	80	90	60	90.00 +0.000/+0.035	80.00 +0.000/-0.030	1.00 x 45°	19,200 N @ 119 rpm	240000 N	-40 to +120
30187	80	90	80	90.00 +0.000/+0.035	80.00 +0.000/-0.030	1.00 x 45°	25,600 N @ 119 rpm	320000 N	-40 to +120
30515	83	95	40	95.00 +0.000/+0.035	83.00 +0.000/-0.035	1.50 x 45°	13,280 N @ 115 rpm	166000 N	-40 to +120
30976	83	95	65	95.00 +0.000/+0.035	83.00 +0.000/-0.035	1.50 x 45°	21,580 N @ 115 rpm	269800 N	-40 to +120
30535	83	95	83	95.00 +0.000/+0.035	83.00 +0.000/-0.035	1.50 x 45°	27,560 N @ 115 rpm	344400 N	-40 to +120
30777	85	97	45	97.00 +0.000/+0.035	85.00 +0.000/-0.035	1.50 x 45°	15,300 N @ 112 rpm	191200 N	-40 to +120
30609	85	97	65	97.00 +0.000/+0.035	85.00 +0.000/-0.035	1.50 x 45°	22,100 N @ 112 rpm	276200 N	-40 to +120
30084	85	97	85	97.00 +0.000/+0.035	85.00 +0.000/-0.035	1.50 x 45°	28,900 N @ 112 rpm	361200 N	-40 to +120
30233	89	101	45	101.00 +0.000/+0.035	89.00 +0.000/-0.035	1.50 x 45°	16,020 N @ 107 rpm	200200 N	-40 to +120
30218	89	101	65	101.00 +0.000/+0.035	89.00 +0.000/-0.035	1.50 x 45°	23,140 N @ 107 rpm	289200 N	-40 to +120
30974	89	101	89	101.00 +0.000/+0.035	89.00 +0.000/-0.035	1.50 x 45°	31,680 N @ 107 rpm	396000 N	-40 to +120
30871	90	102	45	102.00 +0.000/+0.035	90.00 +0.000/-0.035	1.50 x 45°	16,200 N @ 106 rpm	202500 N	-40 to +120
30160	90	102	70	102.00 +0.000/+0.035	90.00 +0.000/-0.035	1.50 x 45°	25,200 N @ 106 rpm	315000 N	-40 to +120
30743	90	102	90	102.00 +0.000/+0.035	90.00 +0.000/-0.035	1.50 x 45°	32,400 N @ 106 rpm	405000 N	-40 to +120
30091	92	104	45	104.00 +0.000/+0.035	92.00 +0.000/-0.035	1.50 x 45°	16,560 N @ 104 rpm	207000 N	-40 to +120
30838	92	104	70	104.00 +0.000/+0.035	92.00 +0.000/-0.035	1.50 x 45°	25,760 N @ 104 rpm	322000 N	-40 to +120
30274	92	104	92	104.00 +0.000/+0.035	92.00 +0.000/-0.035	1.50 x 45°	33,860 N @ 104 rpm	423200 N	-40 to +120
30095	95	107	50	107.00 +0.000/+0.035	95.00 +0.000/-0.035	1.50 x 45°	19,000 N @ 101 rpm	237500 N	-40 to +120
30566	95	107	70	107.00 +0.000/+0.035	95.00 +0.000/-0.035	1.50 x 45°	26,600 N @ 101 rpm	332500 N	-40 to +120
30118	95	107	95	107.00 +0.000/+0.035	95.00 +0.000/-0.035	1.50 x 45°	36,100 N @ 101 rpm	451200 N	-40 to +120

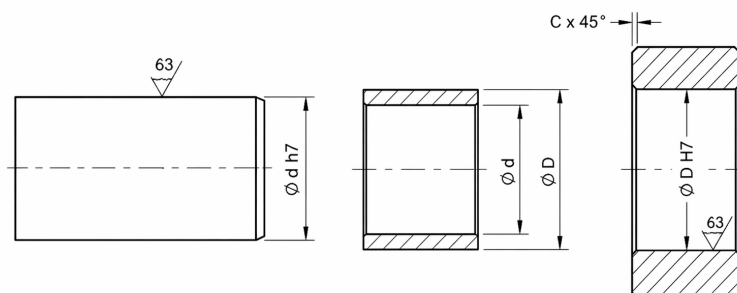
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30657	100	112	50	112.00 +0.000/+0.035	100.00 +0.000/-0.035	1.50 x 45°	20,000 N @ 95 rpm	250000 N	-40 to +120
30722	100	112	75	112.00 +0.000/+0.035	100.00 +0.000/-0.035	1.50 x 45°	30,000 N @ 95 rpm	375000 N	-40 to +120
30120	100	112	100	112.00 +0.000/+0.035	100.00 +0.000/-0.035	1.50 x 45°	40,000 N @ 95 rpm	500000 N	-40 to +120
30518	105	117	55	117.00 +0.000/+0.035	105.00 +0.000/-0.035	1.50 x 45°	23,100 N @ 91 rpm	288800 N	-40 to +120
30936	105	117	80	117.00 +0.000/+0.035	105.00 +0.000/-0.035	1.50 x 45°	33,600 N @ 91 rpm	420000 N	-40 to +120
30608	105	117	105	117.00 +0.000/+0.035	105.00 +0.000/-0.035	1.50 x 45°	44,100 N @ 91 rpm	551200 N	-40 to +120
30857	110	122	55	122.00 +0.000/+0.040	110.00 +0.000/-0.035	1.50 x 45°	24,200 N @ 87 rpm	302500 N	-40 to +120
30378	110	122	85	122.00 +0.000/+0.040	110.00 +0.000/-0.035	1.50 x 45°	37,400 N @ 87 rpm	467500 N	-40 to +120
30590	110	122	110	122.00 +0.000/+0.040	110.00 +0.000/-0.035	1.50 x 45°	48,400 N @ 87 rpm	605000 N	-40 to +120
30659	115	130	60	130.00 +0.000/+0.040	115.00 +0.000/-0.035	1.50 x 45°	27,600 N @ 83 rpm	345000 N	-40 to +120
30642	115	130	85	130.00 +0.000/+0.040	115.00 +0.000/-0.035	1.50 x 45°	39,100 N @ 83 rpm	488800 N	-40 to +120
30771	115	130	115	130.00 +0.000/+0.040	115.00 +0.000/-0.035	1.50 x 45°	52,900 N @ 83 rpm	661200 N	-40 to +120
30753	120	135	60	135.00 +0.000/+0.040	120.00 +0.000/-0.035	1.50 x 45°	28,800 N @ 80 rpm	360000 N	-40 to +120
30412	120	135	90	135.00 +0.000/+0.040	120.00 +0.000/-0.035	1.50 x 45°	43,200 N @ 80 rpm	540000 N	-40 to +120
30849	120	135	120	135.00 +0.000/+0.040	120.00 +0.000/-0.035	1.50 x 45°	57,600 N @ 80 rpm	720000 N	-40 to +120
30851	125	140	65	140.00 +0.000/+0.040	125.00 +0.000/-0.040	1.50 x 45°	32,500 N @ 76 rpm	406200 N	-40 to +120
30411	125	140	95	140.00 +0.000/+0.040	125.00 +0.000/-0.040	1.50 x 45°	47,500 N @ 76 rpm	593800 N	-40 to +120
30278	125	140	125	140.00 +0.000/+0.040	125.00 +0.000/-0.040	1.50 x 45°	62,500 N @ 76 rpm	781200 N	-40 to +120
30600	127	142	65	142.00 +0.000/+0.040	127.00 +0.000/-0.040	1.50 x 45°	33,020 N @ 75 rpm	412800 N	-40 to +120
30517	127	142	95	142.00 +0.000/+0.040	127.00 +0.000/-0.040	1.50 x 45°	48,260 N @ 75 rpm	603200 N	-40 to +120
30696	127	142	127	142.00 +0.000/+0.040	127.00 +0.000/-0.040	1.50 x 45°	64,520 N @ 75 rpm	806400 N	-40 to +120
30527	130	145	65	145.00 +0.000/+0.040	130.00 +0.000/-0.040	1.50 x 45°	33,800 N @ 73 rpm	422500 N	-40 to +120
30217	130	145	100	145.00 +0.000/+0.040	130.00 +0.000/-0.040	1.50 x 45°	52,000 N @ 73 rpm	650000 N	-40 to +120
30439	130	145	130	145.00 +0.000/+0.040	130.00 +0.000/-0.040	1.50 x 45°	67,600 N @ 73 rpm	845000 N	-40 to +120
30790	132	147	65	147.00 +0.000/+0.040	132.00 +0.000/-0.040	1.50 x 45°	34,320 N @ 72 rpm	429000 N	-40 to +120

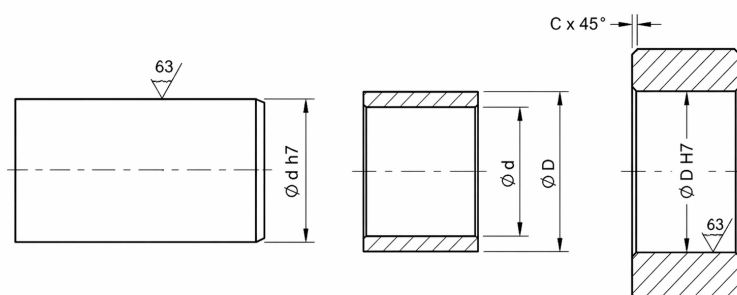
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30492	132	147	100	147.00 +0.000/+0.040	132.00 +0.000/-0.040	1.50 x 45°	52,800 N @ 72 rpm	660000 N	-40 to +120
30260	132	147	132	147.00 +0.000/+0.040	132.00 +0.000/-0.040	1.50 x 45°	69,700 N @ 72 rpm	871200 N	-40 to +120
30181	135	150	70	150.00 +0.000/+0.040	135.00 +0.000/-0.040	1.50 x 45°	37,800 N @ 71 rpm	472500 N	-40 to +120
30143	135	150	100	150.00 +0.000/+0.040	135.00 +0.000/-0.040	1.50 x 45°	54,000 N @ 71 rpm	675000 N	-40 to +120
30146	135	150	135	150.00 +0.000/+0.040	135.00 +0.000/-0.040	1.50 x 45°	72,900 N @ 71 rpm	911200 N	-40 to +120
30011	137	152	70	152.00 +0.000/+0.040	137.00 +0.000/-0.040	1.50 x 45°	38,360 N @ 70 rpm	479500 N	-40 to +120
30854	137	152	105	152.00 +0.000/+0.040	137.00 +0.000/-0.040	1.50 x 45°	57,540 N @ 70 rpm	719200 N	-40 to +120
30170	137	152	137	152.00 +0.000/+0.040	137.00 +0.000/-0.040	1.50 x 45°	75,080 N @ 70 rpm	938400 N	-40 to +120
30125	138	153	70	153.00 +0.000/+0.040	138.00 +0.000/-0.040	1.50 x 45°	38,640 N @ 69 rpm	483000 N	-40 to +120
30238	138	153	105	153.00 +0.000/+0.040	138.00 +0.000/-0.040	1.50 x 45°	57,960 N @ 69 rpm	724500 N	-40 to +120
30042	138	153	138	153.00 +0.000/+0.040	138.00 +0.000/-0.040	1.50 x 45°	76,180 N @ 69 rpm	952200 N	-40 to +120
30364	140	155	70	155.00 +0.000/+0.040	140.00 +0.000/-0.040	1.50 x 45°	39,200 N @ 68 rpm	490000 N	-40 to +120
30633	140	155	105	155.00 +0.000/+0.040	140.00 +0.000/-0.040	1.50 x 45°	58,800 N @ 68 rpm	735000 N	-40 to +120
30596	140	155	140	155.00 +0.000/+0.040	140.00 +0.000/-0.040	1.50 x 45°	78,400 N @ 68 rpm	980000 N	-40 to +120
30951	145	160	75	160.00 +0.000/+0.040	145.00 +0.000/-0.040	1.50 x 45°	43,500 N @ 66 rpm	543800 N	-40 to +120
30065	145	160	110	160.00 +0.000/+0.040	145.00 +0.000/-0.040	1.50 x 45°	63,800 N @ 66 rpm	797500 N	-40 to +120
30100	145	160	145	160.00 +0.000/+0.040	145.00 +0.000/-0.040	1.50 x 45°	84,100 N @ 66 rpm	1051200 N	-40 to +120
30104	150	170	75	170.00 +0.000/+0.040	150.00 +0.000/-0.040	2.00 x 45°	45,000 N @ 64 rpm	562500 N	-40 to +120
30446	150	170	115	170.00 +0.000/+0.040	150.00 +0.000/-0.040	2.00 x 45°	69,000 N @ 64 rpm	862500 N	-40 to +120
30313	150	170	150	170.00 +0.000/+0.040	150.00 +0.000/-0.040	2.00 x 45°	90,000 N @ 64 rpm	1125000 N	-40 to +120
30482	153	173	75	173.00 +0.000/+0.040	153.00 +0.000/-0.040	2.00 x 45°	45,900 N @ 62 rpm	573800 N	-40 to +120
30582	153	173	115	173.00 +0.000/+0.040	153.00 +0.000/-0.040	2.00 x 45°	70,380 N @ 62 rpm	879800 N	-40 to +120
30203	153	173	153	173.00 +0.000/+0.040	153.00 +0.000/-0.040	2.00 x 45°	93,640 N @ 62 rpm	1170400 N	-40 to +120
30185	155	175	80	175.00 +0.000/+0.040	155.00 +0.000/-0.040	2.00 x 45°	49,600 N @ 62 rpm	620000 N	-40 to +120
30832	155	175	115	175.00 +0.000/+0.040	155.00 +0.000/-0.040	2.00 x 45°	71,300 N @ 62 rpm	891200 N	-40 to +120

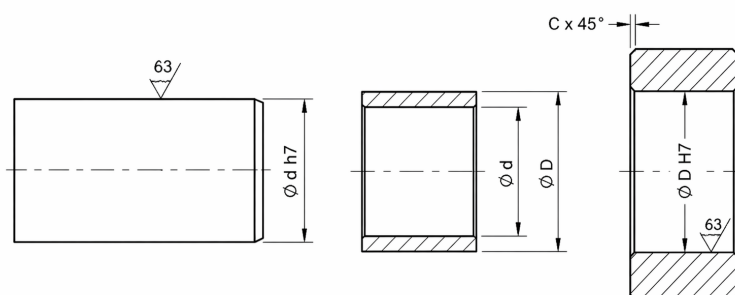
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30212	155	175	155	175.00 +0.000/+0.040	155.00 +0.000/-0.040	2.00 x 45°	96,100 N @ 62 rpm	1201200 N	-40 to +120
30530	160	180	80	180.00 +0.000/+0.040	160.00 +0.000/-0.040	2.00 x 45°	51,200 N @ 60 rpm	640000 N	-40 to +120
30817	160	180	120	180.00 +0.000/+0.040	160.00 +0.000/-0.040	2.00 x 45°	76,800 N @ 60 rpm	960000 N	-40 to +120
30008	160	180	160	180.00 +0.000/+0.040	160.00 +0.000/-0.040	2.00 x 45°	102,400 N @ 60 rpm	1280000 N	-40 to +120
30795	165	185	85	185.00 +0.000/+0.046	165.00 +0.000/-0.040	2.00 x 45°	56,100 N @ 58 rpm	701200 N	-40 to +120
30967	165	185	125	185.00 +0.000/+0.046	165.00 +0.000/-0.040	2.00 x 45°	82,500 N @ 58 rpm	1031200 N	-40 to +120
30116	165	185	165	185.00 +0.000/+0.046	165.00 +0.000/-0.040	2.00 x 45°	108,900 N @ 58 rpm	1361200 N	-40 to +120
30619	170	190	85	190.00 +0.000/+0.046	170.00 +0.000/-0.040	2.00 x 45°	57,800 N @ 56 rpm	722500 N	-40 to +120
30131	170	190	130	190.00 +0.000/+0.046	170.00 +0.000/-0.040	2.00 x 45°	88,400 N @ 56 rpm	1105000 N	-40 to +120
30032	170	190	170	190.00 +0.000/+0.046	170.00 +0.000/-0.040	2.00 x 45°	115,600 N @ 56 rpm	1445000 N	-40 to +120
30337	173	193	85	193.00 +0.000/+0.046	173.00 +0.000/-0.040	2.00 x 45°	58,820 N @ 55 rpm	735200 N	-40 to +120
30322	173	193	130	193.00 +0.000/+0.046	173.00 +0.000/-0.040	2.00 x 45°	89,960 N @ 55 rpm	1124500 N	-40 to +120
30636	173	193	173	193.00 +0.000/+0.046	173.00 +0.000/-0.040	2.00 x 45°	119,720 N @ 55 rpm	1496400 N	-40 to +120
30319	175	195	90	195.00 +0.000/+0.046	175.00 +0.000/-0.040	2.00 x 45°	63,000 N @ 55 rpm	787500 N	-40 to +120
30261	175	195	130	195.00 +0.000/+0.046	175.00 +0.000/-0.040	2.00 x 45°	91,000 N @ 55 rpm	1137500 N	-40 to +120
30929	175	195	175	195.00 +0.000/+0.046	175.00 +0.000/-0.040	2.00 x 45°	122,500 N @ 55 rpm	1531200 N	-40 to +120
30471	180	200	90	200.00 +0.000/+0.046	180.00 +0.000/-0.040	2.00 x 45°	64,800 N @ 53 rpm	810000 N	-40 to +120
30392	180	200	135	200.00 +0.000/+0.046	180.00 +0.000/-0.040	2.00 x 45°	97,200 N @ 53 rpm	1215000 N	-40 to +120
30652	180	200	180	200.00 +0.000/+0.046	180.00 +0.000/-0.040	2.00 x 45°	129,600 N @ 53 rpm	1620000 N	-40 to +120
30978	185	205	95	205.00 +0.000/+0.046	185.00 +0.000/-0.046	2.00 x 45°	70,300 N @ 52 rpm	878800 N	-40 to +120
30752	185	205	140	205.00 +0.000/+0.046	185.00 +0.000/-0.046	2.00 x 45°	103,600 N @ 52 rpm	1295000 N	-40 to +120
30019	185	205	185	205.00 +0.000/+0.046	185.00 +0.000/-0.046	2.00 x 45°	136,900 N @ 52 rpm	1711200 N	-40 to +120
30836	190	210	95	210.00 +0.000/+0.046	190.00 +0.000/-0.046	2.00 x 45°	72,200 N @ 50 rpm	902500 N	-40 to +120
30947	190	210	145	210.00 +0.000/+0.046	190.00 +0.000/-0.046	2.00 x 45°	110,200 N @ 50 rpm	1377500 N	-40 to +120
30046	190	210	190	210.00 +0.000/+0.046	190.00 +0.000/-0.046	2.00 x 45°	144,400 N @ 50 rpm	1805000 N	-40 to +120

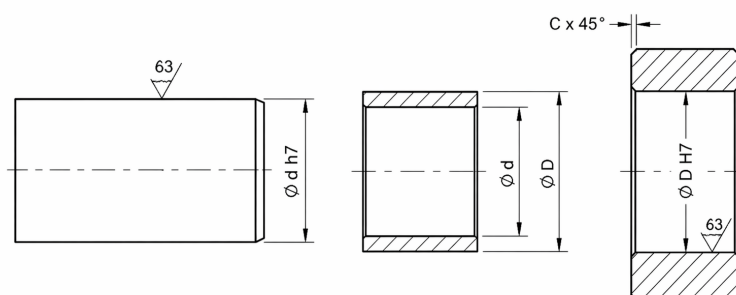
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30548	195	215	100	215.00 +0.000/+0.046	195.00 +0.000/-0.046	2.00 x 45°	78,000 N @ 49 rpm	975000 N	-40 to +120
30002	195	215	145	215.00 +0.000/+0.046	195.00 +0.000/-0.046	2.00 x 45°	113,100 N @ 49 rpm	1413800 N	-40 to +120
30404	195	215	195	215.00 +0.000/+0.046	195.00 +0.000/-0.046	2.00 x 45°	152,100 N @ 49 rpm	1901200 N	-40 to +120
30169	200	220	100	220.00 +0.000/+0.046	200.00 +0.000/-0.046	2.00 x 45°	80,000 N @ 48 rpm	1000000 N	-40 to +120
30998	200	220	150	220.00 +0.000/+0.046	200.00 +0.000/-0.046	2.00 x 45°	120,000 N @ 48 rpm	1500000 N	-40 to +120
30493	200	220	200	220.00 +0.000/+0.046	200.00 +0.000/-0.046	2.00 x 45°	160,000 N @ 48 rpm	2000000 N	-40 to +120
30327	205	225	105	225.00 +0.000/+0.046	205.00 +0.000/-0.046	2.00 x 45°	86,100 N @ 47 rpm	1076200 N	-40 to +120
30715	205	225	155	225.00 +0.000/+0.046	205.00 +0.000/-0.046	2.00 x 45°	127,100 N @ 47 rpm	1588800 N	-40 to +120
30048	205	225	205	225.00 +0.000/+0.046	205.00 +0.000/-0.046	2.00 x 45°	168,100 N @ 47 rpm	2101200 N	-40 to +120
30578	210	230	105	230.00 +0.000/+0.046	210.00 +0.000/-0.046	2.00 x 45°	88,200 N @ 45 rpm	1102500 N	-40 to +120
30321	210	230	160	230.00 +0.000/+0.046	210.00 +0.000/-0.046	2.00 x 45°	134,400 N @ 45 rpm	1680000 N	-40 to +120
30884	210	230	210	230.00 +0.000/+0.046	210.00 +0.000/-0.046	2.00 x 45°	176,400 N @ 45 rpm	2205000 N	-40 to +120
30538	211	231	105	231.00 +0.000/+0.046	211.00 +0.000/-0.046	2.00 x 45°	88,620 N @ 45 rpm	1107800 N	-40 to +120
30602	211	231	160	231.00 +0.000/+0.046	211.00 +0.000/-0.046	2.00 x 45°	135,040 N @ 45 rpm	1688000 N	-40 to +120
30012	211	231	211	231.00 +0.000/+0.046	211.00 +0.000/-0.046	2.00 x 45°	178,080 N @ 45 rpm	2226000 N	-40 to +120
30760	212	232	105	232.00 +0.000/+0.046	212.00 +0.000/-0.046	2.00 x 45°	89,040 N @ 45 rpm	1113000 N	-40 to +120
30239	212	232	160	232.00 +0.000/+0.046	212.00 +0.000/-0.046	2.00 x 45°	135,680 N @ 45 rpm	1696000 N	-40 to +120
30903	212	232	212	232.00 +0.000/+0.046	212.00 +0.000/-0.046	2.00 x 45°	179,780 N @ 45 rpm	2247200 N	-40 to +120
30332	215	235	110	235.00 +0.000/+0.046	215.00 +0.000/-0.046	2.00 x 45°	94,600 N @ 44 rpm	1182500 N	-40 to +120
30164	215	235	160	235.00 +0.000/+0.046	215.00 +0.000/-0.046	2.00 x 45°	137,600 N @ 44 rpm	1720000 N	-40 to +120
30892	215	235	215	235.00 +0.000/+0.046	215.00 +0.000/-0.046	2.00 x 45°	184,900 N @ 44 rpm	2311200 N	-40 to +120
30349	220	245	110	245.00 +0.000/+0.046	220.00 +0.000/-0.046	2.00 x 45°	96,800 N @ 43 rpm	1210000 N	-40 to +120
30544	220	245	165	245.00 +0.000/+0.046	220.00 +0.000/-0.046	2.00 x 45°	145,200 N @ 43 rpm	1815000 N	-40 to +120
30356	220	245	220	245.00 +0.000/+0.046	220.00 +0.000/-0.046	2.00 x 45°	193,600 N @ 43 rpm	2420000 N	-40 to +120
30725	225	250	115	250.00 +0.000/+0.046	225.00 +0.000/-0.046	2.00 x 45°	103,500 N @ 42 rpm	1293800 N	-40 to +120

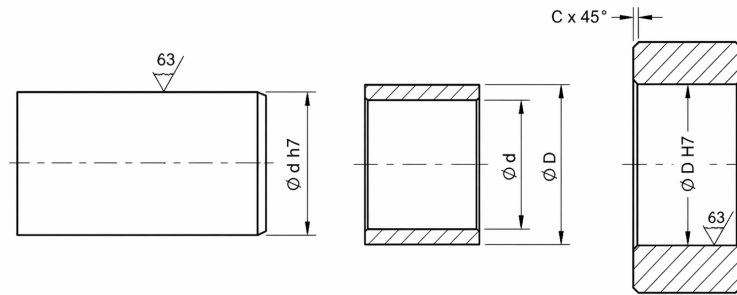
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30693	225	250	170	250.00 +0.000/+0.046	225.00 +0.000/-0.046	2.00 x 45°	153,000 N @ 42 rpm	1912500 N	-40 to +120
30228	225	250	225	250.00 +0.000/+0.046	225.00 +0.000/-0.046	2.00 x 45°	202,500 N @ 42 rpm	2531200 N	-40 to +120
30767	230	255	115	255.00 +0.000/+0.052	230.00 +0.000/-0.046	2.00 x 45°	105,800 N @ 42 rpm	1322500 N	-40 to +120
30893	230	255	175	255.00 +0.000/+0.052	230.00 +0.000/-0.046	2.00 x 45°	161,000 N @ 42 rpm	2012500 N	-40 to +120
30473	230	255	230	255.00 +0.000/+0.052	230.00 +0.000/-0.046	2.00 x 45°	211,600 N @ 42 rpm	2645000 N	-40 to +120
30396	235	260	120	260.00 +0.000/+0.052	235.00 +0.000/-0.046	2.00 x 45°	112,800 N @ 41 rpm	1410000 N	-40 to +120
30534	235	260	175	260.00 +0.000/+0.052	235.00 +0.000/-0.046	2.00 x 45°	164,500 N @ 41 rpm	2056200 N	-40 to +120
30511	235	260	235	260.00 +0.000/+0.052	235.00 +0.000/-0.046	2.00 x 45°	220,900 N @ 41 rpm	2761200 N	-40 to +120
30732	240	265	120	265.00 +0.000/+0.052	240.00 +0.000/-0.046	2.00 x 45°	115,200 N @ 40 rpm	1440000 N	-40 to +120
30583	240	265	180	265.00 +0.000/+0.052	240.00 +0.000/-0.046	2.00 x 45°	172,800 N @ 40 rpm	2160000 N	-40 to +120
30553	240	265	240	265.00 +0.000/+0.052	240.00 +0.000/-0.046	2.00 x 45°	230,400 N @ 40 rpm	2880000 N	-40 to +120
30495	245	270	125	270.00 +0.000/+0.052	245.00 +0.000/-0.046	2.00 x 45°	122,500 N @ 39 rpm	1531200 N	-40 to +120
30061	245	270	185	270.00 +0.000/+0.052	245.00 +0.000/-0.046	2.00 x 45°	181,300 N @ 39 rpm	2266200 N	-40 to +120
30128	245	270	245	270.00 +0.000/+0.052	245.00 +0.000/-0.046	2.00 x 45°	240,100 N @ 39 rpm	3001200 N	-40 to +120
30256	250	275	125	275.00 +0.000/+0.052	250.00 +0.000/-0.046	2.00 x 45°	125,000 N @ 38 rpm	1562500 N	-40 to +120
30243	250	275	190	275.00 +0.000/+0.052	250.00 +0.000/-0.046	2.00 x 45°	190,000 N @ 38 rpm	2375000 N	-40 to +120
30363	250	275	250	275.00 +0.000/+0.052	250.00 +0.000/-0.046	2.00 x 45°	250,000 N @ 38 rpm	3125000 N	-40 to +120
30809	260	285	130	285.00 +0.000/+0.052	260.00 +0.000/-0.052	2.00 x 45°	135,200 N @ 37 rpm	1690000 N	-40 to +120
30268	260	285	195	285.00 +0.000/+0.052	260.00 +0.000/-0.052	2.00 x 45°	202,800 N @ 37 rpm	2535000 N	-40 to +120
30360	260	285	260	285.00 +0.000/+0.052	260.00 +0.000/-0.052	2.00 x 45°	270,400 N @ 37 rpm	3380000 N	-40 to +120
30339	265	290	135	290.00 +0.000/+0.052	265.00 +0.000/-0.052	2.00 x 45°	143,100 N @ 36 rpm	1788800 N	-40 to +120
30345	265	290	200	290.00 +0.000/+0.052	265.00 +0.000/-0.052	2.00 x 45°	212,000 N @ 36 rpm	2650000 N	-40 to +120
30865	265	290	265	290.00 +0.000/+0.052	265.00 +0.000/-0.052	2.00 x 45°	280,900 N @ 36 rpm	3511200 N	-40 to +120
30265	270	295	135	295.00 +0.000/+0.052	270.00 +0.000/-0.052	2.00 x 45°	145,800 N @ 35 rpm	1822500 N	-40 to +120
30525	270	295	205	295.00 +0.000/+0.052	270.00 +0.000/-0.052	2.00 x 45°	221,400 N @ 35 rpm	2767500 N	-40 to +120

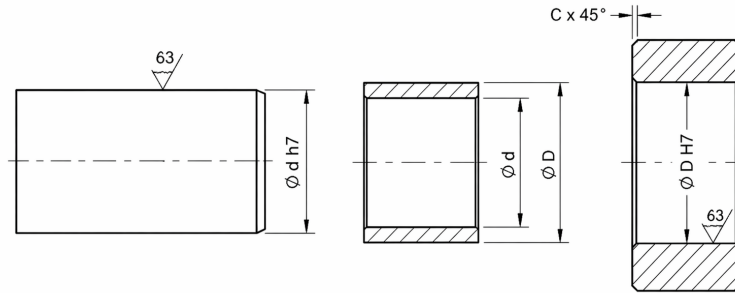
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30490	270	295	270	295.00 +0.000/+0.052	270.00 +0.000/-0.052	2.00 x 45°	291,600 N @ 35 rpm	3645000 N	-40 to +120
30105	275	300	140	300.00 +0.000/+0.052	275.00 +0.000/-0.052	2.00 x 45°	154,000 N @ 35 rpm	1925000 N	-40 to +120
30911	275	300	205	300.00 +0.000/+0.052	275.00 +0.000/-0.052	2.00 x 45°	225,500 N @ 35 rpm	2818800 N	-40 to +120
30839	275	300	275	300.00 +0.000/+0.052	275.00 +0.000/-0.052	2.00 x 45°	302,500 N @ 35 rpm	3781200 N	-40 to +120
30870	280	305	140	305.00 +0.000/+0.052	280.00 +0.000/-0.052	2.00 x 45°	156,800 N @ 34 rpm	1960000 N	-40 to +120
30171	280	305	210	305.00 +0.000/+0.052	280.00 +0.000/-0.052	2.00 x 45°	235,200 N @ 34 rpm	2940000 N	-40 to +120
30443	280	305	280	305.00 +0.000/+0.052	280.00 +0.000/-0.052	2.00 x 45°	313,600 N @ 34 rpm	3920000 N	-40 to +120
30003	285	310	145	310.00 +0.000/+0.052	285.00 +0.000/-0.052	2.00 x 45°	165,300 N @ 34 rpm	2066200 N	-40 to +120
30923	285	310	215	310.00 +0.000/+0.052	285.00 +0.000/-0.052	2.00 x 45°	245,100 N @ 34 rpm	3063800 N	-40 to +120
30034	285	310	285	310.00 +0.000/+0.052	285.00 +0.000/-0.052	2.00 x 45°	324,900 N @ 34 rpm	4061200 N	-40 to +120
30158	290	320	145	320.00 +0.000/+0.057	290.00 +0.000/-0.052	2.50 x 45°	168,200 N @ 33 rpm	2102500 N	-40 to +120
30449	290	320	220	320.00 +0.000/+0.057	290.00 +0.000/-0.052	2.50 x 45°	255,200 N @ 33 rpm	3190000 N	-40 to +120
30816	290	320	290	320.00 +0.000/+0.057	290.00 +0.000/-0.052	2.50 x 45°	336,400 N @ 33 rpm	4205000 N	-40 to +120
30064	295	325	150	325.00 +0.000/+0.057	295.00 +0.000/-0.052	2.50 x 45°	177,000 N @ 32 rpm	2212500 N	-40 to +120
30864	295	325	220	325.00 +0.000/+0.057	295.00 +0.000/-0.052	2.50 x 45°	259,600 N @ 32 rpm	3245000 N	-40 to +120
30560	295	325	295	325.00 +0.000/+0.057	295.00 +0.000/-0.052	2.50 x 45°	348,100 N @ 32 rpm	4351200 N	-40 to +120
30956	300	330	150	330.00 +0.000/+0.057	300.00 +0.000/-0.052	2.50 x 45°	180,000 N @ 32 rpm	2250000 N	-40 to +120
30252	300	330	225	330.00 +0.000/+0.057	300.00 +0.000/-0.052	2.50 x 45°	270,000 N @ 32 rpm	3375000 N	-40 to +120
30750	300	330	300	330.00 +0.000/+0.057	300.00 +0.000/-0.052	2.50 x 45°	360,000 N @ 32 rpm	4500000 N	-40 to +120
30894	310	340	155	340.00 +0.000/+0.057	310.00 +0.000/-0.052	2.50 x 45°	192,200 N @ 31 rpm	2402500 N	-40 to +120
30781	310	340	235	340.00 +0.000/+0.057	310.00 +0.000/-0.052	2.50 x 45°	291,400 N @ 31 rpm	3642500 N	-40 to +120
30038	310	340	310	340.00 +0.000/+0.057	310.00 +0.000/-0.052	2.50 x 45°	384,400 N @ 31 rpm	4805000 N	-40 to +120
30352	320	350	160	350.00 +0.000/+0.057	320.00 +0.000/-0.057	2.50 x 45°	204,800 N @ 30 rpm	2560000 N	-40 to +120
30512	320	350	240	350.00 +0.000/+0.057	320.00 +0.000/-0.057	2.50 x 45°	307,200 N @ 30 rpm	3840000 N	-40 to +120
30793	320	350	320	350.00 +0.000/+0.057	320.00 +0.000/-0.057	2.50 x 45°	409,600 N @ 30 rpm	5120000 N	-40 to +120

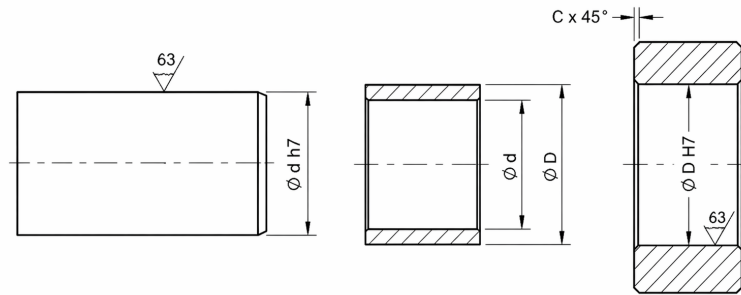
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30840	330	360	165	360.00 +0.000/+0.057	330.00 +0.000/-0.057	2.50 x 45°	217,800 N @ 29 rpm	2722500 N	-40 to +120
30135	330	360	250	360.00 +0.000/+0.057	330.00 +0.000/-0.057	2.50 x 45°	330,000 N @ 29 rpm	4125000 N	-40 to +120
30716	330	360	330	360.00 +0.000/+0.057	330.00 +0.000/-0.057	2.50 x 45°	435,600 N @ 29 rpm	5445000 N	-40 to +120
30919	340	370	170	370.00 +0.000/+0.057	340.00 +0.000/-0.057	2.50 x 45°	231,200 N @ 28 rpm	2890000 N	-40 to +120
30804	340	370	255	370.00 +0.000/+0.057	340.00 +0.000/-0.057	2.50 x 45°	346,800 N @ 28 rpm	4335000 N	-40 to +120
30934	340	370	340	370.00 +0.000/+0.057	340.00 +0.000/-0.057	2.50 x 45°	462,400 N @ 28 rpm	5780000 N	-40 to +120
30219	350	385	175	385.00 +0.000/+0.057	350.00 +0.000/-0.057	2.50 x 45°	245,000 N @ 27 rpm	3062500 N	-40 to +120
30748	350	385	265	385.00 +0.000/+0.057	350.00 +0.000/-0.057	2.50 x 45°	371,000 N @ 27 rpm	4637500 N	-40 to +120
30014	350	385	350	385.00 +0.000/+0.057	350.00 +0.000/-0.057	2.50 x 45°	490,000 N @ 27 rpm	6125000 N	-40 to +120
30880	360	395	180	395.00 +0.000/+0.057	360.00 +0.000/-0.057	2.50 x 45°	259,200 N @ 27 rpm	3240000 N	-40 to +120
30695	360	395	270	395.00 +0.000/+0.057	360.00 +0.000/-0.057	2.50 x 45°	388,800 N @ 27 rpm	4860000 N	-40 to +120
30335	360	395	360	395.00 +0.000/+0.057	360.00 +0.000/-0.057	2.50 x 45°	518,400 N @ 27 rpm	6480000 N	-40 to +120
30190	365	400	185	400.00 +0.000/+0.057	365.00 +0.000/-0.057	2.50 x 45°	270,100 N @ 26 rpm	3376200 N	-40 to +120
30547	365	400	275	400.00 +0.000/+0.057	365.00 +0.000/-0.057	2.50 x 45°	401,500 N @ 26 rpm	5018800 N	-40 to +120
30351	365	400	365	400.00 +0.000/+0.057	365.00 +0.000/-0.057	2.50 x 45°	532,900 N @ 26 rpm	6661200 N	-40 to +120
30110	370	405	185	405.00 +0.000/+0.063	370.00 +0.000/-0.057	2.50 x 45°	273,800 N @ 26 rpm	3422500 N	-40 to +120
30270	370	405	280	405.00 +0.000/+0.063	370.00 +0.000/-0.057	2.50 x 45°	414,400 N @ 26 rpm	5180000 N	-40 to +120
30595	370	405	370	405.00 +0.000/+0.063	370.00 +0.000/-0.057	2.50 x 45°	547,600 N @ 26 rpm	6845000 N	-40 to +120
30993	375	410	190	410.00 +0.000/+0.063	375.00 +0.000/-0.057	2.50 x 45°	285,000 N @ 25 rpm	3562500 N	-40 to +120
30909	375	410	280	410.00 +0.000/+0.063	375.00 +0.000/-0.057	2.50 x 45°	420,000 N @ 25 rpm	5250000 N	-40 to +120
30140	375	410	375	410.00 +0.000/+0.063	375.00 +0.000/-0.057	2.50 x 45°	562,500 N @ 25 rpm	7031200 N	-40 to +120
30651	380	415	190	415.00 +0.000/+0.063	380.00 +0.000/-0.057	2.50 x 45°	288,800 N @ 25 rpm	3610000 N	-40 to +120
30677	380	415	285	415.00 +0.000/+0.063	380.00 +0.000/-0.057	2.50 x 45°	433,200 N @ 25 rpm	5415000 N	-40 to +120
30533	380	415	380	415.00 +0.000/+0.063	380.00 +0.000/-0.057	2.50 x 45°	577,600 N @ 25 rpm	7220000 N	-40 to +120
30309	390	425	195	425.00 +0.000/+0.063	390.00 +0.000/-0.057	2.50 x 45°	304,200 N @ 24 rpm	3802500 N	-40 to +120

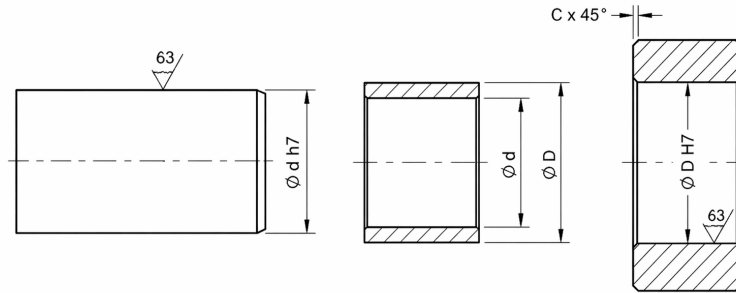
HEAVY DUTY BUSHINGS - METRIC SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	d (mm)	D (mm)	L (mm)	Housing Bore H7	Shaft h7 (mm)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°C]
30625	390	425	295	425.00 +0.000/+0.063	390.00 +0.000/-0.057	2.50 x 45°	460,200 N @ 24 rpm	5752500 N	-40 to +120
30103	390	425	390	425.00 +0.000/+0.063	390.00 +0.000/-0.057	2.50 x 45°	608,400 N @ 24 rpm	7605000 N	-40 to +120
30071	400	435	200	435.00 +0.000/+0.063	400.00 +0.000/-0.057	2.50 x 45°	320,000 N @ 24 rpm	4000000 N	-40 to +120
30668	400	435	300	435.00 +0.000/+0.063	400.00 +0.000/-0.057	2.50 x 45°	480,000 N @ 24 rpm	6000000 N	-40 to +120
30986	400	435	400	435.00 +0.000/+0.063	400.00 +0.000/-0.057	2.50 x 45°	640,000 N @ 24 rpm	8000000 N	-40 to +120

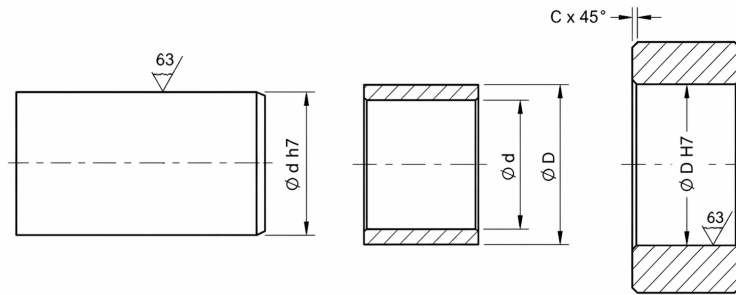
HEAVY DUTY BUSHINGS - INCH SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	ID (in)	OD (in)	L (in)	Housing Bore H7 (in)	Shaft h7 (in)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°F]
30835	0.500	0.750	0.500	0.7500 +0.0000/+0.0008	0.5000 +0.0000/-0.0007	0.040 x 45°	125 lbf @ 764 rpm	1,875 lbf	-40 to +250
30316	0.500	0.750	0.750	0.7500 +0.0000/+0.0008	0.5000 +0.0000/-0.0007	0.040 x 45°	188 lbf @ 764 rpm	2,812 lbf	-40 to +250
30810	0.500	0.750	1.000	0.7500 +0.0000/+0.0008	0.5000 +0.0000/-0.0007	0.040 x 45°	250 lbf @ 764 rpm	3,750 lbf	-40 to +250
30563	0.625	0.875	0.500	0.8750 +0.0000/+0.0008	0.6250 +0.0000/-0.0007	0.040 x 45°	156 lbf @ 611 rpm	2,344 lbf	-40 to +250
30230	0.625	0.875	0.750	0.8750 +0.0000/+0.0008	0.6250 +0.0000/-0.0007	0.040 x 45°	234 lbf @ 611 rpm	3,516 lbf	-40 to +250
30882	0.625	0.875	1.000	0.8750 +0.0000/+0.0008	0.6250 +0.0000/-0.0007	0.040 x 45°	312 lbf @ 611 rpm	4,688 lbf	-40 to +250
30275	0.750	1.000	0.500	1.0000 +0.0000/+0.0008	0.7500 +0.0000/-0.0008	0.040 x 45°	188 lbf @ 509 rpm	2,812 lbf	-40 to +250
30279	0.750	1.000	0.750	1.0000 +0.0000/+0.0008	0.7500 +0.0000/-0.0008	0.040 x 45°	281 lbf @ 509 rpm	4,219 lbf	-40 to +250
30575	0.750	1.000	1.000	1.0000 +0.0000/+0.0008	0.7500 +0.0000/-0.0008	0.040 x 45°	375 lbf @ 509 rpm	5,625 lbf	-40 to +250
30237	0.875	1.125	0.750	1.1250 +0.0000/+0.0008	0.8750 +0.0000/-0.0008	0.040 x 45°	328 lbf @ 437 rpm	4,922 lbf	-40 to +250
30888	0.875	1.125	1.000	1.1250 +0.0000/+0.0008	0.8750 +0.0000/-0.0008	0.040 x 45°	438 lbf @ 437 rpm	6,562 lbf	-40 to +250
30555	0.875	1.125	1.250	1.1250 +0.0000/+0.0008	0.8750 +0.0000/-0.0008	0.040 x 45°	547 lbf @ 437 rpm	8,203 lbf	-40 to +250
30757	1.000	1.250	0.750	1.2500 +0.0000/+0.0010	1.0000 +0.0000/-0.0008	0.040 x 45°	375 lbf @ 382 rpm	5,625 lbf	-40 to +250
30188	1.000	1.250	1.000	1.2500 +0.0000/+0.0010	1.0000 +0.0000/-0.0008	0.040 x 45°	500 lbf @ 382 rpm	7,500 lbf	-40 to +250
30434	1.000	1.250	1.250	1.2500 +0.0000/+0.0010	1.0000 +0.0000/-0.0008	0.040 x 45°	625 lbf @ 382 rpm	9,375 lbf	-40 to +250
30844	1.125	1.375	0.750	1.3750 +0.0000/+0.0010	1.1250 +0.0000/-0.0008	0.040 x 45°	422 lbf @ 340 rpm	6,328 lbf	-40 to +250
30466	1.125	1.375	1.000	1.3750 +0.0000/+0.0010	1.1250 +0.0000/-0.0008	0.040 x 45°	562 lbf @ 340 rpm	8,438 lbf	-40 to +250
30094	1.125	1.375	1.500	1.3750 +0.0000/+0.0010	1.1250 +0.0000/-0.0008	0.040 x 45°	844 lbf @ 340 rpm	12,656 lbf	-40 to +250
30132	1.250	1.500	1.000	1.5000 +0.0000/+0.0010	1.2500 +0.0000/-0.0010	0.040 x 45°	625 lbf @ 306 rpm	9,375 lbf	-40 to +250
30647	1.250	1.500	1.250	1.5000 +0.0000/+0.0010	1.2500 +0.0000/-0.0010	0.040 x 45°	781 lbf @ 306 rpm	11,719 lbf	-40 to +250
30630	1.250	1.500	1.500	1.5000 +0.0000/+0.0010	1.2500 +0.0000/-0.0010	0.040 x 45°	938 lbf @ 306 rpm	14,062 lbf	-40 to +250
30420	1.375	1.625	1.000	1.6250 +0.0000/+0.0010	1.3750 +0.0000/-0.0010	0.040 x 45°	688 lbf @ 278 rpm	10,312 lbf	-40 to +250
30671	1.375	1.625	1.500	1.6250 +0.0000/+0.0010	1.3750 +0.0000/-0.0010	0.040 x 45°	1,031 lbf @ 278 rpm	15,469 lbf	-40 to +250
30784	1.375	1.625	1.750	1.6250 +0.0000/+0.0010	1.3750 +0.0000/-0.0010	0.040 x 45°	1,203 lbf @ 278 rpm	18,047 lbf	-40 to +250
30098	1.500	1.750	1.000	1.7500 +0.0000/+0.0010	1.5000 +0.0000/-0.0010	0.040 x 45°	750 lbf @ 255 rpm	11,250 lbf	-40 to +250

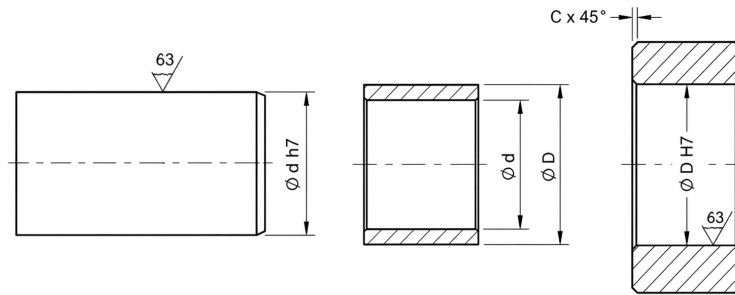
HEAVY DUTY BUSHINGS - INCH SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	ID (in)	OD (in)	L (in)	Housing Bore H7 (in)	Shaft h7 (in)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°F]
30460	1.500	1.750	1.500	1.7500 +0.0000/+0.0010	1.5000 +0.0000/-0.0010	0.040 x 45°	1,125 lbf @ 255 rpm	16,875 lbf	-40 to +250
30163	1.500	1.750	2.000	1.7500 +0.0000/+0.0010	1.5000 +0.0000/-0.0010	0.040 x 45°	1,500 lbf @ 255 rpm	22,500 lbf	-40 to +250
30137	1.500	2.000	1.000	2.0000 +0.0000/+0.0012	1.5000 +0.0000/-0.0010	0.060 x 45°	750 lbf @ 255 rpm	11,250 lbf	-40 to +250
30184	1.500	2.000	1.500	2.0000 +0.0000/+0.0012	1.5000 +0.0000/-0.0010	0.060 x 45°	1,125 lbf @ 255 rpm	16,875 lbf	-40 to +250
30502	1.500	2.000	2.000	2.0000 +0.0000/+0.0012	1.5000 +0.0000/-0.0010	0.060 x 45°	1,500 lbf @ 255 rpm	22,500 lbf	-40 to +250
30759	1.625	1.875	1.250	1.8750 +0.0000/+0.0010	1.6250 +0.0000/-0.0010	0.040 x 45°	1,016 lbf @ 235 rpm	15,234 lbf	-40 to +250
30216	1.625	1.875	1.500	1.8750 +0.0000/+0.0010	1.6250 +0.0000/-0.0010	0.040 x 45°	1,219 lbf @ 235 rpm	18,281 lbf	-40 to +250
30165	1.625	1.875	2.000	1.8750 +0.0000/+0.0010	1.6250 +0.0000/-0.0010	0.040 x 45°	1,625 lbf @ 235 rpm	24,375 lbf	-40 to +250
30549	1.625	2.125	1.250	2.1250 +0.0000/+0.0012	1.6250 +0.0000/-0.0010	0.060 x 45°	1,016 lbf @ 235 rpm	15,234 lbf	-40 to +250
30269	1.625	2.125	1.500	2.1250 +0.0000/+0.0012	1.6250 +0.0000/-0.0010	0.060 x 45°	1,219 lbf @ 235 rpm	18,281 lbf	-40 to +250
30049	1.625	2.125	2.000	2.1250 +0.0000/+0.0012	1.6250 +0.0000/-0.0010	0.060 x 45°	1,625 lbf @ 235 rpm	24,375 lbf	-40 to +250
30701	1.750	2.000	1.250	2.0000 +0.0000/+0.0012	1.7500 +0.0000/-0.0010	0.040 x 45°	1,094 lbf @ 218 rpm	16,406 lbf	-40 to +250
30250	1.750	2.000	1.750	2.0000 +0.0000/+0.0012	1.7500 +0.0000/-0.0010	0.040 x 45°	1,531 lbf @ 218 rpm	22,969 lbf	-40 to +250
30447	1.750	2.000	2.250	2.0000 +0.0000/+0.0012	1.7500 +0.0000/-0.0010	0.040 x 45°	1,969 lbf @ 218 rpm	29,531 lbf	-40 to +250
30183	1.750	2.250	1.250	2.2500 +0.0000/+0.0012	1.7500 +0.0000/-0.0010	0.060 x 45°	1,094 lbf @ 218 rpm	16,406 lbf	-40 to +250
30720	1.750	2.250	1.750	2.2500 +0.0000/+0.0012	1.7500 +0.0000/-0.0010	0.060 x 45°	1,531 lbf @ 218 rpm	22,969 lbf	-40 to +250
30939	1.750	2.250	2.250	2.2500 +0.0000/+0.0012	1.7500 +0.0000/-0.0010	0.060 x 45°	1,969 lbf @ 218 rpm	29,531 lbf	-40 to +250
30336	1.875	2.125	1.500	2.1250 +0.0000/+0.0012	1.8750 +0.0000/-0.0010	0.040 x 45°	1,406 lbf @ 204 rpm	21,094 lbf	-40 to +250
30494	1.875	2.125	2.000	2.1250 +0.0000/+0.0012"	1.8750 +0.0000/-0.0010"	0.040 x 45°	1,875 lbf @ 204 rpm	28,125 lbf	-40 to +250
30634	1.875	2.125	2.250	2.1250 +0.0000/+0.0012	1.8750 +0.0000/-0.0010	0.040 x 45°	2,109 lbf @ 204 rpm	31,641 lbf	-40 to +250
30075	1.875	2.375	1.500	2.3750 +0.0000/+0.0012	1.8750 +0.0000/-0.0010	0.060 x 45°	1,406 lbf @ 204 rpm	21,094 lbf	-40 to +250
30413	1.875	2.375	2.000	2.3750 +0.0000/+0.0012	1.8750 +0.0000/-0.0010	0.060 x 45°	1,875 lbf @ 204 rpm	28,125 lbf	-40 to +250
30850	1.875	2.375	2.250	2.3750 +0.0000/+0.0012	1.8750 +0.0000/-0.0010	0.060 x 45°	2,109 lbf @ 204 rpm	31,641 lbf	-40 to +250
30176	2.000	2.250	1.500	2.2500 +0.0000/+0.0012	2.0000 +0.0000/-0.0012	0.040 x 45°	1,500 lbf @ 191 rpm	22,500 lbf	-40 to +250
30174	2.000	2.250	2.000	2.2500 +0.0000/+0.0012	2.0000 +0.0000/-0.0012	0.040 x 45°	2,000 lbf @ 191 rpm	30,000 lbf	-40 to +250

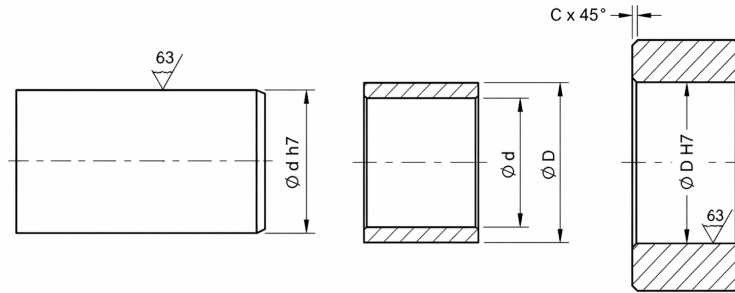
HEAVY DUTY BUSHINGS - INCH SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	ID (in)	OD (in)	L (in)	Housing Bore H7 (in)	Shaft h7 (in)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range (°F)
30191	2.000	2.250	2.500	2.2500 +0.0000/+0.0012	2.0000 +0.0000/-0.0012	0.040 x 45°	2,500 lbf @ 191 rpm	37,500 lbf	-40 to +250
30215	2.000	2.500	1.500	2.5000 +0.0000/+0.0012	2.0000 +0.0000/-0.0012	0.060 x 45°	1,500 lbf @ 191 rpm	22,500 lbf	-40 to +250
30654	2.000	2.500	2.000	2.5000 +0.0000/+0.0012	2.0000 +0.0000/-0.0012	0.060 x 45°	2,000 lbf @ 191 rpm	30,000 lbf	-40 to +250
30745	2.000	2.500	2.500	2.5000 +0.0000/+0.0012	2.0000 +0.0000/-0.0012	0.060 x 45°	2,500 lbf @ 191 rpm	37,500 lbf	-40 to +250
30707	2.125	2.375	1.500	2.3750 +0.0000/+0.0012	2.1250 +0.0000/-0.0012	0.040 x 45°	1,594 lbf @ 180 rpm	23,906 lbf	-40 to +250
30876	2.125	2.375	2.000	2.3750 +0.0000/+0.0012	2.1250 +0.0000/-0.0012	0.040 x 45°	2,125 lbf @ 180 rpm	31,875 lbf	-40 to +250
30516	2.125	2.375	2.750	2.3750 +0.0000/+0.0012	2.1250 +0.0000/-0.0012	0.040 x 45°	2,922 lbf @ 180 rpm	43,828 lbf	-40 to +250
30468	2.125	2.625	1.500	2.6250 +0.0000/+0.0012	2.1250 +0.0000/-0.0012	0.060 x 45°	1,594 lbf @ 180 rpm	23,906 lbf	-40 to +250
30214	2.125	2.625	2.000	2.6250 +0.0000/+0.0012	2.1250 +0.0000/-0.0012	0.060 x 45°	2,125 lbf @ 180 rpm	31,875 lbf	-40 to +250
30681	2.125	2.625	2.750	2.6250 +0.0000/+0.0012	2.1250 +0.0000/-0.0012	0.060 x 45°	2,922 lbf @ 180 rpm	43,828 lbf	-40 to +250
30499	2.250	2.500	1.750	2.5000 +0.0000/+0.0012	2.2500 +0.0000/-0.0012	0.040 x 45°	1,969 lbf @ 170 rpm	29,531 lbf	-40 to +250
30867	2.250	2.500	2.250	2.5000 +0.0000/+0.0012	2.2500 +0.0000/-0.0012	0.040 x 45°	2,531 lbf @ 170 rpm	37,969 lbf	-40 to +250
30692	2.250	2.500	2.750	2.5000 +0.0000/+0.0012	2.2500 +0.0000/-0.0012	0.040 x 45°	3,094 lbf @ 170 rpm	46,406 lbf	-40 to +250
30195	2.250	2.750	1.750	2.7500 +0.0000/+0.0012	2.2500 +0.0000/-0.0012	0.060 x 45°	1,969 lbf @ 170 rpm	29,531 lbf	-40 to +250
30593	2.250	2.750	2.250	2.7500 +0.0000/+0.0012	2.2500 +0.0000/-0.0012	0.060 x 45°	2,531 lbf @ 170 rpm	37,969 lbf	-40 to +250
30142	2.250	2.750	2.750	2.7500 +0.0000/+0.0012	2.2500 +0.0000/-0.0012	0.060 x 45°	3,094 lbf @ 170 rpm	46,406 lbf	-40 to +250
30056	2.375	2.625	1.750	2.6250 +0.0000/+0.0012	2.3750 +0.0000/-0.0012	0.040 x 45°	2,078 lbf @ 161 rpm	31,172 lbf	-40 to +250
30355	2.375	2.625	2.500	2.6250 +0.0000/+0.0012	2.3750 +0.0000/-0.0012	0.040 x 45°	2,969 lbf @ 161 rpm	44,531 lbf	-40 to +250
30948	2.375	2.625	3.000	2.6250 +0.0000/+0.0012	2.3750 +0.0000/-0.0012	0.040 x 45°	3,562 lbf @ 161 rpm	53,438 lbf	-40 to +250
30702	2.375	2.875	1.750	2.8750 +0.0000/+0.0012	2.3750 +0.0000/-0.0012	0.060 x 45°	2,078 lbf @ 161 rpm	31,172 lbf	-40 to +250
30762	2.375	2.875	2.500	2.8750 +0.0000/+0.0012	2.3750 +0.0000/-0.0012	0.060 x 45°	2,969 lbf @ 161 rpm	44,531 lbf	-40 to +250
30479	2.375	2.875	3.000	2.8750 +0.0000/+0.0012	2.3750 +0.0000/-0.0012	0.060 x 45°	3,562 lbf @ 161 rpm	53,438 lbf	-40 to +250
30039	2.500	2.750	2.000	2.7500 +0.0000/+0.0012	2.5000 +0.0000/-0.0012	0.040 x 45°	2,500 lbf @ 153 rpm	37,500 lbf	-40 to +250
30997	2.500	2.750	2.500	2.7500 +0.0000/+0.0012	2.5000 +0.0000/-0.0012	0.040 x 45°	3,125 lbf @ 153 rpm	46,875 lbf	-40 to +250
30691	2.500	2.750	3.000	2.7500 +0.0000/+0.0012	2.5000 +0.0000/-0.0012	0.040 x 45°	3,750 lbf @ 153 rpm	56,250 lbf	-40 to +250

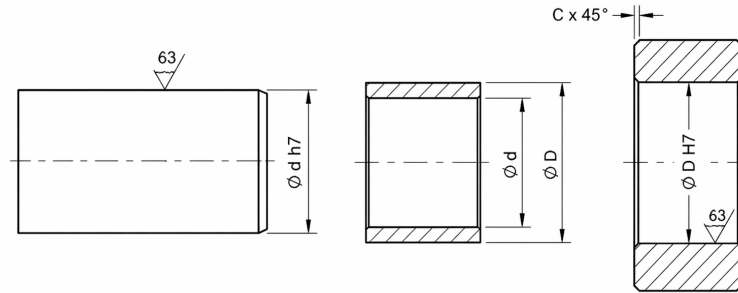
HEAVY DUTY BUSHINGS - INCH SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	ID (in)	OD (in)	L (in)	Housing Bore H7 (in)	Shaft h7 (in)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range (°F)
30958	2.500	3.000	2.000	3.0000 +0.0000/+0.0012	2.5000 +0.0000/-0.0012	0.060 x 45°	2,500 lbf @ 153 rpm	37,500 lbf	-40 to +250
30973	2.500	3.000	2.500	3.0000 +0.0000/+0.0012	2.5000 +0.0000/-0.0012	0.060 x 45°	3,125 lbf @ 153 rpm	46,875 lbf	-40 to +250
30255	2.500	3.000	3.000	3.0000 +0.0000/+0.0012	2.5000 +0.0000/-0.0012	0.060 x 45°	3,750 lbf @ 153 rpm	56,250 lbf	-40 to +250
30901	2.625	3.125	2.000	3.1250 +0.0000/+0.0012	2.6250 +0.0000/-0.0012	0.060 x 45°	2,625 lbf @ 146 rpm	39,375 lbf	-40 to +250
30109	2.625	3.125	2.500	3.1250 +0.0000/+0.0012	2.6250 +0.0000/-0.0012	0.060 x 45°	3,281 lbf @ 146 rpm	49,219 lbf	-40 to +250
30073	2.625	3.125	3.250	3.1250 +0.0000/+0.0012	2.6250 +0.0000/-0.0012	0.060 x 45°	4,266 lbf @ 146 rpm	63,984 lbf	-40 to +250
30093	2.750	3.250	2.000	3.2500 +0.0000/+0.0014	2.7500 +0.0000/-0.0012	0.060 x 45°	2,750 lbf @ 139 rpm	41,250 lbf	-40 to +250
30873	2.750	3.250	2.750	3.2500 +0.0000/+0.0014	2.7500 +0.0000/-0.0012	0.060 x 45°	3,781 lbf @ 139 rpm	56,719 lbf	-40 to +250
30721	2.750	3.250	3.500	3.2500 +0.0000/+0.0014	2.7500 +0.0000/-0.0012	0.060 x 45°	4,812 lbf @ 139 rpm	72,188 lbf	-40 to +250
30324	2.875	3.375	2.250	3.3750 +0.0000/+0.0014	2.8750 +0.0000/-0.0012	0.060 x 45°	3,234 lbf @ 133 rpm	48,516 lbf	-40 to +250
30397	2.875	3.375	3.000	3.3750 +0.0000/+0.0014	2.8750 +0.0000/-0.0012	0.060 x 45°	4,312 lbf @ 133 rpm	64,688 lbf	-40 to +250
30875	2.875	3.375	3.500	3.3750 +0.0000/+0.0014	2.8750 +0.0000/-0.0012	0.060 x 45°	5,031 lbf @ 133 rpm	75,469 lbf	-40 to +250
30885	3.000	3.500	2.250	3.5000 +0.0000/+0.0014	3.0000 +0.0000/-0.0012	0.060 x 45°	3,375 lbf @ 127 rpm	50,625 lbf	-40 to +250
30414	3.000	3.500	3.000	3.5000 +0.0000/+0.0014	3.0000 +0.0000/-0.0012	0.060 x 45°	4,500 lbf @ 127 rpm	67,500 lbf	-40 to +250
30338	3.000	3.500	3.750	3.5000 +0.0000/+0.0014	3.0000 +0.0000/-0.0012	0.060 x 45°	5,625 lbf @ 127 rpm	84,375 lbf	-40 to +250
30486	3.000	3.750	2.250	3.7500 +0.0000/+0.0014	3.0000 +0.0000/-0.0012	0.080 x 45°	3,375 lbf @ 127 rpm	50,625 lbf	-40 to +250
30488	3.000	3.750	3.000	3.7500 +0.0000/+0.0014	3.0000 +0.0000/-0.0012	0.080 x 45°	4,500 lbf @ 127 rpm	67,500 lbf	-40 to +250
30454	3.000	3.750	3.750	3.7500 +0.0000/+0.0014	3.0000 +0.0000/-0.0012	0.080 x 45°	5,625 lbf @ 127 rpm	84,375 lbf	-40 to +250
30079	3.250	3.750	2.500	3.7500 +0.0000/+0.0014	3.2500 +0.0000/-0.0014	0.060 x 45°	4,062 lbf @ 118 rpm	60,938 lbf	-40 to +250
30613	3.250	3.750	3.250	3.7500 +0.0000/+0.0014	3.2500 +0.0000/-0.0014	0.060 x 45°	5,281 lbf @ 118 rpm	79,219 lbf	-40 to +250
30831	3.250	3.750	4.000	3.7500 +0.0000/+0.0014	3.2500 +0.0000/-0.0014	0.060 x 45°	6,500 lbf @ 118 rpm	97,500 lbf	-40 to +250
30209	3.250	4.000	2.500	4.0000 +0.0000/+0.0014	3.2500 +0.0000/-0.0014	0.080 x 45°	4,062 lbf @ 118 rpm	60,938 lbf	-40 to +250
30656	3.250	4.000	3.250	4.0000 +0.0000/+0.0014	3.2500 +0.0000/-0.0014	0.080 x 45°	5,281 lbf @ 118 rpm	79,219 lbf	-40 to +250
30734	3.250	4.000	4.000	4.0000 +0.0000/+0.0014	3.2500 +0.0000/-0.0014	0.080 x 45°	6,500 lbf @ 118 rpm	97,500 lbf	-40 to +250
30017	3.500	4.000	2.500	4.0000 +0.0000/+0.0014	3.5000 +0.0000/-0.0014	0.060 x 45°	4,375 lbf @ 109 rpm	65,625 lbf	-40 to +250

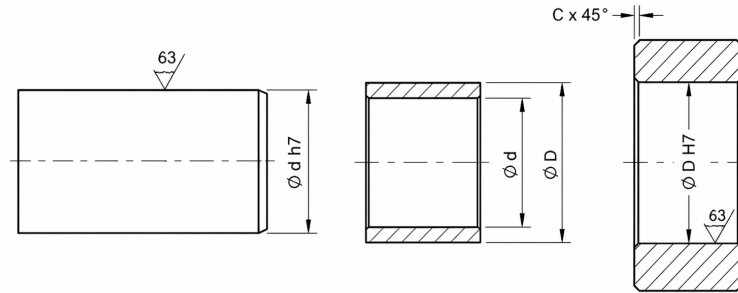
HEAVY DUTY BUSHINGS - INCH SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	ID (in)	OD (in)	L (in)	Housing Bore H7 (in)	Shaft h7 (in)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range (°F)
30995	3.500	4.000	3.500	4.0000 +0.0000/+0.0014	3.5000 +0.0000/-0.0014	0.060 x 45°	6,125 lbf @ 109 rpm	91,875 lbf	-40 to +250
30782	3.500	4.000	4.500	4.0000 +0.0000/+0.0014	3.5000 +0.0000/-0.0014	0.060 x 45°	7,875 lbf @ 109 rpm	118,125 lbf	-40 to +250
30950	3.500	4.250	2.500	4.2500 +0.0000/+0.0014	3.5000 +0.0000/-0.0014	0.080 x 45°	4,375 lbf @ 109 rpm	65,625 lbf	-40 to +250
30805	3.500	4.250	3.500	4.2500 +0.0000/+0.0014	3.5000 +0.0000/-0.0014	0.080 x 45°	6,125 lbf @ 109 rpm	91,875 lbf	-40 to +250
30155	3.500	4.250	4.500	4.2500 +0.0000/+0.0014	3.5000 +0.0000/-0.0014	0.080 x 45°	7,875 lbf @ 109 rpm	118,125 lbf	-40 to +250
30308	3.750	4.250	2.750	4.2500 +0.0000/+0.0014	3.7500 +0.0000/-0.0014	0.060 x 45°	5,156 lbf @ 102 rpm	77,344 lbf	-40 to +250
30704	3.750	4.250	3.750	4.2500 +0.0000/+0.0014	3.7500 +0.0000/-0.0014	0.060 x 45°	7,031 lbf @ 102 rpm	105,469 lbf	-40 to +250
30182	3.750	4.250	4.750	4.2500 +0.0000/+0.0014	3.7500 +0.0000/-0.0014	0.060 x 45°	8,906 lbf @ 102 rpm	133,594 lbf	-40 to +250
30290	3.750	4.500	2.750	4.5000 +0.0000/+0.0014	3.7500 +0.0000/-0.0014	0.080 x 45°	5,156 lbf @ 102 rpm	77,344 lbf	-40 to +250
30791	3.750	4.500	3.750	4.5000 +0.0000/+0.0014	3.7500 +0.0000/-0.0014	0.080 x 45°	7,031 lbf @ 102 rpm	105,469 lbf	-40 to +250
30341	3.750	4.500	4.750	4.5000 +0.0000/+0.0014	3.7500 +0.0000/-0.0014	0.080 x 45°	8,906 lbf @ 102 rpm	133,594 lbf	-40 to +250
30374	4.000	4.500	3.000	4.5000 +0.0000/+0.0014	4.0000 +0.0000/-0.0014	0.060 x 45°	6,000 lbf @ 95 rpm	90,000 lbf	-40 to +250
30024	4.000	4.500	4.000	4.5000 +0.0000/+0.0014	4.0000 +0.0000/-0.0014	0.060 x 45°	8,000 lbf @ 95 rpm	120,000 lbf	-40 to +250
30834	4.000	4.500	5.000	4.5000 +0.0000/+0.0014	4.0000 +0.0000/-0.0014	0.060 x 45°	10,000 lbf @ 95 rpm	150,000 lbf	-40 to +250
30807	4.000	4.750	3.000	4.7500 +0.0000/+0.0016	4.0000 +0.0000/-0.0014	0.080 x 45°	6,000 lbf @ 95 rpm	90,000 lbf	-40 to +250
30933	4.000	4.750	4.000	4.7500 +0.0000/+0.0016	4.0000 +0.0000/-0.0014	0.080 x 45°	8,000 lbf @ 95 rpm	120,000 lbf	-40 to +250
30579	4.000	4.750	5.000	4.7500 +0.0000/+0.0016	4.0000 +0.0000/-0.0014	0.080 x 45°	10,000 lbf @ 95 rpm	150,000 lbf	-40 to +250
30730	4.250	4.750	3.250	4.7500 +0.0000/+0.0016	4.2500 +0.0000/-0.0014	0.060 x 45°	6,906 lbf @ 90 rpm	103,594 lbf	-40 to +250
30386	4.250	4.750	4.250	4.7500 +0.0000/+0.0016	4.2500 +0.0000/-0.0014	0.060 x 45°	9,031 lbf @ 90 rpm	135,469 lbf	-40 to +250
30283	4.250	4.750	5.250	4.7500 +0.0000/+0.0016	4.2500 +0.0000/-0.0014	0.060 x 45°	11,156 lbf @ 90 rpm	167,344 lbf	-40 to +250
30972	4.250	5.000	3.250	5.0000 +0.0000/+0.0016	4.2500 +0.0000/-0.0014	0.080 x 45°	6,906 lbf @ 90 rpm	103,594 lbf	-40 to +250
30088	4.250	5.000	4.250	5.0000 +0.0000/+0.0016	4.2500 +0.0000/-0.0014	0.080 x 45°	9,031 lbf @ 90 rpm	135,469 lbf	-40 to +250
30178	4.250	5.000	5.250	5.0000 +0.0000/+0.0016	4.2500 +0.0000/-0.0014	0.080 x 45°	11,156 lbf @ 90 rpm	167,344 lbf	-40 to +250
30905	4.500	5.000	3.500	5.0000 +0.0000/+0.0016	4.5000 +0.0000/-0.0014	0.060 x 45°	7,875 lbf @ 85 rpm	118,125 lbf	-40 to +250
30618	4.500	5.000	4.500	5.0000 +0.0000/+0.0016	4.5000 +0.0000/-0.0014	0.060 x 45°	10,125 lbf @ 85 rpm	151,875 lbf	-40 to +250

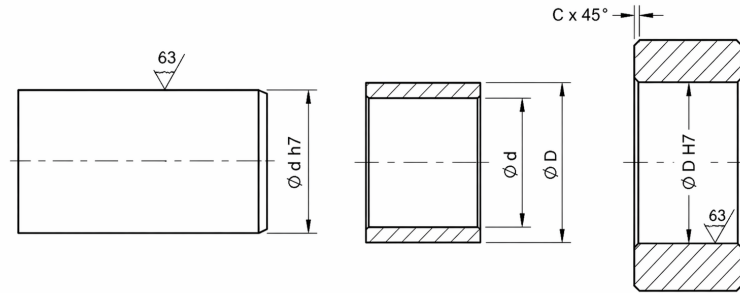
HEAVY DUTY BUSHINGS - INCH SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	ID (in)	OD (in)	L (in)	Housing Bore H7 (in)	Shaft h7 (in)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range (°F)
30373	4.500	5.000	5.500	5.0000 +0.0000/+0.0016	4.5000 +0.0000/-0.0014	0.060 x 45°	12,375 lbf @ 85 rpm	185,625 lbf	-40 to +250
30644	4.500	5.250	3.500	5.2500 +0.0000/+0.0016	4.5000 +0.0000/-0.0014	0.080 x 45°	7,875 lbf @ 85 rpm	118,125 lbf	-40 to +250
30154	4.500	5.250	4.500	5.2500 +0.0000/+0.0016	4.5000 +0.0000/-0.0014	0.080 x 45°	10,125 lbf @ 85 rpm	151,875 lbf	-40 to +250
30899	4.500	5.250	5.500	5.2500 +0.0000/+0.0016	4.5000 +0.0000/-0.0014	0.080 x 45°	12,375 lbf @ 85 rpm	185,625 lbf	-40 to +250
30357	4.750	5.250	3.500	5.2500 +0.0000/+0.0016	4.7500 +0.0000/-0.0016	0.060 x 45°	8,312 lbf @ 80 rpm	124,688 lbf	-40 to +250
30264	4.750	5.250	4.750	5.2500 +0.0000/+0.0016	4.7500 +0.0000/-0.0016	0.060 x 45°	11,281 lbf @ 80 rpm	169,219 lbf	-40 to +250
30987	4.750	5.250	6.000	5.2500 +0.0000/+0.0016	4.7500 +0.0000/-0.0016	0.060 x 45°	14,250 lbf @ 80 rpm	213,750 lbf	-40 to +250
30379	4.750	5.500	3.500	5.5000 +0.0000/+0.0016	4.7500 +0.0000/-0.0016	0.080 x 45°	8,312 lbf @ 80 rpm	124,688 lbf	-40 to +250
30526	4.750	5.500	4.750	5.5000 +0.0000/+0.0016	4.7500 +0.0000/-0.0016	0.080 x 45°	11,281 lbf @ 80 rpm	169,219 lbf	-40 to +250
30405	4.750	5.500	6.000	5.5000 +0.0000/+0.0016	4.7500 +0.0000/-0.0016	0.080 x 45°	14,250 lbf @ 80 rpm	213,750 lbf	-40 to +250
30604	5.000	5.750	3.750	5.7500 +0.0000/+0.0016	5.0000 +0.0000/-0.0016	0.080 x 45°	9,375 lbf @ 76 rpm	140,625 lbf	-40 to +250
30921	5.000	5.750	5.000	5.7500 +0.0000/+0.0016	5.0000 +0.0000/-0.0016	0.080 x 45°	12,500 lbf @ 76 rpm	187,500 lbf	-40 to +250
30904	5.000	5.750	6.250	5.7500 +0.0000/+0.0016	5.0000 +0.0000/-0.0016	0.080 x 45°	15,625 lbf @ 76 rpm	234,375 lbf	-40 to +250
30954	5.250	6.000	4.000	6.0000 +0.0000/+0.0016	5.2500 +0.0000/-0.0016	0.080 x 45°	10,500 lbf @ 73 rpm	157,500 lbf	-40 to +250
30353	5.250	6.000	5.250	6.0000 +0.0000/+0.0016	5.2500 +0.0000/-0.0016	0.080 x 45°	13,781 lbf @ 73 rpm	206,719 lbf	-40 to +250
30054	5.250	6.000	6.500	6.0000 +0.0000/+0.0016	5.2500 +0.0000/-0.0016"	0.080 x 45°	17,062 lbf @ 73 rpm	255,938 lbf	-40 to +250
30484	5.500	6.250	4.000	6.2500 +0.0000/+0.0016	5.5000 +0.0000/-0.001	0.080 x 45°	11,000 lbf @ 69 rpm	165,000 lbf	-40 to +250
30570	5.500	6.250	5.500	6.2500 +0.0000/+0.0016	5.5000 +0.0000/-0.0016	0.080 x 45°	15,125 lbf @ 69 rpm	226,875 lbf	-40 to +250
30248	5.500	6.250	7.000	6.2500 +0.0000/+0.0016	5.5000 +0.0000/-0.0016	0.080 x 45°	19,250 lbf @ 69 rpm	288,750 lbf	-40 to +250
30000	5.750	6.500	4.250	6.5000 +0.0000/+0.0016	5.7500 +0.0000/-0.0016	0.080 x 45°	12,219 lbf @ 66 rpm	183,281 lbf	-40 to +250
30723	5.750	6.500	5.750	6.5000 +0.0000/+0.0016	5.7500 +0.0000/-0.0016	0.080 x 45°	16,531 lbf @ 66 rpm	247,969 lbf	-40 to +250
30989	5.750	6.500	7.250	6.5000 +0.0000/+0.0016	5.7500 +0.0000/-0.0016	0.080 x 45°	20,844 lbf @ 66 rpm	312,656 lbf	-40 to +250
30440	6.000	6.750	4.500	6.7500 +0.0000/+0.0016"	6.0000 +0.0000/-0.0016	0.080 x 45°	13,500 lbf @ 64 rpm	202,500 lbf	-40 to +250
30828	6.000	6.750	6.000	6.7500 +0.0000/+0.0016	6.0000 +0.0000/-0.0016	0.080 x 45°	18,000 lbf @ 64 rpm	270,000 lbf	-40 to +250
30395	6.000	6.750	7.500	6.7500 +0.0000/+0.0016	6.0000 +0.0000/-0.0016	0.080 x 45°	22,500 lbf @ 64 rpm	337,500 lbf	-40 to +250

HEAVY DUTY BUSHINGS - INCH SERIES



PART NUMBERS FOR TA100 MATERIAL – CONTACT US FOR CUSTOM SIZES

Part Number	ID (in)	OD (in)	L (in)	Housing Bore H7 (in)	Shaft h7 (in)	Chamfer	Dynamic Load	Max Static Load	Operating Temp Range [°F]
30464	6.250	7.000	4.750	7.0000 +0.0000/+0.0016	6.2500 +0.0000/-0.0016	0.080 x 45°	14,844 lbf @ 61 rpm	222,656 lbf	-40 to +250
30969	6.250	7.000	6.250	7.0000 +0.0000/+0.0016	6.2500 +0.0000/-0.0016	0.080 x 45°	19,531 lbf @ 61 rpm	292,969 lbf	-40 to +250
30415	6.250	7.000	7.750	7.0000 +0.0000/+0.0016	6.2500 +0.0000/-0.0016	0.080 x 45°	24,219 lbf @ 61 rpm	363,281 lbf	-40 to +250
30213	6.500	7.250	5.000	7.2500 +0.0000/+0.0018	6.5000 +0.0000/-0.0016	0.080 x 45°	16,250 lbf @ 59 rpm	243,750 lbf	-40 to +250
30683	6.500	7.250	6.500	7.2500 +0.0000/+0.0018	6.5000 +0.0000/-0.0016	0.080 x 45°	21,125 lbf @ 59 rpm	316,875 lbf	-40 to +250
30546	6.500	7.250	8.000	7.2500 +0.0000/+0.0018	6.5000 +0.0000/-0.0016	0.080 x 45°	26,000 lbf @ 59 rpm	390,000 lbf	-40 to +250

CONTACT & SUPPORT

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