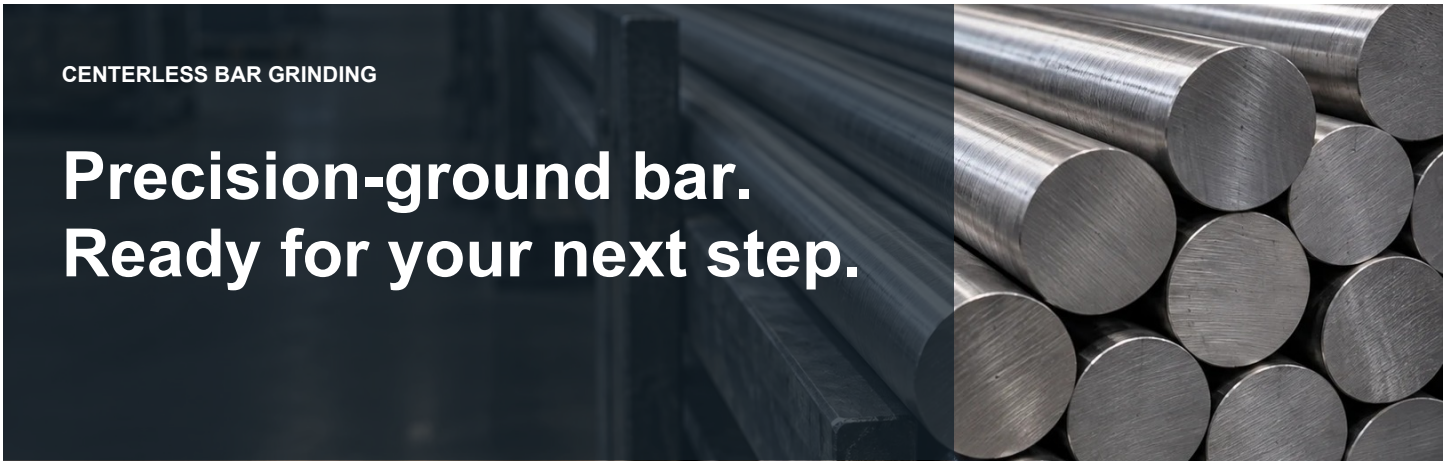


Bring diameter, straightness, and surface finish into the same processing plan. K-O supports customer-supplied bar and material sourcing, with related operations coordinated around your next manufacturing step.

Capability at a glance

Diameter range
0.032-7 in
Centerless bar grinding

Diameter tolerance
To ±0.0001 in
Specify your required tolerance

Bar length
3-24 ft
Incoming and finished lengths

Straightness
0.004 in/ft
Total indicated runout (TIR)

Surface finish
To 6 RMS
Confirm finish metric and units

Material supply
Your bar or ours
Customer-supplied or K-O-sourced

Capability depends on material, incoming condition, diameter, length, and stock removal. Limits are not necessarily achievable together. Specify the finish metric and units on your drawing; review the complete requirement with K-O.

Connect the work around your bar.

Centerless grinding
Control bar diameter and surface finish for the next operation.

Straightening
Plan the specified straightness and measurement requirements.

Saw cutting
Prepare bar lengths around your production or delivery needs.

Chamfering
Prepare one or both bar ends to your specification.

Specialty packaging
Protect ground surfaces, identification, and handling requirements.

Heat treatment coordination
Coordinate the agreed material condition within the processing plan.

Every project is managed through the same K-O quality system.

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The material is part of the plan.

Grinding material grade cross-reference. Include the exact grade, specification, condition, and certification requirements with your inquiry.

Carbon steel

1018 / 1045 / 1060 / 1117 / 11L17 / 1141 / 11L41 / 1144 / 12L14 / 1215 / Stressproof / A311 / Fatigueproof

Alloy steel

4130 / 4130HT / 4140 / 4140HT / 41L40 / 41L40HT / 4142 / 4142HT / 4150 / 4150HT / 4340 / 52100 / 8620 / 86L20 / ETD150 / 9310

Stainless steel

303 / 303 Condition B / 304L / 310 / 316L / 316LVM / 316 Condition B / 321 / 347 / 410 / 416 / 416 Condition T / 420 / 430 / 430FR / 430F / 440A / 440C / 440F / 15-5PH / 17-4PH / 17-4H900 / 17-4H925 / 17-4H1025 / 17-4H1150 / Nitronic 50 / Nitronic 60

Specialty alloys

Monel / Monel 400 / Inconel (various grades) / Hastelloy / Waspaloy / A286 / C-276 / Stellite 6B / CoCr (L-605) / HAYNES Alloys / MULTIMET / ULTIMET

Glass - Grade and processing requirements reviewed to your specification.

Aluminum

1100 / 2014 / 2021 / 2024 / 2219 / 5083 / 5086 / 6061 / 6063 / 7049 / 7050 / 7075 / 7076 / 7079 / 7175 / 7475

Copper, brass & bronze

614 / 630 / 642 / 655 / 101 / 102 / 110 / 145 / C613 / C623 / C624 / 314 / 355 / 360 / 385 / 660 / 932 / 954 / CDA954 / C632 / C70600 / C70610 / C70690 / C71500 / Tellurium copper / Beryllium copper / 464 / 510 / 544

Tool steel

A2 / A6 / A8 / A11 / B2 / B7 / D2 / D3 / H10 / H11 / H13 / L7 / M2 / O1 / O6 / S7 / W1

Titanium

Grade 1 / Grade 2 / Grade 3 / Grade 4 / 6Al-4V Grade 5 / 6Al-4V Grade 23 ELI / 6Al-6V-2Sn / 6Al-2Sn-4Zr-2Mo

Engineering plastics

Acetal / Acrylic / Delrin / Lucite / Nylon / PEEK / Polycarbonate / Polyethylene / PVC / Teflon

This is a processing reference, not a statement of stock availability. Grade and condition are reviewed against the complete requirement. Contact K-O for materials not listed.

Let us review your bar requirements.

Send the material grade and condition, starting and finished diameter, tolerance, bar length, straightness, surface finish, quantity, and delivery requirements.

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