**ROUND JAWS- 1.5 mm x 60° Serrations**

FOR USE ON: Kitagawa®, Samchully®, Strong®, MMK, SMW Autoblok, Howa & Hitachi-Seiki Chucks

- • 1.5mm x 60° serrations
- • Round jaws allow for complete gripping of workpiece
- • Oversized jaws available
- • Ideal for thin-walled or irregular shaped workpieces
- • Can’t be machined to fit workpiece
- • Max. length of serrations: 5.75”
- • All jaws have 2 holes
- • Available in Aluminum, Cast Iron & Steel
- • Aluminum round jaws made from solid extruded aluminum (up to 15” dia)
- • Made in the USA

<table>
<thead>
<tr>
<th>Group No.</th>
<th>Chucks Size</th>
<th>Screws Width (in)</th>
<th>Screw Step (in)</th>
<th>Hole to Face (in)</th>
<th>Height (in)</th>
<th>Industry Ref. #</th>
<th>Part No.</th>
<th>Price (ea)</th>
<th>Part No.</th>
<th>Price (ea)</th>
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</thead>
<tbody>
<tr>
<td>K1-21-30</td>
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**HARD JAWS**

**FEATURES:**
- • Designed for first operation roughing.
- • Features 18° x .008 taper cut between R12½ and R15 size to allow for smooth, easy gripping.
- • Reversible for OD & ID workholding.
- • XTRA-BITE - very aggressive bite. Correct teeth for extra gripping power and ground body to provide improved finish.
- • GRIP-RITE/OEM Style - hard jaws have ground box and provide better runout.
- • GRIP-RITE - XTRA-BITE style - extra aggressive bite. Correct teeth for extra gripping power and black oxide for long life. Ideal for castings and hard material. Made in the USA.
- • XTRA-BITE style hard jaws feature enhanced serrations on gripping surface.
- • 1 & 2 step jaws available.

<table>
<thead>
<tr>
<th>Group No.</th>
<th>Chucks Size</th>
<th>Screws Width (in)</th>
<th>Screw Step (in)</th>
<th>Hole to Face (in)</th>
<th>Height (in)</th>
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<th>Part No.</th>
<th>Price (ea)</th>
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**Indexable Drills & Boring Tools**

**INDEXABLE DRILLS & BORING TOOLS**

**FOR USE ON:** Kitagawa®, Samchully®, Strong®, MMK, SMW Autoblok, Howa & Hitachi-Seiki Chucks
**SOFT JAWS- 1.5 mm x 60° Serrations**

**FOR USE ON:** Kitagawa®, Samchully®, Strong®, MMK, SMW Autoblok, Howa & Hitachi-Seiki Chucks

- **1.5 mm x 60° serrations**
- Supplies maximum concentricity on finish turning operations
- All jaws parted 2 holes
- **Steel jaws can be hardened**
- Available flat ended or pointed for smaller diameter parts
- Special orders available
- Available in Aluminum, Steel & Aircraft Aluminum (where noted)

**Soft Jaw Material:**
- **ALUMINUM-6061-T6 Bar Stock**
- **STEEL-1018**
- **"B" JAWS-7075-T6 Aircraft Aluminum**

**Critical Dimensions**

<table>
<thead>
<tr>
<th>Group No.</th>
<th>Size</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
<th>Flute</th>
<th>Length</th>
<th>Width</th>
<th>Screw</th>
<th>Hole</th>
<th>Reference #</th>
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**JAW NUTS & SCREWS**

**Critical Dimensions**

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<th>Screw Width E</th>
<th>Screw Height C</th>
<th>Length A</th>
<th>Length B</th>
<th>Width C</th>
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<td>2.000</td>
<td>1.700</td>
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**CNC LATHE GAGE**

- Used to set tool ends on the spindle axis for optimum cutting conditions. It can be used to set tools on the spindle axis and eliminate the nub left after cutting.
- Designed with a large amount of angular adjustability, allowing it to be used on any steel tool or Swiss style CNC lathe. Two different contact faces allow it to work with both upward and downward facing cutting tools.
- **Set turning, boring, and facing tools on the spindle axis for optimum cutting condition**
- **Grinds the "nub" left by poorly set tools.**
- **Precise glass scale with 30"/mm sensitivity**
- **Angular adjustability of +/- 90°**
- **Ground steel shaft supported by dual ball bearings**
- **Made from high-strength aluminum**

**Price:**
- **$44.99 ea**