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EVER SHARP TOOLS

**BROACH – FORMING RACK – GAGE – HOB
CORE DRILL – SPECIAL DRILL & MILL**



**Ever Sharp Tools, Inc.
(EST Tools America, Inc.)**



U.S. Sales & Service Center

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Founded in May 2016, Ever Sharp Tools is a subsidiary of EST Tools Company Ltd. (Hengfeng Tools Co., Ltd.). We are a world-leading supplier of complex cutting tools, precision drilling/milling tools and measuring tools. These tools include broaches, hob tools, skive cutters, milling cutters, spline forming racks, specialty drills, specialty cutters, spline gauges and specialty variable gauges.

With more than 40 years of experience with gear and spline cutting and measurement tooling, EST is a premier supplier of precision tools. We have more than 800 employees and 1 million square feet of manufacturing space globally. Our more than 500 machines are modern, European designed/manufactured and primarily CNC. EST has invested in a world-class ERP system to track every tool and ensure the best quality process. With our resources and expertise, EST can help you meet your goals for better quality, faster machining cycles and lower cost per part.

Visit our website at www.est-us.com to learn more about our products and services. Contact our sales team at sales@est-us.com for a custom quote or to learn more about the solutions EST has to offer.

Content



- **Broach Tools**
- **Forming Racks**
- **Spline Gages**
- **Hob Cutters**
- **Core Drills**
- **Special Drill & Mill Cutters**

Excellent team Excellent equipment Excellent product



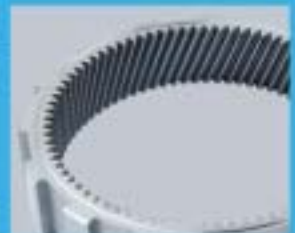


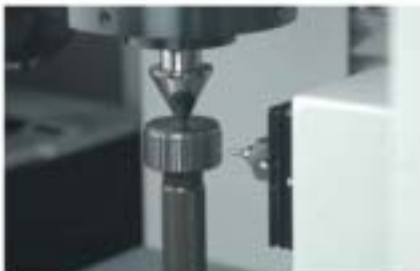
Big Broaches ▶

The largest diameter is up to 13.8 inches and the length is up to 118 inches.



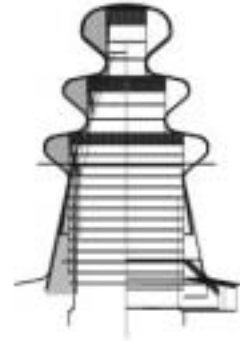
Helical Broaches ▶







Gas & Air Turbin Slot Broaches



Flat Broaches

- Pot Broaches
- Steering Rack Broaches
- Flat & Profile Broaches





Spline Broaches ▶

- Involute Spline Broaches ·
- Solid Carbide Hard Broaches ·
- Spiral Gullet Round Broaches ·



Internal Profile Broaches ▶





A Fundamental Part of the Total Spline Solution Spline Gages ▶



Spline Plug & Ring Gages - GO & NO GO

EST designs and manufactures Spline Gages according to GB, DIN, ISO, and ANSI standard.

Involute Spline Hand Held and Table Stand Variable Gages



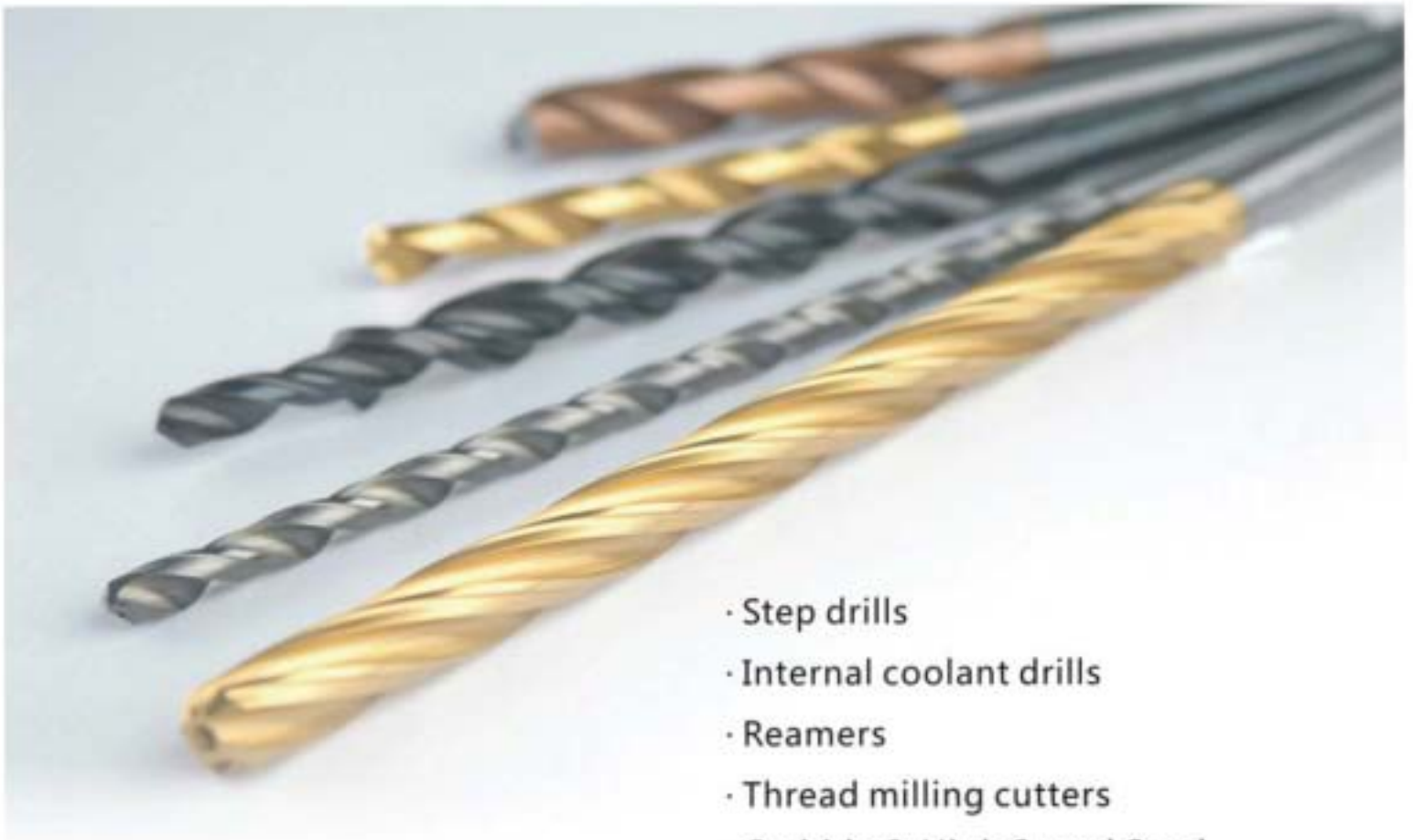
Forming Racks ▶



Spline racks, Thread racks, Worm racks. Inch or metric.
The module of spline racks can be from 0.3 up to 2.
The sizes of racks include 13", 24", 36", 48".



Non-standard drillings and milling cutters ▶



- Step drills
- Internal coolant drills
- Reamers
- Thread milling cutters
- Carbide & High Speed Steel





Hobs ▶

- High-precision hobs
- Dry cutting hobs
- Solid carbide hobs

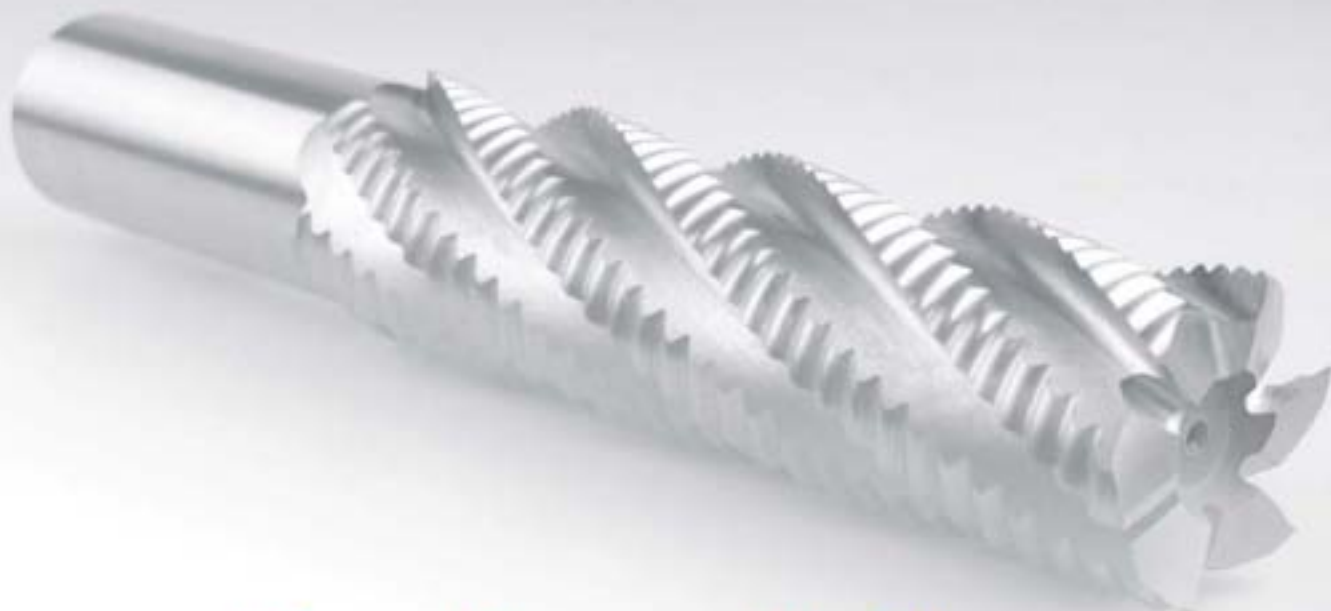
Profile and Form Milling Cutters ▶





End Mills ▶

We manufacture many kinds of metric or inch standard milling cutters, according to DIN, JIS and ANSI standard.



Roughing end mills ▶

| Inch Sizes | | | | | | |
|----------------|-------|-------|-------|--------|---|--|
| No. | d | d1 | L2 | L1 | Z | |
| I-NR-BC<K>401R | 1/4 | 3/8 | 5/8 | 2-7/16 | 4 | |
| I-NR-BC<K>402R | 5/16 | 3/8 | 3/4 | 2-1/2 | 4 | |
| I-NR-BC<K>403R | 3/8 | 3/8 | 3/4 | 2-7/16 | 4 | |
| I-NR-BC<K>404R | 1/2 | 1/2 | 1-1/4 | 3-1/4 | 4 | |
| I-NR-BC<K>405R | 5/8 | 5/8 | 1-5/8 | 3-3/4 | 4 | |
| I-NR-BC<K>406R | 3/4 | 5/8 | 1-5/8 | 3-3/4 | 4 | |
| I-NR-BC<K>407R | 3/4 | 3/4 | 1-5/8 | 3-7/8 | 4 | |
| I-NR-BC<K>408R | 7/8 | 3/4 | 1-7/8 | 4-1/8 | 4 | |
| I-NR-BC<K>409R | 7/8 | 7/8 | 1-7/8 | 4-1/8 | 4 | |
| I-NR-BC<K>410R | 1 | 3/4 | 2 | 4-1/4 | 4 | |
| I-NR-BC<K>411R | 1 | 1 | 2 | 4-1/2 | 4 | |
| I-NR-BC<K>512R | 1-1/8 | 1 | 2 | 4-1/2 | 5 | |
| I-NR-BC<K>513R | 1-1/4 | 1 | 2 | 4-1/2 | 5 | |
| I-NR-BC<K>514R | 1-1/4 | 1-1/4 | 2 | 4-1/2 | 5 | |
| I-NR-BC<K>615R | 1-1/2 | 1-1/4 | 2 | 4-1/2 | 6 | |
| I-NR-BC<K>616R | 1-3/4 | 1-1/4 | 2 | 4-1/2 | 6 | |
| I-NR-BC<K>617R | 2 | 1-1/4 | 2 | 4-1/2 | 6 | |
| I-NR-BC<K>618R | 2 | 2 | 2 | 5-3/4 | 6 | |
| I-NR-BC<K>819R | 2 | 1-1/4 | 2 | 4-1/2 | 8 | |

Details please refer to brochure "Milling cutters"



Hole Saws & Hole Cutters ▶

High Speed Steel and Carbide Tip

Cutting Depth :

0.5-150 mm (1/8—5-7/8 inch)

Diameter :

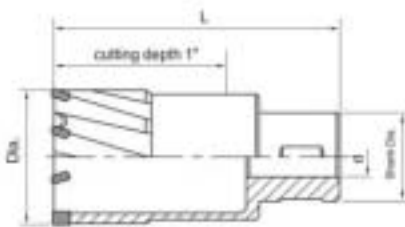
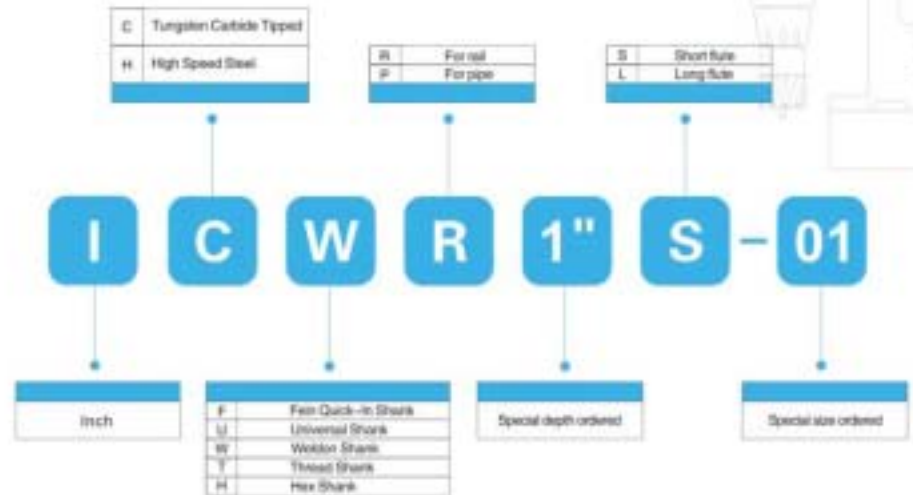
12-200 mm (1/2—7-13/16 inch)

- Fein Quick-In Shank
- Universal Shank
- Hex Shank
- Thread Shank
- Weldon Shank





Ordering Key



Shank Dia:
 Dia. 1/2" - 3-1/2" Shank Dia. 3/4"
 Dia. 2-9/16" - Shank Dia. 1-1/4"



Suitable for diameter from 1/2" to 11/16"



Suitable for diameter from 3/4" to 4"

| Inch Sizes | | | |
|------------|-------|----------|-------|
| No. | Dia | No. | Dia |
| ICW1*-01 | 1/2 | ICW1*-31 | 2-3/8 |
| ICW1*-03 | 5/8 | ICW1*-33 | 2-1/2 |
| ICW1*-05 | 3/4 | ICW1*-35 | 2-5/8 |
| ICW1*-07 | 7/8 | ICW1*-37 | 2-3/4 |
| ICW1*-09 | 1 | ICW1*-39 | 2-7/8 |
| ICW1*-11 | 1-1/8 | ICW1*-41 | 3 |
| ICW1*-13 | 1-1/4 | ICW1*-43 | 3-1/8 |
| ICW1*-15 | 1-3/8 | ICW1*-45 | 3-1/4 |
| ICW1*-17 | 1-1/2 | ICW1*-47 | 3-3/8 |
| ICW1*-19 | 1-5/8 | ICW1*-49 | 3-1/2 |
| ICW1*-21 | 1-3/4 | ICW1*-51 | 3-5/8 |
| ICW1*-23 | 1-7/8 | ICW1*-53 | 3-3/4 |
| ICW1*-25 | 2 | ICW1*-55 | 3-7/8 |
| ICW1*-27 | 2-1/8 | ICW1*-57 | 4 |
| ICW1*-29 | 2-1/4 | | |

Details please refer to brochure "Hole Saws"



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