

CNC Broach Tools Launches Instant Spline Identifier & Reverse Lookup for CNC Spline Broaching

CNC Broach Tools™ Inserted Keyway and Spline Broach Tools for CNC Lathes and Mills

Laguna Beach, California Sep 24, 2026 ([Issuewire.com](https://www.issuewire.com)) - *New Instant Spline Identifier & Reverse Lookup tool ranks ANSI B92.1, DIN 5480, and DIN 5482 matches from shop-floor measurements — including over-pins — and points machinists to custom carbide spline inserts.*

CNC Broach Tools today announced a major update to its Involute Spline Calculator: Instant Spline Identifier & Reverse Lookup, a reverse-engineering lookup built for parts that show up with no drawing, a worn print, or a metric designation the shop has never cut.

The company already quotes and grinds custom carbide spline broach inserts for CNC lathes and mills. The bottleneck is often the first question: what spline is this? Instant Spline Identifier & Reverse Lookup is designed to answer that on the shop floor, then send the user to the same CNC Spline Broach page used for quoting: <https://cncbroachtools.com/cnc-spline-broach>

The problem it solves

Internal and external involute splines are specified many ways. A hub might be ANSI B92.1. A shaft might be DIN 5480. A hydraulic spare might still be legacy DIN 5482. Tooth count alone is not enough. Major diameter can be worn or chamfered. Two standards can look almost the same until you check space width, tooth thickness, and a pin measurement.

Instant Spline Identifier & Reverse Lookup does not invent a designation. It searches published sizes and ranks likely matches so a machinist can confirm the form before requesting inserts.

How Instant Spline Identifier & Reverse Lookup works

Open the Involute Spline Calculator and choose Instant Spline Identifier & Reverse Lookup (currently in beta test).

1. Say hub or shaft. Internal and external catalogs are different.
2. Count the teeth. That is the first filter.
3. Measure major diameter with a micrometer or caliper.
4. Add minor diameter if the major is worn, chamfered, or hard to trust.
5. Optional: measure over pins (shaft) or between pins (hub). The tool fills a recommended pin size from the teeth and major. Use a different pin if that is what is in the kit.
6. Set slack if the part is used or the measurement is not a clean print dimension.
7. Tap Identify spline.

Results are ranked Strong / Likely / Possible, not treated as a single guaranteed answer. Each candidate shows the designation, diameter bands, recommended pin, and the calculated over-pins or between-pins range for that size. DIN 5480 and withdrawn DIN 5482 can look similar; the ranking is meant to put both on the table instead of hiding one of them.

If the list is long, add minor diameter or tighten slack. Then open the matching size in the spline

calculator to confirm diameters, fit class, and inspection dimensions before quoting or cutting.

DIN 5480, DIN 5482, and dimension over pins

The same calculator now supports DIN 5480 (current European metric, module and reference diameter) and DIN 5482 (legacy metric, still common on hydraulic, agricultural, and spare parts), alongside ANSI B92.1.

Inspection math is in the results, not a separate spreadsheet:

- Recommended pin for the spec (including larger DIN 5480 shaft pins on low tooth counts)
- Over pins on external splines
- Between pins on internal splines

That is the measurement shops already use to verify a part. Instant Spline Identifier & Reverse Lookup uses the same pin logic, so a shop measurement can be compared to a published size instead of guessed from major diameter alone.

From unknown part to a broach quote

CNC Broach Tools sells only to end users. Spline inserts are a special grind with a three-insert minimum. Typical lead time is 21–28 days to ship, with expedite options.

The intended path is simple:

1. Identify the unknown spline in the calculator.
2. Confirm the designation and pin dimensions.
3. Send the data with the drawing — or the sample — through the contact form at <https://cncbroachtools.com/contact-us>

If the part still has no standard, the company continues to offer optical reverse engineering of splines, gears, and serrations.

Quote

“Most spline delays are not tooling delays. They are identification delays. If you can count the teeth and measure the major, we can rank the published sizes that fit — including DIN and over-pins. Then we can talk about whether a carbide insert in a standard CNC holder will cut it.”

— Shane Anderson, VP of Operations, CNC Broach Tools

Availability

Instant Spline Identifier & Reverse Lookup, DIN 5480 / DIN 5482 calculation, and over-pins / between-pins inspection are in the CNC Broach Tools Involute Spline Calculator now.

Learn more and request a spline insert quote:

<https://cncbroachtools.com/cnc-spline-broach>

About CNC Broach Tools

CNC Broach Tools manufactures inserted carbide keyway and spline broach tools for CNC lathes and mills, so shops can cut internal and external forms without a dedicated pull-broach machine. Products include keyway tools, spline and serration inserts, programming support, and the CNC Broach G-code Program Generator. The company sells only to end users.

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