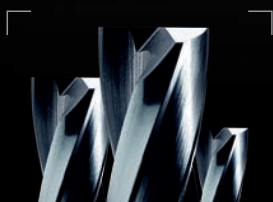


50 YEARS
NACHI
NACHI EUROPE GmbH
**OUR SYNERGY
YOUR PERFORMANCE**

TOOLS



BEARINGS



TOOLS



ROBOTICS



HYDRAULICS



"Early in the 1920s, NACHI had founded its reputation as a tool manufacturer with its hacksaw blades."

**No. 1
IN THE
WORLD**

Broaches for turbine discs (Fir-tree geometry): Perfect shape for reliable assembly of blades and turbine discs.



**No. 1
IN THE
WORLD**

Helical broach: Highly efficient manufacturing of precise internal gears



Broaching is one of NACHI's core areas. In Japan, NACHI runs the world's largest production line for broaches.

Renowned manufacturers trust in NACHI's broaches.



TOOLS

NACHI delivers convincing high-level tools for industrial applications. The high quality and process reliability of NACHI's drills, milling, threading and gear cutters as well as broaches are based on NACHI's extended production level. Melting of steel, metallurgical powder production, pressing, sintering, tempering, coating, grinding – NACHI's experts master all the necessary processes. With its in-house developed and continuously optimized sintering processes, grinding and coating technology, NACHI drives the innovation. With regard to technology NACHI's cutting tools are always up-to-date: **Quality and precision made in Japan.**

Solid Carbide and HSS-PM-Tools

The wide range of drilling and milling tools 0.2 up to 32mm in diameter includes a broad variety of different types for all industrial applications. High-quality substrates, optimized designs and innovative coatings care for highest cutting speeds and feed rates along with long tool life and best process reliability.

Taps

Inhouse material and original surface treatment combined with optimized designs of cutting edges and spirals provide long tool life. With the current product line Hyper Z, NACHI drives the innovation in tapping forward.

Drills with Cutting Inserts

Drills of the series Aquadrill EX VF are favorably used when drilling larger diameters. Their fast and easily changeable cutting inserts substantially reduce the costs.

Broaches

In the challenging field of turbine discs manufacturing, NACHI is known as the market leader for Fir-tree broaches. Renowned manufacturers of turbine discs for power generation and the aerospace engine industry trust in NACHI's broaches.



For Tool and Mouldmaking, Automotive and Aerospace Industry

NACHI's cutting tools cope extremely well with difficult processing conditions. They convince with the highest reliability in all situations.

Aquadrill EX Series:

All over the world, the high-performance drills series Aquadrill EX has proven its value. Thanks to their innovative multi-layer coatings based on high-level substrates these drills are extremely wear-resistant and achieve longer tool life.

For highest precision in hole accuracy and best surface quality, the type Aquadrill EX 3 Flute with oil holes is available. These drills perfectly center on uneven surfaces. The Aquadrill EX Flat with flat point (180° point angle) achieves best results when pilot drilling on inclined or convex surfaces or drilling crossing holes.

Aquadrill EX VF:

These drills with changeable cutting inserts work highly efficient in case diameters are larger than 14mm in various cutting depths.

Main Advantages:

- ▶ rigid, well dampening body
- ▶ in V-shaped mounting slots rigidly and precisely clamped inserts
- ▶ inserts with flat point (180° tip angle) available for pilot drilling on uneven and convex workpiece surfaces

Applications:

- ▶ shop floor manufacturing various materials and workpieces
- ▶ series production under pressure to reduce costs

Universal Drill SG made of HSS-PM:

The universal drills, available in diameters > 0.5mm, made of tough substrates coated with multi-layered coatings machine all materials reliably and precisely, from mild steel to high-alloyed stainless steel. Drill diameters stepped 0.01mm as a standard.

Hyper Z TAP:

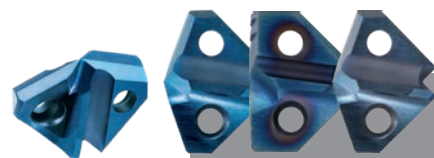
High-grade substrates and innovative surface treatment double or triple tool life.

Main Advantages:

- ▶ extremely long tool life
- ▶ realize stable tapping
- ▶ supremely efficient machining

Applications:

- ▶ Series and one-off production on machining centers
- ▶ when machining at highest process reliability is required
- ▶ best performance from low to mid speed tapping



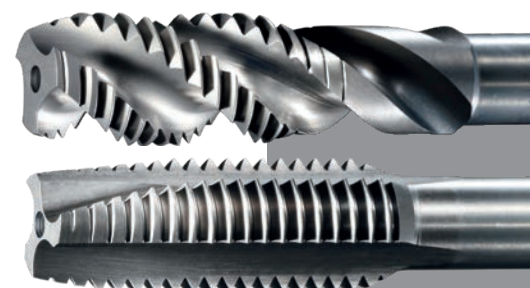
Highly profitable drilling of large diameter holes.
Aquadrill EX VF



New tool tip geometry reduces cutting force and improves chip removal.
Aquadrill EX-Hole Long

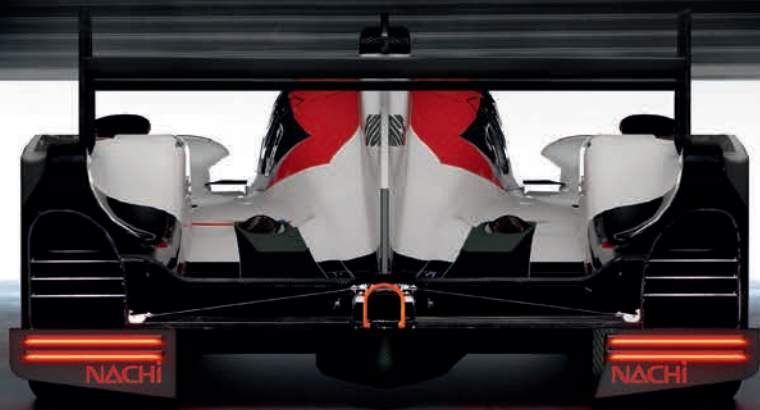


Suitable for a wide range of applications.
HSS-PM-Drill SG



Stable and rigid operation due to optimized cutting edges.
Tap Hyper Z

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