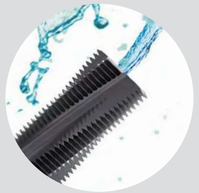

Threading

AccuThread 856®

- Available in solid carbide, pin style indexable, and bolt-in style indexable
- AM210® coating provides 25 - 50% increase in tool life over competition
- Thicker core and helical flute for increased strength and rigidity when cutting forces are applied

MaxThread™

- TiAlN coated for increased tool life over uncoated tools
- Extensive range of thread forms
- High quality for consistent predictable production
- NEW with Through Coolant

Porting

AccuPort 432®

- Eliminates need for pre-drilling
- Allows for efficient set-up and production time
- Saves tool cost with replaceable insert design, which also eliminates regrinding and resetting
- Available in 4 specifications

  Imperial (SAE J1926)* Military (SAE AS5202)
  Metric (ISO I1649:1) John Deere (JDS G173.1)

  * 2-step port finishing kit also available

Reaming and Roller-burnishing

ALVAN® Reamers

- Reaming range 5.80 mm - 200.60 mm
- 4 variations of tool type
- Integral reamers, straight or helical cutting edges
- Cutting rings available from diameter 17.60 mm
- Interchangeable expanding or fixed-head system, straight or helical cutting edges
- TSA system, solid carbide or Cermet interchangeable head
- Available in carbide or Cermet with a choice of coating such as TiN, TiAlN, TiNAlox, etc.
- High feed reaming due to multiple cutting edges

SCAMI® Rollerburnishing

- Diameter range: 4.70 mm - 165.90 mm
- Superior surface finish
- Hardens the hole finish

The Foundation

Since 1941, Allied Machine & Engineering has been providing dependable and practical holemaking solutions to the world. What was once a small job shop in Ohio is now a worldwide leader in cutting tool technology. With two manufacturing facilities in Ohio, a third in Georgia, and headquarters in both the United States and Europe, Allied Machine is positioned to bring innovative solutions and technical expertise right to the customers' hands.

The Innovation

Since the development of the T-A®, Allied Machine has expanded its product offering to support a vast range of customer applications, including large diameter and deep hole drilling, boring, reaming, porting, and threading.

The Future

Allied Machine is constantly investing in the brightest and sharpest minds, shaping a future filled with success and quality for customers around the world.

The Beginning

Harold E. Stokey founded Allied Machine & Engineering to aid the war effort, manufacturing taper bearing lock nuts for the production of M1 tanks. Years later, after a sales meeting gone wrong, Stokey possessed a warehouse stocked with spade drill inserts. He set forth into the industry that would become Allied Machine's thriving identity: holemaking.

ALLIED MACHINE & ENGINEERING

Holemaking Solutions for Today's Manufacturing

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EN

Holemaking Solutions

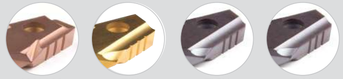
ALLIED MACHINE & ENGINEERING

Holemaking Solutions for Today's Manufacturing

Drilling

T-A® Original

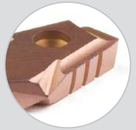
- Diameter range: 9.50 mm - 160.00 mm
- The through coolant holder design optimizes chip evacuation and improves tool performance
- Coated for increased tool life
- Available in HSS and Carbide grades
- Self-centring point eliminates centre drilling



AM200® TiN TiCN TiAlN

GEN2 T-A®

- Diameter range: 9.50 mm - 114.30 mm
- The GEN2 T-A Notch Point® improves stability, hole straightness, and reduces thrust
- Advanced cutting geometry improves chip formation
- AM200® coating improves performance and tool life
- Helical margins improve surface finish



GEN2 T-A® Geometry

GEN2 T-A® HE High Elasticity

High Performance Drill

GEN3SYS® XT

- Diameter range: 11.00 mm - 35.00 mm
- Improved material-specific geometries, paired with premium AM300® coating, provides up to double the tool life versus competitive products
- GEN3SYS®XT inserts fit into existing GEN3SYS® holders
- Available in Stub, 3 x, 5 x, and 7 x D

Available in four geometries:

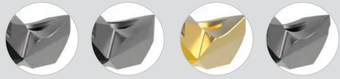
XT LR AS CI

GEN3SYS® XT Pro

- Diameter range: 11.00 mm - 35.00 mm
- Easy selection of tooling
- New AM400® coating series for high wear resistance
- Specially designed for ISO material grades
- New holders in 3 x, 5 x, 7 x and 10 x D
- Increased coolant supply and improved flute design
- Up to 40% more tool life

Available in early 2017

Available in four geometries:



P K N M

Boring

Wohlhaupter

- Experience highly efficient and economical precision boring in every dimension
- Innovative tool solutions that are individually adapted to suit diverse, complex requirements and changing tasks
- For the increasingly demanding machining requirements of many industries
- Customized for you by the world leader in digital boring tools

Allied Criterion

- Diameter range 3.00 mm - 341.00 mm
- Micro fine bore incremental adjustments of 0.0012 mm on the bore diameter
- Fine and rough bore solutions
- Excellent flexibility in length, diameter and shank configurations
- Single and dual inserts systems for high accuracy and performance
- Utilise standard ISO inserts
- Kaiser® and Komet® Connections are available

Deep Hole Drilling

APX Deep Hole Drilling

- Diameter range: 38.00 mm - 101.60 mm
- Uses GEN3SYS®, T-A® or GEN2 T-A® pilot insert to stabilize the tool through the cut
- Outboard carbide inserts achieve the final cutting diameter
- Allows for higher spindle speeds
- Takes advantage of power curves on modern CNC machines for maximum penetration rates on deep holes

Guided T-A®

- Maintains a straighter hole throughout operations
- Provides tighter true position holes
- 2x faster penetration rate than gun drills
- Great for breaking out on uneven surfaces
- Available in carbide-clad and chrome-plated styles
- Use with standard T-A®, GEN2 T-A®, HSS or Carbide inserts

BT-A Drill

- Diameter range: 12.95 mm - 47.80 mm with max. drill depth 2.6 m
- Compatible with standard BTA-STS systems
- Laser clad bearing area for improved straightness
- Replaceable cutting edges eliminate the need for resharpening
- Increased penetration rates over brazed heads and traditional gun drills

Large Diameter

Revolution Drill™

- Diameter range: 47.75 mm - 101.00 mm
- Replaceable cartridges provide rebuildable function
- Drills from solid, eliminating the need for a pilot hole
- Adjustable up to 5.1 mm on diameter
- Drill depths from 2x to 4.5x D

Core Drill™

- Diameter range: 50.80 mm - 142.75 mm
- Opens an existing hole in ONE operation
- Ignores core shifts up to 3.175 mm, providing straight and true holes without boring
- Protects your investment with replaceable cartridges
- Reduces inventory and costs with adjustable diameters

Specials

Insta-Quote™

- Create or edit custom designed T-A® holders, T-A® inserts, or GEN3SYS® holders
- Design your tool and receive a free quote and drawing within minutes
- User-friendly interface is available online or on your smart phone or tablet

Engineered Specials

- If your needs cannot be met within the Insta-Quote™ system, the Allied engineering team will create the special for you
- Saves money by drastically lowering cycle times and combining several manufacturing processes into one

i-Form

- Utilizes complex forms that were previously only available as brazed or solid carbide tools
- Allows for complex designs with replaceable cutting edges
- Reduces set-up times and eliminates regrinds
- Insert lead time as soon as 10 days
- Utilize standard, Insta-Quote™, and/or Special Insert Designs