

WOHLHAUPTER WIND ENERGY SOLUTIONS

NOVI^{TECH} - Efficient machining

Vibration-dampened Intermediate Modules

With the NOVI^{TECH} series, Wohlhaupter is now introducing intermediate modules for high-precision and economical boring operations up to 10xD. NOVI^{TECH} has been developed to increase productivity, surface quality and the process reliability of boring operations, as well as extending the life expectancy of the tool and spindle of the machining centre.



Features

- Intermediate modules for machining up to 10xD
- Higher cutting speeds at unfavourable L/D ratios
- Modular construction with MVS connection
- Existing Wohlhaupter components can be used
- Inserts with larger nose radius can be applied
- Extended range of cutting data
- Machining-Ø up to 205 mm

Benefits

- Increased productivity and surface quality
- Process reliability
- Multiple use for any type of boring operation
- Increased life of tool and spindle

WOHLHAUPTER®

WE HAVE A KIT FOR THAT

Wohlhaupter analogue or digital Kits are an excellent solution and help you find the right tool for your application.

COST SAVINGS OVER BUYING INDIVIDUAL COMPONENTS

LARGE SELECTION OF **DIAMETER RANGES**

SAFE STORAGE AND ORGANISATION

VERSATILE SETUPS AND **QUICKER ASSEMBLY**



Wind Energy SOLUTIONS

Our worldwide locations

Allied Machine & Engineering is a worldwide leader in holmaking and finishing solutions. We are committed to providing practical and dependable solutions to our customers through innovative designs and superior customer and technical support.



North America

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120 Deeds Drive
Dover, OH 44622
United States

Allied Machine
485 West 3rd Street
Dover, OH 44622
United States

ThreadMills USA™
4185 Crosstowne Ct #B
Evans, GA 30809
United States

Superion™
1285 S Patton St.
Xenia, OH 45385
United States

Europe

Allied Machine
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DY6 7FR
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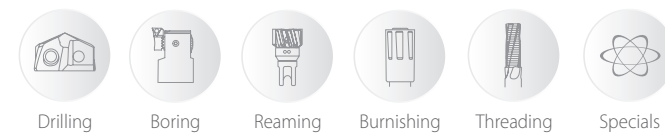
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72636 Frickenhausen
Germany

Asia

Wohlhaupter® India
B-23, 2nd Floor
B Block Community Centre
Janakpuri, New Delhi - 110058
India

What else do we offer?

Allied Machine offers numerous holmaking and finishing products to help you improve your processes. From multiple drilling options to boring, reaming, burnishing, and threading, we have the answer for you.



Distributed by:

www.alliedmachine.com

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Wind Energy SOLUTIONS

www.alliedmachine.com

Production Drilling

Porting Tools

Boring

Large Diameter



**ALLIED MACHINE
& ENGINEERING**

WOHLHAUPTER®

Holmaking Solutions for Today's Manufacturing

EN



TOWER FLANGES AND RINGS

SPECIAL SOLUTIONS FOR GEAR & HUB

GEARBOX



OUR **SOLUTION** | 4TEX™

- Diameter range: 12.00mm - 47.00mm
- Improved tool holder rigidity & increased reliability
- Superior chip evacuation provided by the 2 twisted coolant holes
- Simplified tooling selection with ISO-specific insert geometry/coating combinations



OUR **SOLUTION** | APX®

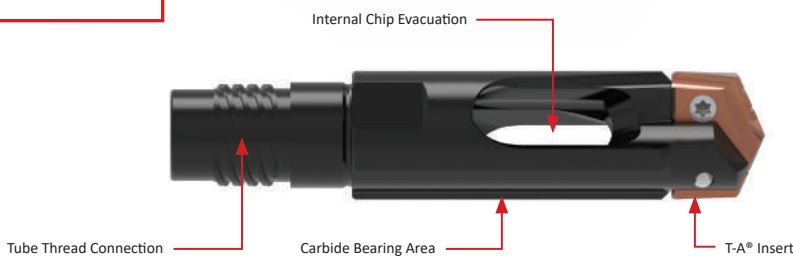
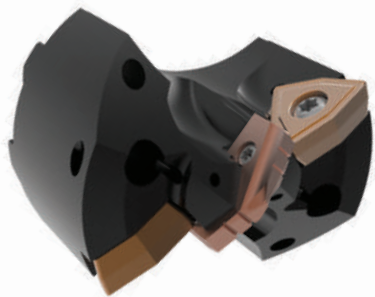
- Diameter range: 33.00 mm - 101.60 mm
- Uses GEN3SYS® XT, T-A® or GEN2 T-A® Pilot Inserts to stabilize the tool through the cut
- Outboard carbide inserts achieve the final cutting diameter
- Allows for higher spindle speeds
- Takes advantage of power curves on modern CNC machines for maximum penetration rates on deep holes

WIND TURBINE SHAFT



OUR **SOLUTION** | APX® 39mm

- Many more choices on the Pilot than any other competitor
- Coating option for the IC Inserts to increase speed and tool life
- 2 different shank diameters available in stock



OUR **SOLUTION** | BT-A®

- Improves hole straightness with the laser clad bearing area
- Heads are compatible with standard BTA-STS systems
- Eliminates the need for re-sharpening with replaceable cutting edges
- Reduce your inventory with the replaceable T-A® feature balanced cutting forces



OUR **SOLUTION** | GEN3SYS®XT Pro

- Diameter range: 11.00 mm - 35.00 mm
- High productivity ideal for large numbers of holes
- Specific steel grade geometry to provide increased penetration rates and tool life
- Enhanced coolant channels with 4 outlets for better chip evacuation at higher speeds
- Fastest penetration rates in comparison with similar tools from Our competitors
- Tough Carbide grade combined with a new high temperature resistant coating for the most difficult applications

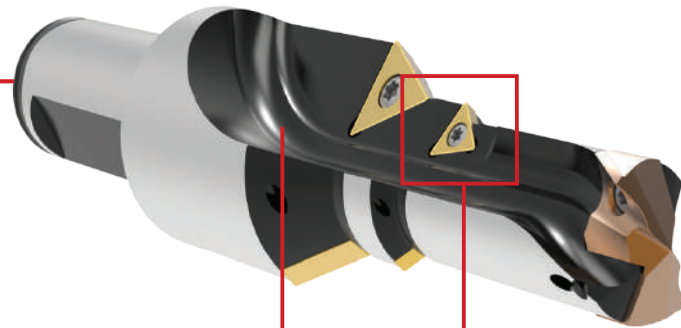


Through Tool Coolant Options

OUR **SOLUTION** | 2-STEP GEN3SYS

- Reducing the number of tools on the carousel
- Reduced cycle times
- Possibility to use wear pads for tight tolerances
- Specific or Standard ISO inserts for the step

SPECIAL



Flute Styles

IC Insert Styles

AS EASY AS 1, 2, 3 - INSTA-QUOTE™



Though Insta-Quote™ incorporates special designs for GEN3SYS® XT holders, it does not include options for designing special GEN3SYS XT inserts. GEN3SYS® XT holders utilise standard GEN3SYS® XT inserts, which can be found in Section A20 of the product catalogue.

If you need a special insert, or would simply like to discuss options for designing one to fit your application, please contact us and we can create a special design as an engineered special.



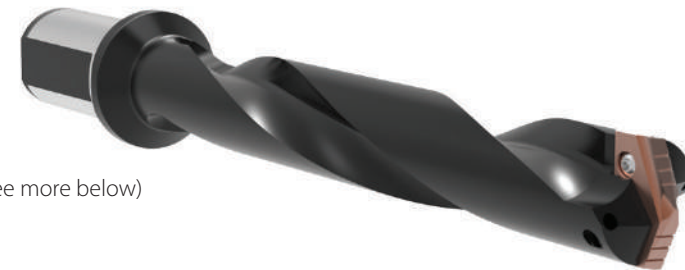
OUR **SOLUTION** | AluLine

- Diverse machining options due to modular design
- High cutting speeds and short machining times
- Ø 200 to 3255 mm with a wide selection of roughing insert holder and precision boring tools - analog or digital
- Convenient tool handling from assembly to tool presetting
- All the advantages of Alu-Line lightweight construction
- Large range of applications



OUR **SOLUTION** | T-A® / GEN2 T-A®

- Diameter range: 9.50 mm - 160.00 mm
- The through coolant holder design optimizes chip evacuation and improves tool performance
- NEW AM300® Coating on GEN2 T-A® Inserts for increased tool life (see more below)
- Available in HSS and Carbide grades
- Self-centering point eliminates centre drilling



GEN2 T-A® Drill Inserts

Standard

- Offers substantial increases in penetration rates and tool life
- Improves centring, drill stability, chip formation, and lowers drill forces
- Provides smoother break-out on through hole applications

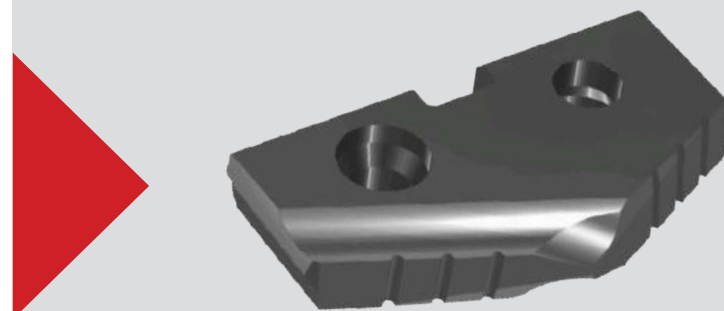


High Efficiency (-HE)

- Excellent chip formation in materials with very high elasticity/ductility and poor chip forming conditions
- Effective in lower powered machines
- Material example: low carbon steel (not suitable for stainless steel)



SPECIAL COATING OPTION



T-A® Diamond Coated

Allied's N2 carbide is used with CVD diamond coating. This improves the insert's hardness, durability and performance, which extends tool life between 30 - 50x over uncoated carbide.

Features & Benefits

- Diamond coated or PCD for small of big series'
- Proprietary geometry to avoid delamination
- Different diameters on a single holder