

Holemaking Solutions for Today's Manufacturing



Reaming



Burnishing



Threading









Wohlhaupter®

▶ BORING

Special Boring Solutions



WOHLHAUPTER®



SECTION

B10-K

Special Boring Solutions

Wohlhaupter® Special Boring Solutions



Special Design Tooling

When it comes to special solutions for customers, Wohlhaupter has unique capabilities to effectively design and develop special boring tools. Our special boring tools are designed for specific machines, processes, and materials to help you save time and money.

If you have a particularly unique or difficult application, contact our Application Engineering team.

email: engineering.eu@alliedmachine.com

Your safety and the safety of others is very important. This catalogue contains important safety messages. Always read and follow all safety precautions.



This triangle is a safety hazard symbol. It alerts you to potential safety hazards that can cause tool failure and serious injury.

When you see this symbol in the catalogue, look for a related safety message that may be near this triangle or referred to in the nearby

There are safety signal words also used in the catalogue. Safety messages follow these

⚠ WARNING

WARNING (shown above) means that failure to follow the precautions in this message could result in tool failure and serious injury.

NOTICE means that failure to follow the precautions in this message could result in damage to the tool or machine but not result in personal injury.

NOTE and IMPORTANT are also used. These are important that you read and follow but are not safety-related.

Visit www.alliedmachine.com for the most up-to-date information and procedures.

Applicable Industries



Aerospace Agriculture



Automotive



Firearms



Machining





Energy

Wohlhaupter® Special Boring Solutions Table of Contents
Special Tooling Solutions ES-Bore Fine Boring Lay Down Cartridge
Online Tools

ES-Bore Fine Boring Lay Down Cartridge

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LAY DOWN CARTRIDGES

ES-BORE

- ▶ Mounts to custom designed boring tools
- ▶ Available with digital 3E^{TECH+} or analog adjustment
- ► Accurate adjustments with easy-to-use settings
- ► Versatility in many different application types over 1.102" (28.00 mm)

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GROOVING TOOLS

EK GROOVER

- ► Create complex grooves faster and deeper than ever before
- ▶ Eliminate chatter in hard-to-reach internal forms
- ▶ The electronically-controlled insert release can be adapted to most machine tools
- ▶ Single or double grooving in one operation

ROUGH BORING TOOLS

LAY DOWN CARTRIDGE

- ▶ Increase the productivity of your roughing tool while protecting your investment
- ▶ If the tool is ever damaged, simply replace a cartridge and resume making chips

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SPECIAL BORING TOOLS

MOHUN WORLER

ANTI-VIBRATION

- ► Vibration dampening rings
- ▶ Optimized tool weight
- ▶ Used to reduce harmonic vibration in deeper boring applications



SPECIAL BORING TOOLS

MULTISTEP BORING TOOL

- ▶ Fine adjustment tool for reverse machining
- ▶ Combined with multidiameter fine adjustable cartridges for finish machining





SPECIAL BORING TOOLS

OD TURNING TOOLS

- ► Multistep OD turning
- ▶ Drastically reduce cycle time
- ▶ Improve surface finish and feature concentricity

SPECIAL BORING TOOLS

PADDED TOOLING

- ▶ Aids in stable part processing
- Expands length to diameter capabilities
- Improves surface finish
- Pads are replaceable to extend tool life

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3ETECH+ BORING TOOL

MULTISTEP BORING TOOL

- ► Easy diameter adjustments with 3E^{TECH+}
- ▶ One digital readout module to use on all steps



NOTE: 3ETECH+ adjustment accuracy of 0.001 mm on diameter

3ETECH+ BORING TOOL

LINE BORING TOOL

- ▶ One digital readout module used on all steps
- ▶ Easy diameter adjustment at the machine spindle

FINISH BORING TOOLS

DIGIBORE WITH 249 (248)

- ▶ Standard DigiBore head, standard 249 (248) head, and special slide for precise two-step bore
- ▶ MVS connection

FINISH BORING TOOLS

DIGIBORE SPECIAL

- Standard DigiBore boring head with OD turn and OD chamfer insert holder
- ▶ MVS connection

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ROUGH, FINISH, and CHAMFER BORING TOOLS

COMBI-LINE

- ▶ Standard Combi-Line tooling with added chamfer cartridge
- ▶ MVS connection

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ToolMD® | Wohlhaupter® Boring Insert Selector



Design Your Own Solutions

ToolMD is a configurator for Wohlhaupter modular tooling systems that allows customers to virtually build their own solution. This online-based simulator puts the entire Wohlhaupter product line at your fingertips. It provides a digital bank of every individual part that Wohlhaupter manufactures in either inch or metric.

Once you select a component, you will be guided by a series of user-friendly prompts to select the next components until you have built your tooling system. Throughout the process, you can monitor the size of your custom tool and ensure what you're building matches your real-life specifications. Once a complete system is virtually assembled, the program will render the tool in either a 2D or 3D drawing to view on your device.

Designing your tools with ToolMD saves you time and allows you to instantly obtain the right tool for the job.





WOHLHAUPTER° | Boring Insert Selector

www.alliedmachine.com/bis



WOHLHAUPTER

MALLIED HACHINE

- · Generate the correct boring insert for your application in just six easy steps
- Choose type, shape, substrate, insert form, nose radius, and workpiece material



 Search for your new insert item number by entering your old item number

K



Guaranteed Test / Demo Application Form

Distributor PO #

The following must be filled out completely before your test will be considered

IMPORTANT: For processing, send Purchase Order to your Allied Field Sales Engineer (FSE). Please clearly mark the paperwork as "Test Order."

_					_			
Distributor Information				End User Information				
Company Name:					Company Name: _			
Contact:					Contact: _			
Account Number:					Industry: _			
Phone:					Phone: _			
Email:					Email:			
Current Process	List all tooling, coati	ngs, substrate	s, speeds an	d feeds, t	ool life, and any problems	you are exper	riencing	
Test Objective	List what would mak	ke this a succe	ssful test (i.e	. penetra	tion rate, finish, tool life, l	nole size, etc.)		
Application Info	ormation							
Hole Diameter:		in/mm	Tolerance:			Material:		
Dro ovieting Diam	atar.		Daville of C					/ Cast Iron / etc.)
Pre-existing Diam	eter:	in/mm Depth of Cut:		in/mm	Hardness:	(BHN / Rc)		
Required Finish:		RMS				State:	(Casting / Ho	t rolled / Forging)
Machine Inform	nation							
Machine Type:				Builder:			Model #:	
	(Lathe / Screw machine /	Machine cente	r / etc.)		(Haas, Mori Seiki, e	tc.)		_
Shank Required:					Power:	HP/KW		
	(CAT50 / Morse taper, etc.)							
Rigidity:	Orientation:	Tool F	Rotating:				Thrust:	lbs/N
☐ Excellent	☐ Vertical	☐ Ye	es					
Good	☐ Horizontal	□ N	lo					
Poor								
Coolant Informa	ation							
Coolant Dalina					Cool 12		<u> </u>	DCI / !
Coolant Delivery:	(Through tool / Flood)				Coolant Pressure	Coolant Pressure:		PSI / bar
Coolant Type:	,	- ,			Coolant Volume:			GPM / LPM
coolant Type.	(Air mist, oil	, synthetic, wat	er soluble, etc	.)	Coolant volume.			GPIVI / LPIVI
Requested Tool	ing							
QTY Item Numb								
	-	1						

QTY	'	Item Number
QTY	1	Item Number

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Warranty Information

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Allied Machine & Engineering ("Allied Machine") warrants to original equipment manufacturers, distributors, industrial and commercial users of its products for one year from the original date of sale that each new product manufactured or supplied by Allied Machine shall be free from defects in material and workmanship.

Allied Machine's sole and exclusive obligation under this warranty is limited to, at its option, without additional charge, replacing or repairing this product or issuing a credit. For this warranty to be applied, the product must be returned freight prepaid to the plant designated by an Allied Machine representative and which, upon inspection, is determined by Allied Machine to be defective in material and workmanship.

Complete information as to operating conditions, machine, setup, and the application of cutting fluid should accompany any product returned for inspection. This warranty shall not apply to any Allied Machine products which have been subjected to misuse, abuse, improper operating conditions, improper machine setup or improper application of cutting fluid or which have been repaired or altered if such repair or alteration, in the judgement of Allied Machine, would adversely affect the performance of the product.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Allied Machine shall have no liability or responsibility for any claim, whether in contract, tort or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery or use of any product sold hereunder, in excess of the cost of replacement or repair as provided herein.

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