

# section B10-K

**Special Boring Solutions** 

## Wohlhaupter<sup>®</sup> Special Boring Solutions



STREET, STREET

**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 save you time and money.

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

phone: 330.343.4283 ext: 7611 | email: appeng@alliedmachine.com

Your safety and the safety of others is very important. This catalog 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 catalog, look for a related safety message that may be near this triangle or referred to in the nearby text.

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

#### **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





Machining



Energy

Oil & Gas

### Wohlhaupter<sup>®</sup> Special Boring Solutions Table of Contents

### Special Tooling Solutions

EK Goover   Lay Down Cartridge						2
Anti-Vibration   Multistep Boring Tool						3
OD Turning Tool   Padded Line Boring Tool						4
3E <sup>TECH</sup> Special Tools						5
DigiBore Special Boring Tools						6
Combi-Line Special Boring Tool						7

#### **Online Tools**

ToolMD®	•	•		•	•	ŀ	•				8
Boring Insert Selector					1						9

#### EK Groover | Lay Down Cartridge

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## GROOVING TOOLS

- ▶ 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

## **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



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**OD TURNING TOOLS** 

Improve surface finish and feature concentricity

Multistep OD turning

Drastically reduce cycle time

#### OD Turning | Padded Line Boring Tool

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INDEX



## 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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NOTE: Imperial item pictured

NOTE: Adjustment accuracy of 0.0001" or 0.002 mm on diameter

**3ETECH BORING TOOL** 

## **MULTISTEP BORING TOOL**

- ▶ Easy diameter adjustments with 3E<sup>TECH</sup>
- One digital readout module to use on all steps

**3ETECH BORING TOOL** 

## LINE BORING TOOL

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

NOTE: Imperial item pictured

or 0.002 mm on diameter

NOTE: Adjustment accuracy of 0.0001"

#### **DigiBore Special Boring Tools**

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## 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

#### ToolMD

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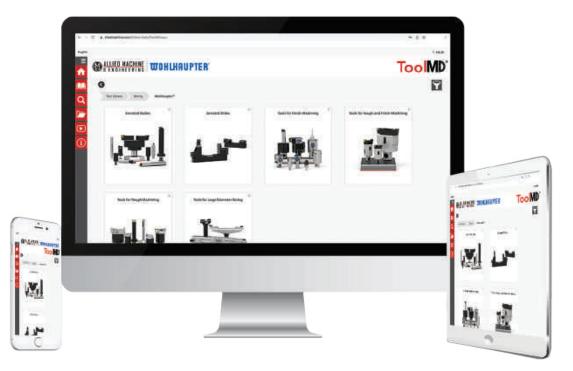
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## TooMD<sup>®</sup> www.toolmd.com



#### 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.





Design anytime from anywhere. Available online 24/7.

B10-K: 8

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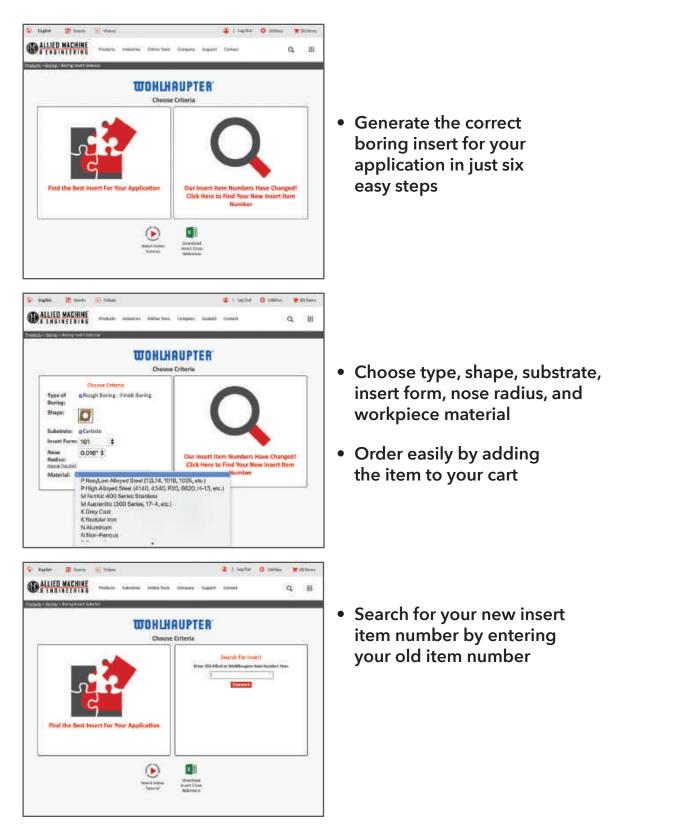
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## **WOHLHAUPTER**<sup>®</sup> | Boring Insert Selector

www.alliedmachine.com/bis



Distributor PO #

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

IMPO	ORTANT: For	processing, send Pu	urchase O	rder to your Allied F	ield Sales Engir	eer (FSE). P	lease clearly	mark the paper	work as "Test Or	der."		
Compar Contact Account Phone: Email:	 t Number: 			ites, speeds and feeds	Company Contact: Industry: Phone: Email:			riencing				
Test O	bjective	List what would mak	e this a suc	cessful test (i.e. pene	tration rate, finis	h, tool life, h	ole size, etc.)					
Applic	ation Inform	nation										
Preex	Diameter: iisting Diamete ired Finish:	r:	in/mm	Tolerance: _		n/mm		(4150 / A36 / Cast Iron / etc.) ::(BHN / Rc)				
	ine Informa						State:	(Casting / H	ot rolled / Forging)			
		Lathe / Screw machine /			r:(Haas	Mori Seiki, etc	)	Model #:	нр/к	W		
G	ty: xcellent Good oor	(CAT50 / Morse Orientation: Vertical Horizontal	Too	ol Rotating: Yes No				Thrust:	lbs/N	I		
Coolai	nt Informati	on										
	Int Delivery:	(T	hrough tool	/ Flood) vater soluble, etc.)		int Pressure: int Volume:			PSI / bar GPM / LPI	M		
Reque	ested Toolin	g		Item Number			(	S E N Allied	ED MACH GINEER Machine & Engin 120 Deed Dover, OH ephone: (330) 34:	<b>N G</b> neering ls Drive 44622		

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## ENGINEERING

## 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.

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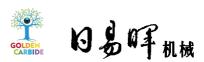
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