

North America

Allied Machine

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ThreadMills USA™

4185 Crosstowne Ct #B Evans, GA 30809 United States

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Allied Machine

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

We continue to expand our product offering in order to provide new and different solutions. With Field Sales Engineers located around the world, we position ourselves to provide technical support on site, right at your spindle.



www.alliedmachine.com



Holemaking Solutions for Today's Manufacturing

BT-A Drill

The Foundation

Since 1941, Allied Machine & Engineering has provided 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 three manufacturing facilities in Ohio, one in Georgia, another in Germany, and headquarters in both the United States and Europe, Allied Machine is positioned to bring innovative solutions and technical expertise directly 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, burnishing, porting, and threading.

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.



The People

Allied Machine understands that high quality products are only one facet of success. Our customer support is crucial to what we do, and that's why we make sure the best engineers and customer service associates are in place to assist our customers around the world.

The T-A®

When Harold's son, William H. Stokey, became the president and CEO, he developed the Throw Away, or T-A, spade drill insert system. The T-A revolutionized the holemaking industry, launching Allied Machine ahead of the competition. Since then, numerous innovations and advancements have been created from the T-A's inspiration.



The Future

With over 75 years of experience, Allied Machine has encountered the challenges of growth and success. By investing in cutting edge technology and the brightest and sharpest minds, our knowledge and capabilities continue to expand and grow every day.

[허정 [] (국정 [다)]

Steve Stokey Executive Vice President William H. Stokey President and CEO Mike Stokey Executive Vice President

WOHLHAUPTER



Replaceable Insert Drills

- Reduce costs by decreasing set-up time and utilizing a single holder for the lives of multiple inserts
- Provide flexibility to quickly switch between inserts with different geometries
- Products:
 - GEN3SYS® XT | GEN3SYS® XT Pro
 - Original T-A[®] | GEN2 T-A[®]
 - High Performance | Universal



- Protect your investment and reduce your inventory with replaceable cartridges that allow the same holder to be used repeatedly
- Indexable inserts increase productivity and tool life while reducing costs
- Products:
- 4TEX® Drill
- Revolution Drill®
- Opening Drill®





Replaceable / Indexable Insert Drills

- Allow for higher spindle speeds and take advantage of the power curve on modern CNC machines
- Achieve maximum penetration rates in deep hole drilling applications
- Holders cover a range of sizes with the replaceable heads determining the cutting diameter
- Products:
- APX™ Drill



Solid Carbide Drills

- Offer greater strength and stability when drilling tougher materials
- Available in diameters from 3mm 20mm
- Can be made-to-order specifically for your application (Superion[™] quoted specials)
 - ASC 320®
 - Superion™



BTA (STS) Machining Solutions

- The internal ejection system flushes chips and debris from the hole with no interference to the cutting process
- Utilizes the advantages of the T-A® drill insert
- Designed to significantly increase penetration rates over brazed heads and traditional gun drills
- Products:
 - BT-A Drill



Structural Steel Solutions

- Deliver outstanding performance and durability in structural steel applications
- Designed to produce optimal results in difficult-tomachine materials
- · Available in multiple lengths and diameters
- T-A[®] style drills have different insert geometry options to improve performance depending on material
- Products:
 - Original T-A[®] | GEN2 T-A[®]
 - GEN3SYS® XT Pro

Hydraulic Port Contour Cutters

- Save significant time and money by performing four processes in one step
- Replaceable insert design reduces costs, inventory, and set-up times
- Available in 4 industry specifications:
- Imperial: SAE J-1926
- Metric: ISO 6149-1:2006
- Military: SAE AS5202
- John Deere: JDS-G173.1
- Products:
 - AccuPort 432[®]

Enhanced Special Drilling Capabilities

- Allied Machine Engineers are available to meet with you to evaluate your application and recommend the best solution for you
- Special drilling solutions can incorporate advanced features such as adjustable diameter locations, multiple steps, additional coolant designs, special lengths and diameters, and more
- Special drills can drastically reduce your cost-per-hole and increase your overall productivity by eliminating multiple processes and increasing tool life



WOHLHAUPTER°

High Precision Boring Systems

- Designs available for high volume applications that increase rigidity to improve performance
- Versatile boring heads that are flexible with changing applications while maintaining excellent performance
- Provides high precision with absolute repeatability to ensure every part is held to tolerance
- Offers an industry leading modular shank connection that maintains rigidity and reduces inventory on your boring system
- Available with both digital and analog settings
- Products:
 - Wohlhaupter[®] Boring Tools



S.C.A.M.I.[®]

Expandable Reaming Solutions

- Expandable cutting diameters accommodate for wear, which extends tool life
- Replaceable cutting heads and rings reduce waste and improve production time versus solid high speed steel and carbide reamers
- Hold tight tolerances to ensure processes are performed to accurate specifications
- Reduce tooling costs because many items are available for recondition
- Products:
 - ALVAN[®] Reamers





CRITERION

Modular Boring Systems

- The modular capabilities are ideal for use across multiple different projects
- Offers versatile boring heads suitable for all job shops and tooling rooms
- Provides an economical solution for low volume and/ or short-term production applications
- Offers both rough and finish boring solutions
- Products:
 - Criterion[®] Boring Tools



S.C.A.M.I.® Roller Burnishing Solutions

- Produce excellent surface finishes
- Provide accurate size control
- Increase surface hardness
- Solutions for both through hole and blind hole applications
- Products:
 - S.C.A.M.I.® Roller Burnishing Tools



Solid Carbide Thread Mills

- Available with coolant through options
- Cover a wide range of thread forms
- Provide optimal solutions for both high production projects and short-run applications
- Products
 - AccuThread[™] 856
 - AccuThread[™] T3
 - ThreadMills USA™

Replaceable Insert Thread Mills

- 3 insert lengths are available that cover a wide range of thread forms
- Holders can utilize inserts with different pitches and thread forms
- Repeatability is achieved by both the bolt-in style and the pin style locking systems
- Increase tool life by 25 50% with Allied Machine's $AM210^{\circledast}$ coating
- Products
 - AccuThread[™] 856: Bolt-in Style
 - AccuThread[™] 856: Pin Style









SPECIAL CAPABILITIES

When it comes to designing and developing special solutions for customers, Allied Machine is the top choice. If your application requires special tooling, give us a call. Our engineered specials are developed by the brightest engineers in the industry. Most of our standard tooling can be altered as specials, or we can create entirely new concepts for particularly unique applications.

One special tooling solution is Insta-Quote[®], the online system that allows you to design your own special tooling 24/7. Receive a quote and drawings within minutes just by following the steps.

And with the addition of Superion[™] technology and capabilities, we can customize made-to-order solid carbide tools to achieve optimal results for your applications.

Whatever your application, Allied Machine has the answer.



TooMD

Increase the production and success of your applications today.

- Offers direct access to 2D drawings and 3D models
- Assemble and view tool images in your browser
- Download drawings for use in most machining software programs
- Browse products, search item numbers, and save assemblies for future use

toolmd.com



ToolMD

• Compile an order list to be quoted

ALLIED MACHINE

- Search and quickly find components using various criteria
- · Adjust your language and measurement preferences



tool-architect.com



Insta-Quote[®]

Design your custom tooling and receive a drawing and quote...all within minutes.

- Design and quote your own tooling
- Guides you through steps to generate the solution you need
- Features the following products
- T-A® Inserts
- T-A® Holders
- GEN3SYS® XT Holders
- ALVAN® Reamers

iq.alliedmachine.com



Eliminate the wait. Get your program now.

- Choose the best thread mill for your application
- · Create program code for your machine
- Available as a PC download app (that can be used offline)
- Website app available 24/7

Insta-Code also has a **Cycle Time Calculator**



alliedmachine.com/InstaCode

WOHLHAUPTER° **Boring Insert Selector**

Find the best insert for your application.

- Generate the correct boring insert for your job in just six easy steps
- Choose type, shape, substrate, insert form, nose radius, and material
- · Easily order by adding the item to your cart

www.alliedmachine.com/bis

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CALLIED MACHINE

Machinist Tool App

Quickly convert cutting tool parameters for the machine inputs you need.

- Input data to calculate the RPM and speed and feed rates
- Also features the Boring Insert Selector
- Access product literature right at your fingertips



Product Selector

Use the product selector to find the right tool for your application.

- · Guides you through steps to generate the right tool for your application
- Learn about your recommended tool and how to maximize its performance



www.alliedmachine.com/productselector

BT-A Drill

BTA (STS) Deep Hole Machining System

Diameter Range: 0.5100" - 1.8820" (12.95mm - 47.80mm)



Material Ejection with Efficiency

The BT-A Drill (using the single tube system, or STS) conquers deep hole applications in ways other drills simply cannot. The internal ejection system flushes chips and debris from the hole with no interference to the cutting process.

By utilizing the countless advantages of the T-A[®] drill insert, the BT-A design significantly increases penetration rates over brazed heads and traditional gun drills. A specific BT geometry has also been developed to increase productivity in these types of drilling applications.

Excellent hole size and finish

Optimizes chip evacuation

Up to **2x** the penetration rate of traditional BTA heads

Applicable Industries





Agriculture



Equipment





and Die

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.

Aerospace

BT-A Drilling System Contents

Reference Icons

The following icons will appear throughout the catalog to help you navigate between products.



T-A[®] Inserts

Refers to the range of inserts that connect with the corresponding holders



Recommended Cutting Data

Speed and feed recommendations for optimum and safe drilling

Introduction	Information
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System Overview		•		•			•		•	•	2	
Product Nomenclature											3	

T-A Drill Series

0 Series									4
1 Series									5
2 Series									6
3 Series									7

	Diamete	Diameter Range								
Series	Imperial (inch)	Metric (mm)								
0	0.5100 - 0.6959	12.95 - 17.68								
1	0.6960 - 0.9600	17.69 - 24.38								
2	0.9601 - 1.3800	24.39 - 35.05								
3	1.3801 - 1.8820	35.06 - 47.80								

System Overview

BTA Machining

Α

В

BTA machining is the reverse of typical gun drilling systems. The BT-A Drill is a drill head consisting of a holder body and a replaceable tip T-A[®] insert. The drill head threads into an STS (single tube system) cylindrical tube with a diameter smaller than the drill head. The difference in diameter forms an annular area between the hole and the tube OD. This allows high volume coolant to be directed to the cutting edge.





Original T-A Insert: BT-A Geometry (-BT)

- Low thrust web geometry reduces Z-axis requirements
- Tiny chip (-TC) lip geometry improves chip formation
- Polished cutting surface eliminates material build-up



BT-A Single Tube System



BT-A Double Tube (Ejector) System (Quoted Special)



D

Х

3. Diameter

0.7344 = Inch

25.00 = Metric

Product Nomenclature

1. BT-A Drill T-A Insert Series

BTA0 = 0 series T-A insert

BTA1 = 1 series T-A insert

BTA2 = 2 series T-A insert

Attribute

Drill insert range

Holder reference length

Overall length

Shank length

BT-A Drill Holders

BTA2

1

A

RILLING

B

BORING

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804

2

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1.1299

3

2. Tube Size

794

795

796



800

801

802

803

804

805

806

807

808

809

810

811



L

BT-A Drill Tubes

Symbol

 D_1

L₁

L₃

L7



1. BT-A Drill T-A Insert Series	2. Tube Size			3. Length
BTAT = BT-A Tube	794	800	806	63 = Standard
	795	801	807	102 = Long
	796	802	808	
	797	803	809	
	798	804	810	
	799	805	811	

Reference Key

Symbol	Attribute
<i>D</i> ₁	Body diameter
ID ₁	Internal diameter
<i>L</i> ₁	Overall length



Tube Size _____

 D_1

0

С

REAMING

D

BURNISHING

0 Series | Diameter Range: 0.5100" - 0.6959" (12.95mm - 17.68mm)



				Holder	I		0_0	
	Tube Size	D ₁	L ₃	L ₁	L7	Part No.	T-A [®] Insert	Wrench Flat (mm)
	794	0.5100 - 0.5359	1-45/64	2-39/64	29/32	BTA0-794-X.XXXX	1C10H-XXXX-BT	11
	795	0.5360 - 0.5759	1-3/4	2-21/32	29/32	BTA0-795-X.XXXX	1C10H-XXXX-BT	12
0	796	0.5760 - 0.6149	1-13/16	2-3/4	61/64	BTA0-796-X.XXXX	1C10H-XXXX-BT	13
	797	0.6150 - 0.6579	1-13/16	2-3/4	61/64	BTA0-797-X.XXXX	1C10H-XXXX-BT	14
	798	0.6580 - 0.6959	1-25/32	2-47/64	61/64	BTA0-798-X.XXXX	1C10H-XXXX-BT	15
		-	1	1	- -	-		
	794	12.95 - 13.61	43.4	66.4	23	BTA0-794-XX.XX	1C10H-XXXX-BT	11
	795	13.62 - 14.63	44.6	67.6	23	BTA0-795-XX.XX	1C10H-XXXX-BT	12
0	796	14.64 - 15.62	45.9	69.9	24	BTA0-796-XX.XX	1C10H-XXXX-BT	13
	797	15.63 - 16.71	45.9	69.9	24	BTA0-797-XX.XX	1C10H-XXXX-BT	14
	798	16.72 - 17.68	45.3	69.3	24	BTA0-798-XX.XX	1C10H-XXXX-BT	15



			Tube		
	Tube Size	<i>D</i> ₁	ID ₁	L ₁	Part No.
	794	0.433	0.276	63	BTAT794-63
	794	0.433	0.276	102	BTAT794-102
Γ	795	0.472	0.315	63	BTAT795-63
	795	0.472	0.315	102	BTAT795-102
0	796	0.512	0.335	63	BTAT796-63
U	796	0.512	0.335	102	BTAT796-102
	797	0.551	0.354	63	BTAT797-63
	797	0.551	0.354	102	BTAT797-102
	798	0.591	0.394	63	BTAT798-63
	798	0.591	0.394	102	BTAT798-102

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1 Series | Diameter Range: 0.6960" - 0.9600" (17.69mm - 24.38mm)







				Holder	1			
	Tube Size	<i>D</i> ₁	L ₃	L ₁	L7	Part No.	T-A [®] Insert	Wrench Flat (mm)
	799	0.6960 - 0.7449	2-15/64	3-9/32	63/64	BTA1-799-X.XXXX	1C11H-XXXX-BT	16
	800	0.7450 - 0.7879	2-5/16	3-27/64	1-7/64	BTA1-800-X.XXXX	1C11H-XXXX-BT	17
0	801	0.7880 - 0.8589	2-11/32	3-35/64	1-13/64	BTA1-801-X.XXXX	1C11H-XXXX-BT	18
	802	0.8590 - 0.9489	2-25/64	3-11/16	1-19/64	BTA1-802-X.XXXX	1C11H-XXXX-BT	19
	803	0.9490 - 0.9600	2-33/64	3-13/16	1-19/64	BTA1-803-X.XXXX	1C11H-XXXX-BT	21
			r		I	Γ	F	
	799	17.69 - 18.92	58.2	83.2	25	BTA1-799-XX.XX	1C11H-XXXX-BT	16
	800	18.93 - 20.01	58.8	86.8	28	BTA1-800-XX.XX	1C11H-XXXX-BT	17
0	801	20.02 - 21.81	59.4	89.9	30.5	BTA1-801-XX.XX	1C11H-XXXX-BT	18
	802	21.82 - 24.10	60.7	93.7	33	BTA1-802-XX.XX	1C11H-XXXX-BT	19
	803	24.11 - 24.38	63.9	96.9	33	BTA1-803-XX.XX	1C11H-XXXX-BT	21



			Tube		
	Tube Size	D1	ID ₁	L ₁	Part No.
	799	0.630	0.413	63	BTAT799-63
	799	0.630	0.413	102	BTAT799-102
	800	0.669	0.453	63	BTAT800-63
	800	0.669	0.453	102	BTAT800-102
6	801	0.709	0.472	63	BTAT801-63
	801	0.709	0.472	102	BTAT801-102
	802	0.787	0.512	63	BTAT802-63
	802	0.787	0.512	102	BTAT802-102
	803	0.866	0.551	63	BTAT803-63
	803	0.866	0.551	102	BTAT803-102



В

BORING

С

REAMING

D

BURNISHING

Е

THREADING

2

С

REAMING

D

BURNISHING

2 Series | Diameter Range: 0.9601" - 1.3800" (24.39mm - 35.05mm)



				Holder	I		00	
	Tube Size	<i>D</i> ₁	L ₃	L ₁	L7	Part No.	T-A [®] Insert	Wrench Flat (mm)
	803	0.9601 - 1.0399	3-3/32	4-25/64	1-19/64	BTA2-803-X.XXXX	1C12H-XXXX-BT	21
	804	1.0400 - 1.1299	3	4-3/32	1-7/64	BTA2-804-X.XXXX	1C12H-XXXX-BT	22
0	805	1.1300 - 1.2209	2-31/32	4-25/64	1-27/64	BTA2-805-X.XXXX	1C12H-XXXX-BT	25
	806	1.2210 - 1.3119	3-1/16	4-31/64	1-27/64	BTA2-806-X.XXXX	1C12H-XXXX-BT	27
	807	1.3120 - 1.3800	3-1/16	4-31/64	1-27/64	BTA2-807-X.XXXX	1C12H-XXXX-BT	30
	1	Γ	1			T	F	
	803	24.39 - 26.41	78.5	111.5	33	BTA2-803-XX.XX	1C12H-XXXX-BT	21
	804	26.42 - 28.70	75.9	103.9	28	BTA2-804-XX.XX	1C12H-XXXX-BT	22
0	805	28.71 - 31.01	75.4	111.4	36	BTA2-805-XX.XX	1C12H-XXXX-BT	25
	806	31.02 - 33.32	77.9	113.8	36	BTA2-806-XX.XX	1C12H-XXXX-BT	27
	807	33.33 - 35.05	77.9	113.8	36	BTA2-807-XX.XX	1C12H-XXXX-BT	30



	Tube Size	<i>D</i> ₁	ID ₁	<i>L</i> ₁	Part No.
	803	0.866	0.551	63	BTAT803-63
	803	0.866	0.551	102	BTAT803-102
	804	0.945	0.610	63	BTAT804-63
0	804	0.945	0.610	102	BTAT804-102
U	805	1.024	0.669	63	BTAT805-63
	805	1.024	0.669	102	BTAT805-102
	806	1.102	0.728	102	BTAT806-102
	807	1.181	0.787	102	BTAT807-102

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3 Series | Diameter Range: 1.3801" - 1.8820" (35.06mm - 47.80mm)



				Holder			
	Tube Size	<i>D</i> ₁	L ₃	L ₁	L ₇	Part No.	Wrench Flat (mm)
	807	1.3801 - 1.4259	3-13/16	5-15/64	1-27/64	BTA3-807-X.XXXX	30
	808	1.4260 - 1.5599	3-15/16	5-11/16	1-3/4	BTA3-808-X.XXXX	32
0	809	1.5600 - 1.6929	4-1/16	5-3/4	1-11/16	BTA3-809-X.XXXX	36
	810	1.6930 - 1.8509	4-1/64	5-45/64	1-11/16	BTA3-810-X.XXXX	41
	811	1.8510 - 1.8820	4-1/16	5-3/4	1-11/16	BTA3-811-X.XXXX	41
	807	35.06 - 36.22	96.8	132.8	36	BTA3-807-XX.XX	30
	808	36.23 - 39.62	100.0	144.4	44.5	BTA3-808-XX.XX	32
0	809	39.63 - 43.00	103.1	146.2	43	BTA3-809-XX.XX	36
	810	43.01 - 47.01	101.9	144.9	43	BTA3-810-XX.XX	41
	811	47.02 - 47.80	103.2	146.2	43	BTA3-811-XX.XX	41

Wrench Flat



	Tube Size	<i>D</i> ₁	ID ₁	L ₁	Part No.
	807	1.181	0.787	102	BTAT807-102
	808	1.299	0.906	102	BTAT808-102
0	809	1.417	0.984	102	BTAT809-102
Ī	810	1.535	1.102	102	BTAT810-102
	811	1.693	1.220	102	BTAT811-102

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В

BORING

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REAMING

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BURNISHING



Imperial (in)Metric (mm)

A93: 7

DRILLING | BT-A Drill: BTA (STS) Deep Hole Machining System

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Guaranteed Test / Demo Application Form

Distributor PO #

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

Phone: Email:		s, substrates, speeds and feeds,	_ Phone:		riencing	
Test Objective	List what would make	this a successful test (i.e. penet	ration rate, finish, tool life, l	hole size, etc.)		
Application Infor	mation					
Hole Diameter:	ir	n/mm Tolerance:		Material:		/ Cast Iron / etc.)
Pre-existing Diamet	er: ir	ı/mm Depth of Cut:	in/mm	Hardness:	(B	HN / Rc)
Required Finish:	R	MS		State:	(Casting / He	ot rolled / Forging)
Machine Informa	ition					
	(Lathe / Screw machine / M		: (Haas, Mori Seiki, e	tc.)	Model #:	
Shank Required:	(CAT50 / Morse t	aper, etc.)			Power:	HP/KW
Rigidity: Excellent Good Poor	Orientation:	Tool Rotating:			Thrust:	lbs/N
Coolant Informat	ion					
Coolant Delivery:		ough tool / Flood)	Coolant Pressure	:		PSI / bar
Coolant Type:	(Air mist, oil, s	ynthetic, water soluble, etc.)	Coolant Volume:			GPM / LPM
Requested Toolin QTY Item Number		QTY Item Number				D MACHINE G I N E E R I N G Machine & Engineering 120 Deeds Drive Dover, OH 44622
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ALLIED MACHINE 8 ENGINEERING

Warranty Information

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Allied Machine & Engineering warrants to original equipment manufacturers, distributors, industrial and commercial users of its products that each new product manufactured or supplied by Allied Machine shall be free from defects in material and workmanship.

Allied Machine's obligation under this warranty is limited to furnishing without additional charge a replacement or, at its option repairing or issuing credit for any product which shall within one year from the date of sale 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 materials or workmanship.

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

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