

North America

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Wohlhaupter® India

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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

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.

APX[™] Drill

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.



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



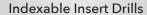




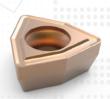


Replaceable Insert Drills

- 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

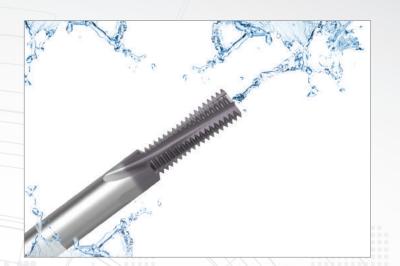
Modular Boring Systems

- 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

WOHLHAUPTER[®] Tool-Architect

Find the right Wohlhaupter[®] solution for your application.

- Configure your complete tool assembly
- Compile an order list to be quoted
- Search and quickly find components using various criteria
- Adjust your language and measurement preferences



tool-architect.com

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



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



Eliminate the wait. Get your program now.

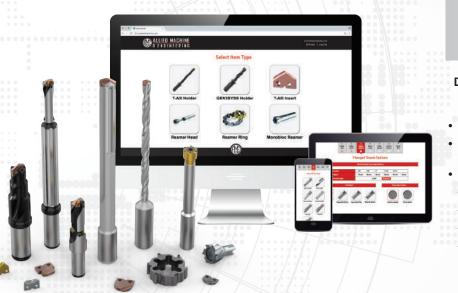
- Choose the best thread mill for your application
- Create program code for your machine
- Available as a PC download app (that can be used offline)
 Website app available 24/7



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



alliedmachine.com/InstaCode



iq.alliedmachine.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

Solution Hub App

All Allied all the time.

- Quickly look up product information
- Links to our free online tools
- Distributor locator
- Stay up to date on news and events







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



APX™ Drill

Deep Hole / Large Diameter Drilling System

Diameter Range: 1.2992" - 4.0000" (33.00mm - 101.60mm)

Don't Let Your Machine Slow You Down

The APX deep hole/large diameter drilling system delivers the strength and versatility needed for any deep hole drilling application. The breakthrough geometry is designed to increase penetration rates and tool life. By allowing for higher spindle speeds, the APX lets you take advantage of the power curve on modern CNC machines.

Excellent chip control

Improves hole quality and surface finish

Provides maximum durability and stability

Applicable Industries

Agriculture













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.

APX™ Drill Contents

Reference Icons

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

Setup / Assembly Information Detailed instructions and information regarding the corresponding part(s)

Recommended Cutting Data Speed and feed recommendations for optimum and safe drilling



GEN3SYS® Pilot Inserts Lists the GEN3SYS XT pilot insert

options for each APX Drill series



T-A[®] Pilot Inserts

Lists the Original T-A® and GEN2 T-A® pilot insert options for each APX Drill series

	Diameter Range								
Series	Imperial (inch)	Metric (mm)							
33	1.2992 - 1.4960	33.00 - 37.99							
38	1.4691 - 1.7322	38.00 - 43.99							
44	1.7323 - 2.0078	44.00 - 50.99							
51	2.0079 - 2.2440	51.00 - 56.99							
57	2.2441 - 2.4802	57.00 - 62.99							
63	2.4803 - 2.7558	63.00 - 69.99							
70	2.7559 - 2.9920	70.00 - 75.99							
76	2.9921 - 3.2676	76.00 - 82.99							
83	3.2677 - 3.5038	83.00 - 88.99							
89	3.5039 - 3.7401	3.5039 - 3.7401 89.00 - 94.99							
95	3.7402 - 4.0000	3.7402 - 4.0000 95.00 - 101.60							

Introduction Information

Drill Selection Guide / Assembly Details		•						2	- 3
Pilot Insert Options / Details									4
Product Nomenclature								• •	5

Drill Series

33 Series												6 - 7
38 Series												8 - 9
44 Series												10 - 11
51 Series		•	•									12 - 13
57 Series					•							14 - 15
63 Series				1			+					16 - 17
70 Series				i			+					18 - 19
76 Series		;										20 - 21
83 Series					•				•	r		22 - 23
89 Series	i	•			•	i	•	÷	•			24 - 25
95 Series	•				•	-					•	26 - 27

Recommended Cutting Data

Imperial (inch) .		•				•	•		•					. 28	
Metric (mm) .			·				•	÷	÷	÷	÷	÷	÷	. 29	
Deep Hole Drilling Guidelines .			•	•	•	•								. 30	

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Drill Selection Guide

Series

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REAMING

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D ₅ inch	1.2992 - 1.4960	1.4691 - 1.7322	1.7323 - 2.0078	2.0079 - 2.2440	2.2441 - 2.4802
D ₅ mm	33.00 - 37.99	38.00 - 43.99	44.00 - 50.99	51.00 - 56.99	57.00 - 62.99
ISO Material	PSM HKN	P S M H K N	PSM HKN	PSM HKN	PSM HKN
IC Insert Shape	Ó		Ó	Ó	
IC Insert Size	5/16"	3/8"	3/8", 1/2"	1/2", 9/16"	9/16"
Wear Pads	NO	NO	NO	NO	NO
Holders			^	^	
Drill Depth (inch)	4-7/16 - 14-29/32	5-1/8 - 17-1/4	6 - 20-1/8	6-3/8 - 22-3/8	7-1/8 - 24-3/4
Drill Depth (mm)	112.6 - 378.6	130.5 - 439.9	151.5 - 510.0	161.8 - 570.0	179.9 - 626.9
Pilot Insert					
T-A Series	0, 1	0, 1	1	1	1, 2
GEN3SYS XT Series	16, 18, 20	15, 17, 18, 20	17, 18, 22	18, 20, 22	22, 24, 26

44

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57



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THREADING

T-A® Style Pilot Insert Head

- Utilizes both Original T-A® and GEN2 T-A® inserts (0 - 2 series)
- Multiple geometry options are available to achieve optimal results in different types of applications



GEN3SYS® XT Style Pilot Insert Head

- Utilizes GEN3SYS[®] XT inserts (15 32 series) •
- Multiple geometry options are available to • achieve optimal results in different types of applications

- The design allows for excellent chip control and aggressive penetration rates
- The proprietary AM300[®] coatings increase tool life abov competitors' premium coatings

Insert Application	Recommendations

Carbide Grade	Options						
C5 (P35)	General purpose carbide grade suitable for most applications. ► Common application in steels and stainless steels.						
C1 (K35)	Toughest carbide grade. Provides the best combination of edge strength and tool life. ▶ Recommended for less rigid applications.						
C2 (K25)	Higher wear resistant carbide suitable for abrasive material applications. ▶ Recommended for grey, ductile, and nodular irons.						
Additional Geometry Option							
High Rake (HR) Provides superior chip control and tool life in long chipping carbon and alloy steels below 200 Bhn.						





63	70	76	83	89	95
16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27
2.4803 - 2.7558	2.7559 - 2.9920	2.9921 - 3.2676	3.2677 - 3.5038	3.5039 - 3.7401	3.7402 - 4.0000
63.00 - 69.99	70.00 - 75.99	76.00 - 82.99	83.00 - 88.99	89.00 - 94.99	95.00 - 101.60
P S M H K N	PSM HKN	PSM HKN	PSM HKN	PSM HKN	PSM HKN
9/16"	3/8"	1/2"	1/2"	9/16"	9/16"
NO	YES	YES	YES	YES	YES
7-7/8 - 27-1/8	8-3/4 - 27-7/8	9-1/2 - 26-1/8	10-1/8 - 27-3/4	10-7/8 - 27-5/8	11-7/8 - 27-1/2
200.8 - 688.3	218.8 - 709.4	239.9 - 664.0	257.8 - 704.9	275.8 - 701.8	302.0 - 698.5
2	2	2	2	2	2
26, 29, 32	29	29	32	29	32



Step 1:

Lower the APX head assembly onto the APX holder.

Step 2:

Insert the head mounting screws into points A and B. Tighten until the head is properly secured to the holder.

Step 3:

Tighten with the head mounting driver using the torque setting chart below.

Torque Setting Chart

Series	Screw	Driver	Torque
33 - 63	75020-IP20-1	8IP-20	60 in-lb (678 N-cm)
70 - 95	78027-IP30-1	8IP-30B	250 in-lb (2825 N-cm)

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Pilot Insert Options

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THREADING



GEN2 T-A Standard

- · Designed for rigid machining applications, primarily used for drilling exotic and high alloy materials
- Ideal for general use when the surface speed needs to be increased

GEN2 T-A High Efficiency (-HE)

- Designed for improved chip formation in elastic materials like low carbon steels
- · Maximizes performance and increases value

Original T-A Standard

- Excellent choice for general purpose use
- Provides fast penetration rates that produce good hole size and finish
- Combines highly efficient, stable cutting action to minimize power consumption

Original T-A Tiny Chip (-TC)

- · Unique lip and point design for excellent chip control
- Improved capabilities in long-chipping materials such as low carbon steels and soft alloy steels
- Enhanced performance in lower powered machines for better chip formation at lower feed rates

Original T-A High Impact (-HI)

- Designed to enhance chip formation in materials with high elasticity/ductility and poor chip forming characteristics
- SK2 corner preparation for increased tool life
- Improves chip formation in structural, cast, and forged steels



Standard Geometry

- Designed with corner and cutting edge enhancements to deliver more reliability, durability, and productivity
- Increases penetration rates and tool life
- Available in C1 or C2 carbide

Cast Iron Geometry (-CI)

- Increases durability and tool life in ductile, • nodular, and grey cast irons
- Available in C2 carbide

Low Rake Geometry (-LR)

- The toughest XT geometry available
- Designed for harder steels and less than ideal machining applications
- Available in C1 or C2 carbide

Stainless Steel Geometry (-AS)

- Designed with a specific geometry to provide unmatched chip control and tool life in austenitic and PH stainless steels, as well as high temperature alloys such as Inconel, Hastelloy, and Titanium alloys
- Available in C2 carbide







NOTE: For a complete offering of pilot inserts, see sections A20 (GEN3SYS Drilling Systems) and A30 (T-A Drilling Systems) of our catalog.

Product Nomenclature

APX Drill Heads

1. APX Head V = Head

v	38	15	D	–	0116
1	2	3	4		5

	2. Series	
	33 = 33 series	70 = 70 series
	38 = 38 series	76 = 76 series
	44 = 44 series	83 = 83 series
	51 = 51 series	89 = 89 series
	57 = 57 series	95 = 95 series
	63 = 63 series	

5. Major Diameter

1.5153 = Decimal

0116 = Inch

68 = Metric

3. Pilot Series		
T-A® Pilot Insert	GEN3SYS [®] XT Pilot	Insert
00 = 0 series	15 = 15 series	24 = 24 series
01 = 1 series	17 = 17 series	26 = 26 series
02 = 2 series	18 = 18 series	29 = 29 series
	20 = 20 series	32 = 32 series
	22 = 22 series	
02 = 2 series	20 = 20 series	

Ordering Non-Stocked Diameters:

Non-stocked diameters are also available. Please refer to the price list for applicable process fees. Follow the ordering examples below:

• Inch: 38 series, T-A (1 series), 1.6790" = V3801D-1.6790

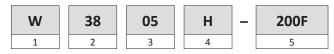
• Metric: 38 series, T-A (1 series), 42.15mm = V3801D-42.15

APX Drill Holders

4. Effective Cutting

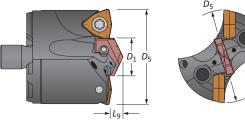
D = Double effective

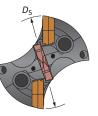
S = Single effective





1. APX Holder	2. Series	3. Drill Length	4. Flute Style 5. Shank	
W = Holder	33 = 33 series 70 = 70 series	03 = 3xD	H = Helical 150F = 1-1/2" flang	ged straight shank
	38 = 38 series 76 = 76 series	05 = 5xD	200F = 2" flanged s	straight shank
	44 = 44 series 83 = 83 series	08 = 8xD	40FM = 40mm flan	ged straight shank
	51 = 51 series 89 = 89 series	10 = 10xD	50FM = 50mm flam	ged straight shank
	57 = 57 series 95 = 95 series		CV40 = CAT40 integ	gral shank
	63 = 63 series		CV50 = CAT50 integ	gral shank

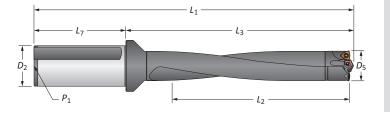






Reference Key

Symbol	Attribute
<i>D</i> ₁	Pilot insert diameter
D ₅	Major cutting diameter
L ₉	Pilot insert length



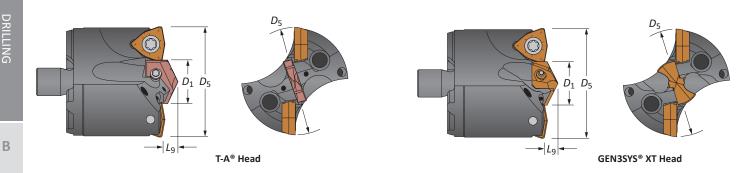
Reference Key

Symbol	Attribute	Symbol	Attribute
D2	Shank diameter	L ₃	Holder reference length
D ₅	Drill diameter range	L ₇	Shank length
L ₁	Overall length	P ₁	Rear pipe tap
L ₂	Drill depth		

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33 Series | Diameter Range: 1.2992" - 1.4960" (33.00mm - 37.99mm)



Heads BORING

1-7/16

33

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		Head			T-A Head			
D₅ fractional	D₅ inch	D ₅ mm	D ₁	Lg	Part No.	Pilot Series	GEN2 T-A Insert	T-A (-TC) Insert
-	1.2992	33.00	16	1/4	V3300D-33	0	4C*0H-16	1C10H-16-TC
1-5/16	1.3125	33.34	16	1/4	V3300D-0110	0	4C*0H-16	1C10H-16-TC
-	1.3386	34.00	18	1/4	V3301D-34	1	4C*1H-18	1C11H-18-TC
1-11/32	1.3438	34.13	18	1/4	V3301D-0111	1	4C*1H-18	1C11H-18-TC
1-3/8	1.3750	34.93	18	1/4	V3301D-0112	1	4C*1H-18	1C11H-18-TC
-	1.3780	35.00	18	1/4	V3301D-35	1	4C*1H-18	1C11H-18-TC
1-13/32	1.4063	35.72	18	1/4	V3301D-0113	1	4C*1H-18	1C11H-18-TC
-	1.4173	36.00	20	1/4	V3301D-36	1	4C*1H-20	1C11H-20-TC

V3301D-0114

V3301D-0115

V3301D-37

1.4688 37.31 20 1-15/32 *Denotes carbide grade (1 = C1, 2 = C2)

36.51

37.00

20

20

1/4

1/4

1/4

1.4375

1.4567

IC Inserts

	Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Admissible Tightening Torque*
ļ	AM300®	5/16	C5 (P35)	Standard	OP-05T308-PW	IS-10-1	8IP-10	27.0 in-lbs (305 N-cm)
ŀ	AM300®	5/16	C1 (K35)	Standard	OP-05T308-1PW	IS-10-1	8IP-10	27.0 in-lbs (305 N-cm)
ŀ	AM300®	5/16	C2 (K25)	Standard	OP-05T308-2PW	IS-10-1	8IP-10	27.0 in-lbs (305 N-cm)
A	4M300®	5/16	C5 (P35)	High Rake	OP-05T308-PWHR	IS-10-1	8IP-10	27.0 in-lbs (305 N-cm)

4C*1H-20

4C*1H-20

4C*1H-20

1

1

1

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	0	72567-IP8-1	8IP-8	15.5 in-lbs (175 N-cm)
T-A	1	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	16	72556-IP8-1	8IP-8	15.5 in-lbs (175 N-cm)
GEN3SYS	18	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	20	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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Key	I
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A5	
	l

: 28 - 29	A50: 2 - 5





Non-stocked diameters are also available. Follow the examples shown below.					
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790			
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15			

IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

GEN3SYS XT Head

Pilot

Series

16

16

18

18

18

18

18

20

20

20

20

Pilot Insert

7C*16P-16

7C*16P-16

7C*18P-18

7C*18P-18

7C*18P-18

7C*18P-18

7C*18P-18

7C*20P-20

7C*20P-20

7C*20P-20

7C*20P-20

Part No.

V3316D-0110

V3318D-0111

V3318D-0112

V3318D-0113

V3320D-0114

V3320D-0115

V3318D-35

V3320D-36

V3320D-37

1C11H-20-TC

1C11H-20-TC

1C11H-20-TC

V3316D-33

V3318D-34

IC

Insert

Size

5/16

5/16

5/16

5/16

5/16

5/16

5/16

5/16

5/16

5/16

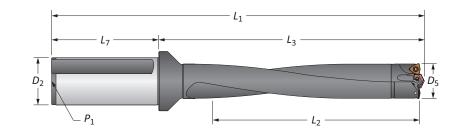
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THREADING

33 Series | Diameter Range: 1.2992" - 1.4960" (33.00mm - 37.99mm)



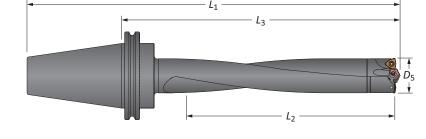


Straight Shank

			Body		Shank				
	Length	D ₅	L ₂	L ₃	L ₁	L7	D ₂	<i>P</i> ₁	Part No.
	3xD	1.2992 - 1.4690	4-7/16	6-19/32	9-9/32	2-11/16	1-1/2	1/4	W3303H-150F
0	5xD	1.2992 - 1.4690	7-27/64	9-37/64	12-9/32	2-11/16	1-1/2	1/4	W3305H-150F
U	8xD	1.2992 - 1.4690	11-59/64	14-5/64	16-3/4	2-11/16	1-1/2	1/4	1 W3308H-150F
	10xD	1.2992 - 1.4690	14-29/32	17-1/16	19-3/4	2-11/16	1-1/2	1/4	A W3310H-150F
	3xD	33.00 - 37.99	112.6	167.4	237.4	70.0	40.0	1/4*	W3303H-40FM
0	5xD	33.00 - 37.99	188.6	243.4	313.4	70.0	40.0	1/4*	W3305H-40FM
W	8xD	33.00 - 37.99	302.6	357.4	427.4	70.0	40.0	1/4*	A W3308H-40FM
	10xD	33.00 - 37.99	378.6	433.4	503.4	70.0	40.0	1/4*	1 W3310H-40FM

*Thread to BSP and ISO 7-1





CAT Integral Shank

		D	5	Body				
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	1.2992 - 1.4690	33.00 - 37.99	4-7/16	7-3/8	10-3/16	CV40	W3303H-CV40
	5xD	1.2992 - 1.4690	33.00 - 37.99	7-27/64	10-23/64	13-11/64	CV40	W3305H-CV40
	8xD	1.2992 - 1.4690	33.00 - 37.99	11-59/64	14-55/64	17-21/32	CV40	A W3308H-CV40
0	10xD	1.2992 - 1.4690	33.00 - 37.99	14-29/32	17-27/32	20-21/32	CV40	A W3310H-CV40
U	3xD	1.2992 - 1.4690	33.00 - 37.99	4-7/16	7-3/8	11-1/2	CV50	W3303H-CV50
	5xD	1.2992 - 1.4690	33.00 - 37.99	7-27/64	10-23/64	14-31/64	CV50	W3305H-CV50
	8xD	1.2992 - 1.4690	33.00 - 37.99	11-59/64	14-55/64	18-31/32	CV50	A W3308H-CV50
	10xD	1.2992 - 1.4690	33.00 - 37.99	14-29/32	17-27/32	21-31/32	CV50	A W3310H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Driver	Admissible Tightening Torque*
75020-IP20-1	8IP-20	60 in-lb (678 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

t WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)
 Metric (mm)

Mounting screws sold in multiples of 4

В

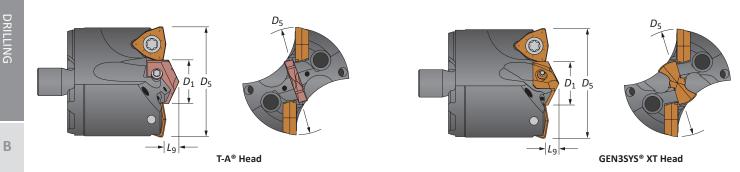
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A50: 7

38 Series | Diameter Range: 1.4691" - 1.7322" (38.00mm - 43.99mm)



T-A Head

Heads

38

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D

BURNISHING

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THREADING

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)													
)	D ₅ fractional	D ₅ inch	D ₅ mm	D ₁	Lg	Part No.	Pilot Series	GEN2 T-A Insert	T-A (-TC) Insert	Part No.	Pilot Series	Pilot Insert	IC Insert Size
	-	1.4691	38.00	5/8	19/64	V3800D-38	0	4C*0H-0020	1C10H-0020-TC	V3815D-38	15	7C*15P-0020	3/8
	1-1/2	1.5000	38.10	5/8	19/64	V3800D-0116	0	4C*0H-0020	1C10H-0020-TC	V3815D-0116	15	7C*15P-0020	3/8
	1-17/32	1.5313	38.90	5/8	19/64	V3800D-0117	0	4C*0H-0020	1C10H-0020-TC	V3815D-0117	15	7C*15P-0020	3/8
•	-	1.5354	39.00	5/8	19/64	V3800D-39	0	4C*0H-0020	1C10H-0020-TC	V3815D-39	15	7C*15P-0020	3/8
	1-9/16	1.5625	39.69	5/8	19/64	V3800D-0118	0	4C*0H-0020	1C10H-0020-TC	V3815D-0118	15	7C*15P-0020	3/8
	-	1.5748	40.00	11/16	19/64	V3800D-40	0	4C*0H-0022	1C10H-0022-TC	V3817D-40	17	7C*17P-0022	3/8
7	1-19/32	1.5938	40.48	11/16	19/64	V3800D-0119	0	4C*0H-0022	1C10H-0022-TC	V3817D-0119	17	7C*17P-0022	3/8
>	-	1.6142	41.00	11/16	19/64	V3800D-41	0	4C*0H-0022	1C10H-0022-TC	V3817D-41	17	7C*17P-0022	3/8
2	1-5/8	1.6250	41.28	11/16	19/64	V3800D-0120	0	4C*0H-0022	1C10H-0022-TC	V3817D-0120	17	7C*17P-0022	3/8
)	-	1.6535	42.00	3/4	19/64	V3801D-42	1	4C*1H-0024	1C11H-0024-TC	V3818D-42	18	7C*18P-0024	3/8
	1-21/32	1.6563	42.07	3/4	19/64	V3801D-0121	1	4C*1H-0024	1C11H-0024-TC	V3818D-0121	18	7C*18P-0024	3/8
	1-11/16	1.6875	42.86	3/4	19/64	V3801D-0122	1	4C*1H-0024	1C11H-0024-TC	V3818D-0122	18	7C*18P-0024	3/8
	-	1.6929	43.00	13/16	19/64	V3801D-43	1	4C*1H-0026	1C11H-0026-TC	V3820D-43	20	7C*20P-0026	3/8

1

*Denotes carbide grade (1 = C1, 2 = C2)

43.66

13/16 19/64

1.7188

Head

IC Inserts

1-23/32

Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Admissible Tightening Torque*
AM300®	3/8	C5 (P35)	Standard	OP-060408-PW	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)
AM300®	3/8	C1 (K35)	Standard	OP-060408-1PW	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)
AM300®	3/8	C2 (K25)	Standard	OP-060408-2PW	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)
AM300®	3/8	C5 (P35)	High Rake	OP-060408-PWHR	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)

4C*1H-0026

1C11H-0026-TC

V3820D-0123

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

V3801D-0123

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	0	72567-IP8-1	8IP-8	15.5 in-lbs (175 N-cm)
T-A	1	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	15	7247-IP7-1	8IP-7	7.4 in-lbs (84 N-cm)
GEN3SYS	17	72567-IP8-1	8IP-8	15.5 in-lbs (175 N-cm)
GEN3SYS	18	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	20	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength



A50: 28 - 29	





Non-stocked diameters are also available. Follow the examples shown below.						
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790				
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15				

IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

GEN3SYS XT Head

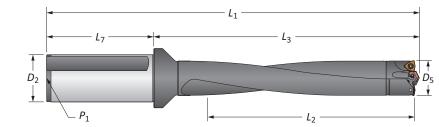
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7C*20P-0026

3/8

38 Series | Diameter Range: 1.4691" - 1.7322" (38.00mm - 43.99mm)



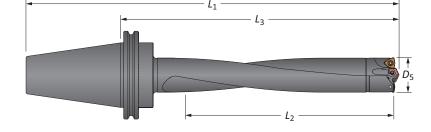


Straight Shank

				Body			Shank		
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	P ₁	Part No.
	3xD	1.4691 - 1.7322	5-1/8	7-47/64	10-25/64	2-11/16	1-1/2	1/4	W3803H-150F
	5xD	1.4691 - 1.7322	8-5/8	11-13/64	13-55/64	2-11/16	1-1/2	1/4	W3805H-150F
	8xD	1.4691 - 1.7322	13-7/8	16-25/64	19-3/64	2-11/16	1-1/2	1/4	A W3808H-150F
0	10xD	1.4691 - 1.7322	17-1/4	19-27/32	22-33/64	2-11/16	1-1/2	1/4	A W3810H-150F
U	3xD	1.4691 - 1.7322	5-1/8	7-47/64	12-15/64	4-1/2	2	1/4	W3803H-200F
	5xD	1.4691 - 1.7322	8-5/8	11-13/64	15-45/64	4-1/2	2	1/4	W3805H-200F
	8xD	1.4691 - 1.7322	13-7/8	16-25/64	20-57/64	4-1/2	2	1/4	A W3808H-200F
	10xD	1.4691 - 1.7322	17-1/4	19-27/32	24-59/64	4-1/2	2	1/4	A W3810H-200F
	3xD	38.00 - 43.99	130.5	196.5	265.7	70.0	40.0	1/4*	W3803H-40FM
	5xD	38.00 - 43.99	220.0	284.5	353.7	70.0	40.0	1/4*	W3805H-40FM
	8xD	38.00 - 43.99	352.0	416.5	485.7	70.0	40.0	1/4*	1 W3808H-40FM
6	10xD	38.00 - 43.99	439.9	503.9	573.7	70.0	40.0	1/4*	A W3810H-40FM
W	3xD	38.00 - 43.99	130.5	196.5	276.5	80.0	50.0	1/4*	W3803H-50FM
	5xD	38.00 - 43.99	220.0	284.5	364.5	80.0	50.0	1/4*	W3805H-50FM
	8xD	38.00 - 43.99	352.0	416.5	496.3	80.0	50.0	1/4*	A W3808H-50FM
	10xD	38.00 - 43.99	439.9	503.9	583.9	80.0	50.0	1/4*	1 W3810H-50FM

*Thread to BSP and ISO 7-1





CAT Integral Shank

		D	5		Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	1.4691 - 1.7322	38.00 - 43.99	5-1/8	8-5/16	11	CV40	W3803H-CV40
	5xD	1.4691 - 1.7322	38.00 - 43.99	8-5/8	11-49/64	14-29/64	CV40	W3805H-CV40
	8xD	1.4691 - 1.7322	38.00 - 43.99	13-7/8	16-31/32	19-21/32	CV40	A W3808H-CV40
0	10xD	1.4691 - 1.7322	38.00 - 43.99	17-1/4	20-7/16	23-1/8	CV40	🛝 W3810H-CV40
U	3xD	1.4691 - 1.7322	38.00 - 43.99	5-1/8	8-5/16	12-5/16	CV50	W3803H-CV50
	5xD	1.4691 - 1.7322	38.00 - 43.99	8-5/8	11-49/64	15-49/64	CV50	W3805H-CV50
	8xD	1.4691 - 1.7322	38.00 - 43.99	13-7/8	16-31/32	20-31/32	CV50	A W3808H-CV50
	10xD	1.4691 - 1.7322	38.00 - 43.99	17-1/4	20-7/16	24-7/16	CV50	A W3810H-CV50

Connection Accessories

Mounting Screw Driver	Admissible Tightening Torque*
8IP-20	60 in-lb (678 N-cm)

www.alliedmachine.com | 1.330.343.4283

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

i = Imperial (in)i = Metric (mm)

Mounting screws sold in multiples of 4

38

B BORING

REAMING

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SPECIALS

Ε

Head

D5

mm

44.00

44.45

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7/8

7/8

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21/64

21/64

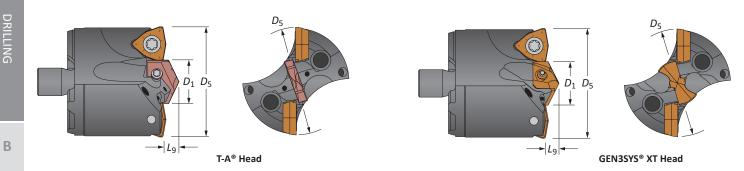
D5

inch

1.7323

1.7500

| Diameter Range: 1.7323" - 2.0078" (44.00mm - 50.99mm) 44 Series



T-A Head

GEN2 T-A Insert

4C*1H-0028

4C*1H-0028

T-A (-TC) Insert

1C11H-0028-TC

1C11H-0028-TC

Pilot

Series

1

1

Part No.

V4401D-0124

V4401D-44

Heads

D5

fractional

1-3/4

44

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-	1.7717	45.00	7/8	21/64	V440	1D-45	1	4C*	1H-0028	1C11H-0028-TC	V4422D-45	22	7C*22P-0028	3/8
1-25/32	1.7813	45.25	7/8	21/64	V440	1D-0125	1	4C*	1H-0028	1C11H-0028-TC	V4422D-0125	22	7C*22P-0028	3/8
-	1.8110	46.00	15/16	21/64	V440	1D-46	1	4C*	1H-0030	1C11H-0030-TC	V4422D-46	22	7C*22P-0030	3/8
1-13/16	1.8125	46.04	15/16	21/64	V440	1D-0126	1	4C*	1H-0030	1C11H-0030-TC	V4422D-0126	22	7C*22P-0030	3/8
1-27/32	1.8438	46.83	15/16	21/64	V440	1D-0127	1	4C*	1H-0030	1C11H-0030-TC	V4422D-0127	22	7C*22P-0030	3/8
-	1.8504	47.00	15/16	21/64	V440	1D-47	1	4C*	1H-0030	1C11H-0030-TC	V4422D-47	22	7C*22P-0030	3/8
1-7/8	1.8750	47.63	15/16	21/64	V440	1D-0128	1	4C*	1H-0030	1C11H-0030-TC	V4422D-0128	22	7C*22P-0030	3/8
-	1.8898	48.00	45/64	21/64	V440	1D-48	1	4C*	'1H703	1C11H703-TC	V4417D-48	17	7C*17P703	1/2
1-29/32	1.9063	48.42	45/64	21/64	V440	1D-0129	1	4C*	'1H703	1C11H703-TC	V4417D-0129	17	7C*17P703	1/2
-	1.9291	49.00	45/64	21/64	V440	1D-49	1	4C*	'1H703	1C11H703-TC	V4417D-49	17	7C*17P703	1/2
1-15/16	1.9375	49.21	45/64	21/64	V440	1D-0130	1	4C*	'1H703	1C11H703-TC	V4417D-0130	17	7C*17P703	1/2
-	1.9685	50.00	47/64	21/64	V440	1D-50	1	4C*	'1H734	1C11H734-TC	V4418D-50	18	7C*18P734	1/2
1-31/32	1.9688	50.01	47/64	21/64	V440	1D-0131	1	4C*	ʻ1H734	1C11H734-TC	V4418D-0131	18	7C*18P734	1/2
2	2.0000	50.80	47/64	21/64	V440	1D-0200	1	4C*	ʻ1H734	1C11H734-TC	V4418D-0200	18	7C*18P734	1/2
*Denotes carbide grade (1 = C1, 2 = C2) IC Inserts														
6				6					C				Admissib	
Coating	Size		ade	Geom			rt No.			ert Screw	Insert Drive	r	Tightening To	
AM300®	3/8		(P35)	Stand			408-PW			95-IP15-1	8IP-15		41.0 in-lbs (465	/
AM300®	3/8	C1 ((K35)	Stand	ard	OP-060	OP-060408-1PW		735	95-IP15-1	8IP-15		41.0 in-lbs (465	5 N-cm)

AM300® 1/2 C2 (K25) Standard OP-080508-2PW AM300® 1/2 C5 (P35) OP-080508-PWHR High Rake *Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

C2 (K25)

C5 (P35)

C5 (P35)

C1 (K35)

Standard

High Rake

Standard

Standard

Pilot Accessories

AM300®

AM300®

AM300®

AM300®

3/8

3/8

1/2

1/2

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	1	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	17	72567-IP8-1	8IP-8	15.5 in-lbs (175 N-cm)
GEN3SYS	18	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	22	739-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)

73595-IP15-1

73595-IP15-1

74012-IP15-1

74012-IP15-1

74012-IP15-1

74012-IP15-1

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

SPECIALS Key on A50: :

A50: 28 - 29	/





OP-060408-2PW

OP-080508-PW

OP-080508-1PW

OP-060408-PWHR

Non-stoc	Non-stocked diameters are also available. Follow the examples shown below.							
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790						
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15						

8IP-15

8IP-15

8IP-15

8IP-15

8IP-15

8IP-15

IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

GEN3SYS XT Head

Pilot

Series

22

22

Pilot Insert

7C*22P-0028

7C*22P-0028

41.0 in-lbs (465 N-cm)

41.0 in-lbs (465 N-cm) 61.0 in-lbs (690 N-cm)

61.0 in-lbs (690 N-cm)

61.0 in-lbs (690 N-cm)

61.0 in-lbs (690 N-cm)

Part No.

V4422D-0124

V4422D-44

IC

Insert

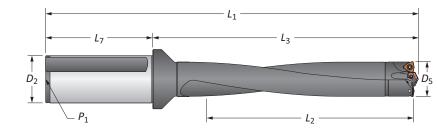
Size

3/8

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44 Series | Diameter Range: 1.7323" - 2.0078" (44.00mm - 50.99mm)



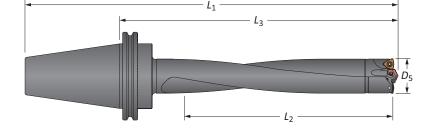


Straight Shank

				Body			Shank		
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	P ₁	Part No.
	3xD	1.7323 - 2.0078	6	8-17/32	11-15/64	2-11/16	1-1/2	1/4	W4403H-150F
	5xD	1.7323 - 2.0078	10	12-35/64	15-1/4	2-11/16	1-1/2	1/4	W4405H-150F
	8xD	1.7323 - 2.0078	16	18-37/64	21-17/64	2-11/16	1-1/2	1/4	1 W4408H-150F
0	10xD	1.7323 - 2.0078	20-1/8	22-19/32	25-9/32	2-11/16	1-1/2	1/4	1 W4410H-150F
U	3xD	1.7323 - 2.0078	6	8-33/64	13-1/32	4-1/2	2	1/4	W4403H-200F
	5xD	1.7323 - 2.0078	10	12-35/64	17-3/64	4-1/2	2	1/4	W4405H-200F
	8xD	1.7323 - 2.0078	16	18-37/64	23-5/64	4-1/2	2	1/4	A W4408H-200F
	10xD	1.7323 - 2.0078	20-1/8	22-19/32	27-3/32	4-1/2	2	1/4	A W4410H-200F
	3xD	44.00 - 50.99	151.5	216.8	286.9	70.0	40.0	1/4*	W4403H-40FM
	5xD	44.00 - 50.99	255.0	318.8	388.9	70.0	40.0	1/4*	W4405H-40FM
	8xD	44.00 - 50.99	407.9	471.8	541.8	70.0	40.0	1/4*	1 W4408H-40FM
0	10xD	44.00 - 50.99	510.0	573.8	643.8	70.0	40.0	1/4*	1 W4410H-40FM
Ψ	3xD	44.00 - 50.99	151.5	216.8	296.9	80.0	50.0	1/4*	W4403H-50FM
	5xD	44.00 - 50.99	255.0	318.8	398.8	80.0	50.0	1/4*	W4405H-50FM
	8xD	44.00 - 50.99	407.9	471.8	551.7	80.0	50.0	1/4*	1 W4408H-50FM
	10xD	44.00 - 50.99	510.0	573.8	653.8	80.0	50.0	1/4*	1 W4410H-50FM

*Thread to BSP and ISO 7-1





CAT Integral Shank

		D ₅			Body			
	Length	inch	mm	L ₂	L ₃	L ₁	Shank	Part No.
	3xD	1.7323 - 2.0078	44.00 - 50.99	6	9-1/4	11-15/16	CV40	W4403H-CV40
	5xD	1.7323 - 2.0078	44.00 - 50.99	10	13-17/64	15-61/64	CV40	W4405H-CV40
	8xD	1.7323 - 2.0078	44.00 - 50.99	16	19-19/64	21-63/64	CV40	4 W4408H-CV40
0	10xD	1.7323 - 2.0078	44.00 - 50.99	20-1/8	23-5/16	26	CV40	🔺 W4410H-CV40
U	3xD	1.7323 - 2.0078	44.00 - 50.99	6	9-1/4	13-1/4	CV50	W4403H-CV50
	5xD	1.7323 - 2.0078	44.00 - 50.99	10	13-17/64	17-17/64	CV50	W4405H-CV50
	8xD	1.7323 - 2.0078	44.00 - 50.99	16	19-19/64	23-19/64	CV50	A W4408H-CV50
	10xD	1.7323 - 2.0078	44.00 - 50.99	20	23-5/16	27-5/16	CV50	1 W4410H-CV50

Connection Accessories

Mounting Screw Driver	Admissible Tightening Torque*
8IP-20	60 in-lb (678 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit **www.alliedmachine.com/DeepHoleGuidelines** for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)Metric (mm)

Mounting screws sold in multiples of 4

44

B

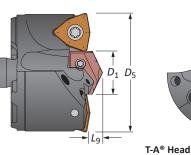
BORING

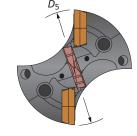
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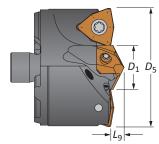
SPECIALS

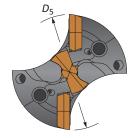
Ε

51 Series | Diameter Range: 2.0079" - 2.2440" (51.00mm - 56.99mm)









IC Insert Size 1/2 1/2 1/2

> 1/2 1/2 1/2

> 1/2 1/2 1/2 1/2 1/2 1/2

9/16

GEN3SYS® XT Head

20

7C*20P-0026

V5120D-0207

Heads

Heads	105										
	Head				T-A Head				GEN3SYS XT Head		
D ₅ fractional	D ₅ inch	D₅ mm	<i>D</i> ₁	Lg	Part No.	Pilot Series	GEN2 T-A Insert	T-A (-TC) Insert	Part No.	Pilot Series	Pilot Insert
-	2.0079	51.00	25/32	11/32	V5101D-51	1	4C*1H-0025	1C11H-0025-TC	V5118D-51	18	7C*18P-0025
2-1/32	2.0313	51.59	25/32	11/32	V5101D-0201	1	4C*1H-0025	1C11H-0025-TC	V5118D-0201	18	7C*18P-0025
-	2.0472	52.00	25/32	11/32	V5101D-52	1	4C*1H-0025	1C11H-0025-TC	V5118D-52	18	7C*18P-0025
2-1/16	2.0625	52.39	25/32	11/32	V5101D-0202	1	4C*1H-0025	1C11H-0025-TC	V5118D-0202	18	7C*18P-0025
-	2.0866	53.00	27/32	11/32	V5101D-53	1	4C*1H-0027	1C11H-0027-TC	V5120D-53	20	7C*20P-0027
2-3/32	2.0938	53.18	27/32	11/32	V5101D-0203	1	4C*1H-0027	1C11H-0027-TC	V5120D-0203	20	7C*20P-0027
2-1/8	2.1250	53.98	27/32	11/32	V5101D-0204	1	4C*1H-0027	1C11H-0027-TC	V5120D-0204	20	7C*20P-0027
-	2.1260	54.00	15/16	11/32	V5101D-54	1	4C*1H-0030	1C11H-0030-TC	V5122D-54	22	7C*22P-0030
2-5/32	2.1563	54.77	15/16	11/32	V5101D-0205	1	4C*1H-0030	1C11H-0030-TC	V5122D-0205	22	7C*22P-0030
-	2.1654	55.00	15/16	11/32	V5101D-55	1	4C*1H-0030	1C11H-0030-TC	V5122D-55	22	7C*22P-0030
2-3/16	2.1875	55.56	15/16	11/32	V5101D-0206	1	4C*1H-0030	1C11H-0030-TC	V5122D-0206	22	7C*22P-0030
-	2.2047	56.00	15/16	11/32	V5101D-56	1	4C*1H-0030	1C11H-0030-TC	V5122D-56	22	7C*22P-0030

1

*Denotes carbide grade (1 = C1, 2 = C2)

2.2188

56.36

13/16

11/32

V5101D-0207

IC Inserts

2-7/32

Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Admissible Tightening Torque*
AM300®	1/2	C5 (P35)	Standard	OP-080508-PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C1 (K35)	Standard	OP-080508-1PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C2 (K25)	Standard	OP-080508-2PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C5 (P35)	High Rake	OP-080508-PWHR	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	9/16	C5 (P35)	Standard	OP-090608-PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C1 (K35)	Standard	OP-090608-1PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C2 (K25)	Standard	OP-090608-2PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C5 (P35)	High Rake	OP-090608-PWHR	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)

4C*1H-0026

1C11H-0026-TC

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	1	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	18	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	20	7375-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)
GEN3SYS	22	739-IP9-1	8IP-9	27.0 in-lbs (305 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength



	A50
Key on A50:	

: 28 - 29	A50: 2	





Non-stock	ed diameters are also available. Follo	w the examples shown below.
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15

IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

Α

В

BORING

D

BURNISHING

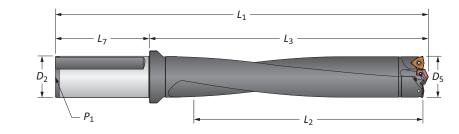
Е

THREADING

Х

51 Series | Diameter Range: 2.0079" - 2.2440" (51.00mm - 56.99mm)



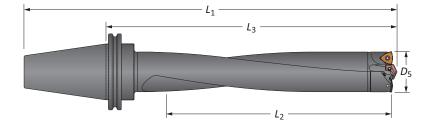


Straight Shank

				Body		Shank			
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	<i>P</i> ₁	Part No.
	3xD	2.0079 - 2.2438	6-3/8	8-7/8	13-3/8	4-1/2	2	1/4	W5103H-200F
0	5xD	2.0079 - 2.2438	11-1/8	13-3/8	17-7/8	4-1/2	2	1/4	W5105H-200F
U	8xD	2.0079 - 2.2438	17-7/8	20-3/32	24-19/32	4-1/2	2	1/4	A W5108H-200F
	10xD	2.0079 - 2.2438	22-3/8	24-19/32	29-3/32	4-1/2	2	1/4	A W5110H-200F
			1						
	3xD	51.00 - 56.99	161.8	225.5	305.5	80.0	50.0	1/4*	W5103H-50FM
0	5xD	51.00 - 56.99	285.0	339.6	419.6	80.0	50.0	1/4*	W5105H-50FM
W	8xD	51.00 - 56.99	455.9	510.5	590.5	80.0	50.0	1/4*	A W5108H-50FM
	10xD	51.00 - 56.99	570.0	624.6	704.6	80.0	50.0	1/4*	1 W5110H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		D5			Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	2.0079 - 2.2440	51.00 - 56.99	6-3/8	9-47/64	13-47/64	CV50	W5103H-CV50
0	5xD	2.0079 - 2.2440	51.00 - 56.99	11-1/4	14-7/32	18-7/32	CV50	W5105H-CV50
U	8xD	2.0079 - 2.2440	51.00 - 56.99	17-7/8	20-61/64	24-61/64	CV50	A W5108H-CV50
	10xD	2.0079 - 2.2440	51.00 - 56.99	22-3/8	25-7/16	29-7/16	CV50	1 W5110H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Driver	Admissible Tightening Torque*
75020-IP20-1	8IP-20	60 in-lb (678 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

51

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BURNISHING

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THREADING

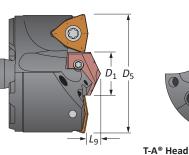
t WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)
 Metric (mm)

Mounting screws sold in multiples of 4

A50: 13

Diameter Range: 2.2441" - 2.4802" (57.00mm - 62.99mm) 57 Series



Head

 D_5

mm

57.00

57.15

57.94

58.00

58.74

59.00

59.53

60.00

60.33

61.00

61.12

61.91

62.00

62.71

 D_1

29/32

29/32

29/32

29/32

29/32

15/16

15/16

15/16

15/16

1

1

1

1-1/16

1-1/16

Grade

C5 (P35)

C1 (K35)

C2 (K25)

C5 (P35)

- 5

L₉

25/64

25/64

25/64

25/64

25/64

25/64

25/64

25/64

25/64

25/64

25/64

25/64

25/64

25/64

Geometry

Standard

Standard

Standard

High Rake

D5

inch

2.2441

2.2500

2.2813

2.2835

2.3125

2.3228

2.3438

2.3622

2.3750

2.4016

2.4063

2.4375

2.4409

2.4688

*Denotes carbide grade (1 = C1, 2 = C2)

Size

9/16

9/16

9/16

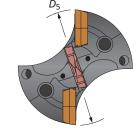
9/16

Pilot Style

T-A

T-A

GEN3SYS



Part No.

V5701D-0208

V5701D-0209

V5701D-0210

V5701D-0211

V5701D-0212

V5702D-0213

V5702D-0214

V5702D-0215

V5702D-62

V5701D-58

V5701D-59

V5701D-60

V5702D-61

V5701D-57

T-A Head

GEN2 T-A Insert

4C*1H-0029

4C*1H-0029

4C*1H-0029

4C*1H-0029

4C*1H-0029

4C*1H-0030

4C*1H-0030

4C*1H-0030

4C*1H-0030

4C*2H-0100

4C*2H-0100

4C*2H-0100

4C*2H-0102

4C*2H-0102

Pilot

Series

1

1

1

1

1

1

1

1

1

2

2

2

2

2

Part No.

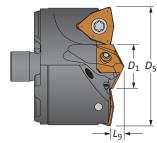
OP-090608-PW

OP-090608-1PW

OP-090608-2PW

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

OP-090608-PWHR



T-A (-TC) Insert

1C11H-0029-TC

1C11H-0029-TC

1C11H-0029-TC

1C11H-0029-TC

1C11H-0029-TC

1C11H-0030-TC

1C11H-0030-TC

1C11H-0030-TC

1C11H-0030-TC

1C12H-0100-TC

1C12H-0100-TC

1C12H-0100-TC

1C12H-0102-TC

1C12H-0102-TC

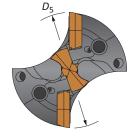
Insert Screw

75014-IP20-1

75014-IP20-1

75014-IP20-1

75014-IP20-1



IC

Insert

Size

9/16

9/16

9/16

9/16

9/16

9/16

9/16

9/16

9/16

9/16

9/16

9/16

9/16

9/16

GEN3SYS® XT Head

Pilot Insert

7C*22P-0029

7C*22P-0029

7C*22P-0029

7C*22P-0029

7C*22P-0029

7C*22P-0030

7C*22P-0030

7C*22P-0030

7C*22P-0030

7C*24P-0100

7C*24P-0100

7C*24P-0100

7C*26P-0102

7C*26P-0102

Admissible

Tightening Torque*

121.0 in-lbs (1370 N-cm)

121.0 in-lbs (1370 N-cm)

121.0 in-lbs (1370 N-cm)

121.0 in-lbs (1370 N-cm)

Admissible

Tightening Torque*

27.0 in-lbs (305 N-cm)

61.0 in-lbs (690 N-cm)

27.0 in-lbs (305 N-cm)

27.0 in-lbs (305 N-cm)

61.0 in-lbs (690 N-cm)

GEN3SYS XT Head

Pilot

Series

22

22

22

22

22

22

22

22

22

24

24

24

26

26

Part No.

V5722D-0208

V5722D-0209

V5722D-0210

V5722D-0211

V5722D-0212

V5724D-0213

V5724D-0214

V5726D-0215

Insert Driver

8IP-20

8IP-20

8IP-20

8IP-20

Insert Driver

8IP-9

8IP-15

8IP-9

8IP-9

8IP-15

V5726D-62

V5722D-58

V5722D-59

V5722D-60

V5724D-61

V5722D-57

Heads

D5

fractional

2-1/4

2-9/32

2-5/16

2-11/32

2-3/8

2-13/32

2-7/16

2-15/32

IC Inserts

Coating

AM300[®]

AM300[®]

AM300®

AM300®

Pilot Accessories

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i		
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C	J)

В

57

Α

DRILLING

THREADING

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	 	-

(ey on A50:

GEN3SYS 24 739-IP9-1 26 7495-IP15-1 GEN3SYS *Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Series

1

2

22



): 28 - 29	A50: 2





Non-stocl	ked diameters are also available. Follo	ow the examples shown below.
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15

IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

A50

Insert Screws

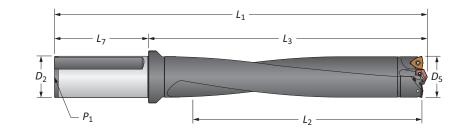
7375-IP9-1

7495-IP15-1

739-IP9-1

57 Series | Diameter Range: 2.2441" - 2.4802" (57.00mm - 62.99mm)



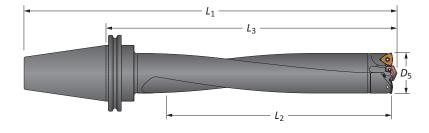


Straight Shank

			Body		Shank				
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	P ₁	Part No.
	3xD	2.2441 - 2.4802	7-1/8	9-35/64	14-1/16	4-1/2	2	1/4	W5703H-200F
0	5xD	2.2441 - 2.4802	12-3/8	14-33/64	19-1/64	4-1/2	2	1/4	W5705H-200F
U	8xD	2.2441 - 2.4802	19-3/4	21-31/32	26-15/32	4-1/2	2	1/4	A W5708H-200F
	10xD	2.2441 - 2.4802	24-3/4	26-59/64	31-27/64	4-1/2	2	1/4	A W5710H-200F
	1		1		1		1	1	
	3xD	57.00 - 62.99	179.9	242.7	322.7	80.0	50.0	1/4*	W5703H-50FM
0	5xD	57.00 - 62.99	315.0	368.6	448.6	80.0	50.0	1/4*	W5705H-50FM
Ψ	8xD	57.00 - 62.99	503.9	557.8	637.8	80.0	50.0	1/4*	1 W5708H-50FM
	10xD	57.00 - 62.99	626.9	683.8	763.8	80.0	50.0	1/4*	1 W5710H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		D ₅			Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	2.2441 - 2.4802	57.00 - 62.99	7-1/8	10-17/32	14-17/32	CV50	W5703H-CV50
0	5xD	2.2441 - 2.4802	57.00 - 62.99	12-3/8	15-31/64	19-31/64	CV50	W5705H-CV50
U	8xD	2.2441 - 2.4802	57.00 - 62.99	19-7/8	22-15/16	26-15/16	CV50	A W5708H-CV50
	10xD	2.2441 - 2.4802	57.00 - 62.99	24-3/4	27-57/64	31-57/64	CV50	▲ W5710H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Driver	Admissible Tightening Torque*
75020-IP20-1	8IP-20	60 in-lb (678 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

В

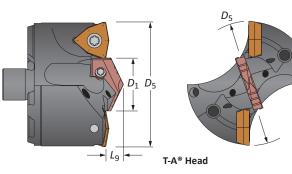
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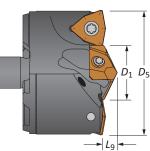
1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit **www.alliedmachine.com/DeepHoleGuidelines** for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

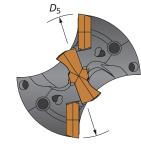
Imperial (in)
 Metric (mm)

Mounting screws sold in multiples of 4









GEN3SYS® XT Head

Heads

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THREADING

		Head				T-A Head		GEN				
D ₅ fractional	D ₅ inch	D ₅ mm	D ₁	L9	Part No.	Pilot Series	GEN2 T-A Insert	T-A (-TC) Insert	Part No.	Pilot Series	Pilot Insert	IC Insert Size
-	2.4803	63.00	1-1/8	7/16	V6302D-63	2	4C*2H-0104	1C12H-0104-TC	V6326D-63	26	7C*26P-0104	9/16
2-1/2	2.5000	63.50	1-1/8	7/16	V6302D-0216	2	4C*2H-0104	1C12H-0104-TC	V6326D-0216	26	7C*26P-0104	9/16
-	2.5197	64.00	1-1/8	7/16	V6302D-64	2	4C*2H-0104	1C12H-0104-TC	V6326D-64	26	7C*26P-0104	9/16
2-17/32	2.5313	64.29	1-1/8	7/16	V6302D-0217	2	4C*2H-0104	1C12H-0104-TC	V6326D-0217	26	7C*26P-0104	9/16
-	2.5591	65.00	1-1/8	7/16	V6302D-65	2	4C*2H-0104	1C12H-0104-TC	V6326D-65	26	7C*26P-0104	9/16
2-9/16	2.5625	65.09	1-3/16	7/16	V6302D-0218	2	4C*2H-0106	1C12H-0106-TC	V6329D-0218	29	7C*29P-0106	9/16
2-19/32	2.5938	65.88	1-3/16	7/16	V6302D-0219	2	4C*2H-0106	1C12H-0106-TC	V6329D-0219	29	7C*29P-0106	9/16
-	2.5984	66.00	1-3/16	7/16	V6302D-66	2	4C*2H-0106	1C12H-0106-TC	V6329D-66	29	7C*29P-0106	9/16
2-5/8	2.6250	66.68	1-3/16	7/16	V6302D-0220	2	4C*2H-0106	1C12H-0106-TC	V6329D-0220	29	7C*29P-0106	9/16
-	2.6378	67.00	1-1/4	7/16	V6302D-67	2	4C*2H-0108	1C12H-0108-TC	V6329D-67	29	7C*29P-0108	9/16
2-21/32	2.6563	67.47	1-1/4	7/16	V6302D-0221	2	4C*2H-0108	1C12H-0108-TC	V6329D-0221	29	7C*29P-0108	9/16
-	2.6772	68.00	1-1/4	7/16	V6302D-68	2	4C*2H-0108	1C12H-0108-TC	V6329D-68	29	7C*29P-0108	9/16
2-11/16	2.6875	68.26	1-1/4	7/16	V6302D-0222	2	4C*2H-0108	1C12H-0108-TC	V6329D-0222	29	7C*29P-0108	9/16
-	2.7165	69.00	1-5/16	7/16	V6302D-69	2	4C*2H-0110	1C12H-0110-TC	V6332D-69	32	7C*32P-0110	9/16
2-23/32	2.7188	69.06	1-5/16	7/16	V6302D-0223	2	4C*2H-0110	1C12H-0110-TC	V6332D-0223	32	7C*32P-0110	9/16
2-3/4	2.7500	69.85	1-5/16	7/16	V6302D-0224	2	4C*2H-0110	1C12H-0110-TC	V6332D-0224	32	7C*32P-0110	9/16

*Denotes carbide grade (1 = C1, 2 = C2)

IC Inserts

Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Admissible Tightening Torque*
AM300®	9/16	C5 (P35)	Standard	OP-090608-PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C1 (K35)	Standard	OP-090608-1PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C2 (K25)	Standard	OP-090608-2PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C5 (P35)	High Rake	OP-090608-PWHR	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	2	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	26	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	29	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	32	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength



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A50: 28 - 29	



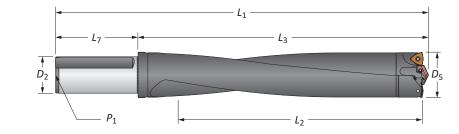


Non-stocked diameters are also available. Follow the examples shown below							
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790					
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15					

IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

63 Series | Diameter Range: 2.4803" - 2.7558" (63.00mm - 69.99mm)



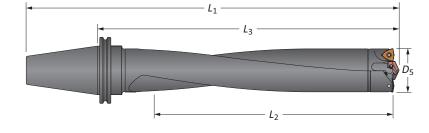


Straight Shank

			Body		Shank				
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	P ₁	Part No.
	3xD	2.4803 - 2.7558	7-7/8	10-11/32	14-27/32	4-1/2	2	1/4	W6303H-200F
0	5xD	2.4803 - 2.7558	13-3/4	15-27/32	20-11/32	4-1/2	2	1/4	W6305H-200F
U	8xD	2.4803 - 2.7558	22-1/8	24-1/8	28-5/8	4-1/2	2	1/4	A W6308H-200F
	10xD	2.4803 - 2.7558	27-1/8	29-11/64	33-43/64	4-1/2	2	1/4	A W6310H-200F
	1	[1		1		1	1	
	3xD	63.00 - 69.99	200.8	262.6	342.6	80.0	50.0	1/4*	W6303H-50FM
0	5xD	63.00 - 69.99	350.0	402.6	482.6	80.0	50.0	1/4*	W6305H-50FM
Ψ	8xD	63.00 - 69.99	560.0	612.6	692.6	80.0	50.0	1/4*	A W6308H-50FM
	10xD	63.00 - 69.99	688.3	740.9	820.9	80.0	50.0	1/4*	1 W6310H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		Ľ	95		Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	2.4803 - 2.7558	63.00 - 69.99	7-7/8	11-7/16	15-7/16	CV50	W6303H-CV50
0	5xD	2.4803 - 2.7558	63.00 - 69.99	13-3/4	16-15/16	20-15/16	CV50	W6305H-CV50
U	8xD	2.4803 - 2.7558	63.00 - 69.99	22	25-13/64	29-13/64	CV50	A W6308H-CV50
	10xD	2.4803 - 2.7558	63.00 - 69.99	26-1/2	29-43/64	33-43/64	CV50	1 W6310H-CV50

Connection Accessories

Mounting Screw		Mounting Screw Driver	Admissible Tightening Torque*
	75020-IP20-1	8IP-20	60 in-lb (678 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit **www.alliedmachine.com/DeepHoleGuidelines** for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)
 Metric (mm)

Mounting screws sold in multiples of 4

70 Series | Diameter Range: 2.7559" - 2.9920" (70.00mm - 75.99mm) $D_1 D_5$ $D_1 D_5$ **SO NO**

T-A Head

GEN2 T-A Insert

4C*2H-0107

4C*2H-0107

4C*2H-0107

4C*2H-0107

4C*2H-0107

4C*2H-0107

T-A (-TC) Insert

1C12H-0107-TC

1C12H-0107-TC

1C12H-0107-TC

1C12H-0107-TC

1C12H-0107-TC

1C12H-0107-TC

Pilot

Series

2

2

2

2

2

2

Part No.

V7002S-0226

V7002S-0228

V7002S-0230

V7002S-70

V7002S-72

V7002S-74



 D_1

1-7/32

1-7/32 25/64

1-7/32 25/64

1-7/32 25/64

1-7/32 25/64

1-7/32 25/64

L₉

25/64

Head

D5

mm

70.00

71.44

72.00

73.03

74.00

74.61

 D_5

inch

2.7559

2.8125

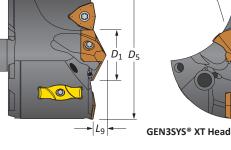
2.8346

2.8750

2.9134

2.9375

*Denotes carbide grade (1 = C1, 2 = C2)



Part No.

V7029S-0226

V7029S-0228

V7029S-0230

V7029S-70

V7029S-72

V7029S-74

GEN3SYS XT Head

Pilot

Series

29

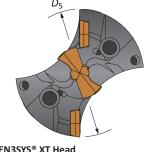
29

29

29

29

29



Pilot Insert

7C*29P-0107

7C*29P-0107

7C*29P-0107

7C*29P-0107

7C*29P-0107

7C*29P-0107

IC

Insert

Size

3/8

3/8

3/8

3/8

3/8

3/8

Heads

D5

fractional

2-13/16

2-7/8

-

2-15/16

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1	2	2	
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2	_	2	

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IC Inserts										
									Admissible	
Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Tightening Torque*			
AM300®	3/8	C5 (P35)	Standard	OP-060408-PW	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)			
AM300®	3/8	C1 (K35)	Standard	OP-060408-1PW	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)			
AM300®	3/8	C2 (K25)	Standard	OP-060408-2PW	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)			
AM300®	3/8	C5 (P35)	High Rake	OP-060408-PWHR	73595-IP15-1	8IP-15	41.0 in-lbs (465 N-cm)			

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Wear Pads

			Admissible
Part No.	Wear Pad Screw	Wear Pad Driver	Tightening Torque*
WP7095	7358-IP10-1	8IP-10	27.0 in-lbs (300 N-cm)
W17055	7550 11 10 1	011 10	27.0 11 103 (500 14 cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	2	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	29	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength



A50: 28 - 29	A50: 2 - 5





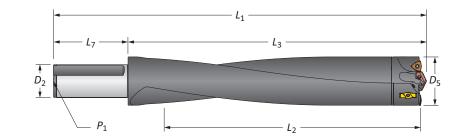
Non-stocked diameters are also available. Follow the examples shown below							
	Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790				
	Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15				

Wear pads sold in multiples of 2 | Wear pad screws sold in multiples of 4

IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

70 Series | Diameter Range: 2.7559" - 2.9920" (70.00mm - 75.99mm)



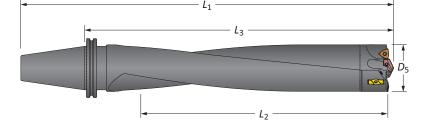


Straight Shank

			Body		Shank				
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	P ₁	Part No.
	3xD	2.7559 - 2.9920	8-3/4	10-19/32	15-3/32	4-1/2	2	1/4	W7003H-200F
0	5xD	2.7559 - 2.9920	14-7/8	16-37/64	21-5/64	4-1/2	2	1/4	W7005H-200F
U	8xD	2.7559 - 2.9920	23-7/8	25-35/64	30-3/64	4-1/2	2	1/4	A W7008H-200F
	10xD	2.7559 - 2.9920	27-7/8	29-35/64	34-3/64	4-1/2	2	1/4	A W7010H-200F
	1	[1	1				1	
	3xD	70.00 - 75.99	218.8	269.0	349.0	80.0	50.0	1/4*	W7003H-50FM
0	5xD	70.00 - 75.99	380.0	421.1	501.1	80.0	50.0	1/4*	W7005H-50FM
Ψ	8xD	70.00 - 75.99	608.0	649.0	729.0	80.0	50.0	1/4*	A W7008H-50FM
	10xD	70.00 - 75.99	709.4	750.3	830.3	80.0	50.0	1/4*	A W7010H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		Ľ	D 5		Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	2.7559 - 2.9920	70.00 - 75.99	8-3/4	12-7/32	16-7/32	CV50	W7003H-CV50
0	5xD	2.7559 - 2.9920	70.00 - 75.99	14-7/8	18-13/64	22-13/64	CV50	W7005H-CV50
U	8xD	2.7559 - 2.9920	70.00 - 75.99	23-7/8	27-5/32	31-5/32	CV50	A W7008H-CV50
	10xD	2.7559 - 2.9920	70.00 - 75.99	26-3/4	29-61/64	33-61/64	CV50	1 W7010H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Bit	Admissible Tightening Torque*
78027-IP30-1	8IP-30B	250 in-lb (2825 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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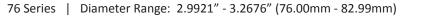
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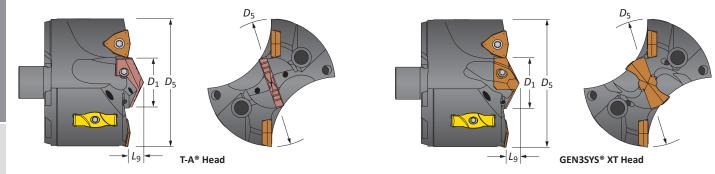
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1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)
 Metric (mm)

Mounting screws sold in multiples of 4





Heads

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2	J	J
E	-	2
7	-	5

В

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Head				T-A Head				GEN				
D ₅ fractional	D ₅ inch	D ₅ mm	D ₁	Lg	Part No.	Pilot Series	GEN2 T-A Insert	T-A (-TC) Insert	Part No.	Pilot Series	Pilot Insert	IC Insert Size
-	2.9921	76.00	1-7/32	13/32	V7602S-76	2	4C*2H-0107	1C12H-0107-TC	V7629S-76	29	7C*29P-0107	1/2
3	3.0000	76.20	1-7/32	13/32	V7602S-0300	2	4C*2H-0107	1C12H-0107-TC	V7629S-0300	29	7C*29P-0107	1/2
3-1/16	3.0625	77.79	1-7/32	13/32	V7602S-0302	2	4C*2H-0107	1C12H-0107-TC	V7629S-0302	29	7C*29P-0107	1/2
-	3.0709	78.00	1-7/32	13/32	V7602S-78	2	4C*2H-0107	1C12H-0107-TC	V7629S-78	29	7C*29P-0107	1/2
3-1/8	3.1250	79.38	1-7/32	13/32	V7602S-0304	2	4C*2H-0107	1C12H-0107-TC	V7629S-0304	29	7C*29P-0107	1/2
-	3.1496	80.00	1-7/32	13/32	V7602S-80	2	4C*2H-0107	1C12H-0107-TC	V7629S-80	29	7C*29P-0107	1/2
3-3/16	3.1875	80.96	1-7/32	13/32	V7602S-0306	2	4C*2H-0107	1C12H-0107-TC	V7629S-0306	29	7C*29P-0107	1/2
-	3.2282	82.00	1-7/32	13/32	V7602S-82	2	4C*2H-0107	1C12H-0107-TC	V7629S-82	29	7C*29P-0107	1/2
3-1/4	3.2500	82.55	1-7/32	13/32	V7602S-0308	2	4C*2H-0107	1C12H-0107-TC	V7629S-0308	29	7C*29P-0107	1/2

*Denotes carbide grade (1 = C1, 2 = C2)

IC Inserts

Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Admissible Tightening Torque*
AM300®	1/2	C5 (P35)	Standard	OP-080508-PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C1 (K35)	Standard	OP-080508-1PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C2 (K25)	Standard	OP-080508-2PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C5 (P35)	High Rake	OP-080508-PWHR	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Wear Pads

			Admissible
Part No.	Wear Pad Screw	Wear Pad Driver	Tightening Torque*
WP7095	7358-IP10-1	8IP-10	27.0 in-lbs (300 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	2	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	29	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Section A20

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	A50:	28 - 29
Key on A50:		

A50: 2 - 5



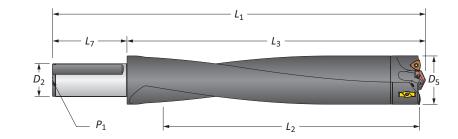
Non-stocked diameters are also available. Follow the examples she						
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790				
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15				

Wear pads sold in multiples of 2 | Wear pad screws sold in multiples of 4 IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

D

76 Series | Diameter Range: 2.9921" - 3.2676" (76.00mm - 82.99mm)



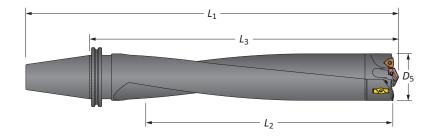


Straight Shank

			Body				Shank		
	Length	D ₅	L ₂	L ₃	<i>L</i> ₁	L ₇	D ₂	<i>P</i> ₁	Part No.
	3xD	2.9921 - 3.2676	9-1/2	11-33/64	16-1/64	4-1/2	2	1/4	W7603H-200F
0	5xD	2.9921 - 3.2676	16-3/8	18-3/64	22-35/64	4-1/2	2	1/4	W7605H-200F
	8xD	2.9921 - 3.2676	26-1/8	27-27/32	32-11/32	4-1/2	2	1/4	A W7608H-200F
						-			
	3xD	76.00 - 82.99	239.9	292.4	372.4	80.0	50.0	1/4*	W7603H-50FM
0	5xD	76.00 - 82.99	415.0	458.2	538.2	80.0	50.0	1/4*	W7605H-50FM
	8xD	76.00 - 82.99	664.0	707.1	787.1	80.0	50.0	1/4*	A W7608H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		Ľ	95		Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	2.9921 - 3.2676	76.00 - 82.99	9-1/2	12-57/64	16-57/64	CV50	W7603H-CV50
0	5xD	2.9921 - 3.2676	76.00 - 82.99	16-3/8	19-27/64	23-27/64	CV50	W7605H-CV50
	8xD	2.9921 - 3.2676	76.00 - 82.99	26-1/8	29-7/32	33-7/32	CV50	A W7608H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Bit	Admissible Tightening Torque*
78027-IP30-1	8IP-30B	250 in-lb (2825 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)
 Metric (mm)

A50: 21

Mounting screws sold in multiples of 4

www.alliedmachine.com | 1.330.343.4283

83 Series | Diameter Range: 3.2677'' - 3.5038'' (83.00mm - 88.99mm)

Heads

Head							T-A Head		GEN			
D ₅	D ₅	D ₅				Pilot	60	00		Pilot	<u>ob</u>	IC Insert
fractional	inch	mm	D ₁	L ₉	Part No.	Series	GEN2 T-A Insert	T-A (-TC) Insert	Part No.	Series	Pilot Insert	Size
-	3.3071	84.00	1-3/8	7/16	V8302S-84	2	4C*2H-0112	1C12H-0112-TC	V8332S-84	32	7C*32P-0112	1/2
3-5/16	3.3125	84.14	1-3/8	7/16	V8302S-0310	2	4C*2H-0112	1C12H-0112-TC	V8332S-0310	32	7C*32P-0112	1/2
3-3/8	3.3750	85.73	1-3/8	7/16	V8302S-0312	2	4C*2H-0112	1C12H-0112-TC	V8332S-0312	32	7C*32P-0112	1/2
-	3.3859	86.00	1-3/8	7/16	V8302S-86	2	4C*2H-0112	1C12H-0112-TC	V8332S-86	32	7C*32P-0112	1/2
3-7/16	3.4375	87.31	1-3/8	7/16	V8302S-0314	2	4C*2H-0112	1C12H-0112-TC	V8332S-0314	32	7C*32P-0112	1/2
-	3.4646	88.00	1-3/8	7/16	V8302S-88	2	4C*2H-0112	1C12H-0112-TC	V8332S-88	32	7C*32P-0112	1/2
3-1/2	3.5000	88.90	1-3/8	7/16	V8302S-0316	2	4C*2H-0112	1C12H-0112-TC	V8332S-0316	32	7C*32P-0112	1/2

*Denotes carbide grade (1 = C1, 2 = C2)

IC Inserts

Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Admissible Tightening Torque*
AM300®	1/2	C5 (P35)	Standard	OP-080508-PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C1 (K35)	Standard	OP-080508-1PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C2 (K25)	Standard	OP-080508-2PW	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
AM300®	1/2	C5 (P35)	High Rake	OP-080508-PWHR	74012-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Wear Pads

			Admissible
Part No.	Wear Pad Screw	Wear Pad Driver	Tightening Torque*
WP7095	7358-IP10-1	8IP-10	27.0 in-lbs (300 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	2	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	32	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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Key on A50:		

: 28 - 29	A50: 2 - 5	Section A20



Non-stocked diameters are also available. Follow the examples shown below.									
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790							
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15							

Wear pads sold in multiples of 2 | Wear pad screws sold in multiples of 4 IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

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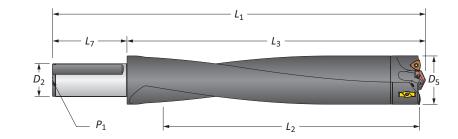
THREADING

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83 Series | Diameter Range: 3.2677" - 3.5038" (83.00mm - 88.99mm)



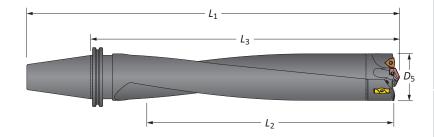


Straight Shank

				Body		Shank			
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	<i>P</i> ₁	Part No.
	3xD	3.2677 - 3.5038	10-1/8	12-5/16	16-13/16	4-1/2	2	1/4	W8303H-200F
0	5xD	3.2677 - 3.5038	17-1/2	19-5/16	23-13/16	4-1/2	2	1/4	W8305H-200F
	8xD	3.2677 - 3.5038	27-3/4	29-35/64	34-3/64	4-1/2	2	1/4	A W8308H-200F
						-			
	3xD	83.00 - 88.99	257.8	312.5	392.6	80.0	50.0	1/4*	W8303H-50FM
0	5xD	83.00 - 88.99	445.0	490.5	570.5	80.0	50.0	1/4*	W8305H-50FM
	8xD	83.00 - 88.99	704.9	750.3	830.3	80.0	50.0	1/4*	1 W8308H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		Ľ	05		Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	3.2677 - 3.5038	83.00 - 88.99	10-1/8	13-11/16	17-11/16	CV50	W8303H-CV50
0	5xD	3.2677 - 3.5038	83.00 - 88.99	17-1/2	20-11/16	24-11/16	CV50	W8305H-CV50
	8xD	3.2677 - 3.5038	83.00 - 88.99	26-7/8	30-3/64	34-3/64	CV50	A W8308H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Bit	Admissible Tightening Torque*
78027-IP30-1	8IP-30B	250 in-lb (2825 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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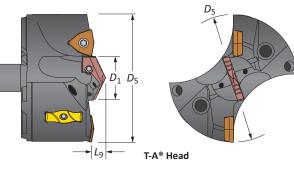
THREADING

t WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)
 Metric (mm)

Mounting screws sold in multiples of 4

| Diameter Range: 3.5039" - 3.7401" (89.00mm - 94.99mm) 89 Series



 D_1

1-1/4

1-1/4

1-1/4

1-1/4

1-1/4

1-1/4 27/64

L₉

27/64

27/64

27/64

27/64

27/64

Head

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92.08

93.66

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D5

inch

3.5433

3.5625

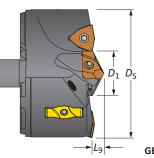
3.6220

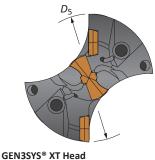
3.6250

3.6875

3.7008

9/16





Pilot Insert

7C*29P-0108

7C*29P-0108

7C*29P-0108

7C*29P-0108

7C*29P-0108

7C*29P-0108

121.0 in-lbs (1370 N-cm)

IC

Insert

Size

9/16

9/16

9/16

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9/16

9/16

GEN3SYS XT Head

Pilot

Series

29

29

29

29

29

29

Part No.

V8929S-0318

V8929S-0320

V8929S-0322

8IP-20

V8929S-94

V8929S-90

V8929S-92

Heads

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fractional

3-9/16

3-5/8

3-11/16

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*Denotes car	*Denotes carbide grade (1 = C1, 2 = C2)												
IC Inserts	IC Inserts												
						_							
							Admissible						
Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Tightening Torque*						
AM300®	9/16	C5 (P35)	Standard	OP-090608-PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)						
AM300®	9/16	C1 (K35)	Standard	OP-090608-1PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)						
AM300®	9/16	C2 (K25)	Standard	OP-090608-2PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)						

T-A Head

GEN2 T-A Insert

4C*2H-0108

4C*2H-0108

4C*2H-0108

4C*2H-0108

4C*2H-0108

4C*2H-0108

T-A (-TC) Insert

1C12H-0108-TC

1C12H-0108-TC

1C12H-0108-TC

1C12H-0108-TC

1C12H-0108-TC

1C12H-0108-TC

Pilot

Series

2

2

2

2

2

2

OP-090608-PWHR

Part No.

V8902S-0318

V8902S-0320

V8902S-0322

V8902S-94

V8902S-90

V8902S-92

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

High Rake

C5 (P35)

Wear Pads

Part No.	Wear Pad Screw	Wear Pad Driver	Admissible Tightening Torque*
WP7095	7358-IP10-1	8IP-10	27.0 in-lbs (300 N-cm)

75014-IP20-1

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	2	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	29	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength



50: 28 - 29	A50: 2 - 5



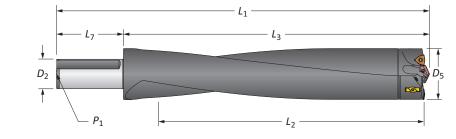


Non-stocked diameters are also available. Follow the examples shown below								
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790						
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15						

Wear pads sold in multiples of 2 | Wear pad screws sold in multiples of 4 IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

89 Series | Diameter Range: 3.5039" - 3.7401" (89.00mm - 94.99mm)



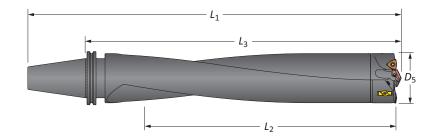


Straight Shank

			Body			Shank			
	Length	D ₅	L ₂	L ₃	L ₁	L7	D ₂	Ρ ₁	Part No.
	3xD	3.5039 - 3.7401	10-7/8	13-1/8	17-5/8	4-1/2	2	1/4	W8903H-200F
0	5xD	3.5039 - 3.7401	18-5/8	20-5/8	25-1/8	4-1/2	2	1/4	W8905H-200F
	8xD	3.5039 - 3.7401	27-5/8	29-35/64	34-3/64	4-1/2	2	1/4	A W8908H-200F
			-						
	3xD	89.00 - 94.99	275.8	333.6	413.6	80.0	50.0	1/4*	W8903H-50FM
0	5xD	89.00 - 94.99	475.0	523.7	603.7	80.0	50.0	1/4*	W8905H-50FM
	8xD	89.00 - 94.99	701.8	750.3	830.3	80.0	50.0	1/4*	A W8908H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		E	95	Body				
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	3.5039 - 3.7401	89.00 - 94.99	10-7/8	14-33/64	18-33/64	CV50	W8903H-CV50
0	5xD	3.5039 - 3.7401	89.00 - 94.99	18-5/8	22	26	CV50	W8905H-CV50
	8xD	3.5039 - 3.7401	89.00 - 94.99	26-3/4	30-1/32	34-1/32	CV50	A W8908H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Bit	Admissible Tightening Torque*
78027-IP30-1	8IP-30B	250 in-lb (2825 N-cm)

www.alliedmachine.com | 1.330.343.4283

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in) Image: metric (mm)

Mounting screws sold in multiples of 4

A50: 25

89

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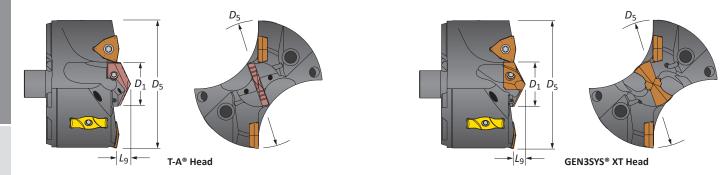
BURNISHING

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95 Series | Diameter Range: 3.7402" - 4.0000" (95.00mm - 101.60mm)



Heads

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)		1	Head					T-A Head		GEN	3SYS XT I	lead		
)	D ₅ fractional	D ₅ inch	D ₅ mm	D ₁	Lg	Part No.	Pilot Series	GEN2 T-A Insert	T-A (-TC) Insert	Part No.	Pilot Series	Pilot Insert	IC Insert Size	
	3-3/4	3.7500	95.25	1-3/8	29/64	V9502S-0324	2	4C*2H-0112	1C12H-0112-TC	V9532S-0324	32	7C*32P-0112	9/16	
	-	3.7795	96.00	1-3/8	29/64	V9502S-96	2	4C*2H-0112	1C12H-0112-TC	V9532S-96	32	7C*32P-0112	9/16	
	3-13/16	3.8125	96.84	1-3/8	29/64	V9502S-0326	2	4C*2H-0112	1C12H-0112-TC	V9532S-0326	32	7C*32P-0112	9/16	
	-	3.8583	98.00	1-3/8	29/64	V9502S-98	2	4C*2H-0112	1C12H-0112-TC	V9532S-98	32	7C*32P-0112	9/16	
	3-7/8	3.8750	98.43	1-3/8	29/64	V9502S-0328	2	4C*2H-0112	1C12H-0112-TC	V9532S-0328	32	7C*32P-0112	9/16	
	-	3.9370	100.00	1-3/8	29/64	V9502S-100	2	4C*2H-0112	1C12H-0112-TC	V9532S-100	32	7C*32P-0112	9/16	
1	3-15/16	3.9375	100.01	1-3/8	29/64	V9502S-0330	2	4C*2H-0112	1C12H-0112-TC	V9532S-0330	32	7C*32P-0112	9/16	
2	4	4.0000	101.60	1-3/8	29/64	V9502S-0400	2	4C*2H-0112	1C12H-0112-TC	V9532S-0400	32	7C*32P-0112	9/16	

*Denotes carbide grade (1 = C1, 2 = C2)

IC Inserts

Coating	Size	Grade	Geometry	Part No.	Insert Screw	Insert Driver	Admissible Tightening Torque*
AM300®	9/16	C5 (P35)	Standard	OP-090608-PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C1 (K35)	Standard	OP-090608-1PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C2 (K25)	Standard	OP-090608-2PW	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)
AM300®	9/16	C5 (P35)	High Rake	OP-090608-PWHR	75014-IP20-1	8IP-20	121.0 in-lbs (1370 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Wear Pads

			Admissible
Part No.	Wear Pad Screw	Wear Pad Driver	Tightening Torque*
WP7095	7358-IP10-1	8IP-10	27.0 in-lbs (300 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

Pilot Accessories

Pilot Style	Series	Insert Screws	Insert Driver	Admissible Tightening Torque*
T-A	2	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)
GEN3SYS	32	7495-IP15-1	8IP-15	61.0 in-lbs (690 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength



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A50: 28 - 29	A50: 2 - 5





Non-stock	ked diameters are also available. Follo	w the examples shown below.
Inch	38 series, T-A (1 series), 1.6790"	Part No. = V3801D-1.6790
Metric	38 series, T-A (1 series), 42.15mm	Part No. = V3801D-42.15

Wear pads sold in multiples of 2 | Wear pad screws sold in multiples of 4 IC inserts sold in multiples of 2 | Insert screws sold in multiples of 10

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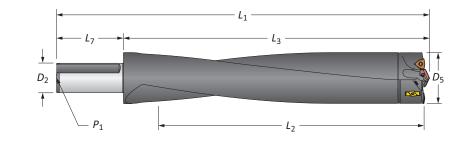
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THREADING

Key on A50: 1

95 Series | Diameter Range: 3.7402" - 4.0000" (95.00mm - 101.60mm)



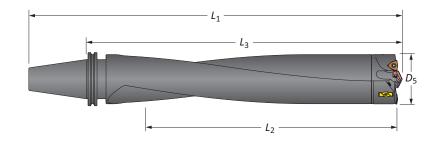


Straight Shank

				Body			Shank		
	Length	D ₅	L ₂	L ₃	L ₁	L ₇	D ₂	<i>P</i> ₁	Part No.
	3xD	3.7402 - 4.0000	11-7/8	14-9/32	18-25/32	4-1/2	2	1/4	W9503H-200F
0	5xD	3.7402 - 4.0000	20	22-19/64	26-51/64	4-1/2	2	1/4	W9505H-200F
	8xD	3.7401 - 4.0000	27-1/2	29-51/64	34-19/64	4-1/2	2	1/4	▲ W9508H-200F
	3xD	95.00 - 101.60	302.0	362.8	442.8	80.0	50.0	1/4*	W9503H-50FM
0	5xD	95.00 - 101.60	508.0	566.2	646.2	80.0	50.0	1/4*	W9505H-50FM
	8xD	95.00 - 101.60	698.5	756.7	836.7	80.0	50.0	1/4*	1 W9508H-50FM

*Thread to BSP and ISO 7-1





CV50 Shank

		Ľ	05		Body			
	Length	inch	mm	L ₂	L ₃	<i>L</i> ₁	Shank	Part No.
	3xD	3.7402 - 4.0000	95.00 - 101.60	11-7/8	15-43/64	19-43/64	CV50	W9503H-CV50
0	5xD	3.7402 - 4.0000	95.00 - 101.60	20	23-43/64	27-43/64	CV50	W9505H-CV50
	8xD	3.7402 - 4.0000	95.00 - 101.60	26-5/8	30-9/32	34-9/32	CV50	A W9508H-CV50

Connection Accessories

Mounting Screw	Mounting Screw Bit	Admissible Tightening Torque*
78027-IP30-1	8IP-30B	250 in-lb (2825 N-cm)

*Tightening torques are calculated with a friction coefficient of μ = 0.14 and develop 90% of ultimate yield strength

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THREADING

1. WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A50: 30 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

Imperial (in)
 Metric (mm)

Mounting screws sold in multiples of 4

Recommended Drilling Data | Imperial (inch)

							Feed Ra	ate (IPR) by Di	ameter		
			Outbo	ard Insert	5/16" IC	3/8" IC	1/2" IC	9/16" IC	3/8" IC	1/2" IC	9/16" IC
			S	eries	33	38 - 44	44 - 51	51 - 57 - 63	70	76 - 83	89 - 95
ISO	Material	Hardness (BHN)	Speed (SFM)	Pilot Style	1.299 - 1.495	1.496 - 1.885	1.886 - 2.210	2.211 - 2.755	2.756 - 2.992	2.992 - 3.503	3.504 - 4.000
	Free Machining Steel 1118, 1215, 12L14, etc.	100 - 250	450 - 750	T-A/GEN3SYS	.006011	.007012	.009012	.009012	.006010	.007011	.007012
	Low Carbon Steel 1010, 1020, 1025, 1522, 1144, etc.	85 - 275	450 - 750	T-A/GEN3SYS	.006011	.007012	.009012	.009012	.006010	.007011	.007012
	Medium Carbon Steel 1030, 1040, 1050, 1527, 1140, 1151, etc.	125 - 325	450 - 750	T-A/GEN3SYS	.006011	.007012	.009012	.009012	.006010	.007011	.007012
P	Alloy Steel 4140, 5140, 8640, etc.	125 - 375	400 - 700	T-A/GEN3SYS	.005007	.005009	.007010	.007011	.005009	.006010	.006010
	High Strength Alloy 4340, 4330V, 300M, etc.	225 - 400	300 - 500	T-A/GEN3SYS	.005006	.005007	.005008	.006009	.005007	.005008	.006008
	Structural Steel A36, A285, A516, etc.	100 - 350	450 - 750	T-A/GEN3SYS	.006008	.007009	.008010	.009011	.005009	.006010	.007010
	Tool Steel H-13, H-21, A-4, O-2, S-3, etc.	150 - 250	300 - 500	T-A/GEN3SYS	.005006	.005007	.007009	.008010	.005007	.006009	.007010
	High Temp Alloy Hastelloy B, Inconel 600, etc.	140 - 310	200 - 400	T-A	.004005	.004007	.006009	.007009	.004006	.005007	.005007
S	Titanium Alloy	140 - 310	300 - 500 T-A		.005007	.006008	.007009	.008010	.004006	.005007	.005007
	Aerospace Alloy S82	185 - 350	400 - 600	T-A/GEN3SYS	.004006	.005007	.006008	.006008	.004006	.005007	.005007
	Stainless Steel 400 Series 416, 420, etc.	185 - 350	300 - 500	T-A/GEN3SYS	.006008	.007009	.008010	.009011	.005007	.007009	.007010
Μ	Stainless Steel 300 Series 304, 316, 17-4PH, etc.	135 - 275	300 - 500	T-A/GEN3SYS	.005007	.006008	.007009	.008010	.004008	.006010	.006010
	Super Duplex Stainless Steel	135 - 275	250 - 450	T-A/GEN3SYS	.004006	.005007	.007009	.007009	.004007	.006009	.007010
н	Wear Plate Hardox, AR400, T-1, etc.	400 - 600	300 - 500	T-A	.003005	.004006	.006008	.007009	.003005	.004006	.004006
	Hardened Steel	300 - 500	300 - 500	T-A	.004005	.005006	.006008	.006008	.003005	.004006	.004006
К	Nodular, Grey, Ductile Cast Iron	120 - 320	500 - 800	T-A/GEN3SYS	.005009	.006010	.008012	.010012	.008010	.009011	.010012
	Cast Aluminum	30 - 180	600 - 800	T-A/GEN3SYS	.009012	.010014	.012016	.012016	.006009	.008011	.008012
	Wrought Aluminum	30 - 180	600 - 800	T-A/GEN3SYS	.007011	.008012	.010014	.010014	.006009	.008011	.008012
Ν	Aluminum Bronze	100 - 250	400 - 700	T-A/GEN3SYS	.005007	.005008	.007010	.009011	.006009	.007010	.008012
	Brass	30 - 100	800	T-A/GEN3SYS	.006008	.007009	.008010	.009012	.006008	.007009	.008012
	Copper	60	700	T-A/GEN3SYS	.002005	.003006	.006008	.008010	.006008	.006008	.006008

Coolant Recommendations

Series	Pressure (PSI)	Flow Rate (GPM)
33	350	10
38	300	10
44	275	12
51	250	18
57	225	20
63	200	22
70	150	25
76	100	28
83	100	30
89	100	33
95	100	33

Calculations

Value	Formula
SFM	RPM • 0.262 • Diameter
RPM	(SFM • 3.82) / Diameter
IPM	RPM • IPR

IMPORTANT: The speeds and feeds listed above are a general starting point for all applications. Refer to the Coolant Recommendation charts for coolant requirements to run at the recommended speeds and feeds. Factory technical assistance is also available through our Application Engineering Team.

IMPORTANT: The coolant pressure and flow rate recommendations above represent a good approximation to obtain optimum tool life and chip evacuation at Allied Machine recommended speeds and feeds. If lower coolant capabilities exist in a drilling application, the APX Drilling System will still function at reduced penetration rates. Contact our Application Engineering department for a more specific recommendation of coolant requirements and/or speeds and feeds.

1 WARNING Tool failure can cause serious injury. To prevent: For APX holders 8xD or longer, do not rotate tool more than 50 RPM unless it is engaged with workpiece or fixture. Refer to page A50: 30 for Deep Hole Drilling Guidelines in this section of the catalog. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is also available for your specific applications.

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SPECIALS

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Recommended Drilling Data | Metric (mm)

					Feed Rate (mm/rev) by Diameter ert 5/16" IC 3/8" IC 1/2" IC 9/16" IC 3/8" IC 1/2" IC 9/													
			Outbo	ard Insert	5/16" IC	3/8" IC	1/2" IC	9/16" IC	3/8" IC	1/2" IC	9/16" IC							
			S	eries	33	38 - 44	44 - 51	51 - 57 - 63	70	76 - 83	89 - 95							
ISO	ISO Material		Speed Pilot (M/min) Style		33.00 - 37.99	38.00 - 47.88	47.89 - 56.13	56.14 - 69.99	70.00 - 75.99	76.00 - 88.99	89.00 - 101.60							
	Free Machining Steel 1118, 1215, 12L14, etc.	100 - 250	137 - 229	T-A/GEN3SYS	0.15 - 0.28	0.18 - 0.30	0.23 - 0.30	0.23 - 0.30	0.15 - 0.25	0.18 - 0.28	0.18 - 0.30							
	Low Carbon Steel 1010, 1020, 1025, 1522, 1144, etc.	85 - 275	137 - 229	T-A/GEN3SYS	0.15 - 0.28	0.18 - 0.30	0.23 - 0.30	0.23 - 0.30	0.15 - 0.25	0.18 - 0.28	0.18 - 0.30							
	Medium Carbon Steel 1030, 1040, 1050, 1527, 1140, 1151, etc.	125 - 325	137 - 229	T-A/GEN3SYS	0.15 - 0.28	0.18 - 0.30	0.23 - 0.30	0.23 - 0.30	0.15 - 0.25	0.18 - 0.28	0.18 - 0.30							
Р	Alloy Steel 4140, 5140, 8640, etc.	125 - 375	122 - 213	T-A/GEN3SYS	0.13 - 0.18	0.13 - 0.23	0.18 - 0.25	0.18 - 0.28	0.13 - 0.23	0.15 - 0.25	0.15 - 0.25							
	High Strength Alloy 4340, 4330V, 300M, etc.	225 - 400	91 - 152	T-A/GEN3SYS	0.13 - 0.15	0.13 - 0.18	0.13 - 0.20	0.15 - 0.23	0.13 - 0.18	0.13 - 0.20	0.15 - 0.20							
	Structural Steel A36, A285, A516, etc.	100 - 350	137 - 229	T-A/GEN3SYS	0.15 - 0.20	0.18 - 0.23	0.20 - 0.25	0.23 - 0.28	0.13 - 0.23	0.15 - 0.25	0.15 - 0.25							
	Tool Steel H-13, H-21, A-4, 0-2, S-3, etc.	150 - 250	91 - 152	T-A/GEN3SYS	0.13 - 0.15	0.13 - 0.18	0.18 - 0.23	0.20 - 0.25	0.13 - 0.18	0.15 - 0.23	0.18 - 0.25							
	High Temp Alloy Hastelloy B, Inconel 600, etc.	140 - 310	61 - 122	T-A	0.10 - 0.13	0.10 - 0.18	0.15 - 0.23	0.18 - 0.23	0.10 - 0.15	0.13 - 0.18	0.13 - 0.18							
S	Titanium Alloy	140 - 310	91 - 152	T-A	0.13 - 0.18	0.15 - 0.20	0.18 - 0.23	0.20 - 0.25	0.10 - 0.15	0.13 - 0.18	0.13 - 0.18							
	Aerospace Alloy S82	185 - 350	122 - 183	T-A/GEN3SYS	0.10 - 0.15	0.13 - 0.18	0.15 - 0.20	0.15 - 0.20	0.10 - 0.15	0.13 - 0.18	0.13 - 0.18							
	Stainless Steel 400 Series 416, 420, etc.	185 - 350	91 - 152	T-A/GEN3SYS	0.15 - 0.20	0.18 - 0.23	0.20 - 0.25	0.23 - 0.28	0.13 - 0.18	0.18 - 0.23	0.18 - 0.25							
М	Stainless Steel 300 Series 304, 316, 17-4PH, etc.	135 - 275	91 - 152	T-A/GEN3SYS	0.13 - 0.18	0.15 - 0.20	0.18 - 0.23	0.20 - 0.25	0.10 - 0.20	0.15 - 0.25	0.15 - 0.25							
	Super Duplex Stainless Steel	135 - 275	76 - 137	T-A/GEN3SYS	0.10 - 0.15	0.13 - 0.18	0.18 - 0.23	0.18 - 0.23	0.10 - 0.18	0.15 - 0.23	0.18 - 0.25							
н	Wear Plate Hardox, AR400, T-1, etc.	400 - 600	91 - 152	T-A	0.07 - 0.13	0.10 - 0.15	0.15 - 0.20	0.18 - 0.23	0.08 - 0.13	0.10 - 0.15	0.10 - 0.15							
	Hardened Steel	300 - 500	91 - 152	T-A	0.10 - 0.13	0.13 - 0.15	0.15 - 0.20	0.15 - 0.20	0.08 - 0.13	0.10 - 0.20	0.10 - 0.20							
К	Nodular, Grey, Ductile Cast Iron	120 - 320	152 - 244	T-A/GEN3SYS	0.13 - 0.23	0.15 - 0.25	0.20 - 0.30	0.25 - 0.30	0.20 - 0.25	0.23 - 0.28	0.25 - 0.30							
	Cast Aluminum	30 - 180	183 - 244	T-A/GEN3SYS	0.23 - 0.30	0.25 - 0.36	0.30 - 0.40	0.30 - 0.40	0.15 - 0.23	0.20 - 0.28	0.20 - 0.30							
	Wrought Aluminum	30 - 180	183 - 244	T-A/GEN3SYS	0.18 - 0.28	0.20 - 0.30	0.25 - 0.36	0.25 - 0.36	0.15 - 0.23	0.20 - 0.28	0.20 - 0.30							
Ν	Aluminum Bronze	100 - 250	123 - 213	T-A/GEN3SYS	0.13 - 0.18	0.13 - 0.20	0.18 - 0.25	0.23 - 0.28	0.15 - 0.23	0.18 - 0.25	0.20 - 0.30							
	Brass	30 - 100	244	T-A/GEN3SYS	0.15 - 0.20	0.18 - 0.23	0.20 - 0.25	0.23 - 0.30	0.15 - 0.20	0.18 - 0.23	0.20 - 0.25							
	Copper	60	213	T-A/GEN3SYS	0.05 - 0.13	0.08 - 0.15	0.15 - 0.20	0.20 - 0.25	0.08 - 0.15	0.15 - 0.20	0.15 - 0.20							

Coolant Recommendations

Series	Pressure (BAR)	Flow Rate (LPM)
33	24	38
38	21	38
44	19	45
51	17	68
57	16	76
63	14	83
70	10	95
76	7	106
83	7	114
89	7	125
95	7	125

Calculations

Value	Formula
M/min	RPM • 0.003 • Diameter
RPM	(M/min • 318.47) / Diameter
mm/min	RPM • mm/rev

IMPORTANT: The speeds and feeds listed above are a general starting point for all applications. Refer to the Coolant Recommendation charts for coolant requirements to run at the recommended speeds and feeds. Factory technical assistance is also available through our Application Engineering Team.

IMPORTANT: The coolant pressure and flow rate recommendations above represent a good approximation to obtain optimum tool life and chip evacuation at Allied Machine recommended speeds and feeds. If lower coolant capabilities exist in a drilling application, the APX Drilling System will still function at reduced penetration rates. Contact our Application Engineering department for a more specific recommendation of coolant requirements and/or speeds and feeds.

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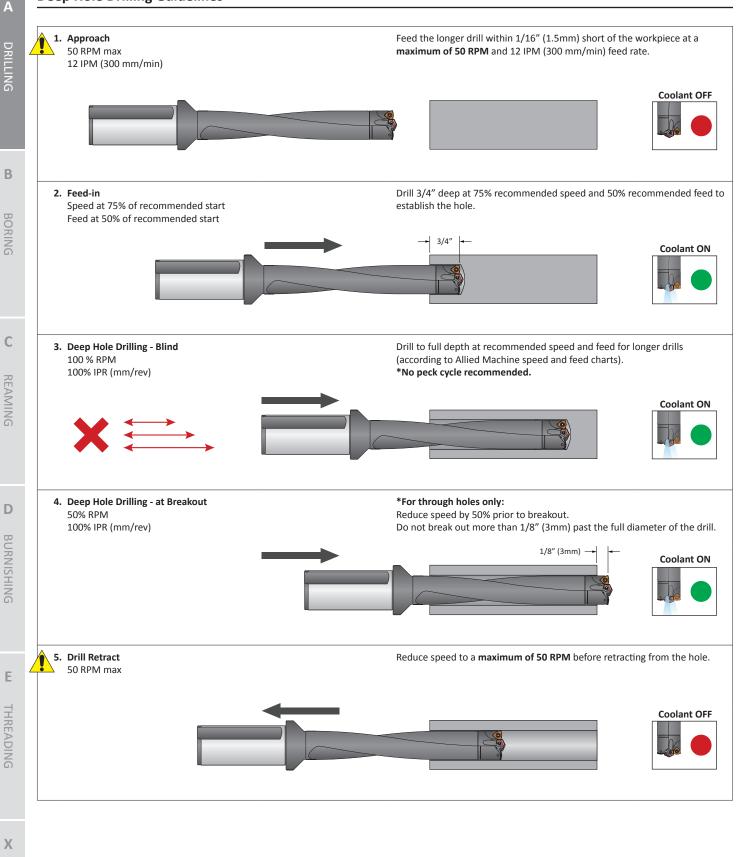
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Deep Hole Drilling Guidelines



1 WARNING Tool failure can cause serious injury. To prevent: NEVER rotate these tool holders more than 50 RPM without proper engagement with a workpiece or fixture. Failure to do so could result in tool failure and/or personal injury. Visit www.alliedmachine.com/DeepHoleGuidelines for the most up-to-date information and procedures. Factory technical assistance is also available for your specific applications.

Notes

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Guaranteed Test / Demo Application Form

Distributor PO #

	т	he following	must be filled out o	completely before your tes	t will be cons	sidered		
Distributor Ir Company Name: Contact: Account Number Phone: Email: Current Proce	r:		strates, speeds and fe	Contact:		riencing		
Test Objectiv	e List what wou	Ild make this a	successful test (i.e. pe	enetration rate, finish, tool life,	hole size, etc.))		
Application I	nformation							
Hole Diameter Required Finis		in/mm Tolerance: RMS			Material: Hardness: State:	:		
Machine Info	ormation							
Machine Type Shank Require	(Lathe / Screw ma	-		ilder:(Haas, Mori Seiki, e	etc.)	Model #: Power: HP/KW		
Rigidity: Excellent Good Poor	(C Orientatic Vertic Horizo	al	Tool Rotating: Yes No			Thrust:	lbs/N	
Coolant Infor	rmation							
Coolant Delive Coolant Type:			ool / Flood) ic, water soluble, etc.)	Coolant Pressure	re: PSI / bar :: GPM / LPM			
Requested To	-	Q1	Y Item Number				MACHINE NEERING achine & Engineering 120 Deeds Drive Dover, OH 44622	
						Toll Free USA & Can	one: (330) 343-4283 ada: (800) 321-5537 Fax: (330) 602-3400	

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.

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.

Allied Machine shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for economic losses of any kind or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform this agreement.

ALL PRICES, DELIVERIES, DESIGNS, AND MATERIALS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



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