



Drilling



Reaming



Burnishing



Threading



Wohlhaupter®

▶ BORING

Large Diameter Boring Tools



WOHLHAUPTER®



SECTION

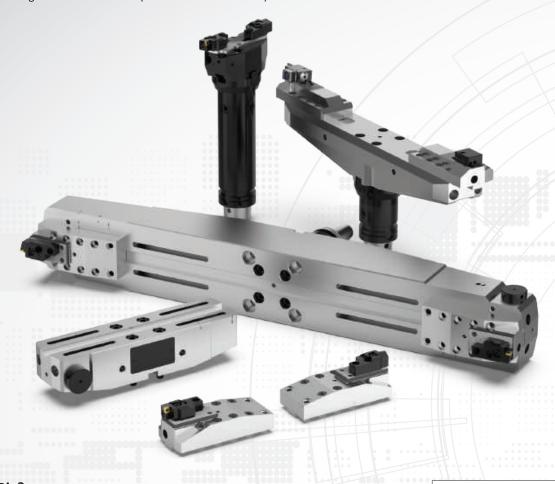
B10-G

Large Diameter Boring

Wohlhaupter® Large Diameter Boring

Basic D 40 | Basic D 60 | Eco D 60 | Flex D 60

Diameter Range: 7.874" - 128.150" (200.00mm - 3255.00mm)



Boring Big?

Wohlhaupter has continued to expand our large diameter boring capabilities with Alu-Line. Our Alu-Line serrated slides and tool bodies are made of lightweight aluminum alloy to minimize the weight while still getting the heavy boring job done. The versatile serrated slides and serrated tool bodies allow for boring 7.874" (200.00mm) up to 128.150" (3255.00mm), offering the most powerful and versatile tool ranges to our customers.

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



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

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

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

♠ WARNING

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

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

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

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

Applicable Industries







Automotive



Firearms

General

Machining





Reference Icons

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



Clamping Elements

For use with insert holders and boring heads



A variety of shanks for different machines



Inserts

For use with insert holder boring heads and boring bars using indexable inserts



MVS Connection Color Guide

Detailed instructions and information regarding the MVS connection(s)



Recommended Cutting Data

Speed and feed recommendations for optimum and safe boring



Coolant-Through Option

Indicates that the product is coolant through

Large Diameter Boring Table of Contents

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Series	Imperial (inch)	Metric (mm)			
Basic D 40 Slides	7.874 - 20.472	200.00 - 520.00			
Basic D 60 Slides	7.874 - 19.882	200.00 - 505.00			
Eco D 60 Slides	18.307 - 40.157	465.00 - 1020.00			
Flex D 60 Slides	19.685 - 128.150	500.00 - 3255.00			

Large Diameter Boring



Boring big? We've got you covered.

Our versatile tooling system can provide the power and precision your large diameter boring jobs demand. The large diameter boring system offers four different Alu-Line serrated slides, a wide range of rough and finish boring insert holders, vernier and digital cassettes, and combined rough and finish insert holders.

- Diameter range: 7.874" 128.150" (200.00mm 3255.00mm)
- Basic, Eco, and Flex serrated slides
- Roughing, finishing, or combined roughing and finishing can be achieved in one pass
- Digital readout cassettes available for quick and easy adjustments
- Alu-Line serrated slides and tool bodies are made of lightweight aluminum



▶ Basic D 40 Serrated Slides for Finish Boring



350021 (349021) Ø 7.874" - 11.023" (Ø 200.00mm - 280.00mm)



350023 (349023) Ø 14.173" - 17.322" (Ø 360.00mm - 440.00mm)



350022 (349022) Ø 11.023" - 14.173" (Ø 280.00mm - 360.00mm)



350024 (349024) Ø 17.322" - 20.472" (Ø 440.00mm - 520.00mm)

Basic D 60 Serrated Slides for Semi Rough Finish and Finish Boring

350005 (349005)



350051 (349051) Ø 7.874" - 11.023" (Ø 200.00mm - 280.00mm)



350053 (349053) Ø 13.779" - 16.929" (Ø 350.00mm - 430.00mm)



350052 (349052) Ø 10.826" - 13.976" (Ø 275.00mm - 355.00mm)



350054 (349054) Ø 16.732" - 19.881" (Ø 425.00mm - 505.00mm)

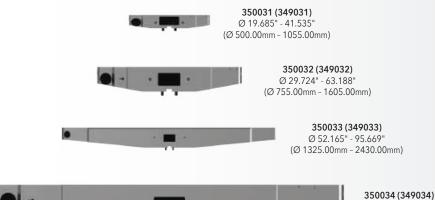
Eco D 60 Serrated Slides for Rough and Finish Boring



350014 (349014) / 350015 (350015) Serrated slide for base slides 350005 (349005) / 350006 (349006)

350006 (349006) Ø 29.133" - 40.157" (Ø 740.00mm - 1020.00mm)

Flex D 60 Serrated Slides for Rough and Finish Boring



350033 (349033) | 350034 (349034)

350038 (349033) | 350034 (349034)

350031 (349031) | 350032 (349032)
350033 (349033) | 350034 (349034)

350037 (349037)

Serrated slide for base slides
350037 (349037)

Serrated slide for base slides
350032 (349032) | 350033 (349033)
350034 (349034)

350034 (349034)

Ø 84.645" - 128.149"

Ø 84.645" - 128.149"

Ø 2150.00mm - 3255.00mm)

350035 (349035)

Serrated slide for base slides

350031 (349031) | 350032 (349032)

Alu-Line Basic D 40 Serrated Slides

Diameter Range: 7.874" - 20.472" (200.00mm - 520.00mm)

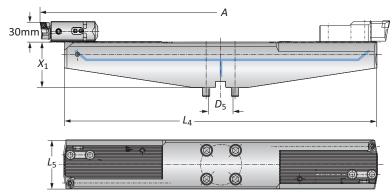


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	Connection	Boring Range	Serrated Slide				
	D ₅	А	<i>X</i> ₁	L ₄	<i>L</i> ₅	Weight	Part No.
	D 40	7.874 - 11.024	2.953	7.480	3.149	6.173 (lbs)	350021
0	D 40	11.024 - 14.173	2.953	10.620	3.149	8.377 (lbs)	350022
U	D 40	14.173 - 17.323	2.953	13.770	3.149	11.023 (lbs)	350023
	D 40	17.323 - 20.472	2.953	16.320	3.149	13.228 (lbs)	350024
	D 40	200.00 - 280.00	75.00	190.00	80.00	2.80 (kg)	349021
@	D 40	280.00 - 360.00	75.00	270.00	80.00	3.80 (kg)	349022
w	D 40	360.00 - 440.00	75.00	350.00	80.00	5.00 (kg)	349023
	D 40	440.00 - 520.00	75.00	430.00	80.00	6.00 (kg)	349024

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B10-H

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Imperial (in)Metric (mm)

1 WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

Factory technical assistance is also available for specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

MARNING Tool failure can cause serious injury. To prevent:

- -Do not exceed recommended 10xD length-to-diameter ratio or exceed 4 total components (including shank)
- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVI^{TECH} module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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B10-G: 4

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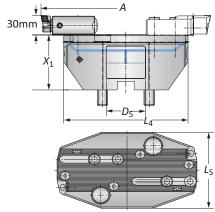
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Alu-Line Basic D 60 Serrated Slides

Diameter Range: 7.874" - 19.882" (200.00mm - 505.00mm)







	Connection	Boring Range	Serrated Slide				
	D ₅	А	<i>X</i> ₁	L ₄	L ₅	Weight	Part No.
	D 60	7.874 - 11.024	3.346	7.520	4.330	9.038 (lbs)	350051
Ð	D 60	10.827 - 13.976	3.346	10.394	4.330	11.464 (lbs)	350052
ש	D 60	13.780 - 16.929	3.346	13.346	4.921	15.211 (lbs)	350053
	D 60	16.732 - 19.882	3.346	16.299	4.921	17.637 (lbs)	350054
	D 60	200.00 - 280.00	85.00	191.00	110.00	4.10 (kg)	349051
1	D 60	275.00 - 355.00	85.00	264.00	110.00	5.20 (kg)	349052
ש	D 60	350.00 - 430.00	85.00	339.00	125.00	6.90 (kg)	349053
	D 60	425.00 - 505.00	85.00	414.00	125.00	8.00 (kg)	349054

B10-M: 12-15 Key on B10-G: 1









1 = Imperial (in) m = Metric (mm)

.. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

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- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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Alu-Line Eco D 60 Serrated Slides

Diameter Range: 18.307" - 40.157" (465.00mm - 1020.00mm)

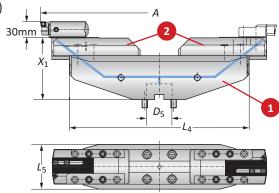


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	Connection	Boring Range	Se	rrated Sli	de	1 Base	Slide	2 Serrated Slide (Alu-Line)*		2 Serrated Slide (steel)**	
	D ₅	Α	<i>X</i> ₁	L ₄	L ₅	Weight	Part No.	Weight	Part No.	Weight	Part No.
0	D 60	18.307 - 29.331	6.102	17.590	5.078	26.010 (lbs)	350005	4.850 (lbs)	350015	12.560 (lbs)	350014
U	D 60	29.134 - 40.157	6.102	28.420	5.078	39.680 (lbs)	350006	4.850 (lbs)	350015	12.560 (lbs)	350014
@	D 60	465.00 - 745.00	155.00	447.00	129.00	11.80 (kg)	349005	2.20 (kg)	349015	5.70 (kg)	349014
w	D 60	740.00 - 1020.00	155.00	722.00	129.00	18.00 (kg)	349006	2.20 (kg)	349015	5.70 (kg)	349014

^{*}Finish boring: serrated slide in Alu-Line











1 = Imperial (in) m = Metric (mm)

WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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MARNING Tool failure can cause serious injury. To prevent:

- -Do not exceed recommended 10xD length-to-diameter ratio or exceed 4 total components (including shank)
- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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B10-G: 6

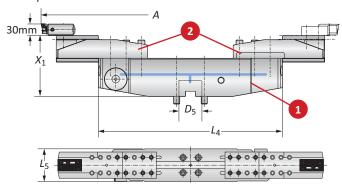
^{**}Rough boring: serrated slide in steel

Alu-Line Flex D 60 Serrated Slides

Diameter Range: 19.685" - 128.150" (500.00mm - 3255.00mm)







	Connection	Boring Range		Serrated Slide			Par	t No.
	D ₅	A	<i>X</i> ₁	L ₄	L ₅	Weight (1 + 2)	1 Base Slide	2 Serrated Slide
	D 60	19.685 - 30.709	6.299	18.898	5.118	53.360 (lbs)	350031	350035
	D 60	37.402 - 41.535	7.283	18.898	5.118	91.060 (lbs)	350031	350036
	D 60	30.512 - 41.535	7.283	29.724	6.102	93.710 (lbs)	350032	350035
	D 60	41.339 - 52.362	8.268	29.724	6.102	131.400 (lbs)	350032	350036
	D 60	56.772 - 63.189	8.858	29.724	6.102	190.200 (lbs)	350032	350037
	D 60	52.165 - 63.189	8.268	51.378	7.283	194.400 (lbs)	350033	350035
0	D 60	52.165 - 74.016	9.252	51.378	7.283	232.100 (lbs)	350033	350036
	D 60	62.992 - 84.843	9.843	51.378	7.283	291.000 (lbs)	350033	350037
	D 60	78.346 - 95.669	10.039	51.378	7.283	374.400 (lbs)	350033	350038
	D 60	84.646 - 95.669	9.252	83.858	8.858	424.400 (lbs)	350034	350035
	D 60	84.646 - 106.496	10.236	83.858	8.858	462.100 (lbs)	350034	350036
	D 60	84.646 - 117.323	10.827	83.858	8.858	520.300 (lbs)	350034	350037
	D 60	84.646 - 128.150	11.024	83.858	8.858	604.100 (lbs)	350034	350038
	D 60	500.00 - 780.00	160.00	480.00	130.00	24.20 (kg)	349031	349035
	D 60	950.00 - 1055.00	185.00	480.00	130.00	41.30 (kg)	349031	349036
	D 60	775.00 - 1055.00	185.00	755.00	155.00	42.50 (kg)	349032	349035
	D 60	1050.00 - 1330.00	210.00	755.00	155.00	59.60 (kg)	349032	349036
	D 60	1442.00 - 1605.00	225.00	755.00	155.00	86.30 (kg)	349032	349037
	D 60	1325.00 - 1605.00	210.00	1305.00	185.00	88.20 (kg)	349033	349035
0	D 60	1325.00 - 1880.00	235.00	1305.00	185.00	105.30 (kg)	349033	349036
	D 60	1600.00 - 2155.00	250.00	1305.00	185.00	132.00 (kg)	349033	349037
	D 60	1990.00 - 2430.00	255.00	1305.00	185.00	169.80 (kg)	349033	349038
	D 60	2150.00 - 2430.00	235.00	2130.00	225.00	192.50 (kg)	349034	349035
	D 60	2150.00 - 2705.00	260.00	2130.00	225.00	209.60 (kg)	349034	349036
	D 60	2150.00 - 2980.00	275.00	2130.00	225.00	236.00 (kg)	349034	349037
	D 60	2150.00 - 3255.00	280.00	2130.00	225.00	274.00 (kg)	349034	349038













** WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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NARNING Tool failure can cause serious injury. To prevent:

- -Do not exceed recommended 10xD length-to-diameter ratio or exceed 4 total components (including shank)
- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio

-Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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Serrated Adapter with MVS Connection

Mounting Adapter

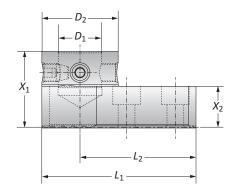
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	MVS Connection		Mounting	Adapters			
	$D_2 \mid D_1$	<i>X</i> ₁	<i>X</i> ₂	<i>L</i> ₁	L ₂	Weight	Part No.
0	50 - 28	1.969	1.063	3.976	2.992	2.866 (lbs)	349046
0	50 - 28	50.00	27.00	101.00	76.00	1.30 (kg)	349046





Inside Boring				
		ID Bore Range		
Slide	Boring Heads	inch	mm	
349/350051	320005/465006/565045	8.465 - 12.323	215.00 - 313.00	
349/350052	320005/465006/565045	11.417 - 15.276	290.00 - 388.00	
349/350053	320005/465006/565045	14.370 - 18.228	365.00 - 463.00	
349/350054	320005/465006/565045	17.323 - 21.181	440.00 - 538.00	
349/350005 with 349/350015	320005/465006/565045	18.898 - 30.630	480.00 - 778.00	



Outside Boring				
		OD Bore Range		
Slide	Boring Heads	inch	mm	
349/350051	320005/465006/565045	2.638 - 6.496	67.00 - 165.00	
349/350052	320005/465006/565045	5.591 - 9.449	142.00 - 240.00	
349/350053	320005/465006/565045	8.543 - 12.402	217.00 - 315.00	
349/350054	320005/465006/565045	11.496 - 15.354	292.00 - 390.00	
349/350005 with 349/350015	320005/465006/565045	13.071 - 24.803	332.00 - 630.00	
NOTE: LH only spindle rotation				

B10-M: 12-15

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• WARNING Tool failure can cause serious injury. To prevent:

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- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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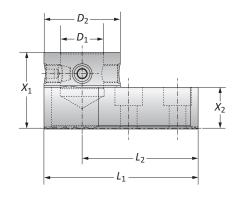
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Serrated Adapter with MVS Connection

Mounting Adapter

	MVS Connection		Mounting	Adapters			
	$D_2 \mid D_1$	<i>X</i> ₁	<i>X</i> ₂	L ₁	L ₂	Weight	Part No.
0	50 - 28	1.969	1.063	3.976	2.992	2.866 (lbs)	349046
0	50 - 28	50.00	27.00	101.00	76.00	1.30 (kg)	349046





Inside Boring									
		ID Bore Range							
Slide	Boring Heads	inch	mm						
349/350051	320005/465006/565045	2.559 - 5.039	65.00 -128.00						
349/350052	320005/465006/565045	4.134 - 7.992	105.00 - 203.00						
349/350053	320005/465006/565045	7.087 - 10.945	180.00 - 278.00						
349/350054	320005/465006/565045	10.039 - 13.898	255.00 - 353.00						
349/350005 with 349/350015	320005/465006/565045	11.614 - 23.346	295.00 - 593.00						



Outside Boring					
		OD Bore Range			
Slide	Boring Heads	inch	mm		
349/350051	320005/465006/565045	_	-		
349/350052	320005/465006/565045	0.000 - 2.165	0.00 - 55.00		
349/350053	320005/465006/565045	1.260 - 5.118	32.00 - 130.00		
349/350054	320005/465006/565045	4.213 - 8.071	107.00 - 205.00		
349/350005 with 349/350015	320005/465006/565045	5.787 - 17.520	147.00 - 445.00		

B10-M: 12-15 Key on B10-G: 1



1 = Imperial (in) m = Metric (mm)

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- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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538 (537) Analog Cassettes

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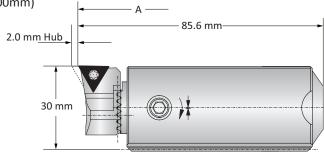
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Diameter Range: 3.937" - 128.150" (100.00mm - 3255.00mm)





Form 101

Form 20

		Boring Range				Part No.	
	Slide Type	A	Weight	Insert Form	Insert Holder	Clamping Piece	Cassette
		3.937 - 8.071	1.323 (lbs)	20	210020	137026	538051
	Serrated Tool Bodies	3.937 - 8.071	1.323 (lbs)	101	210063	137026	538051
•		3.937 - 8.071	1.323 (lbs)	103	210064	137026	538051
	Basic / Eco Slides	7.874 - 40.157	1.323 (lbs)	20	210020	137027	538051
		7.874 - 40.157	1.323 (lbs)	101	210063	137027	538051
		7.874 - 40.157	1.323 (lbs)	103	210064	137027	538051
	Flex Slides	19.685 - 128.150	1.323 (lbs)	20	210020	137019	538051
		19.685 - 128.150	1.323 (lbs)	101	210063	137019	538051
		19.685 - 128.150	1.323 (lbs)	103	210064	137019	538051
		100.00 - 205.00	0.60 (kg)	20	210020	137026	537051
	Serrated Tool Bodies	100.00 - 205.00	0.60 (kg)	101	210063	137026	537051
		100.00 - 205.00	0.60 (kg)	103	210064	137026	537051
		200.00 - 1020.00	0.60 (kg)	20	210020	137027	537051
0	Basic / Eco Slides	200.00 - 1020.00	0.60 (kg)	101	210063	137027	537051
		200.00 - 1020.00	0.60 (kg)	103	210064	137027	537051
	_	500.00 - 3255.00	0.60 (kg)	20	210020	137019	537051
	Flex Slides	500.00 - 3255.00	0.60 (kg)	101	210063	137019	537051
		500.00 - 3255.00	0.60 (kg)	103	210064	137019	537051

B10-M: 12-15 Key on B10-G: 1 B10-G: 20-21

B10-G: 16-19

B10-H

B10: vi-vii

Inserts sold separately

1. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

Factory technical assistance is also available for specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

/ WARNING Tool failure can cause serious injury. To prevent:

- -Do not exceed recommended 10xD length to diameter ratio or exceed 4 total components (including shank)
- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio -When using a $NOVI^{TECH}$ module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

B10-G: 10

M

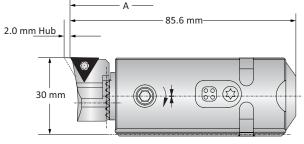
K



538 (537) Cassettes with 3ETECH

Diameter Range: 3.937" - 128.150" (100.00mm - 3255.00mm)





Form 101

Form 20

		Boring Range				Part No.	
	Slide Type	A	Weight	Insert Form	Insert Holder	Clamping Pieces	Cassette
		3.937 - 8.071	1.323 (lbs)	20	210020	137026	538052
	Serrated Tool Bodies	3.937 - 8.071	1.323 (lbs)	101	210063	137026	538052
0		3.937 - 8.071	1.323 (lbs)	103	210064	137026	538052
		7.874 - 40.157	1.323 (lbs)	20	210020	137027	538052
	Basic / Eco Slides	7.874 - 40.157	1.323 (lbs)	101	210063	137027	538052
	·	7.874 - 40.157	1.323 (lbs)	103	210064	137027	538052
	Flex Slides	19.685 - 128.150	1.323 (lbs)	20	210020	137019	538052
		19.685 - 128.150	1.323 (lbs)	101	210063	137019	538052
		19.685 - 128.150	1.323 (lbs)	103	210064	137019	538052
		100.00 - 205.00	0.60 (kg)	20	210020	137026	537052
	Serrated Tool Bodies	100.00 - 205.00	0.60 (kg)	101	210063	137026	537052
		100.00 - 205.00	0.60 (kg)	103	210064	137026	537052
		200.00 - 1020.00	0.60 (kg)	20	210020	137027	537052
0	Basic / Eco Slides	200.00 - 1020.00	0.60 (kg)	101	210063	137027	537052
		200.00 - 1020.00	0.60 (kg)	103	210064	137027	537052
		500.00 - 3255.00	0.60 (kg)	20	210020	137019	537052
	Flex Slides	500.00 - 3255.00	0.60 (kg)	101	210063	137019	537052
		500.00 - 3255.00	0.60 (kg)	103	210064	137019	537052

3ETECH Digital Readout Module

	Part No.*
0	563010
•	536010

*WEEE-Reg.-Nr. DE 15820388

NOTE: 3E^{TECH} must be ordered separately.



NOTE: Imperial item pictured

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











1 = Imperial (in) m = Metric (mm)

Inserts sold separately

** WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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- -Do not exceed recommended 10xD length to diameter ratio or exceed 4 total components (including shank)
- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

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Insert Holders for Rough Machining

90° Insert Holders

В

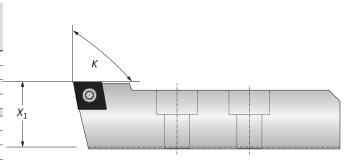
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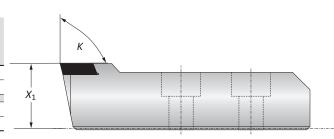
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	Insert	Holder				
	K X ₁		Weight	ISO Code	Insert Form	Part No.
	90°	1.180	1.322 (lbs)	CC09T3	103	149090
0	90°	1.180	1.322 (lbs)	CC1204	104	149099
U	90°	1.150	1.322 (lbs)	CC1204	104	149083
	90°	1.180	1.322 (lbs)	CC1605	105	149093
	90°	30.00	0.60 (kg)	CC09T3	103	149090
(1)	90°	30.00	0.60 (kg)	CC1204	104	149099
ш	90°	29.30	0.60 (kg)	CC1204	104	149083
	90°	30.00	0.60 (kg)	CC1605	105	149093



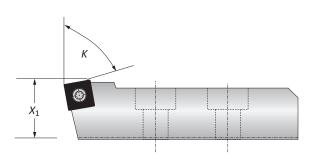
90° Tangential Insert Holders

	Insert Holder					
	Κ	<i>X</i> ₁	Weight	ISO Code	Insert Form	Part No.
0	90°	1.180	1.322 (lbs)	Tangential	05	149010
U	90°	1.150	1.322 (lbs)	Tangential	05	149020
(1)	90°	30.00	0.60 (kg)	Tangential	05	149010
•	90°	29.30	0.60 (kg)	Tangential	05	149020



80° Insert Holders

	Insert Holder					
к х1		Weight	ISO Code	Insert Form	Part No.	
	80°	1.180	1.322 (lbs)	SC1204	113	149089
0	80°	1.180	1.322 (lbs)	SC150512	114	149094
	80°	1.180	1.322 (lbs)	SN1506	134	149096
	80°	30.00	0.60 (kg)	SC1204	113	149089
(ii)	80°	30.00	0.60 (kg)	SC150512	114	149094
	80°	30.00	0.60 (kg)	SN1506	134	149096



B10-M: 12-15 Key on B10-G:

B10-G: 22-25

B10-H



Imperial (in)Metric (mm)

Inserts sold separately

1. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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- -Do not exceed recommended 10xD length to diameter ratio or exceed 4 total components (including shank)
- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

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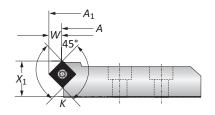
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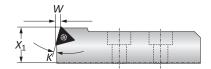
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Insert Holders for Rough Machining | Boring Range Example

Chamfering Insert Holders

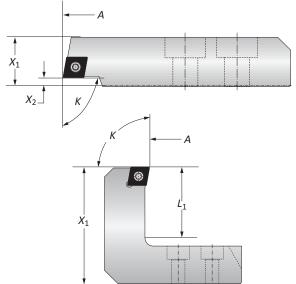
		Inser	t Holder						
	К	X ₁	A/A ₁	W	Weight	ISO Code	Insert Form	Part No.	
	15°	1.180	+0.275	0.157	1.322 (lbs)	TC16T3	163	201065	
0	20°	1.180	+0.354	0.208	1.322 (lbs)	TC16T3	163	201025	
U	30°	1.180	+0.551	0.303	1.322 (lbs)	TC16T3	163	201075	
	45°	1.180	+0.787	0.389	1.322 (lbs)	.322 (lbs) SC1505 114		201015	
	15°	30.00	+7.00	4.00	0.60 (kg)	TC16T3	163	201065	
@	20°	30.00	+9.00	5.30	0.60 (kg)	TC16T3	163	201025	
w	30°	30.00	+14.00	7.70	0.60 (kg)	TC16T3	163	201075	
	45°	30.00	+20.00	9.90	0.60 (kg)	SC1505	114	201015	





Back-Boring Insert Holders

К	X ₁	<i>X</i> ₂	Α	Weight	ISO Code	Insert Form	Part No.
90°	3.540	0.196	+1.574	1.763 (lbs)	CC1204	104	251010
90°	3.540	0.196	+2.952	1.984 (lbs)	CC1204	104	251011
,				,			
90°	30.00	5.00	+40.00	0.80 (kg)	CC1204	104	251010
90°	30.00	5.00	+75.00	0.90 (kg)	CC1204	104	251011
	90° 90°	90° 3.540 90° 3.540 90° 30.00	90° 3.540 0.196 90° 3.540 0.196 90° 30.00 5.00	90° 3.540 0.196 +1.574 90° 3.540 0.196 +2.952 90° 30.00 5.00 +40.00	90° 3.540 0.196 +1.574 1.763 (lbs) 90° 3.540 0.196 +2.952 1.984 (lbs) 90° 30.00 5.00 +40.00 0.80 (kg)	90° 3.540 0.196 +1.574 1.763 (lbs) CC1204 90° 3.540 0.196 +2.952 1.984 (lbs) CC1204 90° 30.00 5.00 +40.00 0.80 (kg) CC1204	90° 3.540 0.196 +1.574 1.763 (lbs) CC1204 104 90° 3.540 0.196 +2.952 1.984 (lbs) CC1204 104 90° 30.00 5.00 +40.00 0.80 (kg) CC1204 104



OD Turning Insert Holders

		Inser	t Holder					
	К	X ₁	L ₁	А	Weight	ISO Code	Insert Form	Part No.
0	90°	198.400	2.440	-1.968	2.204 (lbs)	CC1204	104	149040
0	90°	90.00	62.00	-50.00	1.00 (kg)	CC1204	104	149040

Boring Range Example

	Serra	ted Slide	Insert I			
	Part No.	Bore Range	Part No.	Modified Bore Range	Total Bore Range	
	350051			+0.280	8.150 - 11.300	
0	350051	7.874 - 11.023	251010	+1.600	9.450 - 12.600	
	350051	7.874 - 11.023	149040	-2.000	5.900 - 9.055	
	349051	200.00 - 280.00	201065	+7.00	207.00 - 287.00	
(1)	349051	200.00 - 280.00	251010	+40.00	240.00 - 320.00	
	349051	200.00 - 280.00	149040	-50.00	150.00 - 230.00	

NOTE: Boring range for serrated slides or base slides are found on pg. B10-G: 4 - 7

NOTE: Additional insert holders available upon request









1 = Imperial (in) m = Metric (mm)

Inserts sold separately

1. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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NARNING Tool failure can cause serious injury. To prevent:

-Do not exceed recommended 10xD length to diameter ratio or exceed 4 total components (including shank)

-When using tool steel components, do not exceed recommended 6xD length to diameter ratio

-When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio

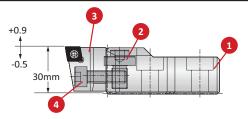
-When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio

-Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

B10-G: 13

Insert Holders for Height Adjustments and Axial Grooving



Insert Form 103

A

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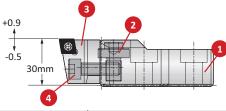
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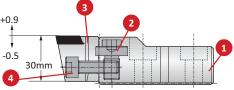
Н

		1 Support	2 Adjusting Screw		3 Insert Holder		4 Fixing Screw		
	Boring Range	Part No.	Part No.	Service Key	Insert Form	Part No.	Part No.	Service Key	Complete Part No.
0	7.874 - 128.150	149055	315355	s6 / B	103	149058	070369	s6 / B	149059
0	200.00 - 3255.00	149055	315355	s6 / B	103	149058	070369	s6 / B	149059



Insert Form 104

		1 Support	2 Adjusting Screw		3 Insert Holder		4 Fixing Screw		
	Boring Range	Part No.	Part No.	Service Key	Insert Form	Part No.	Part No.	Service Key	Complete Part No.
0	7.874 - 128.150	149055	315355	s6 / B	104	149056	070369	s6 / B	149057
0	200.00 - 3255.00	149055	315355	s6 / B	104	149056	070369	s6 / B	149057

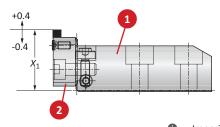


Insert Form 05

	1 Support		2 Adjusti	ng Screw	3 Insert	Holder	4 Fixing	g Screw	
	Boring Range	Part No.	Part No.	Service Key	Insert Form	Part No.	Part No.	Service Key	Complete Part No.
0	7.874 - 128.150	149055	315355	s6 / B	05	149085	070369	s6 / B	149086
0	200.00 - 3255.00	149055	315355	s6 / B	05	149085	070369	s6 / B	149086

Insert Holders for Axial Grooving

	Insert Holder X_1	1 Support Module Part No.	2 Insert Holder Part No.	Weight	Insert Form	Complete Part No.
0	1.574	226014	226031	0.661 (lbs)	304	226029
0	40.00	226014	226031	0.30 (kg)	304	226029



Imperial (in)

m = Metric (mm)

Inserts sold separately

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-Refer to example on page B10-M: 11 for calculating tool assembly weight

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- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

B10-G: 14

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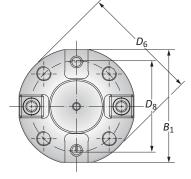
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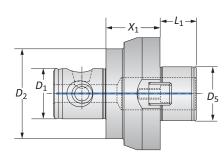
D

MVS Holding Arbors









	MVS Connection				Holding /	Arbor				
	$D_2 \mid D_1$	Holding Arbor Connection	<i>X</i> ₁	L ₁	D ₅	<i>D</i> ₆	D ₈	B ₁	Weight	Part No.
	80 - 36	D 40 Alu-Line	0.748	1.181	1.575	3.503	2.625	3.150	1.102 (lbs)	309001(1)(2)
	80 - 36	D 60	2.362	1.574	2.362	5.082	4.000	4.921	9.038 (lbs)	209060(1)
0	100 - 56	D 40 Alu-Line	1.181	1.181	1.575	3.503	2.625	3.149	2.204 (lbs)	309041(2)
	100 - 56	D 60	2.362	1.575	2.362	5.082	4.000	4.921	13.880 (lbs)	209043
	100 - 56	D 60 Alu-Line	2.362	1.575	2.362	5.082	4.000	4.921	4.850 (lbs)	309043 ⁽²⁾
			1			1	ı			
	80 - 36	D 40 Alu-Line	19.00	30.00	40.00	89.00	66.70	80.00	0.50 (kg)	309001(1)(2)
	80 - 36	D 60	60.00	40.00	60.00	129.10	101.60	125.00	4.10 (kg)	209060(1)
0	100 - 56	D 40 Alu-Line	30.00	30.00	40.00	89.00	66.70	80.00	1.00 (kg)	309041(2)
	100 - 56	D 60	60.00	40.00	60.00	129.10	101.60	125.00	6.30 (kg)	209043
	100 - 56	D 60 Alu-Line	60.00	40.00	60.00	129.10	101.60	125.00	2.20 (kg)	309043 ⁽²⁾

(1) For light machining only

(2) Lightweight aluminum construction only in connection with our serrated slides

Basic D 40 Serrated Slides: Ø 7.874" - 20.472" (200.00 - 520.00mm) (Page B10-E: 4)

Basic D 60 Serrated Slides: Ø 7.874" - 19.882" (200.00 - 505.00mm) (Page B10-E: 5)







1. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

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NARNING Tool failure can cause serious injury. To prevent:

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-When using tool steel components, do not exceed recommended 6xD length to diameter ratio

-When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio

-When using a carbide shank, do not exceed recommended 9xD length to diameter ratio -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio

-Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

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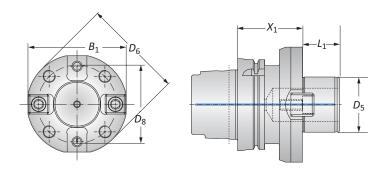
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HSK-A (DIN 69 893) Shanks

Master Shanks D 40 / D 60





HCK V (DIN CO 603) Chapke

HSK	-A (DIN 69 893) Shank									
					Sha	ank				
	Taper Size	Connection	<i>X</i> ₁	<i>L</i> ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
	63	D 40	2.362	1.181	1.575	3.504	2.626	3.150	4.200 (lbs)	358015
0	100	D 40	2.362	1.181	1.575	3.504	2.626	3.150	7.900 (lbs)	258021
U	100	D 60	2.756	1.575	2.362	5.083	4.000	4.921	11.500 (lbs)	258061
	100	D 60	2.756	1.575	2.362	5.083	4.000	4.331	11.000 (lbs)	258098
							1	1		
	63	D 40	60.00	30.00	40.00	89.00	66.70	80.00	1.90 (kg)	358015
@	100	D 40	60.00	30.00	40.00	89.00	66.70	80.00	3.60 (kg)	258021
w	100	D 60	70.00	40.00	60.00	129.10	101.60	125.00	5.20 (kg)	258061
	100	D 60	70.00	40.00	60.00	129.10	101.60	110.00	5.00 (kg)	258098

K B10-M: 12-15 Key on B10-G: 1

B10-G: 16



1 = Imperial (in) m = Metric (mm)

WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

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- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

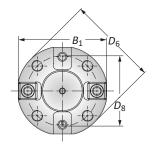
Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

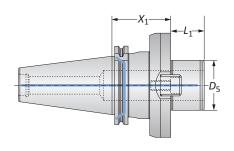
M

Master Shanks D 40 / D 60

CAT 40 / 50 Shanks with Imperial Threads | CAT 50 Shank with Metric Threads



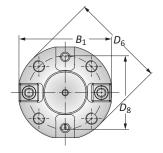


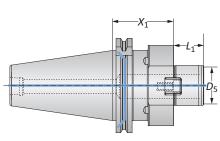


CAT 40 / 50 Shanks with Imperial Threads

	Taper Size	Connection	<i>X</i> ₁	<i>L</i> ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
	40	D 40	1.970	1.181	1.575	3.504	2.626	3.150	4.000 (lbs)	357004
0	50	D 40	1.970	1.181	1.575	3.504	2.626	3.150	8.400 (lbs)	357001
U	50	D 60	2.756	1.575	2.362	5.083	4.000	4.331	11.700 (lbs)	357002
	50	D 60	2.756	1.575	2.362	5.083	4.000	4.921	12.100 (lbs)	357003







CAT 50 Shanks with Metric Threads

			Shank							
	Taper Size	Connection	<i>X</i> ₁	<i>L</i> ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
0	50	D 40	60.00	30.00	40.00	89.00	66.70	80.00	4.60 (kg)	326083





1 = Imperial (in) m = Metric (mm)

1. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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NARNING Tool failure can cause serious injury. To prevent:

-Do not exceed recommended 10xD length to diameter ratio or exceed 4 total components (including shank)

-When using tool steel components, do not exceed recommended 6xD length to diameter ratio

-When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio

-When using a carbide shank, do not exceed recommended 9xD length to diameter ratio -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio

-Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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Master Shanks D 40 / D 60

SK (DIN 69 871-AD/B) | BT / JIS B 6339 Shanks



A

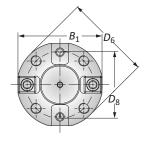
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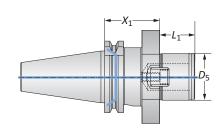
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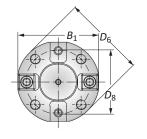


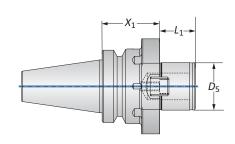
SK (DIN 69 871-AD/B) Shanks

	Taper Size	Connection	<i>X</i> ₁	L_1	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
	40	D 40	1.969	1.181	1.575	3.504	2.626	3.150	4.190 (lbs)	326080*
0	50	D 40	1.969	1.181	1.575	3.504	2.626	3.150	9.040 (lbs)	326081
U	50	D 60	2.756	1.575	2.362	5.083	4.000	4.921	12.790 (lbs)	198054T019539
	50	D 60	2.756	1.575	2.362	5.083	4.000	4.331	12.130 (lbs)	198081T019539
	40	D 40	50.00	30.00	40.00	89.00	66.70	80.00	1.90 (kg)	326080*
@	50	D 40	50.00	30.00	40.00	89.00	66.70	80.00	4.10 (kg)	326081
•	50	D 60	70.00	40.00	60.00	129.10	101.60	125.00	5.80 (kg)	198054T019539
	50	D 60	70.00	40.00	60.00	129.10	101.60	110.00	5.50 (kg)	198081T019539

^{*}For light machining only







BT / JIS B 6339 Shanks

	Taper Size	Connection	X ₁	<i>L</i> ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
	40	D 40	1.969	1.181	1.575	3.504	2.626	3.150	4.000 (lbs)	326084
0	50	D 40	2.165	1.181	1.575	3.504	2.626	3.150	9.900 (lbs)	326082
	50	D 60	3.150	1.575	2.362	5.083	4.000	_	17.600 (lbs)	326062
			1	1	1	ſ	1	1		
	40	D 40	50.00	30.00	40.00	89.00	66.70	80.00	1.80 (kg)	326084
(1)	50	D 40	55.00	30.00	40.00	89.00	66.70	80.00	4.50 (kg)	326082
	50	D 60	80.00	40.00	60.00	19.10	101.60	-	8.00 (kg)	326062





.. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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MARNING Tool failure can cause serious injury. To prevent:

- -Do not exceed recommended 10xD length to diameter ratio or exceed 4 total components (including shank)
- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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INDEX

B10-G: 18

M

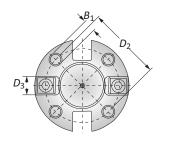
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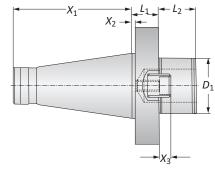


Master Shanks D 40 / D 60

NMTB Shanks | DIN 2080 Shanks



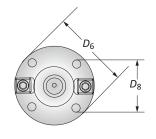


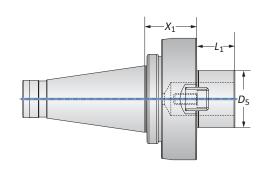


NMTB Shanks

				Shank									
	Taper Size	Connection	<i>X</i> ₁	<i>X</i> ₂	<i>L</i> ₁	L ₂	D ₁	<i>X</i> ₃	D ₂	D ₃	B ₁	Weight	Part No.
0	50	D 60	4.992	0.126	1.142	1.575	2.362	0.492	4.000	1.000	M16	17.637 (lbs)	198051T004480
0	50	D 60	126.80	3.20	29.00	40.00	60.00	12.50	101.60	25.40	M16	8.00 (kg)	198051T004480







DIN 2080 Shanks

			ı	Sha	ank					
	Taper Size	Connection	<i>X</i> ₁	<i>L</i> ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
0	50	D 60	2.165	1.575	2.362	5.039	4.000	-	14.991 (lbs)	326035
					1				1	
<u> </u>	50	D 60	55.00	40.00	60.00	128.00	101.60	_	6.80 (kg)	326035





1 = Imperial (in) m = Metric (mm)

MARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

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- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVI^{TECH} module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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538 (537) Accessories

Clamping Pieces | Counter Weight | Insert Holders for Abrasive Materials

538 (537) Clamping Pieces

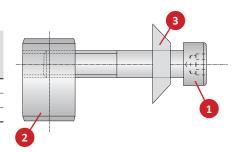
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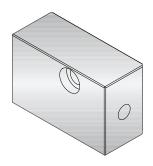
				Replacement Components				
	Complete			1	2	3		
Slide Type	Part No.	Servio	е Кеу	Cap Screw	Clamping Nut	Disk Spring		
Serrated Tool Bodies	137026			215101	140118	337105		
Basic and Eco Slides	137027	115578	s6 / B	215102	215105	337105		
Flex Slides	137019			415900	215105	337105		

NOTE: Clamping pieces sold separately



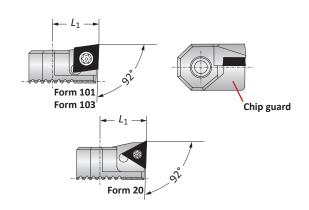
538 (537) Counter Weights

	Boring Range	Part No.
0	3.937 - 128.15	538055
	100.00 - 3255.00	537055



Insert Holders for Abrasive Materials

Boring Range	L_1	Weight	Insert Form	Part No.
3.937 - 128.150	0.708	0.066 (lbs)	20	211061
3.937 - 128.150	0.708	0.066 (lbs)	101	211063
3.937 - 128.150	0.708	0.066 (lbs)	103	211065
100.00 - 3255.00	18.00	0.03 (kg)	20	211061
100.00 - 3255.00	18.00	0.03 (kg)	101	211063
100.00 - 3255.00	18.00	0.03 (kg)	103	211065
	3.937 - 128.150 3.937 - 128.150 3.937 - 128.150 100.00 - 3255.00 100.00 - 3255.00	3.937 - 128.150 0.708 3.937 - 128.150 0.708 3.937 - 128.150 0.708 3.937 - 128.150 0.708 100.00 - 3255.00 18.00 100.00 - 3255.00 18.00	3.937 - 128.150 0.708 0.066 (lbs) 3.937 - 128.150 0.708 0.066 (lbs) 3.937 - 128.150 0.708 0.066 (lbs) 100.00 - 3255.00 18.00 0.03 (kg) 100.00 - 3255.00 18.00 0.03 (kg)	3.937 - 128.150 0.708 0.066 (lbs) 20 3.937 - 128.150 0.708 0.066 (lbs) 101 3.937 - 128.150 0.708 0.066 (lbs) 103 100.00 - 3255.00 18.00 0.03 (kg) 20 100.00 - 3255.00 18.00 0.03 (kg) 101







1 = Imperial (in) m = Metric (mm)

Inserts sold separately

WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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B10-G: 20

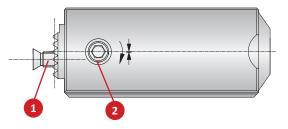
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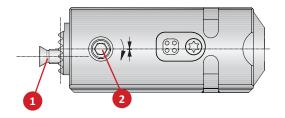


538 (537) Accessories | 3ETECH Accessories

Accessories



538 (537) Analog Cassette



538 (537) Cassette

538 (537) Accessories

		1 Counters	sunk Screw	2 Clamping Screw					
	Cassette Part No.	Part No.	Service Key	Part No.	Service Key				
•	538051	215462	T20 / H	115249	s4 / F				
U	538052	215462	T20 / H	315789	s4 / F				
m	537051	215462	T20 / H	115249	s4 / F				
_	537052	215462	T20 / H	315789	s4 / F				

3ETECH Accessories

2					
Battery CR2032					
Part No.					
515491					







1 = Imperial (in) m = Metric (mm)

Inserts sold separately

MARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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Serrated Slide Basic D 40 Accessories

Clamping Pieces

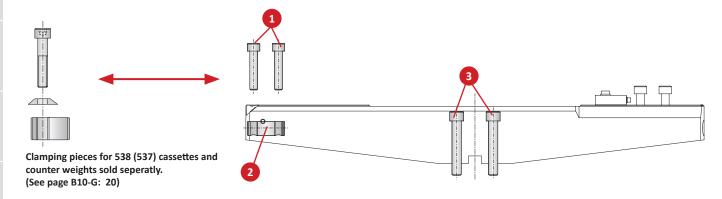
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Clamping Pieces

		Serrated Slide	1 Cap	Screw	2 Clamping Nut	3 Thre	3 Thread Pin		Screw
	Connection	Part No.	Part No.	Service Key	Part No.	Part No.	Service Key	Part No.	Service Key
	D 40	350021	115118	s8 / B	115669	349010	s4 / F	315186	s10 / C
0	D 40	350022	115118	s8 / B	115669	349011	s4 / F	315186	s10 / C
U	D 40	350023	115118	s8 / B	115669	349012	s4 / F	315186	s10 / C
	D 40	350024	115118	s8 / B	115669	349013	s4 / F	315186	s10 / C
	D 40	349021	115118	s8 / B	115669	349010	s4 / F	315186	s10 / C
a	D 40	349022	115118	s8 / B	115669	349011	s4 / F	315186	s10 / C
w	D 40	349023	115118	s8 / B	115669	349012	s4 / F	315186	s10 / C
	D 40	349024	115118	s8 / B	115669	349013	s4 / F	315186	s10 / C

B10-M: 12-15 Key on B10-G: 1



T WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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MARNING Tool failure can cause serious injury. To prevent:

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- -When using tool steel components, do not exceed recommended 6xD length to diameter ratio
- -When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio
- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVI^{TECH} module, do not exceed recommended 10xD length to diameter ratio -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio
- Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

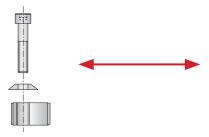
B10-G: 22

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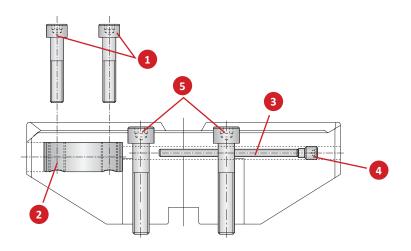
K

Serrated Slide Basic D 60 Accessories

Clamping Pieces | Cover Plates



Clamping pieces for 538 (537) cassettes and counter weights sold seperatly. (See page B10-G: 20)

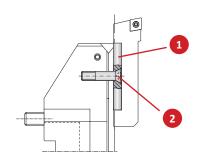


Clamping Pieces

		Serrated Slide	1 Cap	Screw	2 Clamping Nut	3 Adjustment Pin	4 Thre	ad Pin	5 Cap Screw				
	Connection	Part No.	Part No.	Service Key	Part No.	Part No.	Part No.	Service Key	Part No.	Service Key			
	D 60	350051	115118	s8 / B	115669	114112	115196	s4 / F	115170	s14 / C			
0	D 60	350052	115118	s8 / B	115669	114113	115196	s4 / F	115170	s14 / C			
U	D 60	350053	115118	s8 / B	115669	114114	115196	s4 / F	115170	s14 / C			
	D 60	350054	115118	s8 / B	115669	114115	115196	s4 / F	115170	s14 / C			
	D 60	349051	115118	s8 / B	115669	114112	115196	s4 / F	115170	s14 / C			
0	D 60	349052	115118	s8 / B	115669	114113	115196	s4 / F	115170	s14 / C			
•	D 60	349053	115118	s8 / B	115669	114114	115196	s4 / F	115170	s14 / C			
	D 60	349054	115118	s8 / B	115669	114115	115196	s4 / F	115170	s14 / C			

Cover Plates for Basic D 60 Serrated Slides

		Serrated Slide	1 Cover Plate	2 Countersunk Screw	
	Connection	Part No.	Part No.	Part No.	Service Key
	D 60	350051	349016	063106	s4 / B
•	D 60	350052	349017	063106	s4 / B
0	D 60	350053	349017	063106	s4 / B
	D 60	350054	349017	063106	s4 / B
	D 60	349051	349016	063106	s4 / B
@	D 60	349052	349017	063106	s4 / B
•	D 60	349053	349017	063106	s4 / B
	D 60	349054	349017	063106	s4 / B







1 = Imperial (in) m = Metric (mm)

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NARNING Tool failure can cause serious injury. To prevent:

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-When using tool steel components, do not exceed recommended 6xD length to diameter ratio

-When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio

-When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio

-Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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Serrated Slide Eco D 60 Accessories

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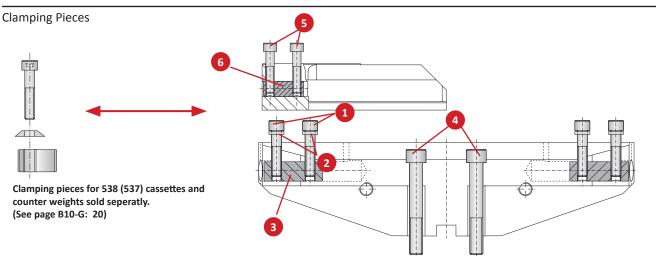
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Base Slide Clamping Pieces

		Base Slide	1 Cap	Screw	2 Disc	3 Clamping Nut	4 Cap	Screw
	Connection	Part No.	Part No.	Service Key	Part No.	Part No.	Part No.	Service Key
0	D 60	350005	115771	s10 / C	115737	415181	077128	s14 / C
_	D 60	350006	115771	s10 / C	115737	415181	077128	s14 / C
a	D 60	349005	115771	s10 / C	115737	415181	077128	s14 / C
<u> </u>	D 60	349006	115771	s10 / C	115737	415181	077128	s14 / C

Serrated Slide Clamping Pieces

	Serrated Slide	5 Cap	6 Clamping Nut	
	Part No.	Part No.	Service Key	Part No.
-	350014	115118	s8 / B	115669
U	350015	115118	s8 / B	115669
m	349014	115118	s8 / B	115669
_	349015	115118	s8 / B	115669





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- -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio
- -When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio
- -Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

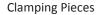
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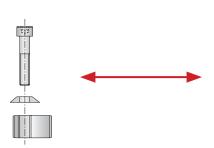
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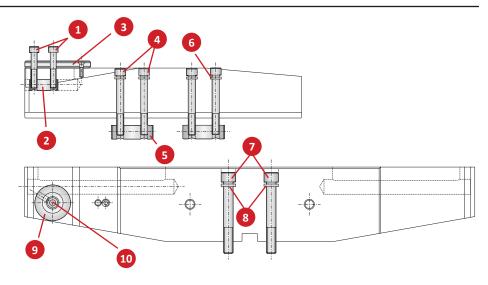
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Serrated Slide Flex D 60 Accessories





Clamping pieces for 538 (537) cassettes and counter weights sold seperatly. (See page B10-G: 20)



Serrated Slide Clamping Pieces

		. 1. 0								
	Serrated Slide	1 Cap	Screw	2 Clamping Nut	3 A	dapter	4 Cap	4 Cap Screw		6 Disk
	Part No.	Part No.	Service Key	Part No.	Part No.	Service Key	Part No.	Service Key	Part No.	Part No.
	350035	115307	s8 / B	115669	349043	s4 / B	315186	s10 / C	349202	115737
0	350036	115307	s8 / B	115669	349043	s4 / B	077110	s10 / C	415181	115737
U	350037	115307	s8 / B	115669	349043	s4 / B	315403	s10 / C	415181	115737
	350038	115307	s8 / B	115669	349043	s4 / B	315415	s10 / C	415181	115737
	349035	115307	s8 / B	115669	349043	s4 / B	315186	s10 / C	349202	115737
	349036	115307	s8 / B	115669	349043	s4 / B	077110	s10 / C	415181	115737
0	349037	115307	s8 / B	115669	349043	s4 / B	315403	s10 / C	415181	115737
	349038	115307	s8 / B	115669	349043	s4 / B	315415	s10 / C	415181	115737

Base Slide Clamping Pieces

		Base Slide	7 Cap	Screw	8 Disk	9 Injector	10 Countersunk Screw			
	Connection	Part No.	Part No.	Service Key	Part No.	Part No.	Part No.	Service Key		
	D 60	350031	115736	s14 / C	068168	349201	415898	s6 / B		
A	D 60	350032	415913	s14 / C	068168	349201	415898	s6 / B		
U	D 60	350033	215509	s14 / C	068168	349201	415898	s6 / B		
	D 60	350034	415636	s14 / C	068168	349201	415898	s6 / B		
					·					
	D 60	349031	115736	s14 / C	068168	349201	415898	s6 / B		
(1)	D 60	349032	415913	s14 / C	068168	349201	415898	s6 / B		
•	D 60	349033	215509	s14 / C	068168	349201	415898	s6 / B		
	D 60	349034	415636	s14 / C	068168	349201	415898	s6 / B		





1 = Imperial (in) m = Metric (mm)

1. WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-Consult machine tool builder for machine's weight limitations.

-Refer to example on page B10-M: 11 for calculating tool assembly weight

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NARNING Tool failure can cause serious injury. To prevent:

-Do not exceed recommended 10xD length to diameter ratio or exceed 4 total components (including shank)

-When using tool steel components, do not exceed recommended 6xD length to diameter ratio

-When using a heavy metal reducer, do not exceed recommended 8xD length to diameter ratio -When using a carbide shank, do not exceed recommended 9xD length to diameter ratio

-When using a NOVITECH module, do not exceed recommended 10xD length to diameter ratio

-Refer to examples on pages B10-M: 8-10 for calculating length to diameter ratio

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A Notes

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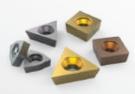
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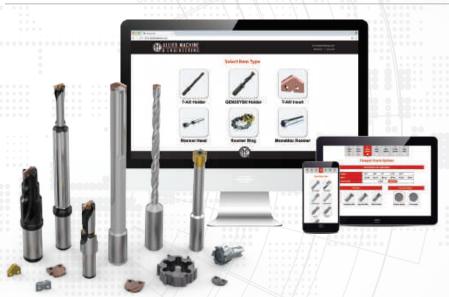
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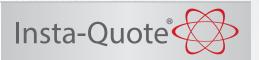
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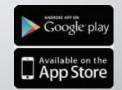




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Customer Support

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Allied Machine has many lines of support to ensure we're available to assist you at all times. It's important to establish relationships with new customers, but we also know it's equally important to strengthen and support relationships with existing customers. Whether you need help with an order or you need someone to come assist you at the spindle, we have the right people to get you what you need.



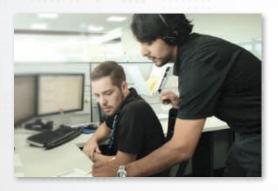
1

Inside Sales Support

Our inside sales team is trained to handle your account information and general inquiries. We are happy to assist you and find the answers to your questions.

- \$ 1.330.343.4283 ext. 8610
- 1.800.321.5537 (toll free United States and Canada)
- insidesales@alliedmachine.com





2

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Our highly trained and skilled Application Engineers are here to assist you. If you are experiencing technical difficulties, our engineers will recommend the best solutions to the problem. Speeds and feeds, coolant pressure, and other machining components all affect the performance of our tooling. Our AEs are experienced in working with difficult materials in many different environments. Give us a call and put our knowledge to the test.

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- □ appeng@alliedmachine.com

3

Field Support

Allied Machine provides local engineering support all over the world. Our Field Sales Engineers (FSEs) spend months training in-house before going to the field. This support line allows us to provide assistance to our customers right at the spindle. They are available to visit your facility, run demos and tests, and work hand-in-hand with machine operators and engineers to find the best possible tooling solutions.

Visit www.alliedmachine.com/fse to get in touch with your local Field Sales Engineer.

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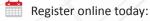
Join us for LIVE broadcast training events where you will have the ability to learn about our tooling, watch live demos, and ask our trainers questions.

- · Quick brief presentation provides basic knowledge of our products
- Watch live demos of tools at the spindle at different speeds and feeds

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Allied Machine's Technical Education Seminar (TES) puts the attendees in front of the machines. When you attend our three day TES program, you'll gain first-hand experience in *real-life* application situations. Test and experiment with different speeds and feeds, observe the results, and discover the best solution.

- Training Lab: In-depth training at the spindle allows you to choose speeds and feeds
- · Learning Lab: Quick, brief sessions provide basic knowledge of our products
- Facility Tours: Take guided tours of our two manufacturing facilities located in Dover, Ohio







Guaranteed Test / Demo Application Form

Distributor PO#

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

ontact:				End User Information Company Name: Contact: Industry: Phone: Email:			
urrent Process	List all tooling, coatin	ngs, substrates, speeds	and feeds, tool	life, and any problems y	ou are exper	iencing	
est Objective	List what would make	e this a successful test (i.e. penetration	n rate, finish, tool life, ho	ole size, etc.)		
pplication Info	rmation						
Hole Diameter:		in/mm Tolerance	ə: <u> </u>		Material:	(4150 / A36 /	Cast Iron / etc.)
Preexisting Diame	ter:	in/mm Depth of	Cut:	in/mm	Hardness:	(BH	N / Rc)
Required Finish:		RMS			State:	(Casting / Hot	rolled / Forging)
lachine Inform	ation						
Machine Type:	(Lathe / Screw machine /	Machine center / etc.)	Builder:	(Haas, Mori Seiki, etc)	Model #:	
Shank Required:	(CAT50 / Morse	taper, etc.)				Power:	HP/KW
Rigidity:	Orientation:	Tool Rotating:				Thrust:	lbs/N
Excellent	☐ Vertical	☐ Yes					
Good	☐ Horizontal	☐ No					
Poor							
oolant Informa	ntion						
		hrough tool / Flood)		Coolant Pressure:			PSI / bar
Coolant Delivery:	(TI	mough tool / Hood/					

Requested Tooling

QTY	Item Number	QT

QTY	Item Number



Allied Machine & Engineering

120 Deeds Drive Dover, OH 44622

Telephone: (330) 343-4283

Toll Free USA & Canada: (800) 321-5537 Fax: (330) 602-3400

Email: info@alliedmachine.com





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• • • • •

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United States

Allied Machine & Engineering

120 Deeds Drive Dover OH 44622 United States

Phone:

+1.330.343.4283

Toll Free USA and Canada:

800.321.5537

Fax:

+1.330.602.3400

Toll Free USA and Canada:

800.223.5140

Allied Machine & Engineering

485 W Third Street Dover OH 44622 United States

Phone:

+1.330.343.4283

+1.330.364.7666 (Engineering Dept.) Toll Free USA and Canada: 800.321.5537

Europe

Allied Machine & Engineering Co. (Europe) Ltd.

93 Vantage Point Pensnett Estate Kingswinford West Midlands DY6 7FR England Phone:

+44 (0) 1384.400900

Wohlhaupter GmbH

Maybachstrasse 4 Postfach 1264 72636 Frickenhausen Germany

Phone:

+49 (0) 7022.408.0

+49 (0) 7022.408.212

Asia

Wohlhaupter India Pvt. Ltd.

B-23, 3rd Floor B Block Community Centre Janakpuri, New Delhi - 110058 India

Phone:

+91 (0) 11.41827044

Your local Allied Machine representative:

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