

Holemaking Solutions for Today's Manufacturing



Specials

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: 200.00 mm - 3255.00 mm



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 aluminium alloy to minimise the weight while still getting the heavy boring job done. The versatile serrated slides and serrated tool bodies allow for boring 200.00 mm up to 3255.00 mm, offering the most powerful and versatile tool ranges to our customers.

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



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

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

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

⚠ WARNING

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

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

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

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

Applicable Industries



Aerospace Agricultui



Agriculture Automotive



Firearms



Machining

General Oil & Gas



Renewab Energy

Reference Icons

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



Clamping Elements

For use with insert holders and boring heads



Shanks

A variety of shanks for different machines



| Ir

Inserts

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



MVS Connection Colour Guide

Detailed instructions and information regarding the MVS connection(s)



Recommended Cutting Data

Speed and feed recommendations for optimum and safe boring



Through Coolant Option

Indicates that the product is through coolant

Large Diameter Boring Table of Contents

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	Diameter Range		
Series	Metric (mm)		
Basic D 40 Slides	200.00 - 520.00		
Basic D 60 Slides	200.00 - 505.00		
Eco D 60 Slides	465.00 - 1020.00		
Flex D 60 Slides	500.00 - 3255.00		

Large Diameter Boring Product Overview



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.

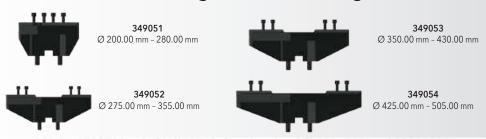
- Diameter range: 200.00 mm 3255.00 mm.
- Basic, Eco, and Flex serrated slides.
- Roughing, finishing, or combined roughing and finishing can be achieved in one pass.
- Digital readout cassettes available for quick and easy adjustments.
- Alu-Line serrated slides and tool bodies are made of lightweight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



▶ Basic D 40 Serrated Slides for Finish Boring



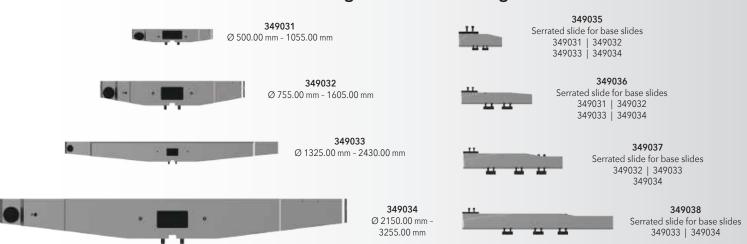
Basic D 60 Serrated Slides for Rough and Finish Boring



Eco D 60 Serrated Slides for Rough and Finish Boring



► Flex D 60 Serrated Slides for Rough and Finish Boring



Alu-Line Basic D 40 Serrated Slides

Diameter Range: 200.00 mm - 520.00 mm



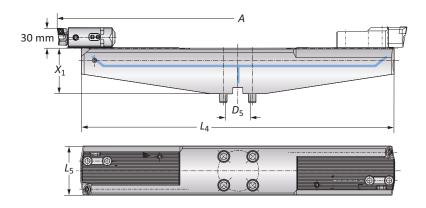
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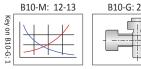
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	Connection	Boring Range	Serrated Slide				
	D ₅	A	X ₁	L ₄	<i>L</i> ₅	Weight	Part No.
	D 40	200.00 - 280.00	75.00	190.00	80.00	2.80 (kg)	349021
@	D 40	280.00 - 360.00	75.00	270.00	80.00	3.80 (kg)	349022
•	D 40	360.00 - 440.00	75.00	350.00	80.00	5.00 (kg)	349023
	D 40	440.00 - 520.00	75.00	430.00	80.00	6.00 (kg)	349024











m = Metric (mm)

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.

Factory technical assistance is also available for specific applications through our Application Engineering department. email: engineering.eu@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 Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio. -When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio.

-When using heavy metal components, 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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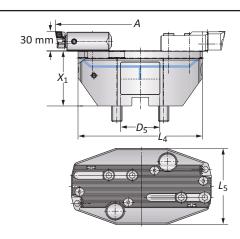
B10-G: 4

Alu-Line Basic D 60 Serrated Slides

Diameter Range: 200.00 mm - 505.00 mm







	Connection	Boring Range	Serrated Slide				
	D ₅	A	<i>X</i> ₁	L ₄	<i>L</i> ₅	Weight	Part No.
	D 60	200.00 - 280.00	85.00	191.00	110.00	4.10 (kg)	349051
@	D 60	275.00 - 355.00	85.00	264.00	110.00	5.20 (kg)	349052
w	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











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-When using Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.

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

-When using heavy metal components, 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: 465.00 mm - 1020.00 mm



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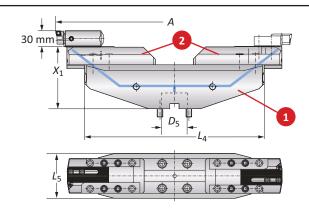
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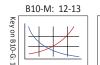
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	Connection	Boring Range	Se	Serrated Slide		1 Base Slide		2 Serrated Slide (Alu-Line)*		2 Serrated Slide (steel)**	
	D ₅	Α	<i>X</i> ₁	L ₄	L ₅	Weight	Part No.	Weight	Part No.	Weight	Part No.
@	D 60	465.00 - 745.00	155.00	447.00	129.00	11.80 (kg)	349005	2.20 (kg)	349015	5.70 (kg)	349014
_	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.











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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/ 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 Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.
-When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio.

-When using heavy metal components, 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. email: engineering.eu@alliedmachine.com

B10-G: 6

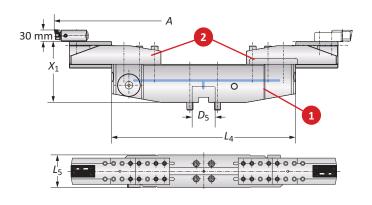
^{**}Rough boring: serrated slide in steel.

Alu-Line Flex D 60 Serrated Slides

Diameter Range: 500.00 mm - 3255.00 mm







	Connection	Boring Range	Serrated Slide				Par	t No.
	D ₅	А	<i>X</i> ₁	L ₄	L ₅	Weight (1 + 2)	1 Base Slide	2 Serrated Slide
	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

B10-M: 12-13 Key on B10-G: 1









m = Metric (mm)

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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* 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 Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio. -When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio.

-When using heavy metal components, 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

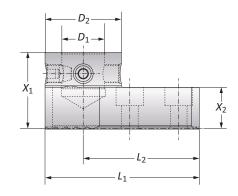
Mounting Adapter

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





Inside Boring

		ID Bore Range
Slide	Boring Heads	mm
349051	310005/464006/564045	215.00 - 313.00
349052	310005/464006/564045	290.00 - 388.00
349053	310005/464006/564045	365.00 - 463.00
349054	310005/464006/564045	440.00 - 538.00
349005 with 349015	310005/464006/564045	480.00 - 778.00



Outside Boring

		OD Bore Range		
Slide	Boring Heads	mm		
349051	310005/464006/565045	67.00 - 165.00		
349052	310005/464006/565045	142.00 - 240.00		
349053	310005/464006/565045	217.00 - 315.00		
349054	310005/464006/565045	292.00 - 390.00		
349005 with 349015	310005/464006/565045	332.00 - 630.00		

NOTE: LH only spindle rotation.





metric (mm)

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

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1 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 Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.

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

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

-When using a carbide shank, do not exceed recommended $9\mathrm{xD}$ 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.

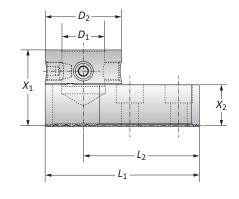
Factory technical assistance is available for your specific applications through our Application Engineering department. email: engineering.eu@alliedmachine.com

B10-G: 8

Serrated Adapter with MVS Connection

Mounting Adapter

	MVS Connection		Mounting				
	$D_2 \mid D_1$	<i>X</i> ₁	X ₂	<i>L</i> ₁	L ₂	Weight	Part No.
•	50 - 28	50.00	27.00	101.00	76.00	1.30 (kg)	349046





Inside Boring

		ID Bore Range
Slide	Boring Heads	mm
349051	310005/464006/564045	65.00 -128.00
349052	310005/464006/564045	105.00 - 203.00
349053	310005/464006/564045	180.00 - 278.00
349054	310005/464006/564045	255.00 - 353.00
349005 with 349015	310005/464006/564045	295.00 - 593.00



Outside Boring

		OD Bore Range
Slide	Boring Heads	mm
349051	310005/464006/564045	-
349052	310005/464006/564045	0.00 - 55.00
349053	310005/464006/564045	32.00 - 130.00
349054	310005/464006/564045	107.00 - 205.00
349005 with 349015	310005/464006/564045	147.00 - 445.00

NOTE: LH only spindle rotation.





m = Metric (mm)

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-When using heavy metal components, 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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537 Analogue Cassettes

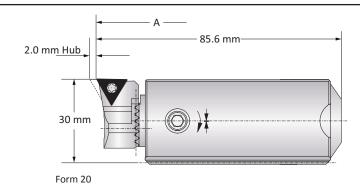
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Diameter Range: 100.00 mm - 3255.00 mm



Form 101



	Boring Range						
	Slide Type	А	Weight	Insert Form	Insert Holder	Clamping Piece	Cassette
		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
(1)	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: 12-13 Key on B10-G:

B10-G: 20-21

B10-G: 16-19

B10-H

m = Metric (mm) Inserts sold separately

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-When using heavy metal components, 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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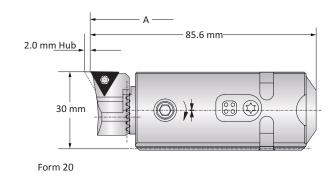
B10-G: 10

537 Digital Cassettes with 3ETECH+

Diameter Range: 100.00 mm - 3255.00 mm



Form 101



		Boring Range			Part No.		
	Slide Type	А	Weight	Insert Form	Insert Holder	Clamping Pieces	Cassette
		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
	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
Ì		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.	Charging Unit*
536015	536016

NOTE: WEEE-Reg.-Nr. DE 15820388 *Charging unit sold separately.



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











m = Metric (mm)

Inserts sold separately

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-When using heavy metal components, 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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www.alliedmachine.com | +44 (0) 1384 400 900 | enquiries.eu@alliedmachine.com

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B10-G: 11

Insert Holders for Rough Machining

90° Insert Holders

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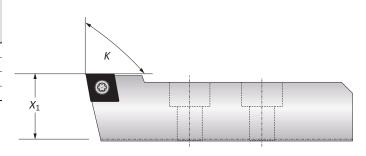
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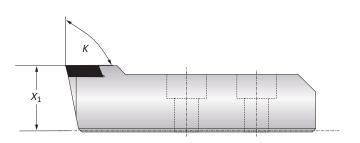
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Insert Holder						
	К	X ₁	Weight	ISO Code	Insert Form	Part No.
	90°	30.00	0.60 (kg)	CC09T3	103	149090
a	90°	30.00	0.60 (kg)	CC1204	104	149099
	90°	29.30	0.60 (kg)	CC1204	104	149083
	90°	30.00	0.60 (kg)	CC1605	105	149093



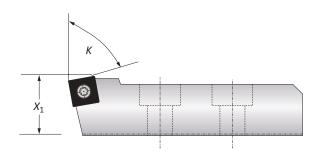
90° Tangential Insert Holders

Insert Holder		Holder					
	К	<i>X</i> ₁	Weight	ISO Code	Insert Form	Part No.	
a	90°	30.00	0.60 (kg)	Tangential	05	149010	
—	90°	29.30	0.60 (kg)	Tangential	05	149020	



80° Insert Holders

	Insert Holder					
	К	<i>X</i> ₁	Weight	ISO Code	Insert Form	Part No.
	80°	30.00	0.60 (kg)	SC1204	113	149089
(1)	80°	30.00	0.60 (kg)	SC150512	114	149094
	80°	30.00	0.60 (kg)	SN1506	134	149096



B10-M: 12-13 Key on B10-G:



B10-G: 16-19

B10-H

B10: VI-VII

m = Metric (mm)
Inserts sold separately

t:

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. email: engineering.eu@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 Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.
-When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio.

-When using heavy metal components, 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.

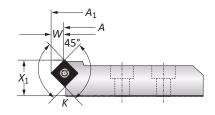
Factory technical assistance is available for your specific applications through our Application Engineering department. email: engineering.eu@alliedmachine.com

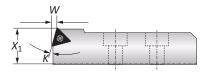
B10-G: 12

Insert Holders for Rough Machining | Boring Range Examples

Chamfering Insert Holders

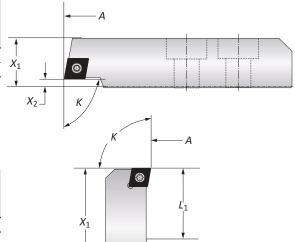
Insert Holder								
	К	<i>X</i> ₁	A/A ₁	W	Weight	ISO Code	Insert Form	Part No.
	15°	30.00	+7.00	4.00	0.60 (kg)	TC16T3	163	201065
(1)	20°	30.00	+9.00	5.30	0.60 (kg)	TC16T3	163	201025
	30°	30.00	+14.00	7.70	0.60 (kg)	TC16T3	163	201075
	45°	30.00	+20.00	9.90	0.60 (kg)	SC1505	114	201015





Back-Boring Insert Holders

		Inser	t Holder					
	К	<i>X</i> ₁	<i>X</i> ₂	A	Weight	ISO Code	Insert Form	Part No.
•	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



OD Turning Insert Holders

		Inser	t Holder					
							Insert	
	Κ	<i>X</i> ₁	L ₁	Α	Weight	ISO Code	Form	Part No.
0	90°	90.00	62.00	-50.00	1.00 (kg)	CC1204	104	149040

Boring Range Examples

50	ing manige Exami	pics			
	Serra	ted Slide	Insert		
	Part No.	Bore Range	Part No.	Modified Bore Range	Total Bore Range
	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.

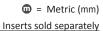












MARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

-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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* 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 Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.

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

-When using heavy metal components, 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. email: engineering.eu@alliedmachine.com

A

В

C

D

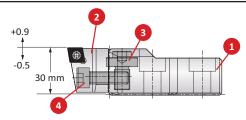
Е

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н

K

Insert Holders for Height Adjustments and Axial Grooving



Insert Form 103

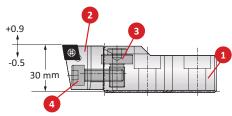
A

В

D

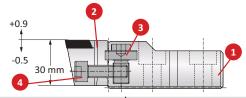
G

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



Insert Form 104

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

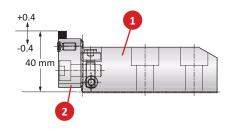


Insert Form 05

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

Insert Holder for Axial Grooving

	Insert Holder	1 Support	2 Insert Holder		
	<i>X</i> ₁	Part No.	Part No.	Weight	Insert Form
0	40.00	226014	226031	0.30 (kg)	304



B10-M



B10-G: 22-25







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.

Factory technical assistance is also available for specific applications through our Application Engineering department. email: engineering.eu@alliedmachine.com

Factory technical assistance is available for your specific applications through our Application Engineering department. email: engineering.eu@alliedmachine.com

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

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-When using Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.
-When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio.

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

-When using heavy metal components, 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.

B10-G: 14

A

В

C

D

Е

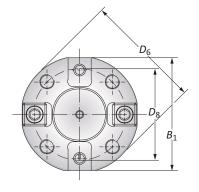
G

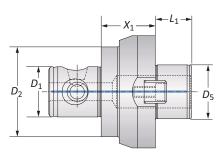
н

MVS Holding Arbors D 40 / D 60









	MVS Connection		Holding Arbor							
	$D_2 \mid D_1$	Holding Arbor Connection	<i>X</i> ₁	L ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
	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 aluminium construction only in connection with our serrated slides:

Basic D 40 Serrated Slides: Ø 200.00 mm - 520.00 mm (Page B10-G: 4).

Basic D 60 Serrated Slides: Ø 200.00 mm - 505.00 mm (Page B10-G: 5).





m = Metric (mm)

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.

Factory technical assistance is also available for specific applications through our Application Engineering department. email: engineering.eu@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).

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

-When using heavy metal components, 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. email: engineering.eu@alliedmachine.com

K

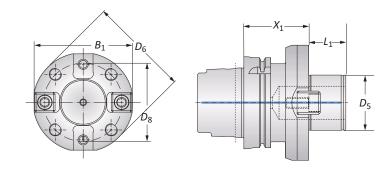
M

B10-G: 15

Master Shanks D 40 / D 60

HSK-A (DIN 69 893) Shanks





HSK-A (DIN 69 893) Shanks

Shank										
	Taper Size	Connection	<i>X</i> ₁	L ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
	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
•	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

G

A

В

D

M

B10-M: 12-13 Key on B10-G:



m = Metric (mm)

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.

Factory technical assistance is also available for specific applications through our Application Engineering department. email: engineering.eu@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 Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio. -When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio.

-When using heavy metal components, 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.

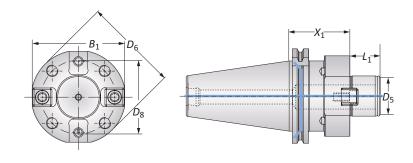
Factory technical assistance is available for your specific applications through our Application Engineering department. email: engineering.eu@alliedmachine.com

B10-G: 16

Master Shanks D 40

CAT 50 Shank with Metric Threads





CAT 50 Shanks with Metric Threads

				ſ						
	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

B10-M: 12-13



m = Metric (mm)

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

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-When using heavy metal components, 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. email: engineering.eu@alliedmachine.com

www.alliedmachine.com | +44 (0) 1384 400 900 | enquiries.eu@alliedmachine.com

В

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K

Master Shanks D 40 / D 60

A

В

C

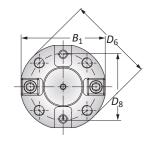
D

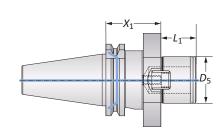
E

G

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





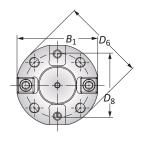


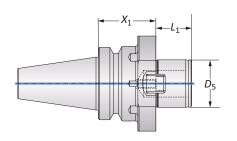
SK (DIN 69 871-AD/B) Shanks

	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	50.00	30.00	40.00	89.00	66.70	80.00	1.90 (kg)	326080*
0	50	D 40	50.00	30.00	40.00	89.00	66.70	80.00	4.10 (kg)	K42796
•	50	D 60	70.00	40.00	60.00	129.10	101.60	125.00	5.80 (kg)	326087
	50	D 60	70.00	40.00	60.00	129.10	101.60	110.00	5.50 (kg)	326088

^{*}For light machining only.







BT / JIS B 6339 Shanks

	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	50.00	30.00	40.00	89.00	66.70	80.00	1.80 (kg)	326084
0	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





metric (mm)

i 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. email: engineering.eu@alliedmachine.com

/ WARNING 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 heavy metal components, 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.

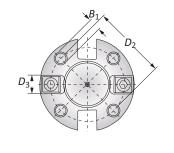
Factory technical assistance is available for your specific applications through our Application Engineering department. email: engineering.eu@alliedmachine.com

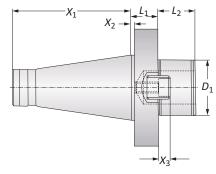
B10-G: 18

Master Shanks D 60

NMTB Shanks | DIN 2080 Shanks



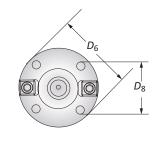


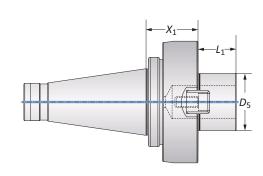


NMTB Shanks

				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	126.80	3.20	29.00	40.00	60.00	12.50	101.60	25.40	M16	8.00 (kg)	198051T004480







DIN 2080 Shanks

	Taper Size	Connection	X ₁	<i>L</i> ₁	D ₅	D ₆	D ₈	B ₁	Weight	Part No.
0	50	D 60	55.00	40.00	60.00	128.00	101.60	-	6.80 (kg)	326035





m = Metric (mm)

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

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

-When using heavy metal components, 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. email: engineering.eu@alliedmachine.com

A

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537 Accessories

537 Clamping Pieces

Clamping Pieces | Counterweight | Insert Holders for Abrasive Materials

В

A

D

Е

G

M



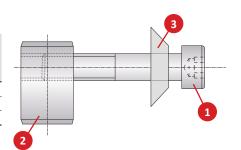


-When using Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.

- -When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio.
- -When using heavy metal components, do not exceed recommended 8xD 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. email: engineering.eu@alliedmachine.com

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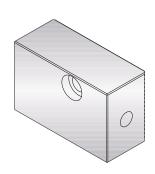
Replacement Components Complete 1 Slide Type Part No. Service Key **Clamping Nut Disk Spring Cap Screw Serrated Tool Bodies** 137026 140118 337105 215101 Basic and Eco Slides 137027 115578 s6 / B 215102 215105 337105 Flex Slides 137019 415900 215105 337105



537 Counterweight

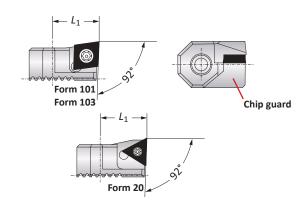
	•	
	Boring Range	Part No.
0	100.00 - 3255.00	537055

NOTE: Clamping pieces sold separately.



Insert Holders for Abrasive Materials

	Boring Range	L ₁	Weight	Insert Form	Part No.
	100.00 - 3255.00	18.00	0.03 (kg)	20	211061
(1)	100.00 - 3255.00	18.00	0.03 (kg)	101	211063
	100.00 - 3255.00	18.00	0.03 (kg)	103	211065



B10-M: 12-13



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.

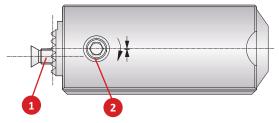
- -Refer to example on page B10-M: 11 for calculating tool assembly weight.
- Factory technical assistance is also available for specific applications through our Application Engineering department. email: engineering.eu@alliedmachine.com

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

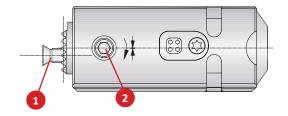
- -Do not exceed recommended 10xD length-to-diameter ratio or exceed 4 total components (including shank).
- -When using a carbide shank, do not exceed recommended 9xD length-to-diameter ratio.

537 Accessories | 3ETECH+ Accessories

Accessories



537 Analogue Cassette



537 Digital Cassette

537 Accessories

		1 Counters	sunk Screw	2 Clamping Screw			
	Cassette Part No.	Part No.	Service Key	Part No.	Service Key		
_	537051	215462	T20 / H	115249	s4 / F		
<u> </u>	537052	215462	T20 / H	315789	s4 / F		

3ETECH+ Accessories

Charging Unit Part No. 536016

NOTE: Charging unit sold separately from 3E^{TECH+}.



3FTECH Accessories (Old Display)

JL	Accessories (Old B	ispidy)
	1	2
	Sealing Ring	Battery CR2032
	Part No.	Part No.
	215483	515491

NOTE: Not required for 3E^{TECH+} (new display).







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

-When using Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio.

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-When using heavy metal components, 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. email: engineering.eu@alliedmachine.com

B10-G: 21

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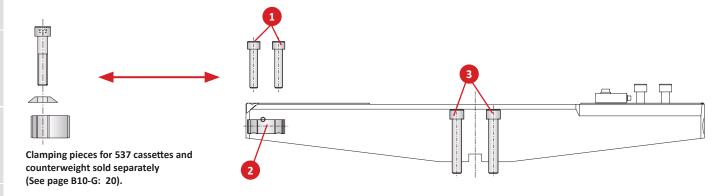
Serrated Slide Basic D 40 Accessories

Clamping Pieces

A

C

D



Clamping Pieces

		Serrated Slide	1 Cap	1 Cap Screw		3 Thread Pin		Cap Screw	
	Connection	Part No.	Part No.	Service Key	Part No.	Part No.	Service Key	Part No.	Service Key
	D 40	349021	115118	s8 / B	115669	349010	s4 / F	315186	s10 / C
m	D 40	349022	115118	s8 / B	115669	349011	s4 / F	315186	s10 / C
•	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

Н

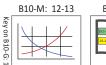
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J

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L

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

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-When using heavy metal components, 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: 22

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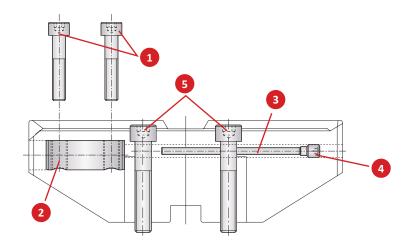
M

Serrated Slide Basic D 60 Accessories

Clamping Pieces | Cover Plates



Clamping pieces for 537 cassettes and counterweight sold separately (See page B10-G: 20).

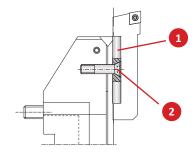


Clamping Pieces

		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	349051	115118	s8 / B	115669	141112	115196	s4 / F	115170	s14 / C
m	D 60	349052	115118	s8 / B	115669	141113	115196	s4 / F	115170	s14 / C
•	D 60	349053	115118	s8 / B	115669	141114	115196	s4 / F	115170	s14 / C
	D 60	349054	115118	s8 / B	115669	141115	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	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







m = Metric (mm)

t. 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 heavy metal components, 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: 23

Serrated Slide Eco D 60 Accessories

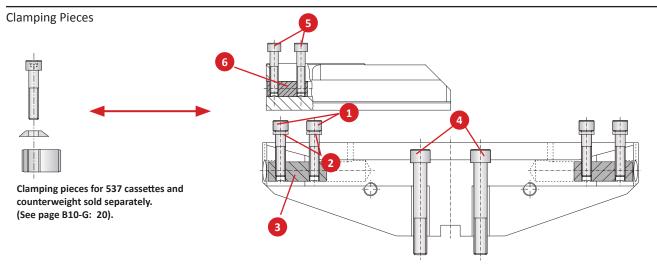
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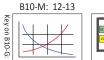


Base Slide Clamping Pieces

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

Serrated Slide Clamping Pieces

	Serrated Slide	5 Cap	Screw	6 Clamping Nut
	Part No.	Part No.	Service Key	Part No.
-	3 49014	115118	s8 / B	115669
_	349015	115118	s8 / B	115669





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

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

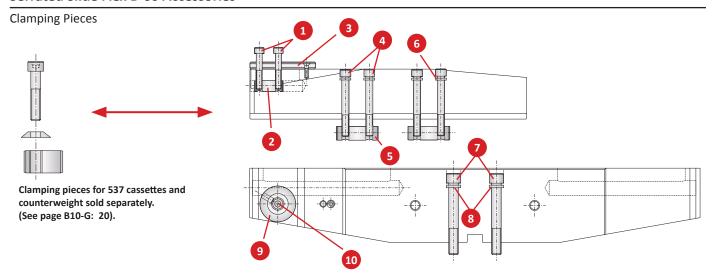
-When using a NOVITECH® module, do not exceed recommended 10xD length-to-diameter ratio.

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

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B10-G: 24

Serrated Slide Flex D 60 Accessories



Serrated Slide Clamping Pieces

	Serrated 1 Cap Screw		2 Clamping Nut	3 A	dapter	4 Сар	Screw	5 Clamping Nut	6 Disk	
	Part No.	Part No.	Service Key	Part No.	Part No.	Service Key	Part No.	Service Key	Part No.	Part No.
	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 Сар	7 Cap Screw		9 Injector	10 Counter	sunk Screw
	Connection	Part No.	Part No.	Service Key	Part No.	Part No.	Part No.	Service Key
	D 60	349031	115736	s14 / C	068168	349201	415898	s6 / B
@	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





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Guaranteed Test / Demo Application Form

Distributor PO #

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

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

Distributor Infor	mation			End User Inform	ation		
				Company Name: _			
Contact: _				Contact:			
Account Number: _				Industry: _			
Phone: _				Phone: _			
Email: _				Email: _			
Current Process	List all tooling, coatin	gs, substrates, speed	s and feeds, too	ol life, and any problems	you are expe	riencing	
Test Objective	List what would make	e this a successful tes	t (i.e. penetratio	on rate, finish, tool life,	hole size, etc.)		
Application Info	rmation						
Hole Diameter:		in/mm Tolerar	nce:		Material:		
		,				(4150, A36	, cast iron, etc.)
Pre-existing Diame	eter:	in/mm Depth	of Cut:	in/mm	Hardness:		
						(BI	HN, Rc)
Required Finish:		RMS			State:	(Casting ho	t rolled, forging)
						(Casting, no	Tronca, rorging,
Machine Inform	ation						
Machine Type:			Puildor			Model #:	
iviaciiiie rype.	(Lathe, screw machine, r		Bullder: _	(Haas, Mori Seiki, e		iviodei #:	
Shank Required:						Power:	HP/KW
	(CAT50, Morse	taper, etc.)					
Rigidity:	Orientation:	Tool Rotating:				Thrust:	lbs/N
☐ Excellent	☐ Vertical	☐ Yes					
Good	☐ Horizontal	☐ No					
☐ Poor							
Coolant Informa	ition						
Coolant Delivery:				Coolant Brassura			DCI / har
Sociality.		hrough tool, flood)		_ Coolain Flessule			1 31 / Da1
Coolant Type:				_ Coolant Volume:			GPM / LPM
	(Air mist, oil,	synthetic, water soluble	e, etc.)				·
Requested Tooli	ng						
OTY Item Numbe	er						

QTY	Item Number
QTY	Item Number

QTY	Item Number

engineering.eu@alliedmachine.com

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Warranty Information

• • • • •

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.

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