

section B10-F

Master Shanks with MVS Connection

Wohlhaupter® Master Shanks with MVS Connection

The MVS Connection

Wohlhaupter MVS connection shanks provide a high level of accuracy when building or replacing components. Our master shanks adapt to any machine tool spindle, making it easy to find the shank you need.

Applicable Industries





Agriculture







Machining



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



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

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

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

WARNING

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

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

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

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

Aerospace

Reference Icons

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



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



Clamping Elements Collet chucks for carbide shanks



Coolant-Through Option Indicates that the product is coolant through

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249 (248) Shanks



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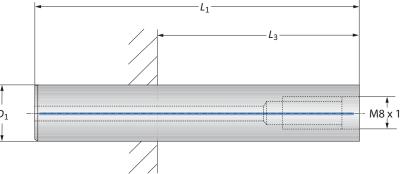
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Key on B10-A: 1



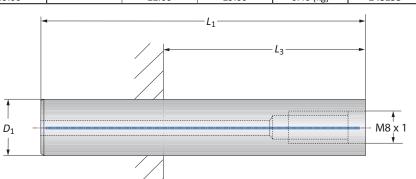


Steel Shanks

Jicc	1 Shanks								
		Shank				L _{3 min} *			
	Connection	D1	L ₁	L _{3 max*}	SK 40+50	HSK-A 63	HSK-A 100	Weight	Part No.
	M8 x 1	0.591	3.346	1.456	-	-	-	0.220 (lbs)	248136
0	M8 x 1	0.709	3.937	2.047	-	0.196	0.472	0.440 (lbs)	248137
	M8 x 1	0.906	4.606	2.716	-	0.866	1.141	0.881 (lbs)	248138
	M8 x 1	15.00	85.00	37.00	-	-	-	0.10 (kg)	248136
0	M8 x 1	18.00	100.00	52.00	-	5.00	12.00	0.20 (kg)	248137
	M8 x 1	23.00	117.00	69.00	-	22.00	29.00	0.40 (kg)	248138

*L₃ dimensions apply to collet chucks





Imperial (in)

Carbide Shanks

			Shank	1	L _{3 min*}					
	Connection	<i>D</i> ₁	L ₁	L _{3 max*}	SK 40	SK 50	HSK-A 63	HSK-A 100	Weight	Part No.
	M8 x 1	0.591	5.118	3.228	0.787	0.787	1.377	1.653	0.661 (lbs)	248142
0	M8 x 1	0.709	6.102	4.212	1.535	0.826	2.362	2.637	1.322 (lbs)	248143
U	M8 x 1	0.906	7.086	5.196	2.519	1.811	3.346	3.622	2.425 (lbs)	248144
	M8 x 1	0.906	9.527	7.637	4.960	4.251	5.787	6.062	3.086 (lbs)	248145
		-				1	,	1		•
	M8 x 1	15.00	130.00	82.00	20.00	20.00	35.00	42.00	0.30 (kg)	248142
0	M8 x 1	18.00	155.00	107.00	39.00	21.00	60.00	67.00	0.60 (kg)	248143
•	M8 x 1	23.00	180.00	132.00	64.00	46.00	85.00	92.00	1.10 (kg)	248144
	M8 x 1	23.00	242.00	194.00	126.00	108.00	147.00	154.00	1.40 (kg)	248145

*L₃ dimensions apply to collet chucks



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

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

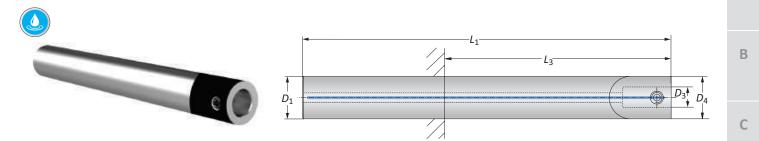
-When using a carbide shank, do not exceed recommended 9xD length-to-diameter ratio -When using a NOVITECH module, do not exceed recommended 10xD length-to-diameter ratio

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

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Carbide Master Shanks

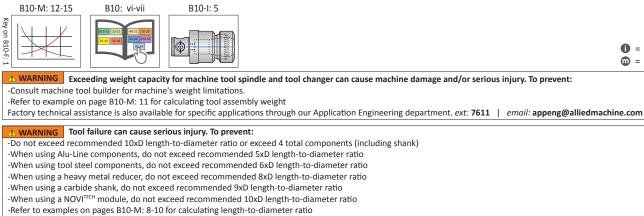


	Connection	Shank				L _{3 min}				
	D4 D3	<i>L</i> ₁	<i>D</i> ₁	L _{3 max}	SK 40	SK 50	HSK-A 63	HSK-A 100	Weight	Part No.
	18 - 11	6.102	0.709	4.213	1.535	1.024	2.362	2.638	1.102 (lbs)	299009*
	22 - 11	5.512	0.866	3.622	1.102	1.102	1.772	2.047	1.543 (lbs)	299001*
	22 - 11	7.480	0.866	5.591	2.913	2.205	3.740	4.016	1.984 (lbs)	299002*
	22 - 11	9.049	0.866	7.205	4.528	3.819	5.354	5.630	2.425 (lbs)	299003*
0	25 - 14	6.496	0.984	4.606	1.929	1.417	2.756	3.031	2.205 (lbs)	299004*
	25 - 14	8.465	0.984	6.575	3.898	3.189	4.724	5.000	2.866 (lbs)	299005*
	32 - 18	8.268	1.260	-	5.354	5.354	5.572	5.394	4.630 (lbs)	299006**
	32 - 18	10.236	1.260	-	7.323	7.323	7.441	7.362	5.732 (lbs)	299007**
	40 - 22	16.399	1.575	-	-	13.110	-	13.110	11.460 (lbs)	299008**
	10 11	455.00	10.00	107.00		26.00	60.00	67.00	0.50 (1.)	
	18 - 11	155.00	18.00	107.00	39.00	26.00	60.00	67.00	0.50 (kg)	299009*
	22 - 11	140.00	22.00	92.00	28.00	28.00	45.00	52.00	0.70 (kg)	299001*
	22 - 11	190.00	22.00	142.00	74.00	56.00	95.00	102.00	0.90 (kg)	299002*
	22 - 11	231.00	22.00	183.00	115.00	97.00	136.00	143.00	1.10 (kg)	299003*
0	25 - 14	165.00	25.00	117.00	49.00	36.00	70.00	77.00	1.00 (kg)	299004*
	25 - 14	215.00	25.00	167.00	99.00	81.00	120.00	127.00	1.30 (kg)	299005*
	32 - 18	210.00	32.00	_	136.00	136.00	139.00	137.00	2.10 (kg)	299006**
	32 - 18	260.00	32.00	_	186.00	186.00	189.00	187.00	2.60 (kg)	299007**
	40 - 22	415.00	40.00	_	_	333.00	_	333.00	5.20 (kg)	299008**

NOTE: Adapter shanks are used for extensions up to 10xD

*Recommended clamping element: collet chuck ISO 15488 (DIN 6499-B) (pg. B10-I: 5)

**Recommended clamping element: collet chuck ISO 10897 (DIN 6388) (pg. B10-I: 5)



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Imperial (in)
 Metric (mm)

HSK Master Shanks (DIN 69893)

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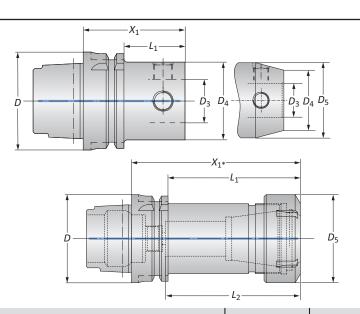
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	Taper Size	Connection		Sha	ank			
	D	D ₄ D ₃	<i>X</i> ₁	L ₁	L ₂	D5	Weight	Part No.
	40	40 - 22	2.205	-	-	-	0.881 (lbs)	246016
	40	50 - 28	2.756	-	-	-	1.543 (lbs)	246004
	50	40 - 22	2.205	1.181	-	-	1.322 (lbs)	246015
	50	50 - 28	2.559	-	-	-	1.763 (lbs)	245011
	63	25 - 14	1.811	0.787	-	-	1.543 (lbs)	246012
	63	32 - 18	2.205	1.181	-	-	1.763 (lbs)	246013
	63	40 - 22	2.205	1.181	-	-	1.764 (lbs)	246014
	63	50 - 28	2.559	1.535	-	-	2.425 (lbs)	245012
	63	63 - 36	3.150	-	-	-	3.306 (lbs)	245013
	63	80 - 36	3.150	-	-	-	4.629 (lbs)	246009
	63	ER 40	4.724	3.700	3.740	2.480	3.747 (lbs)	252090**
0	100	50 - 28	2.559	1.417	-	-	5.291 (lbs)	245014
	100	50 - 28	7.087	5.944	-	2.362	11.020 (lbs)	246020
	100	50 - 28*	7.087	5.944	-	-	6.393 (lbs)	246021
	100	63 - 36	3.150	2.007	-	-	6.393 (lbs)	245015
	100	63 - 36	8.071	6.929	-	3.070	17.190 (lbs)	246019
	100	63 - 36	8.071	6.929	-	-	17.190 (lbs)	246022
	100	80 - 36	3.150	2.007	-	-	8.157 (lbs)	245016
	100	80 - 36	10.03	8.897	-	3.543	27.770 (lbs)	246018
	100	80 - 36	10.03	8.897	-	-	22.920 (lbs)	246023
	100	100 - 56	3.937	-	-	-	11.020 (lbs)	246010
	100	100 - 56	11.810	8.700	-	-	38.580 (lbs)	246017
	100	ER 40	4.724	3.582	3.464	2.480	7.716 (lbs)	252091**

NOTE: Balanced refers to a specific residual imbalance of ≤4.00 gmm/kg

***D**₄ = 49.50

Key on B10-F:

**Balanced without clamping nut

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54 221 622 535 54 228 665		

Imperial (in) E Metric (mm)

KWARNING 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

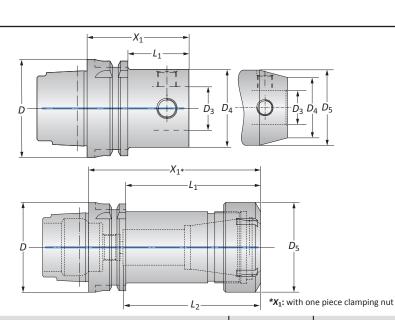
-When using a heavy metal reducer, do not exceed recommended 8xD length-to-diameter ratio

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

HSK Master Shanks (DIN 69893)





	Taper Size	Connection		Sha	ank			
	D	D ₄ D ₃	<i>X</i> ₁	L ₁	L ₂	D5	Weight	Part No.
	40	40 - 22	56.00	-	-	-	0.40 (kg)	246016
	40	50 - 28	70.00	-	-	-	0.70 (kg)	246004
	50	40 - 22	56.00	30.00	-	-	0.60 (kg)	246015
	50	50 - 28	65.00	-	-	-	0.80 (kg)	245011
	63	25 - 14	46.00	20.00	-	-	0.70 (kg)	246012
	63	32 - 18	56.00	30.00	-	-	0.80 (kg)	246013
	63	40 - 22	56.00	30.00	-	-	0.80 (kg)	246014
8	63	50 - 28	65.00	39.00	-	-	1.10 (kg)	245012
	63	63 - 36	80.00	-	-	-	1.50 (kg)	245013
	63	80 - 36	80.00	-	-	-	2.10 (kg)	246009
	63	ER 40	120.00	94.00	95.00	63.00	1.70 (kg)	252090**
	100	50 - 28	65.00	36.00	-	-	2.40 (kg)	245014
	100	50 - 28	180.00	151.00	-	60.00	5.00 (kg)	246020
	100	50 - 28*	180.00	151.00	-	-	4.00 (kg)	246021
	100	63 - 36	80.00	51.00	-	-	2.90 (kg)	245015
	100	63 - 36	205.00	176.00	-	78.00	7.80 (kg)	246019
	100	63 - 36	205.00	176.00	-	-	7.80 (kg)	246022
	100	80 - 36	80.00	51.00	-	-	3.70 (kg)	245016
	100	80 - 36	255.00	226.00	-	90.00	12.60 (kg)	246018
	100	80 - 36	255.00	226.00	-	-	10.40 (kg)	246023
	100	100 - 56	100.00	_	-	-	5.00 (kg)	246010
	100	100 - 56	300.00	221.00	_	_	17.50 (kg)	246017
	100	ER 40	120.00	91.00	88.00	63.00	3.50 (kg)	252091**

NOTE: Balanced refers to a specific residual imbalance of ≤4.00 gmm/kg

***D**₄ = 49.50mm

**Balanced without clamping nut

B10-M: 12-15	B10: VI-VII
Key on B1	105-22 22-11 40-22 50-28 25-14 22-32 63-36 100.56 50-06

Y ON BLO-F: 1	 Imperial (in) 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 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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Polygon Shaft Master Shanks (PSC) (ISO 26623-1)



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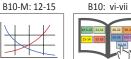
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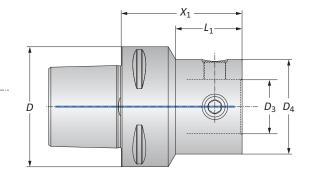
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PSC		Connection	Shank			
	D	D4 D3	<i>X</i> ₁	L ₁	Weight	Part No.
	50	40 - 22	2.126	1.224	1.543 (lbs)	227014
	50	50 - 28	2.559	-	2.205 (lbs)	227001
	50	63 - 36	3.150	-	3.307 (lbs)	227002
	50	80 - 36	3.150	-	5.512 (lbs)	227012
	63	25 - 14	2.126	0.838	1.984 (lbs)	227010
	63	32 - 18	2.126	0.917	2.205 (lbs)	227009
0	63	40 - 22	2.559	1.433	2.425 (lbs)	227008
	63	50 - 28	2.559	1.555	2.866 (lbs)	227003
	63	63 - 36	3.150	-	3.968 (lbs)	227004
	63	80 - 36	3.150	-	5.732 (lbs)	227005
	80	50 - 28	2.559	1.047	4.850 (lbs)	227011
	80	63 - 36	3.150	1.783	5.732 (lbs)	227006
	80	80 - 36	3.150	-	7.275 (lbs)	227007
	50	40 - 22	54.00	31.10	0.70 (kg)	227014
	50	50 - 28	65.00	_	1.00 (kg)	227001
	50	63 - 36	80.00	_	1.50 (kg)	227002
	50	80 - 36	80.00	-	2.50 (kg)	227012
	63	25 - 14	54.00	21.10	0.90 (kg)	227010
	63	32 - 18	54.00	23.00	1.00 (kg)	227009
0	63	40 - 22	65.00	36.40	1.10 (kg)	227008
•	63	50 - 28	65.00	39.00	1.30 (kg)	227003
	63	63 - 36	80.00	-	1.80 (kg)	227004
	63	80 - 36	80.00	-	2.60 (kg)	227005
	80	50 - 28	65.00	25.00	2.20 (kg)	227011
	80	63 - 36	80.00	45.10	2.60 (kg)	227006
	80	80 - 36	80.00	-	3.30 (kg)	227007

NOTE: Balanced refers to a specific residual imbalance of ≤4.00 gmm/kg

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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

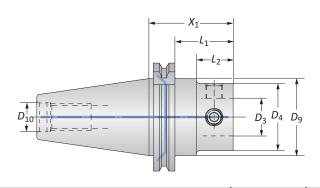
-Refer to examples on pages B10-M: 8-10 for calculating length-to-diameter ratio

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Imperial (in) m = Metric (mm)

Dual Contact CAT Master Shanks with Imperial Threads





		Connection			Shank				
	Taper Size	D ₄ D ₃	<i>X</i> ₁	L ₁	L ₂	D ₉	D ₁₀	Weight	Part No.
	40	50 - 28	2.440	1.688	1.062	1.752	5∕8 - 11	2.866 (lbs)	353062
	40	50 - 28	5.394	4.642	4.016	1.752	5∕8 - 11	5.292 (lbs)	353076
	40	63 - 36	3.228	2.440	1.850	1.752	⁵⁄8 - 11	3.968 (lbs)	353063
	50	50 - 28	2.440	1.689	1.062	2.752	1 - 8	7.275 (lbs)	353061
	50	50 - 28*	7.953	7.201	6.575	2.752	1 - 8	11.687 (lbs)	353077
0	50	63 - 36	2.835	2.083	1.457	2.752	1 - 8	7.938 (lbs)	353078
	50	63 - 36	8.740	7.988	7.362	2.752	1 - 8	15.656 (lbs)	353079
	50	80 - 36	2.834	2.082	1.456	2.752	1 - 8	9.039 (lbs)	353060
	50	80 - 36	10.709	9.957	9.331	2.752	1 - 8	26.240 (lbs)	353080
	50	100 - 56	4.134	3.382	2.756	2.752	1 - 8	13.230 (lbs)	353081
	50	100 - 56	12.008	11.256	10.630	2.752	1 - 8	39.470 (lbs)	353082
	40	50 - 28	62.00	42.90	27.00	44.50	5/ 44	1.20 (1/m)	353062
	40	50 - 28	137.00	117.90	102.00	44.50	5⁄8 - 11 5∕8 - 11	1.30 (kg) 2.40 (kg)	353062
	40	63 - 36	82.00	62.90	47.00	44.50		1.80 (kg)	353063
	50	50 - 28	62.00	42.90	27.00	69.90	5% - 11 1 - 8	3.30 (kg)	353063
	50	50 - 28*	202.00	182.90	167.00	69.90	1-8	5.30 (kg)	353077
•	50	63 - 36	72.00	52.90	37.00	69.90	1-8	3.60 (kg)	353078
•	50	63 - 36	222.00	202.90	187.00	69.90	1-8	7.10 (kg)	353078
	50	80 - 36	72.00	52.90	37.00	69.90	1-8	4.10 (kg)	353060
	50	80 - 36	272.00	252.90	237.00	69.90	1-8	11.90 (kg)	353080
	50	100 - 56	105.00	85.90	70.00	69.90	1-8	6.00 (kg)	353080
	50	100 - 56	305.00	285.90	270.00	69.90	1-8	17.90 (kg)	353081

***D**₄ = 49.50

B10-M: 12-15



Key on B10-F: 1 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 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 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

Imperial (in) m = Metric (mm)

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CAT Master Shanks with Imperial Threads

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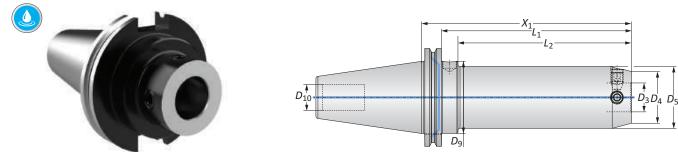
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		Connection			Sh	ank				
	Taper Size	$D_4 \mid D_3$	<i>X</i> 1	<i>L</i> ₁	L ₂	D5	D ₉	D ₁₀	Weight	Part No.
	30	40 - 22	2.362	1.612	_	-	-	1⁄2 - 13	1.322 (lbs)	353001
	30	50 - 28	2.756	2.006	-	-	-	1⁄2 - 13	1.763 (lbs)	353002
	40	25 - 14	2.165	1.415	0.787	-	1.750	5⁄8 - 11	2.204 (lbs)	353011
	40	25 - 14	5.551	4.800	4.173	1.102	1.750	5⁄8 - 11	3.306 (lbs)	353012
	40	32 - 18	2.559	1.809	1.181	-	1.750	5⁄8 - 11	2.425 (lbs)	353013
	40	32 - 18	6.732	5.982	5.354	1.378	1.750	5∕8 - 11	4.188 (lbs)	353014
	40	40 - 22	2.165	1.415	0.787	-	1.750	5⁄8 - 11	2.491 (lbs)	353003
	40	40 - 22	6.378	5.628	-	1.850	1.750	5⁄8 - 11	5.511 (lbs)	353015
	40	50 - 28	2.441	1.691	-	-	1.750	5∕8 - 11	2.821 (lbs)	353004
	40	50 - 28	5.394	4.644	-	-	1.750	5⁄8 - 11	5.291 (lbs)	353016
	40	63 - 36	3.228	2.478	-	-	1.750	5⁄8 - 11	4.034 (lbs)	353005
	40	63 - 36	6.181	5.431	-	-	1.750	5⁄8 - 11	7.936 (lbs)	353017
0	50	40 - 22	2.165	1.415	0.787	-	2.750	1 - 8	7.297 (lbs)	353006
	50	40 - 22	6.378	5.628	5.000	1.850	2.750	1 - 8	9.920 (lbs)	353018
	50	50 - 28	2.441	1.691	1.063	-	2.750	1 - 8	7.583 (lbs)	353007
	50	50 - 28*	7.953	7.203	6.575	-	2.750	1 - 8	11.680 (lbs)	353025
	50	50 - 28	7.953	7.203	6.575	2.362	2.750	1 - 8	14.100 (lbs)	353019
	50	63 - 36	2.835	2.085	1.457	-	2.750	1 - 8	8.223 (lbs)	353008
	50	63 - 36	8.740	7.990	7.362	-	2.750	1 - 8	15.650 (lbs)	353023
	50	63 - 36	8.740	7.990	-	3.071	2.750	1 - 8	20.500 (lbs)	353020
	50	80 - 36	2.835	2.085	-	-	2.750	1 - 8	9.413 (lbs)	353009
	50	80 - 36	10.709	9.959	-	-	2.750	1 - 8	26.230 (lbs)	353024
	50	80 - 36	10.709	9.959	-	3.543	2.750	1 - 8	31.300 (lbs)	353021
	50	100 - 56	4.134	3.384	-	-	2.750	1 - 8	13.600 (lbs)	353010
	50	100 - 56	12.008	11.258	_	-	2.750	1 - 8	39.460 (lbs)	353022

***D**₄ = 49.50

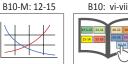
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Key on B10-F: :

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

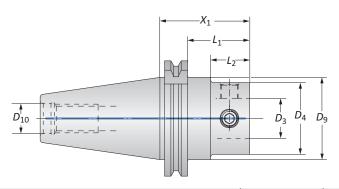
-Refer to examples on pages B10-M: 8-10 for calculating length-to-diameter ratio

CAT Master Shanks with Metric Threads



B10-M: 12-15

B10: vi-vii



		Connection							
	Taper Size	D4 D3	<i>X</i> 1	L ₁	L ₂	D ₉	D ₁₀	Weight	Part No.
	40	50 - 28	62.00	42.90	-	44.45	M16 x 2	1.30 (kg)	132022T016960
	40	63 - 36	82.00	62.90	-	44.45	M16 x 2	1.80 (kg)	132066T016960
0	50	50 - 28	62.00	42.90	27.00	69.85	M24 x 3	3.40 (kg)	132022T016962
W	50	63 - 36	72.00	52.90	37.00	69.85	M24 x 3	3.70 (kg)	132066T016962
	50	80 - 36	72.00	52.90	-	69.85	M24 x 3	4.20 (kg)	132088T016962
	50	100 - 56	105.00	85.90	-	69.85	M24 x 3	5.20 (kg)	132076T016962



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Key on B10-F: 1 Imperial (in) m = Metric (mm) L 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 A WARNING Tool failure can cause serious injury. To prevent: Μ -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 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 INDEX Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

Dual Contact SK Master Shanks (DIN 69871-AD / B-D)



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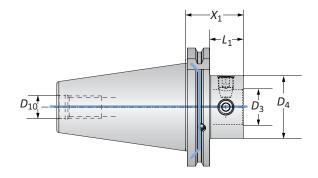
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		Connection		Shank			
	Taper Size	D ₄ D ₃	<i>X</i> ₁	L ₁	D ₁₀	Weight	Part No.
	40	50 - 28	1.811	1.059	M16 x 2	2.426 (lbs)	353064
	40	63 - 36	2.598	1.846	M16 x 2	6.395 (lbs)	353065
0	50	50 - 28	1.811	1.059	M24 x 3	6.395 (lbs)	353066
U	50	63 - 36	2.205	1.453	M24 x 3	7.056 (lbs)	353067
	50	80 - 36	2.205	1.453	M24 x 3	8.159 (lbs)	353068
	50	100 - 56	3.543	2.791	M24 x 3	11.687 (lbs)	353069
							l .
	40	50 - 28	46.00	26.90	M16 x 2	1.10 (kg)	353064
	40	63 - 36	66.00	46.90	M16 x 2	1.50 (kg)	353065
0	50	50 - 28	46.00	26.90	M24 x 3	2.90 (kg)	353066
W	50	63 - 36	56.00	36.90	M24 x 3	3.20 (kg)	353067
	50	80 - 36	56.00	36.90	M24 x 3	3.70 (kg)	353068
	50	100 - 56	90.00	70.90	M24 x 3	5.30 (kg)	353069





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

 /. 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 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

SK Master Shanks (DIN 69871-AD / B-D)

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	inel.	Connection	-	L2		X₁: with one piece c	lamping nut			C
	Towarding	Connection	×	,	Shank			Maisha	Dout No.	
	Taper Size 30	D ₄ D ₃ 40 - 22	1.811	L ₁	L ₂	D ₅	D ₁₀ M12 x 1.75	Weight 1.103 (lbs)	Part No. 327001	
ł	30	50 - 28	2.283	1.039			M12 x 1.75	1.103 (lbs)	327001	
┟	40	32 - 18	2.165	1.413	_	1.575	M16 x 2	2.426 (lbs)	327003	
ŀ	40	40 - 22	1.811	1.059	_	-	M16 x 2	2.205 (lbs)	327004	
ŀ	40	50 - 28	1.811	1.059	-	-	M16 x 2	2.426 (lbs)	327005	
	40	63 - 36	2.598	1.846	-	-	M16 x 2	3.087 (lbs)	327006	
	40	80 - 36	2.598	1.846	-	-	M16 x 2	4.190 (lbs)	327007	
	40	ER 40	3.149	2.397	4.566	2.480	M16 x 2	2.860 (lbs)	259079**	
	50	50 - 28	1.811	1.059	-	_	M24 x 3	6.395 (lbs)	327017	
	50	50 - 28	7.323	6.571	-	2.362	M24 x 3	13.230 (lbs)	327025	
	50	50 - 28*	7.323	6.571	-	-	M24 x 3	10.805 (lbs)	327033	
	50	63 - 36	2.205	1.453	-	-	M24 x 3	7.056 (lbs)	327018	
	50	63 - 36	8.110	7.358	-	3.071	M24 x 3	19.625 (lbs)	327026	
+	50	63 - 36	8.110	7.358	-	-	M24 x 3	15.215 (lbs)	327034	
+	50	80 - 36	2.205	1.453	-	-	M24 x 3	8.159 (lbs)	327010	
╞	50	80 - 36	10.079	9.327	-	3.543	M24 x 3	29.988 (lbs)	327027	
╞	50	100 - 56	3.543	2.791	-	-	M24 x 3	11.687 (lbs)	327011	(
┢	50 50	100 - 56	11.417	10.665	- E 27E	2.480	M24 x 3	37.706 (lbs)	327028 259080**	
	50	ER 40	3.149	2.173	5.275	2.480	M24 x 3	6.834 (lbs)	259080**	
	30	40 - 22	46.00	26.90	-	-	M12 x 1.75	0.50 (kg)	327001	
	30	50 - 28	58.00	38.90	-	-	M12 x 1.75	0.80 (kg)	327002	ŀ
	40	32 - 18	55.00	35.90	-	40.00	M16 x 2	1.10 (kg)	327003	
+	40	40 - 22	46.00	26.90	-	-	M16 x 2	1.00 (kg)	327004	
+	40	50 - 28	46.00	26.90	-	-	M16 x 2	1.10 (kg)	327005	
╞	40	63 - 36	66.00	46.90	-	-	M16 x 2	1.40 (kg)	327006	
╞	40	80 - 36	66.00	46.90	-	-	M16 x 2	1.90 (kg)	327007	
╞	40 50	ER 40 50 - 28	80.00 46.00	60.90 26.90	116.00	63.00	M16 x 2 M24 x 3	1.30 (kg)	259079** 327017	
)	50	50 - 28	186.00	166.90	_	60.00	M24 x 3	2.90 (kg) 6.00 (kg)	327025	
	50	50 - 28*	186.00	166.90			M24 x 3	4.90 (kg)	327033	
ŀ	50	63 - 36	56.00	36.90	_	_	M24 x 3	3.20 (kg)	327033	
ŀ	50	63 - 36	206.00	186.90	_	78.00	M24 x 3	8.90 (kg)	327026	
ł	50	63 - 36	206.00	186.90	_	_	M24 x 3	6.90 (kg)	327034	
ľ	50	80 - 36	56.00	36.90	_	-	M24 x 3	3.70 (kg)	327010	
ľ	50	80 - 36	256.00	236.90	-	90.00	M24 x 3	13.60 (kg)	327027	
	50	100 - 56	90.00	70.90	-	-	M24 x 3	5.30 (kg)	327011	
	50	100 - 56	290.00	270.90	-	-	M24 x 3	17.10 (kg)	327028	
	50	ER 40	80.00	55.20	134.00	63.00	M24 x 3	3.10 (kg)	259080**	
D ₄ : Ba V Con Refe	= (49.50 mm) lanced without cla VARNING Exceedin isult machine tool bu er to example on page	to a specific residual mping nut g weight capacity for r ilder for machine's wei e B10-M: 11 for calcula ice is also available for	nachine tool spind ght limitations. ating tool assembly	le and tool changer		•			 Imperial (in) Metric (mm) e.com 	
<mark>i N</mark> Do r Whe	ARNING Tool failu not exceed recommen en using Alu-Line com en using tool steel com	re can cause serious in nded 10xD length-to-di nponents, do not excee mponents, do not exce al reducer, do not exce	jury. To prevent: iameter ratio or exc ed recommended 5 ed recommended 6	eed 4 total compor kD length-to-diame 5xD length-to-diame	nents (including sha ter ratio eter ratio					I

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

-When using a AOVI^{TECH} module, do not exceed recommended IOXD length-to-diameter ratio -Refer to examples on pages BI0-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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Dual Contact BT Master Shanks (JIS B 6339)



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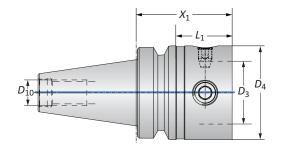
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		Connection		Shank			
	Taper Size	D ₄ D ₃	<i>X</i> ₁	L ₁	D ₁₀	Weight	Part No.
	40	50 - 28	2.126	1.063	M16 x 2	2.646 (lbs)	353070
	40	63 - 36	2.520	1.457	M16 x 2	3.308 (lbs)	353071
0	50	50 - 28	2.559	1.055	M24 x 3	8.820 (lbs)	353072
U	50	63 - 36	2.953	1.449	M24 x 3	9.261 (lbs)	353073
	50	80 - 36	2.953	1.449	M24 x 3	10.584 (lbs)	353074
	50	100 - 56	3.543	2.039	M24 x 3	12.128 (lbs)	353075
	1			1		1	
	40	50 - 28	54.00	27.00	M16 x 2	1.20 (kg)	353070
	40	63 - 36	64.00	37.00	M16 x 2	1.50 (kg)	353071
0	50	50 - 28	65.00	26.80	M24 x 3	4.00 (kg)	353072
W	50	63 - 36	75.00	36.80	M24 x 3	4.20 (kg)	353073
	50	80 - 36	75.00	36.80	M24 x 3	4.80 (kg)	353074
	50	100 - 56	90.00	51.80	M24 x 3	5.50 (kg)	353075





Imperial (in)
Metric (mm)

 Marking
 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

 Marking
 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 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 Cablice shall, do not exceed recommended 3xD length-to-diameter ratio

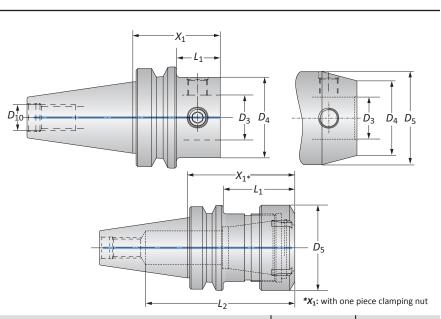
-Refer to examples on pages B10-M: 8-10 for calculating length-to-diameter ratio

BT Master Shanks (JIS B 6339)



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		Connection			Shank				
	Taper Size	D ₄ D ₃	<i>X</i> 1	<i>L</i> ₁	L ₂	D ₅	D ₁₀	Weight	Part No.
	30	40 - 22	1.575	0.710	-	_	M12 x 1.75	1.102 (lbs)	327012
	30	50 - 28	1.811	0.945	-	-	M12 x 1.75	1.323 (lbs)	327013
	40	40 - 22	1.811	0.750	-	-	M16 x 2	2.425 (lbs)	327016
	40	50 - 28	2.126	1.060	-	-	M16 x 2	2.646 (lbs)	327019
	40	63 - 36	2.520	1.457	-	-	M16 x 2	3.307 (lbs)	327020
0	40	ER 40	2.755	1.692	4.094	2.480	M16 x 2	2.645 (lbs)	259081*
	50	50 - 28	2.559	1.060	-	-	M24 x 3	8.599 (lbs)	327021
	50	63 - 36	2.953	1.450	-	-	M24 x 3	9.261 (lbs)	327022
	50	80 - 36	2.953	1.450	-	-	M24 x 3	10.363 (lbs)	327023
	50	100 - 56	3.543	2.039	-	-	M24 x 3	12.127 (lbs)	327024
	50	ER 40	3.149	1.645	5.314	2.480	M24 x 3	8.377 (lbs)	259082*
_	30	40 - 22	40.00	18.00	_	-	M12 x 1.75	0.50 (kg)	327012
	30	50 - 28	46.00	24.00	_	_	M12 x 1.75	0.60 (kg)	327013
	40	40 - 22	46.00	19.00	_	_	M12 x 1.75	1.10 (kg)	327016
	40	50 - 28	54.00	27.00	_	_	M16 x 2	1.20 (kg)	327019
	40	63 - 36	64.00	37.00	_	_	M16 x 2	1.50 (kg)	327020
0	40	ER 40	70.00	43.00	104.00	63.00	M16 x 2	1.20 (kg)	259081*
	50	50 - 28	65.00	26.80	-	-	M24 x 3	3.90 (kg)	327021
	50	63 - 36	75.00	36.80	_	_	M24 x 3	4.20 (kg)	327022
	50	80 - 36	75.00	36.80	_	_	M24 x 3	4.70 (kg)	327023
	50	100 - 56	90.00	51.80	_	_	M24 x 3	5.50 (kg)	327024
	50	ER 40	80.00	41.80	135.00	63.00	M24 x 3	3.80 (kg)	259082*

NOTE: Balanced refers to a specific residual imbalance of ≤4.00 gmm/kg

*Balanced without clamping nut

B10-IVI: 12-15	BIO: AI-AII
Key on B10-F: 1	1000 1001 1000 1000 1000 1000 1000 1000 1000

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

A 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 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 Carolac shark, ao not exceed recommended 9xD 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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NMTB Master Shanks

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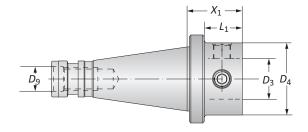
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		Connection		Shank			
	Taper Size	D4 D3	<i>X</i> ₁	L ₁	D ₉	Weight	Part No.
	40	50 - 28	1.496	1.039	⁵⁄8 - 11	2.900 (lbs)	132022T004498
	40	63 - 36	1.890	1.433	5∕8 - 11	3.300 (lbs)	132066T004498
0	50	50 - 28	1.654	1.060	1 - 8	6.600 (lbs)	132022T004480
U	50	63 - 36	2.047	1.450	1 - 8	7.700 (lbs)	132066T004480
	50	80 - 36	2.047	1.450	1 - 8	8.800 (lbs)	132088T004480
	50	100 - 56	3.543	2.945	1 - 8	10.800 (lbs)	132076T004480
	40	50.20	20.00	26.40	5/	1.20 (1)	4220227004400
	40	50 - 28	38.00	26.40	5⁄8 - 11	1.30 (kg)	132022T004498
	40	63 - 36	48.00	36.40	⁵⁄8 - 11	1.50 (kg)	132066T004498
0	50	50 - 28	42.00	26.80	1 - 8	3.00 (kg)	132022T004480
•	50	63 - 36	52.00	36.80	1 - 8	3.50 (kg)	132066T004480
	50	80 - 36	52.00	36.80	1 - 8	4.00 (kg)	132088T004480
	50	100 - 56	90.00	74.80	1 - 8	4.90 (kg)	132076T004480





Imperial (in) m = Metric (mm)

K 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 A 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 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

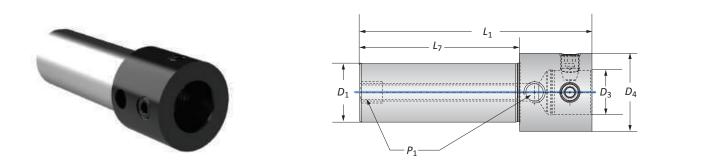
Factory technical assistance is available for your specific applications through our Application Engineering department. ext: 7611 | email: appeng@alliedmachine.com

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Imperial Straight Master Shanks



	Connection Shank						
	D ₄ D ₃	L ₇	<i>D</i> ₁	Ρ ₁	<i>L</i> ₁	Weight	Part No.
	40 - 22	3-1/2	1-1⁄4	1/8-27 NPTF	5.080	1.764 (lbs)	K71547
•	50 - 28	4	1-1/2	1/4-18 NPTF	5.810	3.086 (lbs)	K71548
U	63 - 36	4-1/2	2	1/4-18 NPTF	6.700	5.952 (lbs)	K71549
	80 - 36	4-1/2	2	1/4-18 NPTF	6.700	7.716 (lbs)	K71550

Key on B10-F



Imperial (in) m = Metric (mm) L 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: Μ -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 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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B10-F: 15

DIN 2080 Master Shanks

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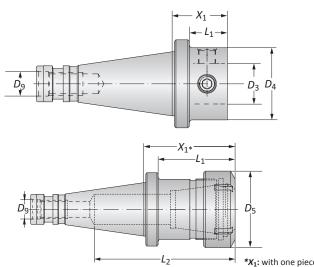
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 $*X_1$: with one piece clamping nut

		Connection			Shank				
	Taper Size	D ₄ D ₃	<i>X</i> ₁	L ₁	L ₂	D ₅	D 9	Weight	Part No.
	40	50 - 28	1.496	1.039	-	-	M16 x 2	2.866 (lbs)	132022T010229
	40	63 - 36	1.889	1.433	-	-	M16 x 2	3.306 (lbs)	132066T010229
	50	50 - 28	1.653	1.055	-	-	M24 x 3	6.613 (lbs)	132022T003704
0	50	63 - 36	2.047	1.448	-	-	M24 x 3	7.716 (lbs)	132066T003704
	50	80 - 36	2.047	1.448	-	-	M24 x 3	8.818 (lbs)	132088T003704
	50	100 - 56	3.543	2.945	-	-	M24 x 3	10.800 (lbs)	132076T003704
	50	ER 40	3.149	2.551	5.276	2.480	M24 x 3	7.275 (lbs)	259084
				[
	40	50 - 28	38.00	26.40	-	-	M16 x 2	1.30 (kg)	132022T010229
	40	63 - 36	48.00	36.40	-	-	M16 x 2	1.50 (kg)	132066T010229
	50	50 - 28	42.00	26.80	-	-	M24 x 3	3.00 (kg)	132022T003704
0	50	63 - 36	52.00	36.80	-	-	M24 x 3	3.50 (kg)	132066T003704
	50	80 - 36	52.00	36.80	-	-	M24 x 3	4.00 (kg)	132088T003704
	50	100 - 56	90.00	74.80	-	-	M24 x 3	4.90 (kg)	132076T003704
	50	ER 40	80.00	64.80	134.00	63.00	M24 x 3	3.30 (kg)	259084

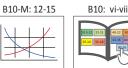


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Key on B10-F:



Imperial (in) m = Metric (mm)

K 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

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

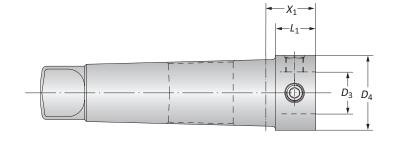
-When using a carbide shank, do not exceed recommended 9xD length-to-diameter ratio

-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

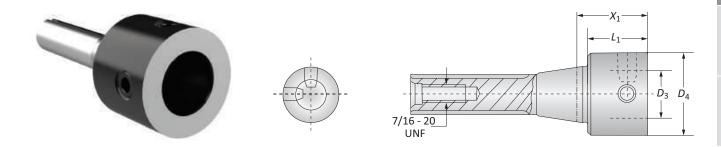
DIN 1806 Morse Taper Master Shanks | R8 Master Shanks





DIN 1806 Master Shanks

		Connection	Shank			
	Morse Taper Size	D ₄ D ₃	<i>X</i> ₁	L ₁	Weight	Part No.
	4	50 - 28	1.693	1.440	2.425 (lbs)	132022T003590
0	5	50 - 28	1.299	1.050	3.968 (lbs)	132022T003920
	5	63 - 36	2.087	1.840	4.850 (lbs)	132066T003920
	1					
	4	50 - 28	43.00	36.50	1.10 (kg)	132022T003590
0	5	50 - 28	33.00	26.70	1.80 (kg)	132022T003920
	5	63 - 36	53.00	46.70	2.20 (kg)	132066T003920



R8 Master Shanks

	Connection	Shank			
	D ₄ D ₃	X ₁	L ₁	Weight	Part No.
	50 - 28	1.770	1.417	2.204 (lbs)	132022T007166
	63 - 36	2.362	2.008	2.866 (lbs)	132066T007166
			r	Γ	r
0	50 - 28	45.00	36.00	1.00 (kg)	132022T007166
Ψ	63 - 36	60.00	51.00	1.30 (kg)	132066T007166

10-M: 12-15 B10: vi-vii
E Imperial (
ARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:
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en using a carbide shank, do not exceed recommended 9xD length-to-diameter ratio
en using a NOVI ^{TECH} module, do not exceed recommended 10xD length-to-diameter ratio
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-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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Accessories

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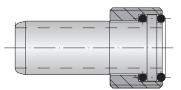
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Coolant Adapter Sets | Service Keys | ISO 15488 (DIN 6499-B) Collet Chuck Accessories

Coolant Adapter Sets

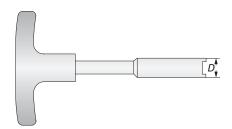
HSK Shank Size	Thread	Part No.
32	M10 x 1.5 x 1.0	262002
40	M12 x 1.75 x 1.0	262003
50	M16 x 2 x 1.0	262004
63	M18 x 2.5 x 1.0	262005
80	M20 x 2.5 x 1.5	262006
100	M24 x 3 x 1.5	262007

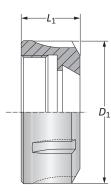


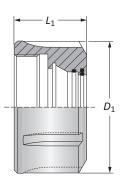
Service Keys

*Two piece

HSK Shank Size	D	Part No.
32	8.50	315234
40	10.50	315235
50	14.50	215726
63	16.50	215727*
80	18.00	415127
100	22.00	215728







Imperial (in) Image: metric (mm)

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ISO 15488 (DIN 6499-B) One Piece Clamping Nut

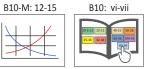
	Clamping Nut		
Nominal Size	L ₁	<i>D</i> ₁	Part No.
ER 40	1.004	2.480	215926
ER 40	25.50	63.00	215926
	ER 40	Nominal Size L1 ER 40 1.004	Nominal Size L1 D1 ER 40 1.004 2.480

ISO 15488 (DIN 6499-B) Sealing Disk Clamping Nut

		Sealing Disk Clamping Nut		
	Nominal Size	L ₁	<i>D</i> ₁	Part No.
0	ER 40	1.339	2.480	278001
0	ER 40	34.00	63.00	278001

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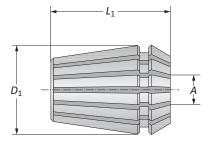
Key on B10-F: 1

Accessories

ISO 15488 (DIN 6499-B) Collet Chuck Accessories

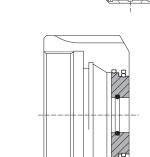
ISO 15488 (DIN6499-B) Collets

Clamping Range		Collet		
	А	L ₁	<i>D</i> ₁	Part No.
	0.591 - 0.551	1.811	1.575	071790
0	0.709 - 0.669	1.811	1.575	071793
U	0.787 - 0.748	1.811	1.575	071795
	0.906 - 0.866	1.811	1.575	071798
	15.00 - 14.00	46.00	40.00	071790
0	18.00 - 17.00	46.00	40.00	071793
W	20.00 - 19.00	46.00	40.00	071795
	23.00 - 22.00	46.00	40.00	071798



ISO 15488 (DIN 6499-B) Service Keys

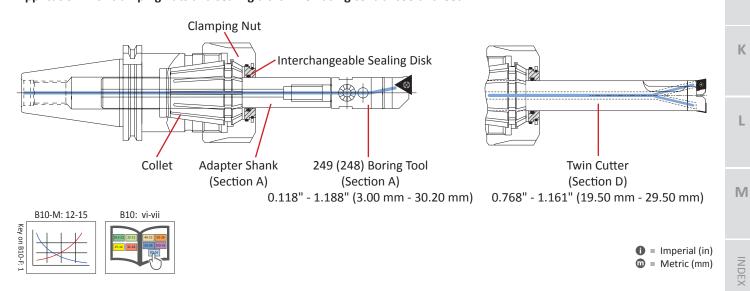
		Service Key	
	Nominal Size	D	Part No.
0	ER 40	63.00	215931



ISO 15488 (DIN 6499-B) Sealing Disks

	Clamping Range	Part No.
	0.591 - 0.551	278029
0	0.709 - 0.669	278035
U	0.787 - 0.748	278039
	0.906 - 0.866	278045
	15.00 - 14.50	278029
0	18.00 - 17.50	278035
W	20.00 - 19.50	278039
	23.00 - 22.50	278045

Application with clamping nuts and sealing disks when using central coolant feed:



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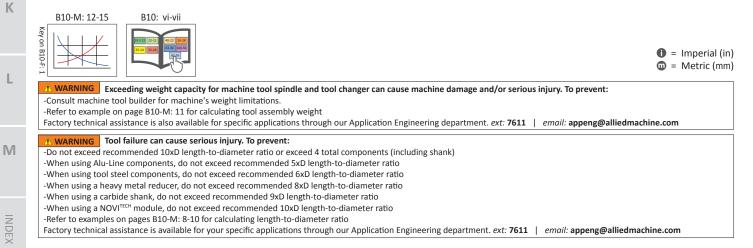
Mounting Fixtures



Mounting Fixture

Code	Туре	Part No.
Basic Body*	-	098060
Adapter	30 Taper	098073
Adapter	40 Taper	098061
Adapter	50 Taper	098062
Adapter	HSK-A 32	098063
Adapter	HSK-A 40	098064
Adapter	HSK-A 50	098065
Adapter	HSK-A 63	098066
Adapter	HSK-A 80	098067
Adapter	HSK-A 100	098068
Adapter	PSC 50	098069
Adapter	PSC 63	098070
Adapter	PSC 80	098071

*Basic body and adapters sold separately



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Distributor PO #

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

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

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ENGINEERING

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••

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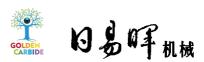
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