

rineck

• Werkzeugtechnik

ShrinkFit Tooling
MEGA SALE!!!

Over 2,500 tools available!



Made in Germany

Inch

BT40
CAT40 & CAT50
HSK-A40, 63 & 100
HSK-E40 & HSK-E50
HSK-F63
HSK-F80 (Makino MAG)
PSC-50 & 63
Straight Shank

All Tools
On SALE!

Metric

BT30, 40 & 50
CAT40 & CAT50
DIN-SK30, 40 & 50
HSK-A32, 40, 50, 63, 80, 100
HSK-E20, 25, 32, 40, 50, 63
HSK-F63
HSK-F80 (Makino MAG)
PSC-40, 50 & 63
ER Collet
Straight Shank



Scan QR Code to access all Rineck Catalogues
or visit: www.tysontool.com/ecat-rineck.htm

Your tool not listed? Call for Promo Pricing

Special Pricing Valid Until Dec. 24th 2024



RINECK Induktherm Rapid Shrink

Induction Shrink Technology in a few easy steps

Perfect shrinkage technology
and ergonomic design



Made in Germany

All units certified to CDN
600V Electrical Standards



rapid shrink II VCS

+ elevator cool technology

Stand Alone Shrink Unit
with Cooling System

Coolant Units

- Heating times between 3 to 9 seconds
- Cooling times between 15 to 50 seconds
- Tools automatically move up/down into coolant tank

- 10kW / 600V Shrink Unit
- Suitable for Carbide and HSS tools
- Simple to operate and self contained
- Reliable and robust for years of operation
- Certified to CDN 600V Electrical Standards
- Also available as 480V for USA standard

Includes Adapters for:

- BT40, BT50
- CAT40, CAT50
- HSK-A63, HSK-A100
- PSC63

Capacity:

- Carbide 1/8" - 1.1/4"
3mm - 32mm
- HSS 1/4" - 1.1/4"
6mm - 32mm



Scan QR Code for Shrink Unit Brochure
or visit: tysontool.com/ecat-induktherm.htm



rapid shrink II VCS
Table Top Shrink Unit

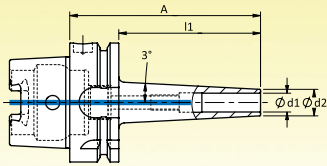


Induktherm rapid shrink II VC	
Performance	10kw
Measurements (MM)	W 680 x D 520 x H1600
Weight	130 kg
Power supply	600 volt
max. chuck length	400mm
Carbide-Shafts	Ø 3-32mm / 1/8" - 1.1/4"
HSS-Shafts	Ø 6-32mm / 1/4" - 1.1/4"

HSK-A63 ShrinkFit INCH

Series- 925Z

HSK-A63 ShrinkFit Chuck
Extra Slim Execution 3°



Product Order Number	d1	d2	A	l1	SPECIAL
925Z-A63-1/8-1.97	1/8	.28	2.99	1.97	298.12
925Z-A63-1/8-2.95			3.98	2.95	298.12
925Z-A63-1/8-3.94			4.96	3.94	314.68
925Z-A63-1/8-5.91			6.93	5.91	430.61
925Z-A63-3/16-1.97	3/16	.35	2.99	1.97	298.12
925Z-A63-3/16-2.95			3.98	2.95	298.12
925Z-A63-3/16-3.94			4.96	3.94	314.68
925Z-A63-3/16-5.91			6.93	5.91	430.61
925Z-A63-1/4-1.97	1/4	.39	2.99	1.97	256.71
925Z-A63-1/4-2.95			3.98	2.95	256.71
925Z-A63-1/4-3.94			4.96	3.94	273.27
925Z-A63-1/4-5.91			6.93	5.91	389.21
925Z-A63-1/4-7.87			8.90	7.87	472.02
925Z-A63-5/16-1.97	5/16	.47	2.99	1.97	256.71
925Z-A63-5/16-2.95			3.98	2.95	256.71
925Z-A63-5/16-3.94			4.96	3.94	273.27
925Z-A63-5/16-5.91			6.93	5.91	389.21
925Z-A63-5/16-7.87			8.90	7.87	472.02
925Z-A63-3/8-1.97	3/8	.55	2.99	1.97	256.71
925Z-A63-3/8-2.95			3.98	2.95	256.71
925Z-A63-3/8-3.94			4.96	3.94	273.27
925Z-A63-3/8-5.91			6.93	5.91	389.21
925Z-A63-3/8-7.87			8.90	7.87	472.02

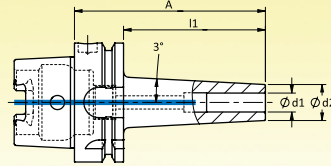
Coolant Tubes & Wrenches For HSK Tooling

TAPER HSK Arbour	Coolant Tube		Wrench	
	Order #	SPECIAL	Order #	SPECIAL
HSK-A32	951-A32	15.95	952-A32	54.27
HSK-A40	951-A40	15.95	952-A40	54.27
HSK-A50	951-A50	16.95	952-A50	54.27
HSK-A63	951-A63	17.95	952-A63	56.54
HSK-A80	951-A80	18.95	952-A80	74.63
HSK-A100	951-A100	19.95	952-A100	79.29

HSK-A63 ShrinkFit INCH

Series- 915Z

HSK-A63 ShrinkFit Chuck
Slim Execution 3°

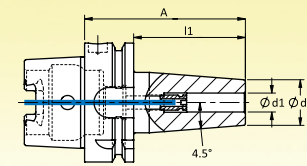


Product Order Number	d1	d2	A	l1	SPECIAL
915Z-A63-1/8-2.95	1/8	.43	3.98	2.95	264.99
915Z-A63-1/8-3.94			4.96	3.94	281.56
915Z-A63-1/8-5.91			6.93	5.91	380.93
915Z-A63-1/8-7.87			8.90	7.87	463.73
915Z-A63-3/16-2.95	3/16	.51	3.98	2.95	264.99
915Z-A63-3/16-3.94			4.96	3.94	281.56
915Z-A63-3/16-5.91			6.93	5.91	380.93
915Z-A63-3/16-7.87			8.90	7.87	463.73
915Z-A63-1/4-2.95	1/4	.59	3.98	2.95	223.59
915Z-A63-1/4-3.94			4.96	3.94	235.18
915Z-A63-1/4-5.91			6.93	5.91	339.52
915Z-A63-1/4-7.87			8.90	7.87	422.33
915Z-A63-1/4-9.84			10.87	9.84	480.30
915Z-A63-1/4-11.81			12.83	11.81	563.11
915Z-A63-5/16-2.95	5/16	.67	3.98	2.95	223.59
915Z-A63-5/16-3.94			4.96	3.94	235.18
915Z-A63-5/16-5.91			6.93	5.91	339.52
915Z-A63-5/16-7.87			8.90	7.87	422.33
915Z-A63-5/16-9.84			10.87	9.84	480.30
915Z-A63-5/16-11.81			12.83	11.81	563.11
915Z-A63-3/8-2.95	3/8	.75	3.98	2.95	223.59
915Z-A63-3/8-3.94			4.96	3.94	235.18
915Z-A63-3/8-5.91			6.93	5.91	339.52
915Z-A63-3/8-7.87			8.90	7.87	422.33
915Z-A63-3/8-9.84			10.87	9.84	480.30
915Z-A63-3/8-11.81			12.83	11.81	563.11
915Z-A63-7/16-2.95	7/16	.87	3.98	2.95	223.59
915Z-A63-7/16-3.94			4.96	3.94	235.18
915Z-A63-7/16-5.91			6.93	5.91	339.52
915Z-A63-7/16-7.87			8.90	7.87	422.33
915Z-A63-1/2-2.95	1/2	.87	3.98	2.95	223.59
915Z-A63-1/2-3.94			4.96	3.94	235.18
915Z-A63-1/2-5.91			6.93	5.91	339.52
915Z-A63-1/2-7.87			8.90	7.87	422.33

HSK-A63 ShrinkFit INCH

Series- 985Z

HSK-A63 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw



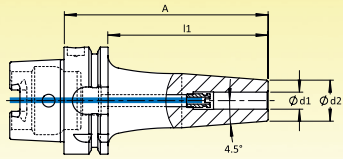
Product Order Number	d1	d2	A	l1	SPECIAL
985Z-A63-1/8-A3.15	1/8	.43	3.15	2.13	256.71
985Z-A63-1/8-A4.72			4.72	3.70	281.56
985Z-A63-3/16-A3.15	3/16	.55	3.15	2.13	256.71
985Z-A63-3/16-A4.72			4.72	3.70	281.56
985Z-A63-1/4-A3.15	1/4	.83	3.15	2.13	215.30
985Z-A63-1/4-A4.72			4.72	3.70	235.18
985Z-A63-1/4-A5.12			5.12	4.09	249.63
985Z-A63-1/4-A6.30			6.30	5.28	322.96
985Z-A63-5/16-A3.15	5/16	.83	3.15	2.13	215.30
985Z-A63-5/16-A4.72			4.72	3.70	235.18
985Z-A63-5/16-A5.12			5.12	4.09	249.63
985Z-A63-5/16-A6.30			6.30	5.28	322.96
985Z-A63-3/8-A3.35	3/8	.94	3.35	2.32	215.30
985Z-A63-3/8-A4.72			4.72	3.70	235.18
985Z-A63-3/8-A5.12			5.12	4.09	249.63
985Z-A63-3/8-A6.30			6.30	5.28	322.96
985Z-A63-1/2-A3.54	1/2	.94	3.54	2.52	215.30
985Z-A63-1/2-A4.72			4.72	3.70	235.18
985Z-A63-1/2-A5.12			5.12	4.09	249.63
985Z-A63-1/2-A6.30			6.30	5.28	322.96
985Z-A63-5/8-A3.74	5/8	1.06	3.74	2.72	215.30
985Z-A63-5/8-A4.72			4.72	3.70	235.18
985Z-A63-5/8-A5.12			5.12	4.09	249.63
985Z-A63-5/8-A6.30			6.30	5.28	322.96
985Z-A63-3/4-A3.94	3/4	1.30	3.94	2.91	223.59
985Z-A63-3/4-A4.72			4.72	3.70	235.18
985Z-A63-3/4-A5.12			5.12	4.09	249.63
985Z-A63-3/4-A6.30			6.30	5.28	322.96
985Z-A63-1-A4.53	1	1.73	4.53	3.50	235.18
985Z-A63-1-A6.30			6.30	5.28	322.96
985Z-A63-1-A7.87			7.87	6.85	380.93
985Z-A63-1.1/4-A4.72	1.1/4	1.73	4.72	3.70	235.18
985Z-A63-1.1/4-A6.30			6.30	5.28	322.96

240 Metric and 150 Inch HSK-A63 ShrinkFit Tools Available

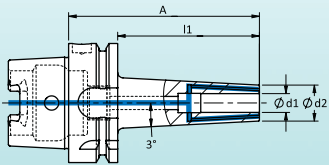
HSK-A63 ShrinkFit INCH

Series- 984Z

HSK-A63 ShrinkFit Chuck
Standard Execution 4.5°
Tapered Extension
w/ Large Rad. Design
For Enhanced Rigidity



Product Order Number	d1	d2	A	l1	SPECIAL
984Z-A63-1/4-A6.30	1/4	.83	6.30	5.28	322.96
984Z-A63-1/4-A7.87			7.87	6.85	380.93
984Z-A63-5/16-A6.30	5/16	.83	6.30	5.28	322.96
984Z-A63-5/16-A7.87			7.87	6.85	380.93
984Z-A63-3/8-A6.30	3/8	.94	6.30	5.28	322.96
984Z-A63-3/8-A7.87			7.87	6.85	380.93
984Z-A63-1/2-A6.30	1/2	.94	6.30	5.28	322.96
984Z-A63-1/2-A7.87			7.87	6.85	380.93
984Z-A63-5/8-A6.30	5/8	1.06	6.30	5.28	322.96
984Z-A63-5/8-A7.87			7.87	6.85	380.93
984Z-A63-3/4-A6.30	3/4	1.30	6.30	5.28	322.96
984Z-A63-3/4-A7.87			7.87	6.85	380.93



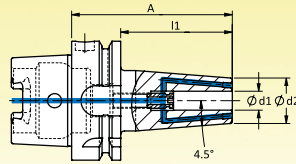
HSK-A63 ShrinkFit Chuck
Slim Execution 3°
w/3 Cooling Jets Ø 1mm
Series- 996Z

Product Order Number	d1	d2	A	l1	SPECIAL
996Z-A63-1/8-2.95	1/8	.43	3.98	2.95	364.37
996Z-A63-1/8-3.94			4.96	3.94	380.93
996Z-A63-3/16-2.95	3/16	.51	3.98	2.95	364.37
996Z-A63-3/16-3.94			4.96	3.94	380.93
996Z-A63-1/4-2.95	1/4	.59	3.98	2.95	314.68
996Z-A63-1/4-3.94			4.96	3.94	331.24
996Z-A63-1/4-5.91			6.93	5.91	438.89
996Z-A63-5/16-1.97			2.99	1.97	314.68
996Z-A63-5/16-2.95	5/16	.67	3.98	2.95	314.68
996Z-A63-5/16-3.94			4.96	3.94	331.24
996Z-A63-5/16-5.91			6.93	5.91	438.89
996Z-A63-3/8-1.97	3/8	.75	2.99	1.97	314.68
996Z-A63-3/8-2.95			3.98	2.95	314.68
996Z-A63-3/8-3.94			4.96	3.94	331.24
996Z-A63-3/8-5.91			6.93	5.91	438.89
996Z-A63-7/16-1.97	7/16	.87	2.99	1.97	314.68
996Z-A63-7/16-2.95			3.98	2.95	314.68
996Z-A63-7/16-3.94			4.96	3.94	331.24
996Z-A63-7/16-5.91			6.93	5.91	438.89

HSK-A63 ShrinkFit INCH

Series- 995Z

HSK-A63 ShrinkFit Chuck
Standard Execution 4.5°
w/Closable Cooling Jets
w/Length Adjusting Screw



Product Order Number	d1	d2	A	l1	SPECIAL
995Z-A63-1/8-A3.15	1/8	.43	3.15	2.13	306.40
995Z-A63-1/8-A4.72			4.72	3.70	331.24
995Z-A63-3/16-A3.15	3/16	.55	3.15	2.13	306.40
995Z-A63-3/16-A4.72			4.72	3.70	331.24
995Z-A63-1/4-A3.15	1/4	.83	3.15	2.13	264.99
995Z-A63-1/4-A4.72			4.72	3.70	284.87
995Z-A63-1/4-A5.12			5.12	4.09	299.31
995Z-A63-1/4-A6.30			6.30	5.28	372.65
995Z-A63-5/16-A3.15	5/16	.83	3.15	2.13	264.99
995Z-A63-5/16-A4.72			4.72	3.70	284.87
995Z-A63-5/16-A5.12			5.12	4.09	299.31
995Z-A63-5/16-A6.30	3/8	.94	6.30	5.28	372.65
995Z-A63-3/8-A3.35			3.35	2.32	264.99
995Z-A63-3/8-A4.72			4.72	3.70	284.87
995Z-A63-3/8-A5.12			5.12	4.09	299.31
995Z-A63-3/8-A6.30	1/2	.94	6.30	5.28	372.65
995Z-A63-1/2-A3.54			3.54	2.52	264.99
995Z-A63-1/2-A4.72			4.72	3.70	284.87
995Z-A63-1/2-A5.12			5.12	4.09	299.31
995Z-A63-1/2-A6.30	5/8	1.06	6.30	5.28	372.65
995Z-A63-5/8-A3.74			3.74	2.72	264.99
995Z-A63-5/8-A4.72			4.72	3.70	284.87
995Z-A63-5/8-A5.12			5.12	4.09	299.31
995Z-A63-5/8-A6.30	3/4	1.30	6.30	5.28	372.65
995Z-A63-3/4-A3.94			3.94	2.91	264.99
995Z-A63-3/4-A4.72			4.72	3.70	284.87
995Z-A63-3/4-A5.12			5.12	4.09	299.31
995Z-A63-3/4-A6.30	1	1.73	6.30	5.28	372.65
995Z-A63-1-A4.53			4.53	3.50	299.78

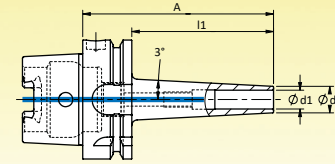
Coolant Tubes & Wrenches For HSK Tooling

TAPER HSK Arbour	Coolant Tube		Wrench	
	Order #	SPECIAL	Order #	SPECIAL
HSK-A32	951-A32	15.95	952-A32	54.27
HSK-A40	951-A40	15.95	952-A40	54.27
HSK-A50	951-A50	16.95	952-A50	54.27
HSK-A63	951-A63	17.95	952-A63	56.54
HSK-A80	951-A80	18.95	952-A80	74.63
HSK-A100	951-A100	19.95	952-A100	79.29

HSK-A63 ShrinkFit METRIC

Series- 925

HSK-A63 ShrinkFit Chuck
Extra Slim Execution 3°

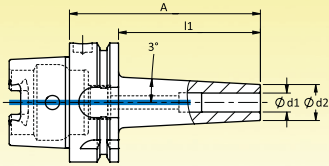


Product Order Number	d1	d2	A	l1	SPECIAL
925-A630350	3	7	76	50	298.12
925-A630375			101	75	298.12
925-A6303100			126	100	314.68
925-A6303150	4	8	176	150	430.61
925-A630450			76	50	298.12
925-A630475			101	75	298.12
925-A6304100			126	100	314.68
925-A6304150	6	10	176	150	430.61
925-A630650			76	50	256.71
925-A630675			101	75	256.71
925-A6306100	8	12	126	100	273.27
925-A6306125			151	125	364.37
925-A6306150			176	150	389.21
925-A6306200			226	200	472.02
925-A6306250	10	14	276	250	546.55
925-A6306300			326	300	629.36
925-A630850			76	50	256.71
925-A630875	12	16	101	75	256.71
925-A6308100			126	100	273.27
925-A6308150			176	150	389.21
925-A6308200			226	200	472.02
925-A6308250	14	18	276	250	546.55
925-A6308300			326	300	629.36
925-A631050			76	50	256.71
925-A631075	16	20	101	75	256.71
925-A6310100			126	100	273.27
925-A6310150			176	150	389.21
925-A6310200			226	200	472.02
925-A6310250	18	24	276	250	546.55
925-A6310300			326	300	629.36
925-A631275			101	75	256.71
925-A6312100	20	26	126	100	273.27
925-A6312150			176	150	389.21
925-A6312200			226	200	472.02

HSK-A63 ShrinkFit METRIC

Series- 915

HSK-A63 ShrinkFit Chuck
Slim Execution 3°



Product Order Number	d1	d2	A	l1	SPECIAL		
915-A630350	3	11	76	50	256.71		
915-A630375			101	75	264.99		
915-A6303100			126	100	281.56		
915-A6303150			176	150	380.93		
915-A6303200			226	200	463.73		
915-A6303300			326	300	604.52		
915-A630450	4	11	76	50	256.71		
915-A630475			101	75	264.99		
915-A6304100			126	100	281.56		
915-A6304150			176	150	380.93		
915-A6304200			226	200	463.73		
915-A6304300			326	300	604.52		
915-A630550	5	13	76	50	256.71		
915-A630575			101	75	264.99		
915-A6305100			126	100	281.56		
915-A6305150			176	150	380.93		
915-A6305200			226	200	463.73		
915-A630650			6	15	76	50	215.30
915-A630675	101	75			223.59		
915-A6306100	126	100			235.18		
915-A6306125	151	125			314.68		
915-A6306150	176	150			339.52		
915-A6306175	201	175			380.93		
915-A6306200	226	200			422.33		
915-A6306250	276	250			480.30		
915-A6306300	326	300			563.11		
915-A6306350	376	350			687.32		
915-A630850	8	17			76	50	215.30
915-A630875					101	75	223.59
915-A6308100			126	100	235.18		
915-A6308125			151	125	314.68		
915-A6308150			176	150	339.52		
915-A6308175			201	175	380.93		
915-A6308200			226	200	422.33		
915-A6308250			276	250	480.30		
915-A6308300			326	300	563.11		
915-A6308350			376	350	687.32		

Series- 915
...continued

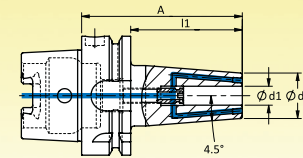
HSK-A63 ShrinkFit Chuck
Slim Execution 3°

Product Order Number	d1	d2	A	l1	SPECIAL		
915-A631050	10	19	76	50	215.30		
915-A631075			101	75	223.59		
915-A6310100			126	100	235.18		
915-A6310125			151	125	314.68		
915-A6310150			176	150	339.52		
915-A6310175			201	175	380.93		
915-A6310200			226	200	422.33		
915-A6310250			276	250	480.30		
915-A6310300			326	300	563.11		
915-A6310350			376	350	687.32		
915-A631250			12	22	76	50	215.30
915-A631275					101	75	223.59
915-A6312100	126	100			235.18		
915-A6312125	151	125			314.68		
915-A6312150	176	150			339.52		
915-A6312175	201	175			380.93		
915-A6312200	226	200			422.33		
915-A6312250	276	250			480.30		
915-A6312300	326	300			563.11		
915-A6312350	376	350			687.32		
915-A631450	14	24			76	50	248.43
915-A6314100					126	100	273.27
915-A6314150			176	150	339.52		
915-A6314200			226	200	422.33		
915-A6314250			276	250	480.30		
915-A6314300			326	300	563.11		
915-A6314350			376	350	687.32		
915-A631660			16	27	86	60	223.59
915-A631675					101	75	223.59
915-A6316100					126	100	235.18
915-A6316150					176	150	339.52
915-A6316200					226	200	422.33
915-A6316250	276	250			480.30		
915-A6316300	326	300			563.11		
915-A6316350	376	350			687.32		
915-A631865	18	30			91	65	256.71
915-A6318100					126	100	273.27
915-A632065					91	65	223.59
915-A632075					101	75	223.59
915-A6320100			126	100	235.18		
915-A6320125			151	125	314.68		
915-A6320150			176	150	339.52		
915-A6320200			226	200	422.33		
915-A6320250			276	250	480.30		
915-A6320300			326	300	563.11		

HSK-A63 ShrinkFit METRIC

Series- 995

HSK-A63 ShrinkFit Chuck
Standard Execution 4.5°
w/Closable Cooling Jets
w/Length Adjusting Screw



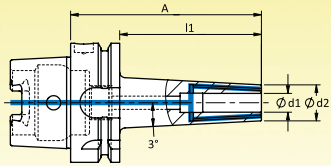
Product Order Number	d1	d2	A	l1	SPECIAL
995-A6303A80	3	11	80	54	306.40
995-A6303A120			120	94	331.24
995-A6303A160			160	134	414.05
995-A6304A80	4	14	80	54	306.40
995-A6304A120			120	94	331.24
995-A6304A160			160	134	414.05
995-A6305A80	5	16	80	54	306.40
995-A6305A120			120	94	331.24
995-A6305A160			160	134	414.05
995-A6306A80	6	21	80	54	264.99
995-A6306A120			120	94	284.87
995-A6306A160			160	134	372.65
995-A6308A80	8	21	80	54	264.99
995-A6308A120			120	94	284.87
995-A6308A160			160	134	372.65
995-A6310A85	10	24	85	59	264.99
995-A6310A120			120	94	284.87
995-A6310A160			160	134	372.65
995-A6312A90	12	24	90	64	273.27
995-A6312A120			120	94	284.87
995-A6312A160			160	134	372.65
995-A6314A90	14	27	90	64	273.27
995-A6314A120			120	94	284.87
995-A6316A95			16	27	95
995-A6316A120	120	94			284.87
995-A6318A95	18	33			95
995-A6318A120			120	94	284.87
995-A6320A100			20	33	100
995-A6320A120	120	94			284.87
995-A6325A115	25	44			115
995-A6332A120	32	44	120	94	299.78

240 Metric and 150 Inch HSK-A63
ShrinkFit Tools Available

HSK-A63 ShrinkFit METRIC

Series- 996

HSK-A63 ShrinkFit Chuck
Slim Execution 3°
w/3 Cooling Jets Ø 1mm

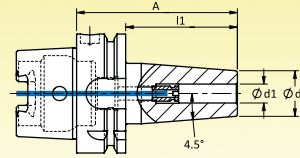


Product Order Number	d1	d2	A	l1	SPECIAL		
996-A630350	3	11	76	50	356.09		
996-A630375			101	75	364.37		
996-A6303100			126	100	380.93		
996-A630450	4	11	76	50	356.09		
996-A630475			101	75	364.37		
996-A6304100			126	100	380.93		
996-A6304150			176	150	480.30		
996-A6304200			226	200	563.11		
996-A6304300			326	300	703.88		
996-A630575	5	13	101	75	364.37		
996-A6305100			126	100	380.93		
996-A6305150			176	150	480.30		
996-A630650	6	15	76	50	314.68		
996-A630675			101	75	314.68		
996-A6306100			126	100	331.24		
996-A6306125			151	125	414.05		
996-A6306150			176	150	438.89		
996-A6306200			226	200	521.70		
996-A630850			8	17	76	50	314.68
996-A630875	101	75			314.68		
996-A6308100	126	100			331.24		
996-A6308125	151	125			414.05		
996-A6308150	176	150			438.89		
996-A6308200	226	200			521.70		
996-A631050	10	19			76	50	314.68
996-A631075					101	75	314.68
996-A6310100			126	100	331.24		
996-A6310125			151	125	414.05		
996-A6310150			176	150	438.89		
996-A6310200	226	200	521.70				
996-A631250	12	22	76	50	314.68		
996-A631275			101	75	314.68		
996-A6312100			126	100	331.24		
996-A6312125			151	125	414.05		
996-A6312150			176	150	438.89		
996-A6312200			226	200	521.70		

HSK-A63 ShrinkFit METRIC

Series- 985

HSK-A63 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw

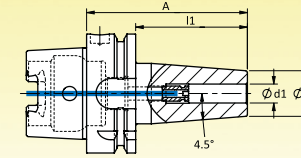


Product Order Number	d1	d2	A	l1	SPECIAL		
985-A6303A80	3	11	80	54	256.71		
985-A6303A120			120	94	281.56		
985-A6303A160			160	134	364.37		
985-A6304A80	4	14	80	54	256.71		
985-A6304A120			120	94	281.56		
985-A6304A160			160	134	364.37		
985-A6305A80	5	16	80	54	256.71		
985-A6305A120			120	94	281.56		
985-A6305A160			160	134	364.37		
985-A6306A70	6	21	70	44	215.30		
985-A6306A80			80	54	215.30		
985-A6306A120			120	94	235.18		
985-A6306A160			160	134	322.96		
985-A6306A200			200	174	380.93		
985-A6307A80			7	21	80	54	289.84
985-A6308A70			8	21	70	44	215.30
985-A6308A80	80	54			215.30		
985-A6308A120	120	94			235.18		
985-A6308A160	160	134			322.96		
985-A6308A200	200	174			380.93		
985-A6309A85	9	24	85	59	289.84		
985-A6310A70	10	24	70	44	215.30		
985-A6310A85			85	59	215.30		
985-A6310A120			120	94	235.18		
985-A6310A160			160	134	322.96		
985-A6310A200			200	174	380.93		
985-A6311A90	11	24	90	64	289.84		
985-A6312A70	12	24	70	44	215.30		
985-A6312A90			90	64	215.30		
985-A6312A120			120	94	235.18		
985-A6312A160			160	134	322.96		
985-A6312A200			200	174	380.93		
985-A6313A90	13	27	90	64	289.84		

HSK-A63 ShrinkFit METRIC

Series- 985

HSK-A63 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw



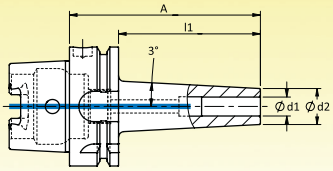
Product Order Number	d1	d2	A	l1	SPECIAL
985-A6314A75	14	27	75	49	215.30
985-A6314A90			90	64	215.30
985-A6314A120			120	94	235.18
985-A6314A160			160	134	322.96
985-A6315A95	15	27	95	69	289.84
985-A6316A75	16	27	75	49	215.30
985-A6316A95			95	69	215.30
985-A6316A120			120	94	235.18
985-A6316A160			160	134	322.96
985-A6316A200			200	174	380.93
985-A6318A95	18	33	95	69	215.30
985-A6318A120			120	94	235.18
985-A6318A160			160	134	322.96
985-A6320A100	20	33	100	74	223.59
985-A6320A120			120	94	235.18
985-A6320A160			160	134	322.96
985-A6320A200			200	174	380.93
985-A6322A100	22	33	100	74	289.84
985-A6325A115	25	44	115	89	235.18
985-A6325A160			160	134	322.96
985-A6325A200			200	174	380.93
985-A6332A120	32	44	120	94	235.18
985-A6332A160			160	134	322.96

**240 Metric and 150 Inch HSK-A63
ShrinkFit Tools Available**

HSK-A100 ShrinkFit INCH

Series- 915Z

HSK-A100 ShrinkFit Chuck
Slim Execution 3°



Product Order Number	d1	d2	A	l1	SPECIAL
915Z-A100-3/16-2.95	3/16	.51	4.10	2.95	379.01
915Z-A100-3/16-3.94			5.08	3.94	404.85
915Z-A100-3/16-5.91			7.05	5.91	473.76
915Z-A100-3/16-7.87			9.02	7.87	577.13
915Z-A100-1/4-2.95	1/4	.59	4.10	2.95	353.17
915Z-A100-1/4-3.94			5.08	3.94	379.01
915Z-A100-1/4-5.91			7.05	5.91	439.31
915Z-A100-1/4-7.87			9.02	7.87	525.44
915Z-A100-5/16-2.95	5/16	.67	4.10	2.95	353.17
915Z-A100-5/16-3.94			5.08	3.94	379.01
915Z-A100-5/16-5.91			7.05	5.91	439.31
915Z-A100-5/16-7.87			9.02	7.87	525.44
915Z-A100-3/8-2.95	3/8	.75	4.10	2.95	353.17
915Z-A100-3/8-3.94			5.08	3.94	379.01
915Z-A100-3/8-5.91			7.05	5.91	439.31
915Z-A100-3/8-7.87			9.02	7.87	525.44
915Z-A100-1/2-2.95	1/2	.87	4.10	2.95	353.17
915Z-A100-1/2-3.94			5.08	3.94	379.01
915Z-A100-1/2-5.91			7.05	5.91	439.31
915Z-A100-1/2-7.87			9.02	7.87	525.44

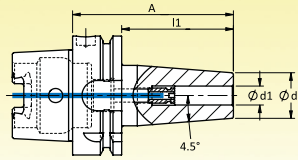
Coolant Tubes & Wrenches For HSK Tooling

TAPER HSK Arbour	Coolant Tube		Wrench	
	Order #	SPECIAL	Order #	SPECIAL
HSK-A32	951-A32	15.95	952-A32	54.27
HSK-A40	951-A40	15.95	952-A40	54.27
HSK-A50	951-A50	16.95	952-A50	54.27
HSK-A63	951-A63	17.95	952-A63	56.54
HSK-A80	951-A80	18.95	952-A80	74.63
HSK-A100	951-A100	19.95	952-A100	79.29

HSK-A100 ShrinkFit INCH

Series- 985Z

HSK-A100 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw

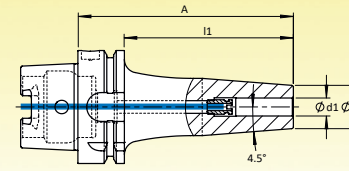


Product Order Number	d1	d2	A	l1	SPECIAL
985Z-A100-1/4-A3.35	1/4	.83	3.35	2.20	327.32
985Z-A100-1/4-A4.72			4.72	3.58	370.40
985Z-A100-1/4-A6.30			6.30	5.16	404.85
985Z-A100-1/4-A7.87			7.87	6.73	465.15
985Z-A100-5/16-A3.35	5/16	.83	3.35	2.20	327.32
985Z-A100-5/16-A4.72			4.72	3.58	370.40
985Z-A100-5/16-A6.30			6.30	5.16	404.85
985Z-A100-5/16-A7.87			7.87	6.73	465.15
985Z-A100-3/8-A3.54	3/8	.94	3.54	2.40	327.32
985Z-A100-3/8-A4.72			4.72	3.58	370.40
985Z-A100-3/8-A6.30			6.30	5.16	404.85
985Z-A100-3/8-A7.87			7.87	6.73	465.15
985Z-A100-1/2-A3.74	1/2	.94	3.74	2.60	327.32
985Z-A100-1/2-A4.72			4.72	3.58	370.40
985Z-A100-1/2-A6.30			6.30	5.16	404.85
985Z-A100-1/2-A7.87			7.87	6.73	465.15
985Z-A100-5/8-A3.94	5/8	1.06	3.94	2.80	327.32
985Z-A100-5/8-A4.72			4.72	3.58	370.40
985Z-A100-5/8-A6.30			6.30	5.16	404.85
985Z-A100-5/8-A7.87			7.87	6.73	465.15
985Z-A100-3/4-A4.13	3/4	1.30	4.13	2.99	327.32
985Z-A100-3/4-A4.72			4.72	3.58	370.40
985Z-A100-3/4-A6.30			6.30	5.16	404.85
985Z-A100-3/4-A7.87			7.87	6.73	465.15
985Z-A100-1-A4.53	1	1.73	4.53	3.39	370.40
985Z-A100-1-A6.30			6.30	5.16	404.85
985Z-A100-1-A7.87			7.87	6.73	465.15
985Z-A100-1.1/4-A4.72			1.1/4	1.73	4.72
985Z-A100-1.1/4-A6.30	6.30	5.16			404.85

HSK-A100 ShrinkFit INCH

Series- 984Z

HSK-A100 ShrinkFit Chuck
Standard 4.5°
Tapered Extension
w/Large Rad. Design
For Enhanced Rigidity



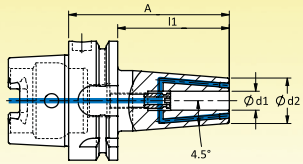
Product Order Number	d1	d2	A	l1	SPECIAL
984Z-A100-1/4-A5.12	1/4	.83	5.12	3.98	387.21
984Z-A100-1/4-A6.30			6.30	5.16	404.85
984Z-A100-1/4-A7.87			7.87	6.73	465.15
984Z-A100-1/4-A9.84			9.84	8.70	577.13
984Z-A100-5/16-A5.12	5/16	.83	5.12	3.98	387.21
984Z-A100-5/16-A6.30			6.30	5.16	404.85
984Z-A100-5/16-A7.87			7.87	6.73	465.15
984Z-A100-5/16-A9.84			9.84	8.70	577.13
984Z-A100-3/8-A5.12	3/8	.94	5.12	3.98	387.21
984Z-A100-3/8-A6.30			6.30	5.16	404.85
984Z-A100-3/8-A7.87			7.87	6.73	465.15
984Z-A100-3/8-A9.84			9.84	8.70	577.13
984Z-A100-1/2-A5.12	1/2	.94	5.12	3.98	387.21
984Z-A100-1/2-A6.30			6.30	5.16	404.85
984Z-A100-1/2-A7.87			7.87	6.73	465.15
984Z-A100-1/2-A9.84			9.84	8.70	577.13
984Z-A100-5/8-A5.12	5/8	1.06	5.12	3.98	387.21
984Z-A100-5/8-A6.30			6.30	5.16	404.85
984Z-A100-5/8-A7.87			7.87	6.73	465.15
984Z-A100-5/8-A9.84			9.84	8.70	577.13
984Z-A100-3/4-A5.12	3/4	1.30	5.12	3.98	387.21
984Z-A100-3/4-A6.30			6.30	5.16	404.85
984Z-A100-3/4-A7.87			7.87	6.73	465.15
984Z-A100-3/4-A9.84			9.84	8.70	577.13
984Z-A100-1-A5.12	1	1.73	5.12	3.98	387.21
984Z-A100-1-A6.30			6.30	5.16	404.85
984Z-A100-1-A7.87			7.87	6.73	465.15

180 Metric and 103 Inch HSK-A100 ShrinkFit Tools Available

HSK-A100 ShrinkFit INCH

Series- 995Z

HSK-A100 ShrinkFit Chuck
Standard Execution 4.5°
w/Closable Cooling Jets
and Length Adjusting Screw

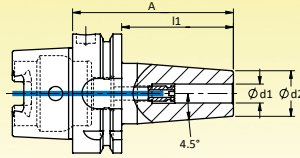


Product Order Number	d1	d2	A	l1	SPECIAL
995Z-A100-1/4-A3.35	1/4	.83	3.35	2.20	396.23
995Z-A100-1/4-A4.72			4.72	3.58	439.31
995Z-A100-1/4-A6.30			6.30	5.16	473.76
995Z-A100-1/4-A7.87			7.87	6.73	534.06
995Z-A100-5/16-A3.35	5/16	.83	3.35	2.20	396.23
995Z-A100-5/16-A4.72			4.72	3.58	439.31
995Z-A100-5/16-A6.30			6.30	5.16	473.76
995Z-A100-5/16-A7.87			7.87	6.73	534.06
995Z-A100-3/8-A3.54	3/8	.94	3.54	2.40	396.23
995Z-A100-3/8-A4.72			4.72	3.58	439.31
995Z-A100-3/8-A6.30			6.30	5.16	473.76
995Z-A100-3/8-A7.87			7.87	6.73	534.06
995Z-A100-1/2-A3.74	1/2	.94	3.74	2.60	396.23
995Z-A100-1/2-A4.72			4.72	3.58	439.31
995Z-A100-1/2-A6.30			6.30	5.16	473.76
995Z-A100-1/2-A7.87			7.87	6.73	534.06
995Z-A100-5/8-A3.94	5/8	1.06	3.94	2.80	396.23
995Z-A100-5/8-A4.72			4.72	3.58	439.31
995Z-A100-5/8-A6.30			6.30	5.16	473.76
995Z-A100-5/8-A7.87			7.87	6.73	534.06
995Z-A100-3/4-A4.13	3/4	1.30	4.13	2.99	396.23
995Z-A100-3/4-A4.72			4.72	3.58	439.31
995Z-A100-3/4-A6.30			6.30	5.16	473.76
995Z-A100-3/4-A7.87			7.87	6.73	534.06
995Z-A100-1-A4.53	1	1.73	4.53	3.39	439.31
995Z-A100-1-A6.30			6.30	5.16	473.76
995Z-A100-1-A7.87			7.87	6.73	534.06

HSK-A100 ShrinkFit METRIC

Series- 985

HSK-A100 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw

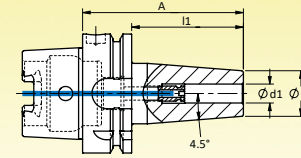


Product Order Number	d1	d2	A	l1	SPECIAL
985-A10003A120	3	11	120	91	422.08
985-A10004A85	4	14	85	56	379.01
985-A10004A120			120	91	422.08
985-A10005A85	5	16	85	56	379.01
985-A10006A85			85	56	327.32
985-A10006A120	6	21	120	91	370.40
985-A10006A160			160	131	404.85
985-A10006A200			200	171	465.15
985-A10006A250			250	221	577.13
985-A10007A120	7	21	120	91	465.15
985-A10008A85			85	56	327.32
985-A10008A120	8	21	120	91	370.40
985-A10008A160			160	131	404.85
985-A10008A200			200	171	465.15
985-A10008A250			250	221	577.13
985-A10009A120	9	24	120	91	465.15
985-A10010A90			90	61	327.32
985-A10010A120	10	24	120	91	370.40
985-A10010A160			160	131	404.85
985-A10010A200			200	171	465.15
985-A10010A250			250	221	577.13
985-A10011A120	11	24	120	91	465.15
985-A10012A95			95	66	327.32
985-A10012A120	12	24	120	91	370.40
985-A10012A160			160	131	404.85
985-A10012A200			200	171	465.15
985-A10012A250			250	221	577.13
985-A10013A120	13	27	120	91	465.15
985-A10014A95			95	66	327.32
985-A10014A120	14	27	120	91	370.40
985-A10014A160			160	131	404.85
985-A10014A200			200	171	465.15
985-A10014A250			250	221	577.13
985-A10015A100	15	27	100	71	465.15

HSK-A100 ShrinkFit METRIC

Series- 985

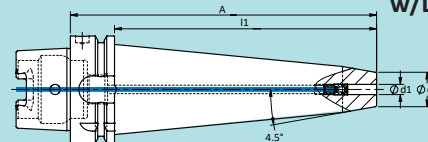
HSK-A100 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw



Product Order Number	d1	d2	A	l1	SPECIAL
985-A10016A100	16	27	100	71	344.55
985-A10016A120			120	91	370.40
985-A10016A160			160	131	404.85
985-A10016A200			200	171	465.15
985-A10016A250	18	33	250	221	577.13
985-A10018A100			100	71	344.55
985-A10018A120			120	91	370.40
985-A10018A160			160	131	404.85
985-A10018A200	20	33	200	171	465.15
985-A10018A250			250	221	577.13
985-A10020A105	20	33	105	76	344.55
985-A10020A120			120	91	370.40
985-A10020A160			160	131	404.85
985-A10020A200			200	171	465.15
985-A10020A250	25	44	250	221	577.13
985-A10025A115			115	86	370.40
985-A10025A160	25	44	160	131	404.85
985-A10025A200			200	171	465.15
985-A10032A120			120	91	370.40
985-A10032A160	32	44	160	131	404.85

Series- 985

HSK-A100 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adj. Screw



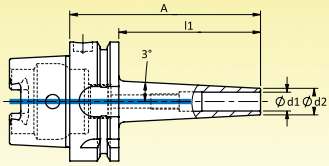
Product Order Number	d1	d2	A	l1	SPECIAL
985-A10006A329S	6	21	329	300	938.91
985-A10008A329S	8	21	329	300	938.91
985-A10010A329S	10	24	329	300	938.91
985-A10012A329S	12	24	329	300	938.91
985-A10016A329S	16	27	329	300	938.91
985-A10020A329S	20	33	329	300	938.91
985-A10025A329S	25	44	329	300	938.91

180 Metric and 103 Inch HSK-A100
ShrinkFit Tools Available

HSK-A100 ShrinkFit METRIC

Series- 925

HSK-A100 ShrinkFit Chuck
Extra Slim Execution 3°

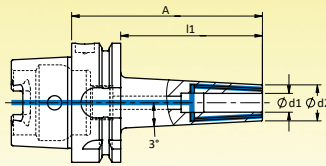


Product Order Number	d1	d2	A	l1	SPECIAL
925-A10004100	4	8	129	100	625.37
925-A10004150			179	150	685.66
925-A1000675	6	10	104	75	508.22
925-A10006100			129	100	551.29
925-A10006150			179	150	628.81
925-A10006200	8	12	229	200	758.02
925-A10008100			129	100	551.29
925-A10008150			179	150	628.81
925-A10008200			229	200	758.02
925-A10010100	10	14	129	100	551.29
925-A10010150			179	150	628.81
925-A10010200			229	200	758.02
925-A10012100	12	16	129	100	551.29
925-A10012150			179	150	628.81
925-A10012200			229	200	758.02

HSK-A100 ShrinkFit METRIC

Series- 996

HSK-A100 ShrinkFit Chuck
Slim Execution 3°
w/3 Cooling Jets Ø 1mm

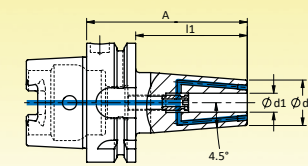


Product Order Number	d1	d2	A	l1	SPECIAL
996-A10004100	4	11	129	100	525.44
996-A10004150			179	150	602.97
996-A10004200			229	200	697.72
996-A10006100	6	15	129	100	499.61
996-A10006150			179	150	559.90
996-A10006200			229	200	646.04
996-A10008100	8	17	129	100	499.61
996-A10008150			179	150	559.90
996-A10008200			229	200	646.04
996-A10010100	10	19	129	100	499.61
996-A10010150			179	150	559.90
996-A10010200			229	200	646.04

HSK-A100 ShrinkFit METRIC

Series- 995

HSK-A100 ShrinkFit Chuck
Standard Execution 4.5°
w/Closable Cooling Jets
w/Length Adjusting Screw



Product Order Number	d1	d2	A	l1	SPECIAL
995-A10006A85	6	21	85	56	396.23
995-A10006A120			120	91	439.31
995-A10006A160			160	131	473.76
995-A10006A200	8	21	200	171	534.06
995-A10008A85			85	56	396.23
995-A10008A120			120	91	439.31
995-A10008A160	8	21	160	131	473.76
995-A10008A200			200	171	534.06
995-A10010A90			90	61	396.23
995-A10010A120	10	24	120	91	439.31
995-A10010A160			160	131	473.76
995-A10010A200			200	171	534.06
995-A10012A95	12	24	95	66	396.23
995-A10012A120			120	91	439.31
995-A10012A160			160	131	473.76
995-A10012A200	14	27	200	171	534.06
995-A10014A95			95	66	396.23
995-A10014A120			120	91	439.31
995-A10014A160	14	27	160	131	473.76
995-A10014A200			200	171	534.06
995-A10016A100			100	71	396.23
995-A10016A120	16	27	120	91	439.31
995-A10016A160			160	131	473.76
995-A10016A200			200	171	534.06
995-A10018A100	18	33	100	71	439.31
995-A10018A160			160	131	473.76
995-A10020A120			120	91	439.31
995-A10020A160	20	33	160	131	473.76
995-A10020A200			200	171	534.06
995-A10025A115			115	86	439.31
995-A10025A160	25	44	160	131	473.76

Induktherm Rapid Shrink

Induction Unit 600 volt / 10kW
with Tool Elevator & Coolant Tank

CDN Certified ShrinkFit Units

- Heating times between 3 to 9 seconds
- Cooling times between 15 to 50 seconds
- Tool Capacity: Carbide 1/8" to 1.1/4"
HSS 1/4" to 1.1/4"

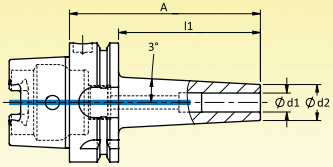
Induction Shrink Technology in a few easy steps



HSK-A100 ShrinkFit METRIC

Series- 915

HSK-A100 ShrinkFit Chuck
Slim Execution 3°

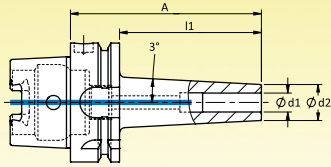


Product Order Number	d1	d2	A	l1	SPECIAL
915-A10003100	3	11	129	100	508.22
915-A10003150			179	150	577.13
915-A10003200			229	200	577.13
915-A1000450	4	11	79	50	353.17
915-A1000475			104	75	379.01
915-A10004100			129	100	404.85
915-A10004150	4	11	179	150	473.76
915-A10004200			229	200	577.13
915-A10005100			129	100	439.31
915-A10005150	5	13	179	150	473.76
915-A1000658	6	15	87	58	327.32
915-A1000675			104	75	353.17
915-A10006100			129	100	379.01
915-A10006150	6	15	179	150	439.31
915-A10006200			229	200	525.44
915-A10006300			329	300	835.54
915-A1000858	8	17	87	58	327.32
915-A1000875			104	75	353.17
915-A10008100			129	100	379.01
915-A10008150	8	17	179	150	439.31
915-A10008200			229	200	525.44
915-A10008300			329	300	835.54
915-A1001050	10	19	79	50	327.32
915-A1001075			104	75	353.17
915-A10010100			129	100	379.01
915-A10010150	10	19	179	150	439.31
915-A10010200			229	200	525.44
915-A10010300			329	300	835.54
915-A1001250	12	22	79	50	327.32
915-A1001275			104	75	353.17
915-A10012100			129	100	379.01
915-A10012150	12	22	179	150	439.31
915-A10012200			229	200	525.44
915-A10012300			329	300	835.54

HSK-A100 ShrinkFit METRIC

Series- 915

HSK-A100 ShrinkFit Chuck
Slim Execution 3°



Product Order Number	d1	d2	A	l1	SPECIAL
915-A1001450	14	24	79	50	327.32
915-A1001475			104	75	353.17
915-A10014100			129	100	379.01
915-A10014150	14	24	179	150	439.31
915-A10014200			229	200	525.44
915-A10014300			329	300	835.54
915-A1001660	16	27	89	60	353.17
915-A1001675			104	75	353.17
915-A10016100			129	100	379.01
915-A10016150	16	27	179	150	439.31
915-A10016200			229	200	525.44
915-A10016300			329	300	835.54
915-A1001865	18	30	94	65	353.17
915-A1001875			104	75	353.17
915-A10018100			129	100	379.01
915-A10018150	18	30	179	150	439.31
915-A10018200			229	200	525.44
915-A10018300			329	300	835.54
915-A1002065	20	33	94	65	353.17
915-A1002075			104	75	353.17
915-A10020100			129	100	379.01
915-A10020150	20	33	179	150	439.31
915-A10020200			229	200	525.44
915-A10020300			329	300	835.54
915-A1002575	25	44	104	75	353.17
915-A10025100			129	100	379.01
915-A10025150			179	150	439.31

Height Adjustment Tool

The ideal tool to set your cutter height when preparing your tool assemblies



Order Number	Range	SPECIAL
990-395	1/8 - 5/8	171.11
990-393	5/16 - 1.00	221.57

Coolant Tubes & Wrenches For HSK Tooling

TAPER HSK Arbour	Coolant Tube		Wrench	
	Order #	SPECIAL	Order #	SPECIAL
HSK-A32	951-A32	15.95	952-A32	54.27
HSK-A40	951-A40	15.95	952-A40	54.27
HSK-A50	951-A50	16.95	952-A50	54.27
HSK-A63	951-A63	17.95	952-A63	56.54
HSK-A80	951-A80	18.95	952-A80	74.63
HSK-A100	951-A100	19.95	952-A100	79.29

Induction Shrink Technology in a few easy steps

Tool Capacity:

- Carbide 1/8" - 1.1/4"
- HSS 1/4" - 1.1/4"

Certified to CDN
Electrical Standards



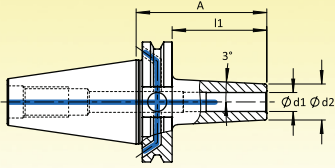
Induktherm Rapid Shrink

Induction Unit 600 volt / 10kW

CAT40 ShrinkFit INCH

Series- 945Z

CAT40 ShrinkFit Chuck
Slim Execution 3°

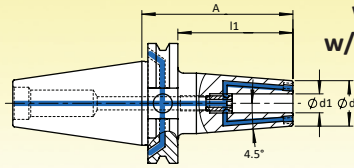


Product Order Number	d1	d2	A	l1	SPECIAL
945Z-CAT40-1/8-2.95	1/8	.43	3.70	2.95	239.11
945Z-CAT40-1/8-3.94			4.69	3.94	252.48
945Z-CAT40-1/8-5.91			6.66	5.91	359.50
945Z-CAT40-1/8-7.87			8.62	7.87	443.10
945Z-CAT40-3/16-2.95			3/16	.51	3.70
945Z-CAT40-3/16-3.94	4.69	3.94			252.48
945Z-CAT40-3/16-5.91	6.66	5.91			359.50
945Z-CAT40-1/4-2.95	1/4	.59	3.70	2.95	205.67
945Z-CAT40-1/4-3.94			4.69	3.94	219.05
945Z-CAT40-1/4-5.91			6.66	5.91	326.06
945Z-CAT40-1/4-7.87			8.62	7.87	409.66
945Z-CAT40-5/16-2.95	5/16	.67	3.70	2.95	205.67
945Z-CAT40-5/16-3.94			4.69	3.94	219.05
945Z-CAT40-5/16-5.91			6.66	5.91	326.06
945Z-CAT40-3/8-2.95	3/8	.75	3.70	2.95	205.67
945Z-CAT40-3/8-3.94			4.69	3.94	219.05
945Z-CAT40-3/8-5.91			6.66	5.91	326.06
945Z-CAT40-1/2-2.95	1/2	.87	3.70	2.95	205.67
945Z-CAT40-1/2-3.94			4.69	3.94	219.05
945Z-CAT40-1/2-5.91			6.66	5.91	326.06

CAT40 ShrinkFit INCH

Series- 995Z

CAT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Closable Cooling Jets
w/Length Adjusting Screw

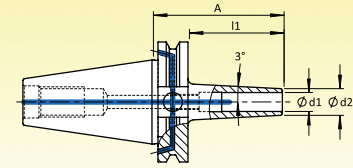


Product Order Number	d1	d2	A	l1	SPECIAL
995Z-CAT40-1/8-A3.15	1/8	.43	3.15	2.40	282.58
995Z-CAT40-3/16-A3.15	3/16	.55	3.15	2.40	282.58
995Z-CAT40-1/4-A3.15	1/4	.83	3.15	2.40	240.77
995Z-CAT40-1/4-A4.72			4.72	3.97	262.52
995Z-CAT40-5/16-A3.15	5/16	.83	3.15	2.40	240.77
995Z-CAT40-5/16-A4.72			4.72	3.97	262.52
995Z-CAT40-3/8-A3.15	3/8	.94	3.15	2.40	240.77
995Z-CAT40-3/8-A4.72			4.72	3.97	262.52
995Z-CAT40-7/16-A3.15	7/16	.94	3.15	2.40	240.77
995Z-CAT40-7/16-A4.72			4.72	3.97	262.52
995Z-CAT40-1/2-A3.15	1/2	.94	3.15	2.40	240.77
995Z-CAT40-1/2-A4.72			4.72	3.97	262.52
995Z-CAT40-5/8-A3.15	5/8	1.06	3.15	2.40	240.77
995Z-CAT40-5/8-A4.72			4.72	3.97	262.52
995Z-CAT40-3/4-A3.15	3/4	1.30	3.15	2.40	240.77
995Z-CAT40-3/4-A4.72			4.72	3.97	262.52
995Z-CAT40-7/8-A3.15	7/8	1.30	3.15	2.40	240.77
995Z-CAT40-7/8-A4.72			4.72	3.97	262.52
995Z-CAT40-1-A3.94	1	1.73	3.94	3.19	262.52

CAT40 ShrinkFit INCH

Series- 925Z

CAT40 ShrinkFit Chuck
Extra Slim Execution - 3°



Product Order Number	d1	d2	A	l1	SPECIAL
925Z-CAT40-1/8-2.95	1/8	.28	3.70	2.95	284.25
925Z-CAT40-1/8-3.94			4.96	3.94	300.98
925Z-CAT40-3/16-2.95	3/16	.35	3.70	2.95	284.25
925Z-CAT40-3/16-3.94			4.96	3.94	300.98
925Z-CAT40-1/4-2.95	1/4	.39	3.70	2.95	242.45
925Z-CAT40-1/4-3.94			4.96	3.94	259.17
925Z-CAT40-5/16-2.95	5/16	.47	3.70	2.95	242.45
925Z-CAT40-5/16-3.94			4.96	3.94	259.17
925Z-CAT40-3/8-2.95	3/8	.55	3.70	2.95	242.45
925Z-CAT40-3/8-3.94			4.96	3.94	259.17

Height Adjustment Tool

The ideal tool to set your cutter height when preparing your tool assemblies

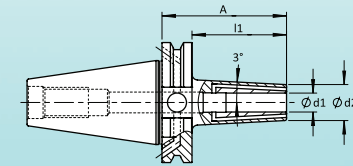


Order Number	Range	SPECIAL
990-395	1/8 - 5/8	187.46
990-393	5/16 - 1.00	221.57

21 Metric and 101 Inch
CAT40 ShrinkFit
Tools Available

Series- 996Z

CAT40 ShrinkFit Chuck
Slim Execution 3°
w/3 Cooling Jets Ø 1mm

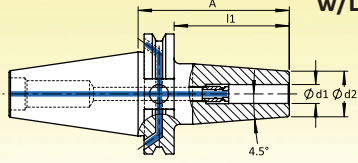


Product Order Number	d1	d2	A	l1	SPECIAL
996Z-CAT40-1/8-2.95	1/8	.43	3.70	2.95	326.05
996Z-CAT40-1/8-3.94			4.69	3.94	342.77
996Z-CAT40-3/16-2.95	3/16	.51	3.70	2.95	326.05
996Z-CAT40-3/16-3.94			4.69	3.94	342.77
996Z-CAT40-1/4-2.95	1/4	.59	3.70	2.95	284.25
996Z-CAT40-1/4-3.94			4.69	3.94	300.97
996Z-CAT40-5/16-2.95	5/16	.67	3.70	2.95	284.25
996Z-CAT40-5/16-3.94			4.69	3.94	300.97
996Z-CAT40-3/8-2.95	3/8	.75	3.70	2.95	284.25
996Z-CAT40-3/8-3.94			4.69	3.94	300.97

CAT40 ShrinkFit INCH

Series- 985Z

CAT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw



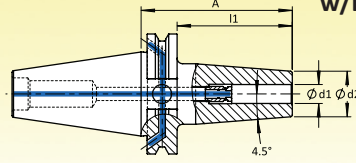
Product Order Number	d1	d2	A	l1	SPECIAL
985Z-CAT40-1/8-A3.15	1/8	.43	3.15	2.40	232.42
985Z-CAT40-1/8-A4.72			4.72	3.97	254.15
985Z-CAT40-3/16-A3.15	3/16	.55	3.15	2.40	232.42
985Z-CAT40-3/16-A4.72			4.72	3.97	254.15
985Z-CAT40-1/4-A3.15	1/4	.83	3.15	2.40	190.61
985Z-CAT40-1/4-A4.72			4.72	3.97	212.35
985Z-CAT40-1/4-A5.12			5.12	4.37	223.74
985Z-CAT40-1/4-A6.30			6.30	5.55	265.85
985Z-CAT40-5/16-A3.15	5/16	.83	3.15	2.40	190.61
985Z-CAT40-5/16-A4.72			4.72	3.97	212.35
985Z-CAT40-5/16-A5.12			5.12	4.37	223.74
985Z-CAT40-5/16-A6.30			6.30	5.55	265.85
985Z-CAT40-3/8-A3.15	3/8	.94	3.15	2.40	190.61
985Z-CAT40-3/8-A4.72			4.72	3.97	212.35
985Z-CAT40-3/8-A5.12			5.12	4.37	223.74
985Z-CAT40-3/8-A6.30			6.30	5.55	265.85
985Z-CAT40-7/16-A3.15	7/16	.94	3.15	2.40	190.61
985Z-CAT40-7/16-A4.72			4.72	3.97	212.35
985Z-CAT40-7/16-A5.12			5.12	4.37	223.74
985Z-CAT40-7/16-A6.30			6.30	5.55	265.85
985Z-CAT40-1/2-A3.15	1/2	.94	3.15	2.40	190.61
985Z-CAT40-1/2-A4.72			4.72	3.97	212.35
985Z-CAT40-1/2-A5.12			5.12	4.37	223.74
985Z-CAT40-1/2-A6.30			6.30	5.55	265.85

Need Metric tools?
We have over 1,950
Metric Tools Available

CAT40 ShrinkFit INCH

Series- 985Z

CAT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw



Product Order Number	d1	d2	A	l1	SPECIAL
985Z-CAT40-5/8-A3.15	5/8	1.06	3.15	2.40	190.61
985Z-CAT40-5/8-A4.72			4.72	3.97	212.35
985Z-CAT40-5/8-A5.12			5.12	4.37	223.74
985Z-CAT40-5/8-A6.30			6.30	5.55	265.85
985Z-CAT40-3/4-A3.15	3/4	1.30	3.15	2.40	190.61
985Z-CAT40-3/4-A4.72			4.72	3.97	212.35
985Z-CAT40-3/4-A5.12			5.12	4.37	223.74
985Z-CAT40-3/4-A6.30			6.30	5.55	265.85
985Z-CAT40-7/8-A3.15	7/8	1.30	3.15	2.40	190.61
985Z-CAT40-7/8-A4.72			4.72	3.97	212.35
985Z-CAT40-7/8-A6.30			6.30	5.55	265.85
985Z-CAT40-1-A3.94	1	1.73	3.94	3.19	200.65
985Z-CAT40-1-A4.72			4.72	3.66	212.35
985Z-CAT40-1-A5.12			5.12	4.37	223.74
985Z-CAT40-1-A6.30			6.30	5.55	265.85
985Z-CAT40-1.1/4-A3.94	1.1/4	1.73	3.94	3.19	200.65
985Z-CAT40-1.1/4-A4.72			4.72	3.66	212.35
985Z-CAT40-1.1/4-A6.30			6.30	5.55	265.85

Height Adjustment Tool

The ideal tool to set your cutter
height when preparing your tool
assemblies

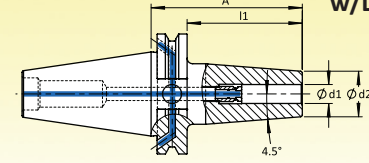


Order Number	Range	SPECIAL
990-395	1/8 - 5/8	187.46
990-393	5/16 - 1.00	221.57

CAT40 ShrinkFit METRIC

Series- 985

CAT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw



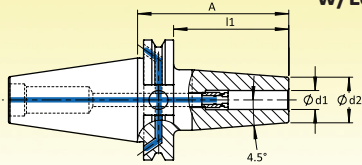
Product Order Number	d1	d2	A	l1	SPECIAL
985-CAT4006A80	6	21	80	60.9	190.61
985-CAT4006A120			120	100.9	212.36
985-CAT4006A130			130	110.9	223.74
985-CAT4008A80	8	21	80	60.9	190.61
985-CAT4008A120			120	100.9	212.35
985-CAT4008A130			130	110.9	223.74
985-CAT4010A80	10	24	80	60.9	190.61
985-CAT4010A120			120	100.9	212.35
985-CAT4010A130			130	110.9	223.74
985-CAT4012A80	12	24	80	60.9	190.61
985-CAT4012A120			120	100.9	212.35
985-CAT4012A130			130	110.9	223.74
985-CAT4016A80	16	27	80	60.9	190.61
985-CAT4016A120			120	100.9	212.35
985-CAT4016A130			130	110.9	223.74
985-CAT4020A80	20	33	80	60.9	190.61
985-CAT4020A120			120	100.9	212.35
985-CAT4020A130			130	110.9	223.74
985-CAT4025A100	25	44	100	80.9	200.65
985-CAT4025A130			130	110.9	223.74
985-CAT4032A100	32	44	100	80.9	200.65

21 Metric and 101 Inch
CAT40 ShrinkFit
Tools Available

CAT50 ShrinkFit INCH

Series- 985Z

CAT50 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw

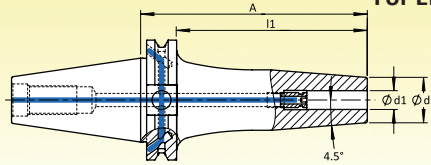


Product Order Number	d1	d2	A	l1	SPECIAL
985Z-CAT50-1/4-A3.15	1/4	.83	3.15	2.40	327.50
985Z-CAT50-1/4-A4.72			4.72	3.97	356.48
985Z-CAT50-1/4-A6.30			6.30	5.55	409.16
985Z-CAT50-1/4-A7.87			7.87	7.12	458.33
985Z-CAT50-5/16-A3.15			5/16	.83	3.15
985Z-CAT50-5/16-A4.72	4.72	3.97			356.48
985Z-CAT50-5/16-A6.30	6.30	5.55			409.16
985Z-CAT50-3/8-A3.15	3/8	.94	3.15	2.40	327.50
985Z-CAT50-3/8-A4.72			4.72	3.97	356.48
985Z-CAT50-3/8-A6.30			6.30	5.55	409.16
985Z-CAT50-3/8-A7.87			7.87	7.12	458.33
985Z-CAT50-1/2-A3.15	1/2	.94	3.15	2.40	327.50
985Z-CAT50-1/2-A4.72			4.72	3.97	356.48
985Z-CAT50-1/2-A6.30			6.30	5.55	409.16
985Z-CAT50-1/2-A7.87			7.87	7.12	458.33
985Z-CAT50-5/8-A3.15			5/8	1.06	3.15
985Z-CAT50-5/8-A4.72	4.72	3.97			356.48
985Z-CAT50-5/8-A6.30	6.30	5.55			409.16
985Z-CAT50-5/8-A7.87	7.87	7.12			458.33
985Z-CAT50-3/4-A3.15	3/4	1.30	3.15	2.40	327.50
985Z-CAT50-3/4-A4.72			4.72	3.97	356.48
985Z-CAT50-3/4-A6.30			6.30	5.55	409.16
985Z-CAT50-3/4-A7.87			7.87	7.12	458.33
985Z-CAT50-1-A3.94	1	1.73	3.94	3.19	338.92
985Z-CAT50-1-A4.72			4.72	3.97	356.48
985Z-CAT50-1-A6.30			6.30	5.55	409.16
985Z-CAT50-1.1/4-A3.94	1.1/4	1.73	3.94	3.19	338.92
985Z-CAT50-1.1/4-A4.72			4.72	3.97	356.48
985Z-CAT50-1.1/4-A6.30			6.30	5.55	409.16

CAT50 ShrinkFit INCH

Series- 984Z

CAT50 ShrinkFit Chuck Standard 4.5°
Tapered Extension w/Large Rad. Design
For Enhanced Rigidity

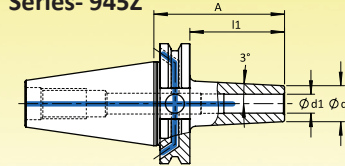


Product Order Number	d1	d2	A	l1	SPECIAL
984Z-CAT50-1/4-A5.12	1/4	.83	5.12	4.37	375.46
984Z-CAT50-1/4-A6.30			6.30	5.55	409.16
984Z-CAT50-1/4-A7.87			7.87	7.12	458.33
984Z-CAT50-5/16-A5.12			5/16	.83	5.12
984Z-CAT50-5/16-A6.30	6.30	5.55			409.16
984Z-CAT50-5/16-A7.87	7.87	7.12			458.33
984Z-CAT50-3/8-A5.12	3/8	.94	5.12	4.37	375.46
984Z-CAT50-3/8-A6.30			6.30	5.55	409.16
984Z-CAT50-3/8-A7.87			7.87	7.12	458.33
984Z-CAT50-7/16-A5.12			7/16	.94	5.12
984Z-CAT50-1/2-A5.12	5.12	4.37			375.46
984Z-CAT50-1/2-A6.30	1/2	.94	6.30	5.55	409.16
984Z-CAT50-1/2-A7.87			7.87	7.12	458.33
984Z-CAT50-5/8-A5.12	5/8	1.06	5.12	4.37	375.46
984Z-CAT50-5/8-A6.30			6.30	5.55	409.16
984Z-CAT50-5/8-A7.87			7.87	7.12	458.33
984Z-CAT50-3/4-A5.12			3/4	1.30	5.12
984Z-CAT50-3/4-A6.30	6.30	5.55			409.16
984Z-CAT50-3/4-A7.87	7.87	7.12			458.33
984Z-CAT50-1-A5.12	1	1.73	5.12	4.37	375.46
984Z-CAT50-1-A6.30			6.30	5.55	409.16
984Z-CAT50-1-A7.87			7.87	7.12	458.33
984Z-CAT50-1.1/4-A5.12			1.1/4	1.73	5.12
984Z-CAT50-1.1/4-A6.30	6.30	5.55			409.16
984Z-CAT50-1.1/4-A7.87	7.87	7.12			458.33

CAT50 ShrinkFit INCH

Series- 945Z

CAT50 ShrinkFit Chuck
Slim Execution 3°

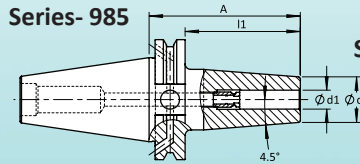


Product Order Number	d1	d2	A	l1	SPECIAL
945Z-CAT50-1/8-5.91	1/8	.43	6.66	5.91	566.23
945Z-CAT50-1/4-3.94	1/4	.59	4.69	3.94	403.89
945Z-CAT50-1/4-5.91			6.66	5.91	465.35
945Z-CAT50-1/4-7.87			8.62	7.87	535.60
945Z-CAT50-5/16-3.94	5/16	.67	4.69	3.94	403.89
945Z-CAT50-5/16-5.91			6.66	5.91	465.35
945Z-CAT50-5/16-7.87			8.62	7.87	535.60
945Z-CAT50-3/8-3.94	3/8	.75	4.69	3.94	403.89
945Z-CAT50-3/8-5.91			6.66	5.91	465.35
945Z-CAT50-3/8-7.87			8.62	7.87	535.60
945Z-CAT50-1/2-3.94	1/2	.87	4.69	3.94	403.89
945Z-CAT50-1/2-5.91			6.66	5.91	465.35
945Z-CAT50-1/2-7.87			8.62	7.87	535.60

CAT50 ShrinkFit METRIC

Series- 985

CAT50 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adj. Screw



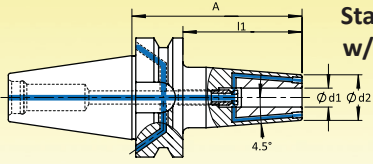
Product Order Number	d1	d2	A	l1	SPECIAL
985-CAT5006A80	6	21	80	60.9	327.50
985-CAT5006A120			120	100.9	356.48
985-CAT5008A80	8	21	80	60.9	327.50
985-CAT5008A120			120	100.9	356.48
985-CAT5010A80	10	24	80	60.9	327.50
985-CAT5010A120			120	100.9	356.48
985-CAT5012A80	12	24	80	60.9	327.50
985-CAT5012A120			120	100.9	356.48
985-CAT5016A80	16	27	80	60.9	327.50
985-CAT5016A120			120	100.9	356.48
985-CAT5020A80	20	33	80	60.9	327.50
985-CAT5020A120			120	100.9	356.48
985-CAT5025A100	25	44	100	80.9	338.92
985-CAT5025A120			120	100.9	356.48
985-CAT5032A100	32	44	100	80.9	338.92
985-CAT5032A120			120	100.9	356.48

16 Metric and 67 Inch CAT50
ShrinkFit Tools Available

BT40 ShrinkFit INCH

Series- 995Z

BT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Closable Cooling Jets
w/Length Adj. Screw

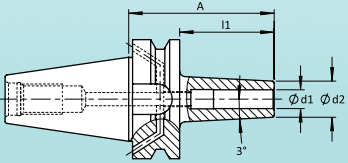


Product Order Number	d1	d2	A	l1	SPECIAL
995Z-BT40-1/4-A3.54	1/4	.83	3.54	2.48	252.48
995Z-BT40-1/4-A5.12			5.12	4.06	288.40
995Z-BT40-5/16-A3.54	5/16	.83	3.54	2.48	252.48
995Z-BT40-5/16-A5.12			5.12	4.06	288.40
995Z-BT40-3/8-A3.54	3/8	.94	3.54	2.48	252.48
995Z-BT40-3/8-A5.12			5.12	4.06	288.40
995Z-BT40-1/2-A3.54	1/2	.94	3.54	2.48	252.48
995Z-BT40-1/2-A5.12			5.12	4.06	288.40
995Z-BT40-5/8-A3.54	5/8	1.06	3.54	2.48	252.48
995Z-BT40-5/8-A5.12			5.12	4.06	288.40
995Z-BT40-3/4-A3.54	3/4	1.30	3.54	2.48	252.48
995Z-BT40-3/4-A5.12			5.12	4.06	288.40

BT40 ShrinkFit INCH

Series- 945Z

BT40 ShrinkFit Chuck
Slim Execution 3°

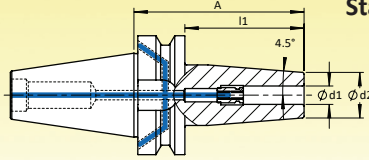


Product Order Number	d1	d2	A	l1	SPECIAL
945Z-BT40-1/8-2.95	1/8	.43	4.02	2.95	244.44
945Z-BT40-1/8-3.94			5.00	3.94	262.76
945Z-BT40-3/16-2.95	3/16	.51	4.02	2.95	244.44
945Z-BT40-3/16-3.94			5.00	3.94	262.76
945Z-BT40-1/4-2.95	1/4	.59	4.02	2.95	211.00
945Z-BT40-1/4-3.94			5.00	3.94	229.31
945Z-BT40-1/4-5.91	1/4	.59	6.97	5.91	317.69
945Z-BT40-5/16-2.95			4.02	2.95	211.00
945Z-BT40-5/16-3.94	5/16	.67	5.00	3.94	229.31
945Z-BT40-5/16-5.91			6.97	5.91	317.69
945Z-BT40-3/8-2.95	3/8	.75	4.02	2.95	211.00
945Z-BT40-3/8-3.94			5.00	3.94	229.31
945Z-BT40-3/8-5.91	3/8	.75	6.97	5.91	317.69

BT40 ShrinkFit INCH

Series- 985Z

BT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adj. Screw

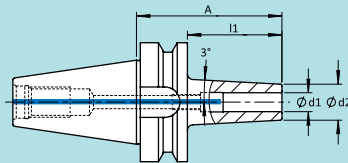


Product Order Number	d1	d2	A	l1	SPECIAL
985Z-BT40-1/8-A3.15	1/8	.43	3.15	2.09	244.12
985Z-BT40-3/16-A3.15	3/16	.55	3.15	2.09	244.12
985Z-BT40-1/4-A3.54	1/4	.83	3.54	2.48	202.32
985Z-BT40-1/4-A5.12			5.12	4.06	223.74
985Z-BT40-5/16-A3.54	5/16	.83	3.54	2.48	202.32
985Z-BT40-5/16-A5.12			5.12	4.06	223.74
985Z-BT40-3/8-A3.54	3/8	.94	3.54	2.48	202.32
985Z-BT40-3/8-A5.12			5.12	4.06	223.74
985Z-BT40-1/2-A3.54	1/2	.94	3.54	2.48	202.32
985Z-BT40-1/2-A5.12			5.12	4.06	223.74
985Z-BT40-5/8-A3.54	5/8	1.06	3.54	2.48	202.32
985Z-BT40-5/8-A5.12			5.12	4.06	223.74
985Z-BT40-3/4-A3.54	3/4	1.30	3.54	2.48	202.32
985Z-BT40-3/4-A5.12			5.12	4.06	223.74
985Z-BT40-1-A3.94	1	1.73	3.94	2.87	214.02
985Z-BT40-1-A5.12			5.12	4.06	223.74
985Z-BT40-1.1/4-A3.94	1.1/4	1.73	3.94	2.87	214.02
985Z-BT40-1.1/4-A5.12			5.12	4.06	223.74

BT40 ShrinkFit METRIC

Series- 915

BT40 ShrinkFit Chuck
Slim Execution 3°



Product Order Number	d1	d2	A	l1	SPECIAL
915-BT400350	3	11.00	77	50	225.73
915-BT400375			102	75	242.45
915-BT4003100	3	11.00	127	100	259.17
915-BT4003150			177	150	367.85
915-BT4003200	3	11.00	227	200	434.73
915-BT400450			77	50	225.73
915-BT400475	4	11.00	102	75	242.45
915-BT4004100			127	100	259.17

BT40 ShrinkFit METRIC

Series- 915
...continued

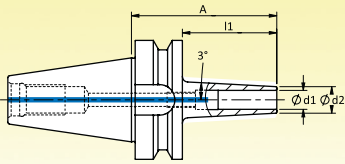
BT40 ShrinkFit Chuck
Slim Execution 3°

Product Order Number	d1	d2	A	l1	SPECIAL
915-BT4004150	4	11.00	177	150	367.85
915-BT4004200			227	200	434.73
915-BT400550	5	13.00	77	50	225.73
915-BT400575			102	75	242.45
915-BT4005100	5	13.00	127	100	259.17
915-BT400650			77	50	190.61
915-BT400675	6	15.00	102	75	198.98
915-BT4006100			127	100	210.68
915-BT4006150	6	15.00	177	150	317.69
915-BT4006200			227	200	401.30
915-BT400850	8	17.00	77	50	190.61
915-BT400875			102	75	198.98
915-BT4008100	8	17.00	127	100	210.68
915-BT4008150			177	150	317.69
915-BT4008200	8	17.00	227	200	401.30
915-BT401050			77	50	190.61
915-BT401075	10	19.00	102	75	198.98
915-BT4010100			127	100	210.68
915-BT4010150	10	19.00	177	150	317.69
915-BT4010200			227	200	401.30
915-BT401250	12	22.00	77	50	190.61
915-BT401275			102	75	198.98
915-BT4012100	12	22.00	127	100	210.68
915-BT4012150			177	150	317.69
915-BT4012200	12	22.00	227	200	401.30
915-BT401450			77	50	200.65
915-BT401475	14	24.00	102	75	209.00
915-BT4014100			127	100	225.73
915-BT4014150	14	24.00	177	150	334.41
915-BT401650			77	50	190.61
915-BT401660	16	27.00	87	60	198.98
915-BT401675			102	75	198.98
915-BT4016100	16	27.00	127	100	210.68
915-BT4016150			177	150	317.69
915-BT401850	18	30.00	77	50	200.65
915-BT4018100			127	100	225.73
915-BT402050	20	33.00	77	50	198.98
915-BT4020100			127	100	210.68
915-BT4020150	20	33.00	177	150	317.69
915-BT402560			87	60	210.68
915-BT4025100	25	44.00	127	100	210.68

BT40 ShrinkFit METRIC

Series- 925

BT40 ShrinkFit Chuck
Extra Slim Execution 3°

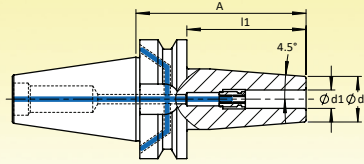


Product Order Number	d1	d2	A	l1	SPECIAL		
925-BT400375	3	7.00	102	75	259.17		
925-BT4003100			127	100	275.89		
925-BT400475	4	8.00	102	75	259.17		
925-BT4004100			127	100	275.89		
925-BT4004150			177	150	384.57		
925-BT400650	6	10.00	77	50	207.34		
925-BT400675			102	75	215.69		
925-BT4006100			127	100	227.40		
925-BT4006150			177	150	334.41		
925-BT4006200			227	200	418.01		
925-BT400850	8	12.00	77	50	207.34		
925-BT400875			102	75	215.69		
925-BT4008100			127	100	227.40		
925-BT4008150			177	150	334.41		
925-BT4008200			227	200	418.01		
925-BT401050	10	14.00	77	50	207.34		
925-BT401075			102	75	215.69		
925-BT4010100			127	100	227.40		
925-BT4010150			177	150	334.41		
925-BT4010200			227	200	418.01		
925-BT401250			12	16.00	77	50	207.34
925-BT401275	102	75			215.69		
925-BT4012100	127	100			227.40		
925-BT4012150	177	150			334.41		
925-BT4012200	227	200			418.01		
925-BT401675	16	22.00			102	75	215.69

BT40 ShrinkFit METRIC

Series- 985

BT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adj. Screw

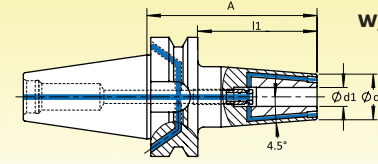


Product Order Number	d1	d2	A	l1	SPECIAL
985-BT4003A80	3	11.00	80	53	244.12
985-BT4004A80	4	14.00	80	53	244.12
985-BT4005A80	5	16.00	80	53	244.12
985-BT4006A90	6	21.00	90	63	202.32
985-BT4006A120			120	93	234.09
985-BT4006A160			160	133	270.87
985-BT4008A90	8	21.00	90	63	202.32
985-BT4008A120			120	93	234.09
985-BT4008A160			160	133	270.87
985-BT4010A90	10	24.00	90	63	202.32
985-BT4010A120			120	93	234.09
985-BT4010A160			160	133	270.87
985-BT4012A90	12	24.00	90	63	202.32
985-BT4012A120			120	93	234.09
985-BT4012A160			160	133	270.87
985-BT4014A90	14	27.00	90	63	202.32
985-BT4014A120			120	93	234.09
985-BT4016A90			16	27.00	90
985-BT4016A120	120	93			234.09
985-BT4016A160	160	133			270.87
985-BT4018A90	18	33.00	90	63	202.32
985-BT4018A120			120	93	234.09
985-BT4020A90	20	33.00	90	63	202.32
985-BT4020A120			120	93	234.09
985-BT4020A160			160	133	270.87
985-BT4025A100	25	44.00	100	73	214.02
985-BT4025A160			160	133	270.87
985-BT4032A100	32	44.00	100	73	214.02
985-BT4032A160			160	133	270.87

BT40 ShrinkFit METRIC

Series- 995

BT40 ShrinkFit Chuck
Standard Execution 4.5°
w/Closable Cooling Jets
w/Length Adj. Screw



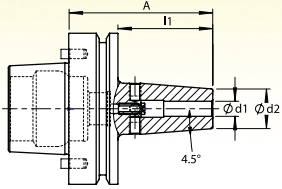
Product Order Number	d1	d2	A	l1	SPECIAL
995-BT4006A90	6	21.00	90	63	252.48
995-BT4006A120			120	93	284.25
995-BT4006A160			160	133	351.13
995-BT4008A90	8	21.00	90	63	252.48
995-BT4008A120			120	93	284.25
995-BT4008A160			160	133	351.13
995-BT4010A90	10	24.00	90	63	252.48
995-BT4010A120			120	93	284.25
995-BT4010A160			160	133	351.13
995-BT4012A90	12	24.00	90	63	252.48
995-BT4012A120			120	93	284.25
995-BT4012A160			160	133	351.13
995-BT4014A90	14	27.00	90	63	275.89
995-BT4016A90	16	27.00	90	63	252.48
995-BT4016A120			120	93	284.25
995-BT4016A160			160	133	351.13
995-BT4020A90	20	33.00	90	63	252.48
995-BT4020A120			120	93	284.25
995-BT4025A100	25	44.00	100	73	284.25

**BT30 & BT40 tools also available
in Metric with Face Contact**

HSK-F80 Makino MAG INCH

Rineck now offers the HSK-F80 Makino style holder with pins for the Makino MAG machining centres designed for high Productivity machining of Aluminum in the Aerospace Industry. These are now offered in all standard sizes and lengths, inch & metric.

Series- 985Z

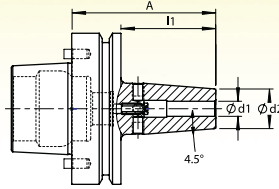


HSK-F80 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw
w/pins for MAKINO MAG

Product Order Number	d1	d2	A	l1	SPECIAL
985Z-F80M-1/4-A3.00	1/4	.83	3.00	1.98	352.79
985Z-F80M-5/16-A3.00	5/16	.83	3.00	1.98	352.79
985Z-F80M-3/8-A3.00	3/8	1.00	3.00	1.98	352.79
985Z-F80M-7/16-A3.00	7/16	1.02	3.00	1.98	352.79
985Z-F80M-1/2-A3.00	1/2	1.02	3.00	1.98	352.79
985Z-F80M-1/2-A6.00			6.00	4.98	488.01
985Z-F80M-5/8-A3.00	5/8	1.14	3.00	1.98	352.79
985Z-F80M-3/4-A2.75	3/4	1.38	2.75	1.73	352.79
985Z-F80M-3/4-A3.00			3.00	1.98	352.79
985Z-F80M-3/4-A4.00			4.00	2.98	375.99
985Z-F80M-1-A2.75	1	1.81	2.75	1.73	352.79
985Z-F80M-1-A3.00			3.00	1.98	352.79
985Z-F80M-1-A6.30			6.30	5.28	488.01
985Z-F80M-1.1/4-A3.50			1.1/4	1.77	3.50

HSK-F80 Makino MAG METRIC

Series- 985

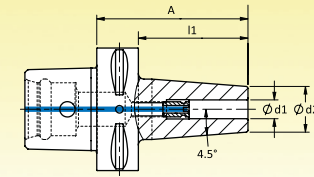


HSK-F80 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw
w/pins for MAKINO MAG

Product Order Number	d1	d2	A	l1	SPECIAL
985-F80M06A76.2	6	21.0	76.20	50.2	352.79
985-F80M06A82.55			82.55	56.55	369.59
985-F80M08A76.2	8	21.0	76.20	50.2	352.79
985-F80M10A76.2	10	26.0	76.20	50.2	352.79
985-F80M10A82.55			82.55	56.55	369.59
985-F80M12A76.2	12	26.0	76.20	50.2	352.79
985-F80M14A76.2	14	29.0	76.20	50.2	352.79
985-F80M16A76.2	16	29.0	76.20	50.2	352.79
985-F80M16A82.55			82.55	56.55	369.59
985-F80M20A70	20	35.5	70.00	44	352.79
985-F80M20A76.2			76.20	50.2	352.79
985-F80M25A70	25	46.0	70.00	44	352.79
985-F80M25A76.2			76.20	50.2	352.79

PSC50 ShrinkFit INCH

Series- 985Z

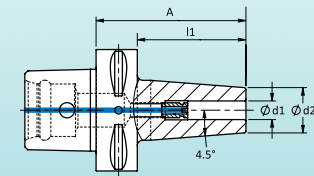


PSC-50 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw

Product Order Number	d1	d2	A	l1	SPECIAL
985Z-PSC50-1/8-A2.95	1/8	.43	2.95	2.17	412.07
985Z-PSC50-3/16-A2.95	3/16	.55	2.95	2.17	412.07
985Z-PSC50-1/4-A2.95	1/4	.83	2.95	2.17	370.56
985Z-PSC50-5/16-A2.95	5/16	.83	2.95	2.17	370.56
985Z-PSC50-3/8-A2.95	3/8	.94	2.95	2.17	370.56
985Z-PSC50-1/2-A2.95	1/2	.94	2.95	2.17	370.56
985Z-PSC50-5/8-A3.15	5/8	1.06	3.15	2.36	370.56
985Z-PSC50-3/4-A3.15	3/4	1.06	3.15	2.36	370.56

PSC63 ShrinkFit INCH

Series- 985Z



PSC-63 ShrinkFit Chuck
Standard Execution 4.5°
w/Length Adjusting Screw

Product Order Number	d1	d2	A	l1	SPECIAL
985Z-PSC63-1/8-A3.15	1/8	.43	3.15	2.28	405.77
985Z-PSC63-3/16-A3.15	3/16	.55	3.15	2.28	405.77
985Z-PSC63-1/4-A3.15	1/4	.83	3.15	2.28	347.81
985Z-PSC63-1/4-A4.72			4.72	3.86	422.33
985Z-PSC63-5/16-A3.15	5/16	.83	3.15	2.28	347.81
985Z-PSC63-5/16-A4.72			4.72	3.86	422.33
985Z-PSC63-3/8-A3.15	3/8	.94	3.15	2.28	347.81
985Z-PSC63-3/8-A4.72			4.72	3.86	422.33
985Z-PSC63-1/2-A3.15	1/2	.94	3.15	2.28	347.81
985Z-PSC63-1/2-A4.72			4.72	3.86	422.33
985Z-PSC63-5/8-A3.35	5/8	1.06	3.35	2.48	347.81
985Z-PSC63-5/8-A4.72			4.72	3.86	422.33
985Z-PSC63-3/4-A3.35	3/4	1.30	3.35	2.48	347.81
985Z-PSC63-3/4-A4.72			4.72	3.86	422.33
985Z-PSC63-1-A3.54	1	1.73	3.54	2.68	364.37
985Z-PSC63-1.1/4-A3.74	1.1/4	1.73	3.74	2.87	372.65

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