

# HYPER VERSION

■ A heavy-duty end-mill holder that maximizes machine capability

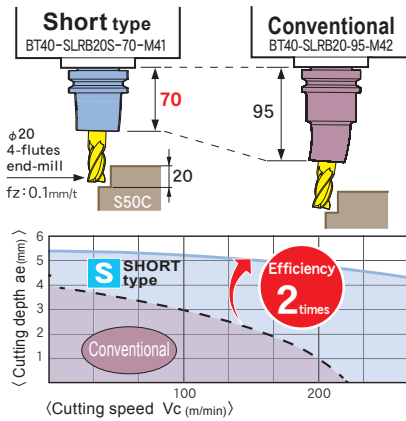
**S** For high-speed spindles  
**Short type**

Reduced spindle load and lowered cutting vibration



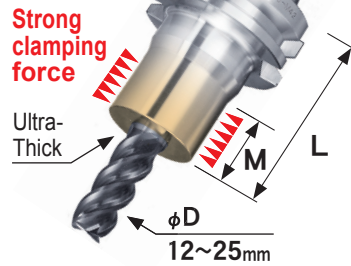
Higher efficiency + Reduced spindle load

**Machining efficiency 2 times**  
(Compared to conventional holders)



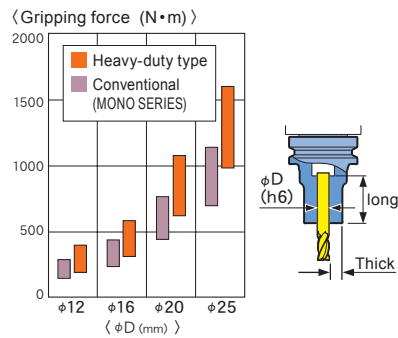
**H** For rigid-design spindles  
**Heavy-duty type**

Higher clamping force prevents the cutter from pulling out or slipping.



Increased gripping surface pressure × Wider gripping area

**High gripping force 1.4 times**  
(Compared to conventional holders)



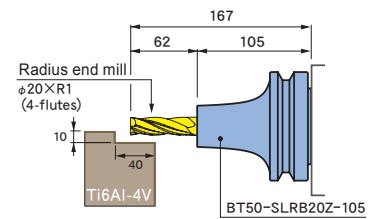
ANTI-SLIPPAGE, SHRINK-FIT HOLDER  
**SLIMLINE Z** PAT.

Z shank prevents the cutter from pulling out or slipping.



Anti-slippage configuration × Anti-pulling out configuration

**For efficiency of difficult-to-machine material processing.**



Rotation	2,100 min <sup>-1</sup>
Cutting speed	132 m/min
Feed	1,260 mm/min
Feed per tooth	0.15 mm/t

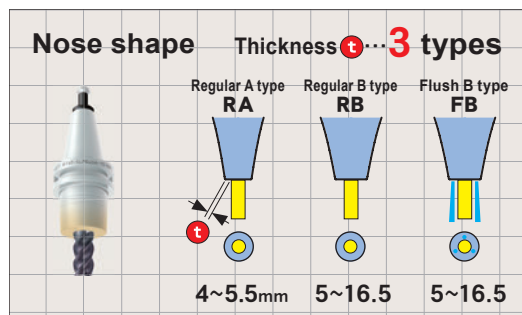
Chip evacuation  
**504** cm<sup>3</sup>/min

## BT40-SLRB20S-60-M42

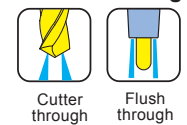
Shank type SLIMLINE φD HYPER version L Effective length (Short type, Heavy-duty type)

PAGE		Inch	
200	<b>S</b> Short type	BT30	—
		BT40	—
		A63	—
		F80PD	—
201	<b>H</b> Heavy-duty type	BT40	—
		BT50	—
		A63	—
		A100	—
202	<b>Z</b> SLIMLINE Z	BT40	—
		BT50	—
		A63	○
		A100	○
		DN40	—
		DN50	—
		CT40	○
CT50	○		

**S**: Short type  
**H**: Heavy-duty type  
**Z**: SLIMLINE Z



Coolant-through



**Short type**

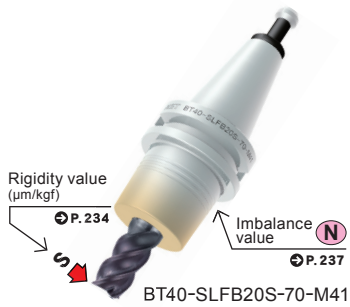
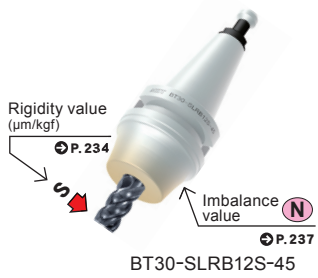


Fig. 1

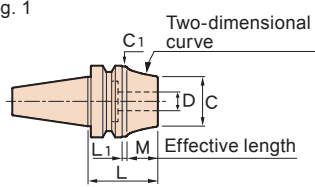


Fig. 2

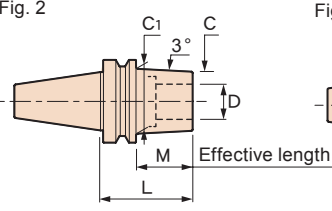


Fig. 3

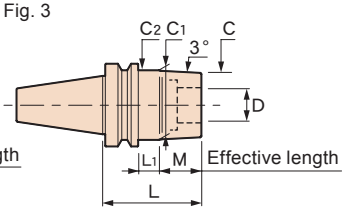


Fig. 4

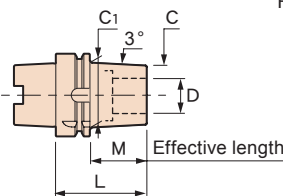
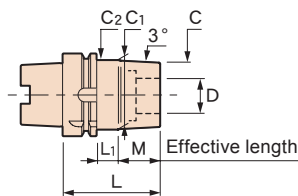
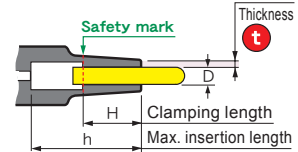


Fig. 5



- **Option**
  - Retention knob (BT)→P.216
- **Std. Access.**
  - Coolant duct (fixed type), (HSK-A63)→P.218
- **Note**
  - Swing type coolant ducts are available upon request(HSK-A63).→P.218
- **Caution**
  - Retention knob...Use a retention knob with hole, or remove the retention knob and heat it.(BT)
  - Setting cutters...Be sure to insert the tool beyond the Safety mark.
  - As for MST SLIMLINE, please use HEAT ROBO DENJI 5000S (HRD-02SH) or HEAT ROBO Baby3000S (HRB-03S).
  - For HEAT ROBO DENJI 5000 (HRD-02SH), please prepare coil No.6 (HRD2-CL6).
  - Remove the coolant duct before heating the holder when you use the hot air heater. (HSK-A)



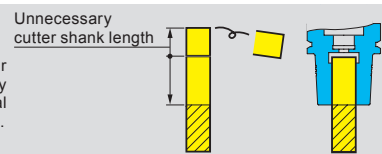
Thickness

CODE	Fig.	φD	φC	t	L	M	L1	φC1	φC2	H	h	Kg	N	S								
<b>BT30-SLRB10S-45</b>	1	10	28	9	45	20	3	45	—	21	68	0.5	1.0	0.4								
-SLRB12S-45		12	32	10											22	61	1.2	0.3				
-SLRB16S-45		16	38	11											25	57	1.5					
<b>BT40-SLRB12S-60-M28</b>	2	12	32	10	60	28	—	35	—	27	95	1.1	1.9	0.3								
-SLFB12S-60-M28		16	38	11											65	33	41.5	30	85	1.2	2.8	
-SLRB16S-65-M33		20	45	12.5											70	41	49.4	36	100	1.3	4.1	0.2
-SLFB20S-70-M41																						
-SLRB25S-75-M30	3	25	49	12	75	30	18	52.2	53	42		1.4	5.4									
-SLFB25S-75-M30																						
<b>A63 -SLRB12S-60-M29</b>	4	12	32	10	60	29	—	35.1	—	27	35	0.8	8.3	0.3								
-SLFB12S-60-M29		16	38	11											65	34	41.6	30	40	1	9.2	
-SLRB16S-65-M34		20	45	12.5											70	42	49.5	36	45	1.1	10.4	0.2
-SLFB20S-70-M42																						
-SLRB25S-75-M30	5	25	49	12	75	30	19	52.2	53	42	50	1.3	11.6									
-SLFB25S-75-M30																						



**Cutting tool insertion length**

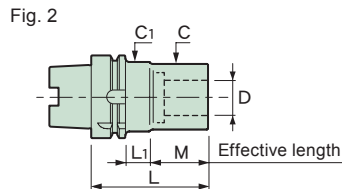
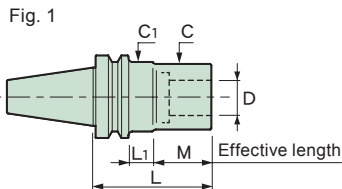
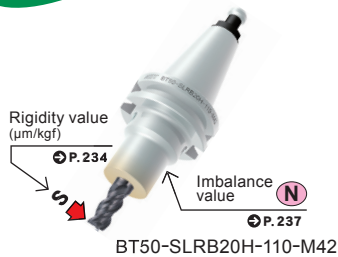
Since the Short type has the shortest gauge length, the cutter insertion length (h) is not deep. Cut off the unnecessary portion of the tool shank and use a cutting tool with the optimal projection. Pay special attention for HSK-A63 shank products.



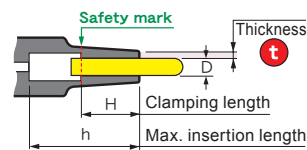
**Recommended cutting tools**

OSG	DIJET INDUSTRIAL	Tungaloy	MITSUBISHI MATERIALS	MOLDINO
WX-PHSS General purpose	DV-OCSAR For difficult-to-machine materials	SEF4000 For difficult-to-machine materials	C-3SA For aluminum alloy	EPSMS-PN General purpose
UP-PHS General purpose	AL-SEESS For aluminum alloy	SEE4000-A For aluminum alloy	VF-6MHV For difficult-to-machine materials	EPPS For general steel

Heavy-duty type

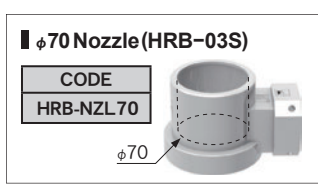


- **Option**
  - Retention knob (BT)→P.216
- **Std. Access.**
  - Coolant duct (fixed type),(HSK-A)→P.218
- **Note**
  - Swing type coolant ducts are available upon request.→P.218
- **Caution**
  - Retention knob...Use a retention knob with hole, or remove the retention knob and heat it.(BT)
  - Setting cutters...Be sure to insert the tool beyond the safety mark.
  - As for MST SLIMLINE, please use HEAT ROBO DENJI 5000S (HRD-02SH) or HEAT ROBO Baby 3000S (HRB-03S).
  - Refer to the table to choose an appropriate heating coil for Heat Robo Denji 5000 (HRD-02SH).
  - Remove the coolant duct before heating the holder when you use hot air heater (HSK-A).
  - For HEAT ROBO Baby 3000S (HRB-03S), dia 70mm nozzle(HRB-NZL70) is required.

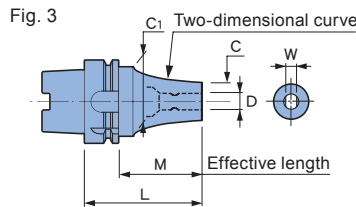
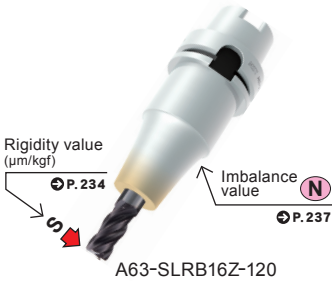
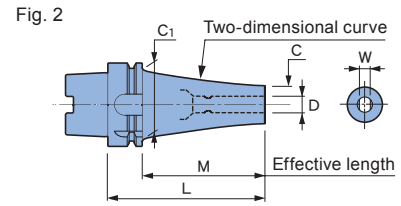
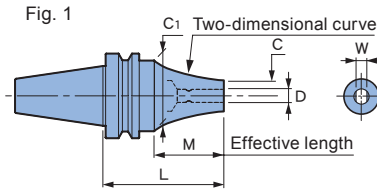


An appropriate heating coil for HRD-02SH

CODE	Fig.	φD	φC	t	L	M	L <sub>1</sub>	φC <sub>1</sub>	H	h	Kg	N	S		
<b>BT40-SLRB12H- 80-M32</b>	1	12	36	12	80	32	21	53	35	115	1.3	5.1	0.3	6	
-SLFB12H- 80-M32												1.4			
-SLRB16H- 80-M32			16	42	13				37	90			6.3	7	
-SLFB16H- 80-M32									47	100	1.6				
-SLRB20H- 90-M42			20	50	15	90	42	26	53	35	150	3.8	8.8	0.3	6
-SLFB20H- 90-M42															
-SLRB25H- 95-M42			25	51	13	95	42	30	63	47	165	4	14.1	0.2	7
-SLFB25H- 95-M42															
<b>BT50-SLRB12H- 95-M32</b>	1	12	36	12	95	32	25	53	35	150	3.8	8.8	0.3	6	
-SLFB12H- 95-M32															
-SLRB16H- 95-M32			16	42	13				37	90			9	7	
-SLFB16H- 95-M32									47	165	4	14.1	0.2		
-SLRB20H-110-M42			20	50	15	110	42	30	63	47	165	4	14.1	0.2	7
-SLFB20H-110-M42															
-SLRB25H-110-M42			25	58	16.5				52	70		4.2	14.4		
-SLFB25H-110-M42															
<b>A63 -SLRB12H- 80-M32</b>	2	12	36	12	80	32	22	53	35	55	1.1	11.3	0.3	6	
-SLFB12H- 80-M32															
-SLRB16H- 80-M32			16	42	13				37	90			11.6	7	
-SLFB16H- 80-M32									47	65	1.5	13.1			
-SLRB20H- 90-M42			20	50	15	90	42	27	53	47	65	1.5	13.1	0.2	7
-SLFB20H- 90-M42															
-SLRB25H- 95-M42			25	51	13	95	42	27	53	50	70		14.1	0.2	7
-SLFB25H- 95-M42															
<b>A100-SLRB12H- 95-M32</b>	2	12	36	12	95	32	34	53	35	63	2.7	26.9	0.3	6	
-SLFB12H- 95-M32															
-SLRB16H- 95-M32			16	42	13				37	90			27.2	7	
-SLFB16H- 95-M32									47	78	3.2	31.3	0.2		
-SLRB20H-110-M42			20	50	15	110	42	39	63	47	78	3.2	31.3	0.2	7
-SLFB20H-110-M42															
-SLRB25H-110-M42			25	58	16.5				52	70		3.4	31.8		
-SLFB25H-110-M42								50	70						



HEAT ROBO Baby 3000S



■Option

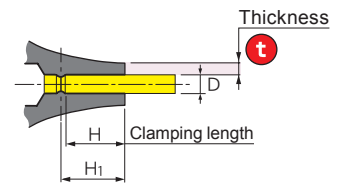
- The Z-shank (dedicated) tool is needed. Please see below.
- Retention knob(BT)→P.216

■Std. Access.

- Coolant duct(fixed type), (HSK-A)→P.218

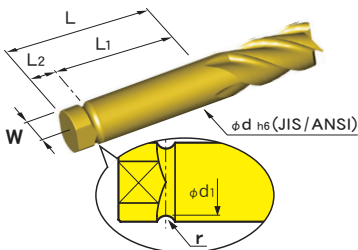
■Caution

- Retention knob...Use a retention knob with a hole, or remove the retention knob and heat it (BT).
- Setting cutters...Be sure to insert the tool beyond the safety mark.
- As for MST SLIMLINE, please use HEAT ROBO DENJI 5000S (HRD-02SH) or HEAT ROBO Baby 3000S (HRB-03S).
- Refer to the table to choose an appropriate heating coil for HEAT ROBO DENJI 5000 (HRD-02SH).
- Remove the coolant duct before heating the holder when you use the hot air heater (HSK-A).
- Swing type coolant ducts are available upon request(HSK-A).



**Z shank tool dimensions table**

Z Shank is easy to fabricate — the open standards make it possible for anyone to fabricate block shanks.



They can provide a tool for SLIMLINE Z



※For additional processing of Z Shanks, please contact us.

**Metric**

φd (h6)	W -0.1 -0.2	φd1 -0.1 -0.2	L		L <sub>1</sub>	L <sub>2</sub>		r
			min.	Max.		min.	Max.	
8	6.5	6.5	36	45	29	7	16	2
10	8.5	8.5	42	51	35			
12	10	10						
16	14	14	45	54	38			
20	17	17	53	62	46			
25	22	22	60	69	53			2.5

**Inch**

φd (h6)	W -.004" -.008"	φd1 -.004" -.008"	L		L <sub>1</sub>	L <sub>2</sub>		r
			min.	max.		min.	max.	
5/16"	.25	.25	1.38	1.75	1.13	.25	.63	.08
3/8"	.32	.32	1.63	2.00	1.38			
1/2"	.42	.42						
5/8"	.55	.55	1.75	2.13	1.50			
3/4"	.63	.63	2.00	2.38	1.75			
1"	.88	.88	2.41	2.75	2.13	.28		.1

An appropriate heating coil for HRD-02SH

Thickness

CODE	Fig.	φD	φC	t	L	M	φC1	H	H <sub>i</sub>	W	Kg	N	S	
<b>BT40-SLRB 8Z- 90</b>	1	8	18	5	90	52	53	24	29	6.5	1.2	4.6	0.6	2
-120					120						1.6	6.8	0.7	
-150					150						2	8.9	0.8	
-180					180						2.4	11	0.9	
<b>-SLFB 8Z- 90</b>	1	8	18	5	90	52	53	24	29	6.5	1.2	4.6	0.6	2
-120					120						1.6	6.8	0.7	
-150					150						2	8.9	0.8	
-180					180						2.4	11	0.9	
<b>BT40-SLRB10Z- 90</b>	1	10	22	6	90	52	53	30	35	8.5	1.3	4.8	0.5	3
-120					120						1.7	6.9	0.6	
-150					150						2	9	0.7	
-180					180						2.4	11.1	0.8	
<b>-SLFB10Z- 90</b>	1	10	22	6	90	52	53	30	35	8.5	1.3	4.8	0.5	3
-120					120						1.7	6.9	0.6	
-150					150						2	9	0.7	
-180					180						2.4	11.1	0.8	
<b>BT40-SLRB12Z- 90</b>	1	12	26	7	90	52	53	30	35	10	1.3	5	0.4	3
-120					120						1.7	7.1	0.5	
-150					150						2.1	9.2	0.6	
-180					180						2.5	11.3	0.8	
<b>-SLFB12Z- 90</b>	1	12	26	7	90	52	53	30	35	10	1.3	5	0.4	3
-120					120						1.7	7.1	0.5	
-150					150						2.1	9.2	0.6	
-180					180						2.5	11.3	0.8	
<b>BT40-SLRB16Z- 90</b>	1	16	32	8	90	52	53	32	38	14	1.4	5.3	0.4	3
-120					120						1.7	7.5	0.5	
-150					150						2.1	9.6	0.6	
<b>-SLFB16Z- 90</b>					1						16	32	8	
-120	120	1.7	7.5	0.5										
-150	150	2.1	9.6	0.6										
<b>BT40-SLRB20Z- 90</b>	1	20	38	9		90	42	53	40	46				17
-120					120	1.9					8	0.4		
-150					150	2.3					10.1	0.6		
<b>-SLFB20Z- 90</b>					1	20					38	9	90	
-120	120	1.9	8	0.4										
-150	150	2.3	10.1	0.5										
<b>BT40-SLRB25Z- 95</b>	1	25	45	10			95	42	53	45			53	22
-125					125	2	8.8				0.4			
<b>-SLFB25Z- 95</b>	1	25	45	10	95	42	53	45	53	22	1.6	6.7	0.3	4
-125					125						2	8.8	0.4	
<b>BT50-SLRA12Z-105</b>	1	12	22	5	105	67	85	30	35	10	3.9	13	0.5	2
-135					135	97					4.5	14.8	0.6	
-165					165	127					5.1	16.1	0.7	
-195					195	157					5.6	18	0.8	
<b>-SLRB12Z-165</b>	1	12	26	7	165	127	85	30	35	10	5.1	17.3	0.6	3
-195					195	157					5.4	18.9	0.7	
<b>-SLFB12Z-165</b>	1	12	26	7	165	127	85	30	35	10	5.1	17.3	0.6	3
-195					195	157					5.4	18.9	0.7	
<b>BT50-SLRA16Z-105</b>	1	16	27	5.5	105	67	85	32	38	14	3.9	13.3	0.4	3
-135					135	97					4.3	15.4	0.5	
-165					165	127					5	17.2	0.6	
-195					195	157					5.3	18.8	0.8	
<b>-SLRB16Z-165</b>	1	16	32	8	165	127	85	32	38	14	5.1	17.5	0.5	3
-195					195	157					5.8	20.3	0.6	
<b>-SLFB16Z-165</b>	1	16	32	8	165	127	85	32	38	14	5.1	17.5	0.5	3
-195					195	157					5.8	20.3	0.7	

**BT40**

**BT50**



Feature  
Shrink-fit Heater  
MONO 3° MONO CURVE  
MONO Series  
2PIECE type  
UNO  
HYPER version  
STRAIGHT arbor  
OTHERS  
PERIPHERALS  
Technical Information



CODE	Fig.	φD	φC	t	L	M	φC1	H	H1	W	Kg	N	S	
<b>BT50-SLRB20Z-105</b>	1	20	38	9	105	67	85	40	46	17	4.1	13.8	0.3	4
-135					135	97					4.8	17.2		
-165					165	127					5.5	20.7	0.4	
<b>BT50-SLFB20Z-105</b>	1	20	38	9	105	67	85	40	46	17	4.1	13.8	0.3	4
-135					135	97					4.8	17.2		
-165					165	127					5.5	20.7	0.4	
<b>BT50-SLRB25Z-110</b>	1	25	45	10	110	72	85	45	53	22	4.3	15	0.3	4
-140					140	102					4.8	17.7		
<b>BT50-SLFB25Z-110</b>	1	25	45	10	110	72	85	45	53	22	4.3	15	0.3	4
-140					140	102					4.8	17.7		
<b>A63-SLRA 8Z- 90</b>	2	8	16	4	90	64	53	24	29	6.5	1	8.4	0.7	2
-120					120	94					1.2	9.6	1	
-150					150	124					1.4	10.8	1.4	
<b>A63-SLRB 8Z- 90</b>	3	8	18	5	90	52	53	24	29	6.5	1.1	10.9	0.6	2
-120					120						1.4	14.1	0.8	
-150					150						1.8	17.2		
-180					180						2.2	20.4	0.9	
<b>A63-SLFB 8Z- 90</b>	3	8	18	5	90	52	53	24	29	6.5	1.1	10.9	0.6	2
-120					120						1.4	14.1	0.7	
-150					150						1.8	17.2		
-180					180						2.2	20.4	0.9	
<b>A63-SLRA5/16Z- 90</b>	2	5/16	.63	.16	3.54	2.52	2.09	.94	1.13	.25	2.2	8.4	0.7	2
-120					4.72	3.70					2.6	9.6	1	
-150					5.91	4.88					3.1	10.8	1.4	
<b>A63-SLRB5/16Z- 90</b>	3	5/16	.71	.20	3.54	2.05	2.09	.94	1.13	.25	2.4	10.9	0.6	2
-120					4.72						3.1	14.1	0.7	
-150					5.91						4	17.2		
-180					7.09						4.9	20.4	0.9	
<b>A63-SLFB5/16Z- 90</b>	3	5/16	.71	.20	3.54	2.05	2.09	.94	1.13	.25	2.4	10.9	0.6	2
-120					4.72						3.1	14.1	0.7	
-150					5.91						4	17.2		
-180					7.09						4.9	20.4	0.9	
<b>A63-SLRA10Z- 90</b>	2	10	19	4.5	90	64	53	30	35	8.5	1	8.5	0.6	2
-120					120	94					1.2	9.6	0.9	
-150					150	124					1.3	10.9	1.4	
<b>A63-SLRB10Z- 90</b>	3	10	22	6	90	52	53	30	35	8.5	1.1	11.1	0.5	3
-120					120						1.5	14.3	0.7	
-150					150						1.6	17.4		
-180					180						2.3	20.6	0.8	
<b>A63-SLFB10Z- 90</b>	3	10	22	6	90	52	53	30	35	8.5	1.1	11.1	0.5	3
-120					120						1.5	14.3	0.6	
-150					150						1.6	17.4		
-180					180						2.3	20.6	0.8	
<b>A63-SLRA3/8Z- 90</b>	2	3/8	.73	.18	3.54	2.52	2.09	1.18	1.38	.31	2.2	8.5	0.6	2
-120					4.72	3.70					2.6	9.6	0.9	
-150					5.91	4.88					2.9	10.9	1.4	
<b>A63-SLRB3/8Z- 90</b>	3	3/8	.85	.24	3.54	2.05	2.09	1.18	1.38	.31	2.4	11.1	0.5	3
-120					4.72						3.3	14.3	0.6	
-150					5.91						3.5	17.4		
-180					7.09						5.1	20.6	0.8	
<b>A63-SLFB3/8Z- 90</b>	3	3/8	.85	.24	3.54	2.05	2.09	1.18	1.38	.31	2.4	11.1	0.5	3
-120					4.72						3.3	14.3	0.6	
-150					5.91						3.5	17.4		
-180					7.09						5.1	20.6	0.8	



Feature

Shrink-fit Heater

MONO 3° MONO CURVE

MONO Series

2PIECE type

UNO

HYPER version

STRAIGHT arbor

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CODE	Fig.	φD	φC	t	L	M	φC1	H	H1	W	Kg	N	S	Feature
<b>A63</b> -SLRA 12Z- 90	2	12	22	5	90	64	53	30	35	10	1	8.5	0.6	2
-120					120	94					1.3	10.4	0.7	
-150					150	124					1.5	11.7	1.1	
-SLRB 12Z- 90	3	12	26	7	90	52	53	30	35	10	1.1	11.4	0.4	3
-120					120						1.5	14.6	0.5	
-150					150						1.6	17.7	0.6	
-180					180						2.3	20.9	0.7	
-SLFB 12Z- 90	3	12	26	7	90	52	53	30	35	10	1.1	11.4	0.4	3
-120					120						1.5	14.6	0.5	
-150					150						1.6	17.7	0.6	
-180					180						2.3	20.9	0.7	
<b>A63</b> -SLRA1/2Z- 90	2	1/2	.89	.20	3.54	2.52	2.09	1.18	1.38	.42	2.2	8.5	0.6	2
-120					4.72	3.70					2.9	10.4	0.7	
-150					5.91	4.88					3.3	11.7	1.1	
-SLRB1/2Z- 90	3	1/2	1.05	.28	3.54	2.05	2.09	1.18	1.38	.42	2.4	11.4	0.4	3
-120					4.72						3.3	14.6	0.5	
-150					5.91						3.5	17.7	0.6	
-180					7.09						5.1	20.9	0.7	
-SLFB1/2Z- 90	3	1/2	1.05	.28	3.54	2.05	2.09	1.18	1.38	.42	2.4	11.4	0.4	3
-120					4.72						3.3	14.6	0.5	
-150					5.91						3.5	17.7	0.6	
-180					7.09						5.1	20.9	0.7	
<b>A63</b> -SLRA 16Z- 90	3	16	27	5.5	90	52	53	32	38	14	1.1	11.6	0.4	3
-120	2				120	94					1.3	12.9	0.7	
-SLRB 16Z- 90	3	16	32	8	90	52	53	32	38	14	1.2	12	0.4	3
-120					120						1.6	15.1		
-150					150						2	18.3	0.6	
-SLFB 16Z- 90	3	16	32	8	90	52	53	32	38	14	1.2	12	0.4	3
-120					120						1.6	15.1		
-150					150						2	18.3	0.6	
<b>A63</b> -SLRA5/8Z- 90	3	5/8	1.06	.22	3.54	2.05	2.09	1.26	1.5	.55	2.4	11.6	0.4	3
-120	2				4.72	3.70					2.9	12.9	0.7	
-SLRB5/8Z- 90	3	5/8	1.25	.31	3.54	2.05	2.09	1.26	1.5	.55	2.6	12.0	0.4	3
-120					4.72						3.5	15.1		
-150					5.91						4.4	18.3	0.6	
-SLFB5/8Z- 90	3	5/8	1.25	.31	3.54	2.05	2.09	1.26	1.5	.55	2.6	12.0	0.4	3
-120					4.72						3.5	15.1		
-150					5.91						4.4	18.3	0.6	
<b>A63</b> -SLRB 20Z- 90	3	20	38	9	90	42	53	40	46	17	1.3	12.7	0.3	4
-120					120						1.4	15.9	0.4	
-150					150						2.1	19.1	0.5	
-SLFB 20Z- 90	3	20	38	9	90	42	53	40	46	17	1.3	12.7	0.3	4
-120					120						1.4	15.9	0.4	
-150					150						2.1	19.1	0.5	
<b>A63</b> -SLRB3/4Z- 90	3	3/4	1.46	.35	3.54	1.65	2.09	1.5	1.75	.63	2.9	12.7	0.3	4
-120					4.72						3.1	15.9	0.4	
-150					5.91						4.6	19.1	0.5	
-SLFB3/4Z- 90	3	3/4	1.46	.35	3.54	1.65	2.09	1.5	1.75	.63	2.9	12.7	0.3	4
-120					4.72						3.1	15.9	0.4	
-150					5.91						4.6	19.1	0.5	
<b>A63</b> -SLRB 25Z- 95	3	25	45	10	95	42	53	45	53	22	1.4	13.9	0.3	4
-125					125						1.8	17.1	0.4	
-SLFB 25Z- 95	3	25	45	10	95	42	53	45	53	22	1.4	13.9	0.3	4
-125					125						1.8	17.1	0.4	
<b>A63</b> -SLRB 1Z- 95	3	1"	1.79	.39	3.74	1.65	2.09	1.77	2.09	.88	3.1	13.9	0.3	4
-125					4.92						4	17.1	0.4	
-SLFB 1Z- 95	3	1"	1.79	.39	3.74	1.65	2.09	1.77	2.09	.88	3.1	13.9	0.3	4
-125					4.92						4	17.1	0.4	

A63



Feature  
Shrink-fit Heater  
MONO 3° MONO CURVE  
MONO Series  
2PIECE type  
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HYPER version  
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CODE	Fig.	φD	φC	t	L	M	φC1	H	H <sub>1</sub>	W	Kg	N	S	
<b>A100-SLRA 12Z-105</b>	2	12	22	5	105	76	85	30	35	10	3	27.7	0.4	3
-135					135	106					3.3	29.9	0.6	
-165					165	136					3.7	31.3	0.8	2
-195					195	166					4.5	35.6		
<b>-SLRB 12Z-165</b>	2	12	26	7	165	136	85	30	35	10	4	34.3	0.6	3
-195					195	166					4.8	39.2		
<b>-SLFB 12Z-165</b>	2	12	26	7	165	136	85	30	35	10	4	34.3	0.6	3
-195					195	166					4.8	39.2	0.7	
<b>A100-SLRA1/2Z-105</b>	2	1/2	.89	.20	4.13	2.99	3.35	1.18	1.38	.42	6.6	27.7	0.4	3
-135					5.31	4.17					7.3	29.9	0.5	
-165					6.50	5.35					8.2	31.3	0.8	
-195					7.68	6.54					9.9	35.6		
<b>-SLRB1/2Z-165</b>	2	1/2	1.05	.28	6.50	5.35	3.35	1.18	1.38	.42	8.8	34.3	0.6	3
-195					7.68	6.54					10.6	39.2	0.7	
<b>-SLFB1/2Z-165</b>	2	1/2	1.05	.28	6.50	5.35	3.35	1.18	1.38	.42	8.8	34.3	0.6	3
-195					7.68	6.54					10.6	39.2	0.7	
<b>A100-SLRA 16Z-105</b>	2	16	27	5.5	105	76	85	32	38	14	3	28.1	0.4	3
-135					135	106					3.4	30.5	0.5	
-165					165	136					4	34.2	0.6	
-195					195	166					4.3	36.6	0.8	
<b>-SLRB 16Z-165</b>	2	16	32	8	165	136	85	32	38	14	4	34.4	0.5	3
-195					195	166					4.5	37.6	0.6	
<b>-SLFB 16Z-165</b>	2	16	32	8	165	136	85	32	38	14	4	34.4	0.5	3
-195					195	166					4.5	37.6	0.7	
<b>A100-SLRA5/8Z-105</b>	2	5/8	1.06	.22	4.13	2.99	3.35	1.26	1.50	.55	6.6	28.1	0.4	3
-135					5.31	4.17					7.5	30.5	0.5	
-165					6.50	5.35					8.8	34.2	0.6	
-195					7.68	6.54					9.5	36.6		
<b>-SLRB5/8Z-165</b>	2	5/8	1.25	.31	6.50	5.35	3.35	1.26	1.50	.55	8.8	34.4	0.5	3
-195					7.68	6.54					9.9	37.6	0.7	
<b>-SLFB5/8Z-165</b>	2	5/8	1.25	.31	6.50	5.35	3.35	1.26	1.50	.55	8.8	34.4	0.5	3
-195					7.68	6.54					9.9	37.6	0.7	
<b>A100-SLRB 20Z-105</b>	2	20	38	9	105	76	85	40	46	17	3.1	28.7	0.3	4
-135					135	106					3.8	33.4		
-165					165	136					4.6	38.9	0.6	
<b>-SLFB 20Z-105</b>	2	20	38	9	105	76	85	40	46	17	3.1	28.7	0.3	4
-135					135	106					3.8	33.4		
-165					165	136					4.6	38.9	0.4	
<b>A100-SLRB3/4Z-105</b>	2	3/4	1.46	.35	4.13	2.99	3.35	1.50	1.75	.63	6.8	28.7	0.3	4
-135					5.31	4.17					8.4	33.4		
-165					6.50	5.35					10.1	38.9	0.4	
<b>-SLFB3/4Z-105</b>	2	3/4	1.46	.35	4.13	2.99	3.35	1.50	1.75	.63	6.8	28.7	0.3	4
-135					5.31	4.17					8.4	33.4		
-165					6.50	5.35					10.1	38.9	0.4	
<b>A100-SLRB 25Z-110</b>	2	25	45	10	110	81	85	45	53	22	3.1	29.7	0.3	4
-140					140	111					3.8	34.4		
<b>-SLFB 25Z-110</b>	2	25	45	10	110	81	85	45	53	22	3.1	29.7	0.3	4
-140					140	111					3.8	34.4		
<b>A100-SLRB 1Z-110</b>	2	1"	1.79	.39	4.33	3.19	3.35	1.77	2.13	.88	6.8	29.7	0.3	4
-140					5.51	4.37					8.4	34.4		
<b>-SLFB 1Z-110</b>	2	1"	1.79	.39	4.33	3.19	3.35	1.77	2.13	.88	6.8	29.7	0.3	4
-140					5.51	4.37					8.4	34.4		



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STRAIGHT arbor  
OTHERS  
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CODE	Fig.	φD	φC	t	L	M	φC1	H	H <sub>1</sub>	W	Kg	N	S	Feature
<b>DN40AD-SLRB8Z- 90</b>	1	8	18	5	90	52	50	24	29	6.5	1.1	7.8	0.6	2
-120					120		53				1.5	10.9	0.7	
-150					150						1.9	14.1	0.8	
-180					180						2.3	17.3	0.9	
<b>-SLFB8Z- 90</b>	1	8	18	5	90	52	50	24	29	6.5	1.1	7.8	0.6	2
-120					120		53				1.5	10.9	0.7	
-150					150						1.9	14.1	0.8	
-180					180						2.3	17.3	0.9	
<b>DN40AD-SLRB10Z- 90</b>	1	10	22	6	90	52	50	30	35	8.5	1.2	8	0.5	3
-120					120		53				1.6	11.2	0.6	
-150					150						2	14.3	0.7	
-180					180						2.3	17.5	0.9	
<b>-SLFB10Z- 90</b>	1	10	22	6	90	52	50	30	35	8.5	1.2	8	0.5	3
-120					120		53				1.6	11.2	0.6	
-150					150						2	14.3	0.7	
-180					180						2.3	17.5	0.8	
<b>DN40AD-SLRB12Z- 90</b>	1	12	26	7	90	52	50	30	35	10	1.2	8.3	0.5	3
-120					120		53				1.6	11.5	0.5	
-150					150						2	14.6	0.6	
-180					180						2.4	17.8	0.8	
<b>-SLFB12Z- 90</b>	1	12	26	7	90	52	50	30	35	10	1.2	8.3	0.4	3
-120					120		53				1.6	11.5	0.5	
-150					150						2	14.6	0.6	
-180					180						2.4	17.8	0.8	
<b>DN40AD-SLRB16Z- 90</b>	1	16	32	8	90	52	50	32	38	14	1.3	8.8	0.4	3
-120					120		53				1.7	12	0.5	
-150					150						2.1	15.2	0.6	
<b>-SLFB16Z- 90</b>	1	16	32	8	90	52	50	32	38	14	1.3	8.8	0.4	3
-120					120		53				1.7	12	0.5	
-150					150						2.1	15.2	0.6	
<b>DN40AD-SLRB20Z- 90</b>	1	20	38	9	90	42	50	40	46	17	1.4	9.6	0.3	4
-120					120		53				1.8	12.8	0.4	
-150					150						2.2	16	0.6	
<b>-SLFB20Z- 90</b>	1	20	38	9	90	42	50	40	46	17	1.4	9.6	0.3	4
-120					120		53				1.8	12.8	0.4	
-150					150						2.2	16	0.6	
<b>DN50AD-SLRA12Z-105</b>	1	12	22	5	105	70	70	30	35	10	3.5	16.7	0.4	3
-135					135	100					3.9	18.4	0.6	
-165					165	130					4.4	19.4	0.8	2
-195					195	160					4.5	20.6	1.2	
<b>-SLRB12Z-165</b>	1	12	26	7	165	130	70	30	35	10	4.5	22.1	0.6	3
-195					195	160					4.8	24.4	0.8	
<b>-SLFB12Z-165</b>	1	12	26	7	165	130	70	30	35	10	4.5	22.1	0.6	3
-195					195	160					4.8	24.4	0.8	
<b>DN50AD-SLRA16Z-105</b>	1	16	27	5.5	105	70	70	32	38	14	3.5	17	0.4	4
-135					135	100					3.9	18.4	0.5	3
-165					165	130					4.5	22.1	0.7	
-195					195	160					4.8	24.4	0.8	
<b>-SLRB16Z-165</b>	1	16	32	8	165	130	70	32	38	14	4.4	21.8	0.6	3
-195					195	160					5.0	25.5	0.7	
<b>-SLFB16Z-165</b>	1	16	32	8	165	130	70	32	38	14	4.4	21.8	0.6	3
-195					195	160					5.0	25.5	0.7	
<b>DN50AD-SLRB20Z-105</b>	1	20	38	9	105	70	70	40	46	17	3.6	17.6	0.3	4
-135					135	100					4.0	21	0.4	
-165					165	130					4.7	25.4	0.5	
<b>-SLFB20Z-105</b>	1	20	38	9	105	70	70	40	46	17	3.6	17.6	0.3	4
-135					135	100					4.0	21	0.4	
-165					165	130					4.7	25.4	0.5	
<b>DN50AD-SLRB25Z-110</b>	1	25	45	10	110	75	70	45	53	22	3.7	18.8	0.3	4
-140					140	90					4.4	23.4	0.3	
<b>-SLFB25Z-110</b>	1	25	45	10	110	75	70	45	53	22	3.7	18.8	0.3	4
-140					140	90					4.4	23.4	0.4	

**DIN**



Feature  
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CODE	Fig.	φD	φC	t	L	M	φC1	H	H1	W	lbs	N	S	
<b>CT40-SLRB5/16Z- 95</b>	1	5/16	.71	.20	3.74	2.05	2.09	.94	1.13	.25	2.6	7.6	0.7	2
-120					4.72						3.3	10.2		
-150					5.91						4.2	13.4	0.8	
-180					7.09						5.1	16.6	1	
<b>-SLFB5/16Z- 95</b>	1	5/16	.71	.20	3.74	2.05	2.09	.94	1.13	.25	2.6	7.6	0.7	2
-120					4.72						3.3	10.2		
-150					5.91						4.2	13.4	0.8	
-180					7.09						5.1	16.6	1	
<b>CT40-SLRB 3/8Z- 95</b>	1	3/8	.85	.24	3.74	2.05	2.09	1.18	1.38	.31	2.6	7.7	0.6	3
-120					4.72						3.3	10.5		
-150					5.91						4.2	13.6	0.8	
-180					7.09						5.1	16.8	0.9	
<b>-SLFB 3/8Z- 95</b>	1	3/8	.85	.24	3.74	2.05	2.09	1.18	1.38	.31	2.6	7.7	0.6	3
-120					4.72						3.3	10.5		
-150					5.91						4.2	13.6	0.8	
-180					7.09						5.1	16.8	0.9	
<b>CT40-SLRB 1/2Z- 95</b>	1	1/2	1.05	.28	3.74	2.05	2.09	1.18	1.38	.42	2.9	8.1	0.5	3
-120					4.72						3.5	10.8	0.6	
-150					5.91						4.4	14	0.7	
-180					7.09						5.3	17.1	0.9	
<b>-SLFB 1/2Z- 95</b>	1	1/2	1.05	.28	3.74	2.05	2.09	1.18	1.38	.42	2.9	8.1	0.5	3
-120					4.72						3.5	10.8	0.6	
-150					5.91						4.4	14	0.7	
-180					7.09						5.3	17.1	0.9	
<b>CT40-SLRB 5/8Z- 95</b>	1	5/8	1.25	.31	3.74	2.05	2.09	1.26	1.5	.55	2.9	8.6	0.4	3
-120					4.72						3.5	11.3	0.5	
-150					5.91						4.4	14.5	0.7	
<b>-SLFB 5/8Z- 95</b>	1	5/8	1.25	.31	3.74	2.05	2.09	1.26	1.5	.55	2.9	8.6	0.4	3
-120					4.72						3.5	11.3	0.5	
-150					5.91						4.4	14.5	0.7	
<b>CT40-SLRB 3/4Z- 95</b>	1	3/4	1.46	.35	3.74	1.65	2.09	1.5	1.75	.63	3.3	9.2	0.4	4
-120					4.72						4	12	0.5	
-150					5.91						4.9	15.1	0.7	
<b>-SLFB 3/4Z- 95</b>	1	3/4	1.46	.35	3.74	1.65	2.09	1.5	1.75	.63	3.3	9.2	0.4	4
-120					4.72						4	12	0.5	
-150					5.91						4.9	15.1	0.7	
<b>CT50-SLRA 1/2Z-105</b>	1	1/2	.89	.20	4.13	2.76	2.76	1.18	1.38	.42	7.7	16.3	0.4	3
-135					5.31	3.94					8.6	18	0.6	
-165					6.50	5.12					9.5	18.9	0.8	2
-195					7.68	6.30					10.6	22.1		
<b>-SLRB 1/2Z-165</b>	1	1/2	1.05	.28	6.50	5.12	2.76	1.18	1.38	.42	9.9	21.7	0.6	3
-195					7.68	6.30					10.6	24	0.8	
<b>-SLFB 1/2Z-165</b>	1	1/2	1.05	.28	6.50	5.12	2.76	1.18	1.38	.42	9.9	21.7	0.6	3
-195					7.68	6.30					10.6	24	0.8	
<b>CT50-SLRA 5/8Z-105</b>	1	5/8	1.06	.22	4.13	2.76	2.76	1.26	1.50	.55	7.7	16.6	0.4	4
-135					5.31	3.94					7.9	18.1	0.5	3
-165					6.50	5.12					9.7	21.7	0.7	
-195					7.68	6.30					10.4	24	0.8	
<b>-SLRB 5/8Z-165</b>	1	5/8	1.25	.31	6.50	5.12	2.76	1.26	1.50	.55	9.7	21.4	0.6	3
-195					7.68	6.30					10.8	25.1	0.7	
<b>-SLFB 5/8Z-165</b>	1	5/8	1.25	.31	6.50	5.12	2.76	1.26	1.50	.55	9.7	21.4	0.6	3
-195					7.68	6.30					10.8	25.1	0.7	
<b>CT50-SLRB 3/4Z-105</b>	1	3/4	1.46	.35	4.13	2.76	2.76	1.50	1.75	.63	7.9	17.2	0.3	4
-135					5.31	3.94					8.8	20.5	0.4	
-165					6.50	5.12					10.4	24.9	0.5	
<b>-SLFB 3/4Z-105</b>	1	3/4	1.46	.35	4.13	2.76	2.76	1.50	1.75	.63	7.9	17.2	0.3	4
-135					5.31	3.94					8.8	20.5	0.4	
-165					6.50	5.12					10.4	24.9	0.5	
<b>CT50-SLRB 1Z -110</b>	1	1"	1.79	.39	4.33	2.95	2.76	1.77	2.13	.88	8.2	18.4	0.3	4
-140					5.51	3.94					9.5	22.7	0.4	
<b>-SLFB 1Z -110</b>	1	1"	1.79	.39	4.33	2.95	2.76	1.77	2.13	.88	8.2	18.4	0.3	4
-140					5.51	3.94					9.5	22.7	0.4	

