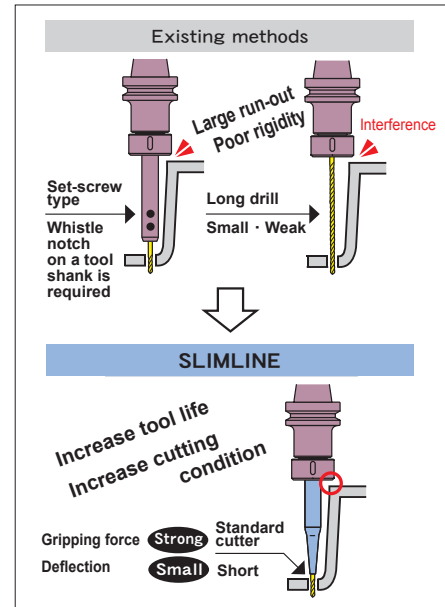


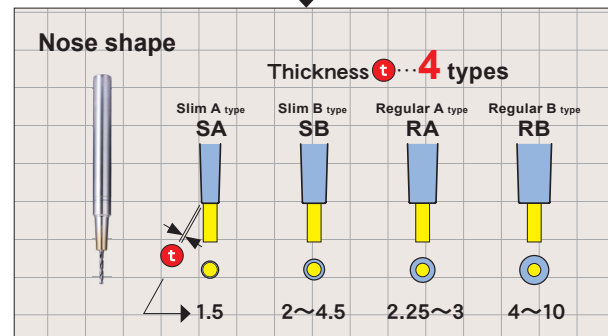
STRAIGHT ARBOR



ST 10 C - SL SA 3 - 110 - M42

Carbide shank SLIMLINE ϕD L Effective length

METRIC	10
	12
	16
	20
	25
	32
	42
INCH	19.05
	25.4



Standard type

ST25-SLSA10-255



Fig. 1

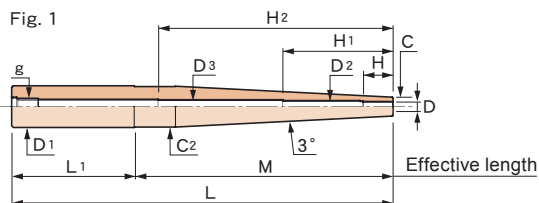
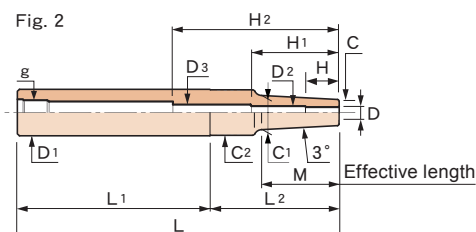


Fig. 2

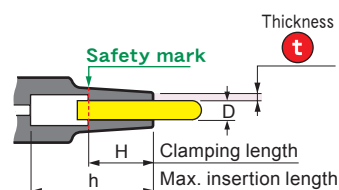


Compatibility table
for HRD-01S

[○] Available [×] Not available
[▲] Usable by raising the
heating unit.→P.257

■ Caution

- Setting cutters: Be sure to insert the tool beyond the safety mark.

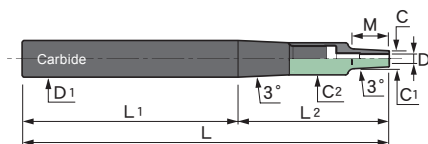


CODE	Fig.	φD	φC	t	L	M	D1	H	L1	L2	φC1	φC2	g	h	kg lbs	φD2	φD3	H1	H2	
ST10-SLSA3- 80-M 35	1	3	6	1.5	80	35	10	9	45	—	—	9.3	M 6	64	0.03	4	—	49.6	—	○
ST16-SLRA3- 90-M 22	2		7.5	2.25	90	22	16		60	30	9.8	15.5	M10	62	0.09			33.7		○
-SLSA3-115-M 42			6	1.5	115	42				55	10.4			87				53.7		○
-SLRA3-115-M 42			7.5	2.25					65	50	11.9				0.1					○
-SLSA3-140-M 67			6	1.5	140	67			60	80	13			112		6	54.4	84.3		○
-SLRA3-140-M 67			7.5	2.25					65	75	14.5									○
ST20-SLRA3-175-M 97					175	97	20		70	105	17.7	19.5		147			53.4	109.3		○
-SLSA3-200-M 97			6	1.5	200				90	110	16.2			172	0.3		54.4	104.3		○
ST25-SLSA3-245-M 97					245		25		120	125		24.5		217	0.6		5	49.7	105.3	○
-SLRA3-245-M 97			7.5	2.25							17.7							47.5	99.5	○
-SLSA3-315-M195	1		6	1.5	315	195				—	—			287				49.7	112.1	○
-SLRA3-315-M 67	2		7.5	2.25		67			220	95	14.5				0.9				75.3	○
ST10-SLSA3.175-80-M35	1	3.175	6.175	1.5	80	35	10	10	45	—	—	9.3	M 6	64	0.03	4	—	49.6	—	○
ST19.05-SLS1/8-200	2	1/8	.24	.059	7.87	3.82	.750	.38	3.54	4.33	.64	.728	M10	7.20	0.62	.16	.24	2.16	4.13	○
ST10-SLSA4- 80-M 35	1	4	7	1.5	80	35	10	12	45	—	—	9.5	M 6	64	0.03	5	—	50	—	○
ST16-SLRA4- 90-M 22	2		10	3	90	22	16		60	30	12.3	15.5	M10	62	0.09			34		○
-SLSA4-115-M 42			7	1.5	115	42				55	11.4			87	0.1			64		○
-SLRA4-115-M 42			10	3					65	50	14.4							54		○
-140-M 60	1				140	60			80	—	—			112				64		○
ST16-SLSA4-140-M 67	2		7	1.5		67			60	80	14					6	64.7	84.3		○
ST20-SLRA4-175-M 95	1		10	3	175	95	20		80	—	—	19.5		147	0.3			53.7	99.3	○
-SLSA4-200-M 97	2		7	1.5	200	97			90	110	17.2			172			7	39.4	104.5	○
ST25-SLSA4-245-M 97					245		25		120	125		24.5		217	0.6		6	49.7	105.6	○
-SLRA4-245-M 97			10	3							20.2							50.5	100.5	○
-315-M 67					315	67			220	95	17			287	0.9				70.5	○
-SLSA4-315-M195	1		7	1.5		195			120	—	—				0.7			49.7	112.4	○
ST19.05-SLS3/16-200	1	3/16	.31	.059	7.87	4.33	.750	.59	3.54			.728	M10	7.20	0.55	.24	—	2.76	—	○
ST10-SLSA5- 80-M 35		5	8	1.5	80	35	10	15	45			9.5	M 6	70	0.03	—		—		○
ST20-SLSA5-200-M110					200	110	20		90			19.2	M10	182	0.3	6		69.3		○
ST25-SLSA5-290-M 97	2				290	97	25		180	110	18.2	24.5		272	0.8		7	69.7	114.5	○

CODE	Fig.	φD	φC	t	L	M	D1	H	L1	L2	φC1	φC2	g	h		φD2	φD3	H1	H2	
ST12-SLSA6- 80-M 35	1	6	9	1.5	80	35	12	18	45	—	—	11.5	M 8	52	0.04	—	—	—	—	○
ST16-SLSA6-115-M 42	2				115	42	16		60	55	13.4	15.5	M10	87	0.1	7		84.5		○
-SLSB6-115-M 42			10	2					65	50	14.4							54.5		○
ST20-SLRB6-120-M 42			14	4	120		20		70		18.4	19.5		92	0.2					○
ST16-SLSB6-140-M 60	1		10	2	140	60	16		80	—	—	15.5		112	0.1			64.5		○
-SLSA6-140-M 70			9	1.5		70			70									74.5		○
ST20-SLSA6-175-M105					175	105	20					19.5		147	0.3			109.5		○
-SLSB6-175-M 95			10	2		95			80									99.5		○
-SLRB6-175-M 60			14	4		60			115									64.5		○
ST25-SLSB6-205-M127	2		10	2	205	127	25		70	135	23.3	24.5		177	0.5			104.5		○
-SLSA6-230-M 97			9	1.5	230	97			120	110	19.2			202				94.5		○
-SLRB6-240-M 42			14	4	240	42			170	70	18.4			212	0.7		11	50.8	160	○
ST32-SLSB6-255-M157			10	2	255	157	32		70	185	26.5	31.5	M16	227	0.8		8	49.7	107.4	○
ST25-SLSA6-305-M185	1		9	1.5	305	185	25		120	—	—	24.5	M10	277				91.7	166.1	○
ST32-SLRB6-345-M 67	2		14	4	345	67	32		250	95	21	31.5	M16	317	1.6			50.5	73.5	○
-SLSB6-375-M157			10	2	375	157			190	185	26.5			347	1.4			49.7	107.4	○
ST19.05-SLS1/4-200	2	1/4	.37	.059	7.87	3.94	.750	.71	3.94	3.94	—	.728	M10	7.20	0.55	.28	—	2.76	—	○
ST25-SLSA7-230-M 97	2	7	10	1.5	230	97	25	20	120	110	20.2	24.5	M10	212	0.5	8	—	69.8	—	○
-320-M 97					320				210					302	0.9	7.5		44.7		○
ST20-SLRB8-100-M 30	1	8	18	5	100	30	20	24	70	—	—	19.5	M10	72	0.2	—	—	—	—	○
ST16-SLSA8-115-M 50			11	1.5	115	50	16		65			15.5		87	0.1					○
ST20-SLSB8-145-M 70			13	2.5	145	70	20		75			19.5		117	0.2					○
ST25-SLRB8-160-M 42	2		18	5	160	42	25		110	50	22.4	24.5		132	0.5					○
ST20-SLSA8-175-M 85	1		11	1.5	175	85	20		90	—	—	19.5		147	0.3					○
ST25-SLSB8-175-M 97	2		13	2.5		97	25		70	105	23.2	24.5			0.4					○
-SLRB8-210-M 90	1		18	5	210	90			120	—	—			182	0.6	9	11	71.4	150	○
-SLSA8-230-M 97	2		11	1.5	230	97				110	21.2			202		—	—	—	—	○
-SLSB8-260-M140	1		13	2.5	260	140				—	—			232	0.7	9	11	121.4	200	○
-SLSA8-280-M160			11	1.5	280	160								252				141.4	220	○
ST32-SLRB8-285-M67	2		18	5	285	67	32		190	95	25	31.5	M16	257	1.3		14	75.8	185	○
-SLSB8-375-M157			13	2.5	375	157				185	29.5			347	1.5		12	94.1	166.4	○
ST25-SLSA9-230-M 97	2	9	12	1.5	230	97	25	30	120	110	22.2	24.5	M10	60	0.6	9.6	—	61	—	○
-320-M 97					320				210						0.9					○
ST25.4-SLS3/8-230	2	3/8	.49	.059	9.06	3.82	1	11.18	4.72	4.33	.89	.965	M10	2.36	1.43	.40	—	2.40	—	○
ST25-SLRB10-120-M 35	1	10	22	6	120	35	25	30	85	—	—	24.5	M10	60	0.4	10.6	—	61	—	○
ST20-SLSB10-120-M 50			16	3		50	20		70			19.5			0.2					○
ST25-SLSB10-145-M 67	2				145	67	25			75	23	24.5			0.4					○
ST20-SLSA10-145-M 70	1		13	1.5		70	20		75	—	—	19.5			0.2					○
ST25-SLSB10-175-M105			16	3	175	105	25		70			24.5		154	0.5	11		155		○
-SLRB10-210-M 90			22	6	210	90			120					149	0.7			150		○
ST32-SLSB10-240-M170			16	3	240	170	32		70			31.5	M16	212	0.9		14	151.1	200	○
ST25-SLSA10-255-M135			13	1.5	255	135	25		120			24.5	M10	194	0.7		—	195	—	○
-SLSB10-275-M105			16	3	275	105			170						0.8					○
ST32-SLRB10-285-M 67	2		22	6	285	67	32		190	95	29	31.5	M16	257	1.4		14	76.1	185	○
-SLSA10-340-M210	1		13	1.5	340	210			130	—	—			312	1.3			191.1	270	○
-SLSB10-360-M170			16	3	360	170			190					332	1.5			151.1	260	○
ST42-SLSB10-445-M157	2				445	157	42		260	185	32.5	41.5	M24	417	2.7			97.1	165	×
ST25-SLSA11-230-M110	1	11	14	1.5	230	110	25	30	120	—	—	24.5	M10	60	0.6	11.6	—	61	—	○
-320-M110					320				210						0.9					○

CODE	Fig.	φD	φC	t	L	M	D1	H	L1	L2	φC1	φC2	g	h		φD2	φD3	H1	H2	
ST25-SLSB12-120-M 42	2	12	19	3.5	120	42	25	30	70	50	23.4	24.5	M10	60	0.3	12.6	—	61	—	○
ST20-SLSA12-120-M 50	1		15	1.5		50	20			—	—	19.5			0.2					
ST32-SLRB12-140-M 60			26	7	140	60	32		80			31.5	M16	112	0.7	13		109.5		×
ST25-SLSB12-150-M 80			19	3.5	150	80	25		70			24.5	M10	60	0.4		11	61	130	○
ST32-SLSB12-220-M150					220	150	32					31.5	M16	192	0.9		14	131.7	180	
ST25-SLSA12-230-M110			15	1.5	230	110	25		120			24.5	M10	60	0.6	12.6	11	61	—	
-SLSB12-250-M 80			19	3.5	250	80			170						0.8	13			170	
ST32-SLRB12-260-M 70			26	7	260	70	32		190			31.5	M16	232	1.3		14	51.7	160	×
-SLSA12-315-M185			15	1.5	315	185			130					287	1.2			166.7	245	○
-SLSB12-340-M150			19	3.5	340	150			190					312	1.5			131.7	240	
ST42-SLSB12-445-M157	2				445	157	42		260	185	35.5	41.5	M24	417	2.8	12.6		59.5	162.5	×
ST25.4-SLS1/2-230	1	1/2	.62	.059	9.06	4.33	1	1.18	4.72	4.33	—	.965	M10	2.36	1.33	.52	—	2.40	—	
ST32-SLRB16-175-M 45	1	16	32	8	175	45	32	32	130	—	—	—	M16	80	0.8	16.6	—	81	—	
ST25-SLSB16-175-M 50			24	4		50	25		125				M10		0.5					
ST32-SLSB16-290-M100					290	100	32		190			31.5	M16		1.4	17	14		190	
ST42-SLRB16-355-M 67	2		32	8	355	67	42		260	95	39	41.5	M24	327	2.7		21	73.5	—	
-SLSB16-445-M157	1		24	4	445	157				—	40.5			417	3			165.8	424.5	
ST42-SLRB20-170-M 70	1	20	38	9	170	70	42	40	100	—	—	41.5	M24	142	1.3	21	21	109.5	154	
ST32-SLSB20-175-M 50			29	4.5	175	50	32		125			31.5	M16	80	0.8		—	81	—	
ST42-SLSB20-255-M155					255	155	42		100			41.5	M24	227	1.7		22	194.5		
-SLRB20-330-M 70			38	9	330	70			260					302	2.6		22.6	189.5	314	
-SLSB20-415-M155			29	4.5	415	155								387	2.9	21.6	22	69.5	135	
ST42-SLRB25-170-M 42	2	25	45	10	170	42	42	45	100	70	49.6	53	M24	120	1.5	26	22.6	121	154	
-250-M 42					250				180		49.4	50		80	2.1	25.6	22	81	—	

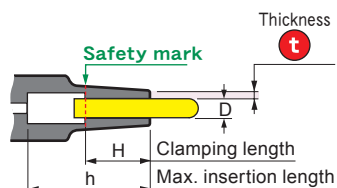
Carbide type



Thickness

Caution

- Setting cutters · Be sure to insert the tool beyond the safety mark.



CODE	ϕD	ϕC	t	L	M	D1	H	L1	L2	$\phi C1$	$\phi C2$	h	Kg	$\phi D2$	$\phi D3$	H1
ST10C-SLSA 3-160	3	6	1.5	160	12	10	9	120	40	7.3	10	19	0.2	4	—	17
ST16C-SLSA 3-280				280		16		182	98				0.7			
ST10C-SLSA 4-160	4	7	1.5	160	12	10	12	120	40	8.3	10	19	0.2	5	—	17
ST16C-SLSA 4-280				280		16		182	98				0.7			
ST12C-SLSB 6-175	6	10	2	175	19.1	12	18	125	50	—	12	27	0.3	7	—	25
ST16C-SLSB 6-225				225	22	16		165	60	12.3	16	32	0.6			28
ST20C-SLSB 6-320				320		20		221	99				1.3		8	
ST25C-SLSB 6-360				360		25		242	118		20	38	2.2			33
ST16C-SLSB 8-225	8	13	2.5	225	22	16	24	165	60	15.3	16	32	0.6	9	—	28
ST20C-SLSB 8-270				270		20		200	70		20	38	1.1			33
ST25C-SLSB 8-360				360		25		242	118				2.2			
ST20C-SLSB10-270	10	16	3	270	22	20	30	200	70	18.3	20	38	1.1	11	—	33
ST25C-SLSB10-360				360		25		242	118				2.2			

The Parts Code List for Carbide Straight Arbor

SET-CODE	CARBIDE SHANK	HEAD
ST10C-SLSA 3-160	ST10C- 7 -120	SH 7 -SLSA 3-40
-SLSA 4-160		-SLSA 4-40
ST12C-SLSB 6-175	ST12C- 9 -125	SH 9 -SLSB 6-50
ST16C-SLSA 3-280	ST16C- 7 -240	SH 7 -SLSA 3-40
-SLSA 4-280		-SLSA 4-40
-SLSB 6-225	-12.5-165	SH12.5 -SLSB 6-60
-SLSB 8-225		SH12.5 -SLSB 8-60
ST20C-SLSB 6-320	ST20C-12.5-260	SH12.5 -SLSB 6-60
-SLSB 8-270	-16 -200	SH16 -SLSB 8-70
-SLSB10-270		SH16 -SLSB10-70
ST25C-SLSB 6-360	ST25C-16 -290	SH16 -SLSB 6-70
-SLSB 8-360		-SLSB 8-70
-SLSB10-360		-SLSB10-70

