

18012 - 18016

Engraver's Points

Type

With rough-ground profile.

Use

For use on tempered and chrome-nickel steel. For engraving lettering, profiling for contours, die-forged and moulded design etc.

18012

Section A

Quality

HSS-EW 9 Co 10 (10 % cobalt).

18014

Section A

Quality

HM K 10.

18016

Section D 60°

Quality

HM K 10.

HSS-E

18012

HM
K10

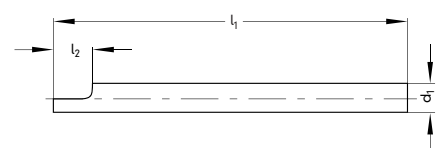
18014

HM
K10

18016

Recommended cutting speeds in m/min.

Material	Engraver's point		Recommended values for Relief Angle
	Steel	Carbide K 10	
Steel, cast steel	50 - 70	60 - 100	-
Steel to 900 N/mm ²	40 - 70	120 - 160	15° - 25°
Steel over 900 N/mm ²	-	50 - 70	-
Brass, aluminium	200 - 250	200 - 400	35°
Plastics (Astralon, Plexiglas, Resopal, etc.)	200 - 300	200 - 600	35°
Light alloy, copper, gold, silver	200 - 250	200 - 400	30°



HSS-E			
d ₁ mm	l ₁ mm	l ₂ mm	18012 ...
2,5	40	6	101
4	60	10	102
6	80	14	103
8	90	16	104
8	125	16	105
10	125	18	106
12	125	18	107

HM-K10			
d ₁ mm	l ₁ mm	l ₂ mm	18014 ... 18016 ...
2,5	40	3	102
3	40	3	103
4	40	4	104
4	60	4	105
6	70	6	107
8	80	8	108
10	80	10	109

18020

Heavy-Duty Tool Bits DIN 4964 A

HSS-E

Type

Round. Hardened throughout, surface ground on all faces. Ready for immediate use after being ground to form.

Quality

HSS-1.3207

(EW 9 Co 10 - cobalt 10%).



18020

HSS-E			
Ø x l mm	18020	...	
4 x 100	103		
5 x 100	105		
6 x 100	107		
8 x 80	110		
8 x 100	111		
8 x 160	113		
10 x 80	115		

HSS-E			
Ø x l mm	18020	...	
10 x 100	116		
10 x 125	117		
10 x 160	118		
10 x 200	119		
12 x 100	122		
12 x 160	124		
14 x 125	127		

HSS-E			
Ø x l mm	18020	...	
16 x 125	131		
16 x 160	132		
18 x 200	135		
20 x 160	138		
20 x 200	139		

18021

Heavy-Duty Tool Bits

VHM

Type

Round. Ground, tolerance h5. Ready for immediate use after being ground to form.

Use

For engraving and profiling contours in tool- and mould making.

Quality

Solid carbide K10/K40.



18021

Solid carbide			
Ø x l mm	18021	...	
3 x 100	101		
4 x 100	102		
5 x 100	103		
6 x 100	104		

Solid carbide			
Ø x l mm	18021	...	
8 x 100	105		
10 x 100	107		
12 x 100	108		

18023

Heavy-Duty Tool Bits DIN 4964 B

HSS-E

Type

Square. Hardened throughout, surface ground on all faces. Ready for immediate use after being ground to form.

Quality

HSS-1.3207
(EW 9 Co 10 - cobalt 10%).

18023



W x H x L mm	HSS-E 18023	...
4 x 4 x 80	102	
5 x 5 x 63	103	
5 x 5 x 100	105	
6 x 6 x 63	106	
6 x 6 x 80	107	
6 x 6 x 100	108	
6 x 6 x 160	110	
8 x 8 x 63	111	
8 x 8 x 80	112	
8 x 8 x 100	113	
8 x 8 x 160	115	
8 x 8 x 200	116	

W x H x L mm	HSS-E 18023	...
10 x 10 x 63	117	
10 x 10 x 80	118	
10 x 10 x 100	119	
10 x 10 x 125	120	
10 x 10 x 160	121	
10 x 10 x 200	122	
12 x 12 x 80	124	
12 x 12 x 100	125	
12 x 12 x 125	126	
12 x 12 x 160	127	
12 x 12 x 200	128	
14 x 14 x 125	129	

W x H x L mm	HSS-E 18023	...
14 x 14 x 200	131	
16 x 16 x 100	132	
16 x 16 x 125	133	
16 x 16 x 160	134	
16 x 16 x 200	135	
20 x 20 x 125	137	
20 x 20 x 160	138	
20 x 20 x 200	139	
25 x 25 x 160	140	
25 x 25 x 200	141	
25 x 25 x 250	142	

18025

Heavy-Duty Tool Bits DIN 4964 D

HSS-E

Type

Rectangular. Hardened throughout, surface ground on all faces. Ready for immediate use after being ground to form.

Quality

HSS-1.3207
(EW 9 Co 10 - cobalt 10%).

18025



W x H x L mm	HSS-E 18025	...
10 x 4 x 100	101	
10 x 4 x 160	102	
10 x 5 x 100	104	
10 x 5 x 160	105	
10 x 6 x 100	107	
10 x 6 x 160	108	
12 x 8 x 100	110	
12 x 8 x 160	111	

W x H x L mm	HSS-E 18025	...
12 x 8 x 200	112	
16 x 8 x 100	113	
16 x 8 x 160	114	
16 x 8 x 200	115	
16 x 10 x 160	116	
20 x 5 x 100	118	
20 x 5 x 160	119	
20 x 10 x 160	121	

W x H x L mm	HSS-E 18025	...
20 x 10 x 200	122	
20 x 12 x 160	123	
20 x 12 x 200	124	
25 x 16 x 200	126	
32 x 16 x 200	127	
40 x 10 x 200	128	

18102

Cutting-Off Tool holders

Type

With clamping claw for sidewise clamping of tool bit.

Use

For cutting off and grooving external grooves for Seeger circlips.

Note:

Size AE for direct clamping of tool bits
cat. no. 18110 101-106.

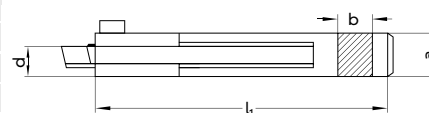
18102 101-102



18102 103-105



Size	b x a x l ₁ mm	d mm	18102	...
A 00	11,0 x 16 x 100	12		101
A 0	11,0 x 18 x 125	14		102
A I/II a	14,5 x 22 x 170	20		103
A III a	18,0 x 27 x 210	25		104
AE	11,0 x 18 x 125	14		105



18104 - 18106

Tool bits

18104
Quality
HSS, quality F (12% tungsten, 5% cobalt).

18106
Quality
With carbide quality cutting blade P20.

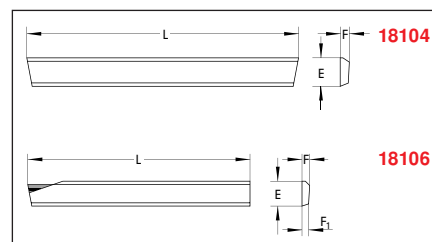


18104



18106

E x F/F ₁ x L mm	for holder Size	HSS/F		HM/P20	
		18104	...	18106	...
8,0 x 2,2 x 75	A 00	101			
10,0 x 2,7 x 100	A 0	102		102	
16,0 x 4/3 x 150	A I/II a	103		103	
18,5 x 5/4 x 150	A III a	104		104	

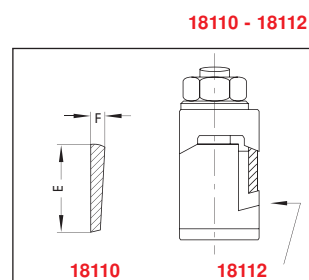


18110 - 18112

Special Tool Bits and Inserts

18110
Tool Bits
Use
For Seeger circlip grooves, tolerance H11, for holder
AI/IIa and/or AE (cat. no.18102 103 and/or 105
Quality
HSS, quality F (12% tungsten, 5% cobalt).

18112
Insert
Note:
Tools for Seeger circlip recesses A0,9 up to A 2,15
can be clamped directly in holder AE or in holder
AI/IIa using this shim. Tools A 2,65 up to A 5,15 can
be mounted directly into holder AI/IIa.



Size	for ring width mm	F mm	E mm	length mm	HSS/F		insert	
					18110	...	18112	...
A 0,9	0,80	0,90	11	80	101		101	
A 1,1	1,00	1,10	11	80	102			
A 1,3	1,20	1,30	11	80	103			
A 1,6	1,50	1,60	11	80	104			
A 1,85	1,75	1,85	11	80	105			
A 2,15	2,00	2,15	11	80	106			
A 2,65	2,50	2,65	16	150	107			
A 3,15	3,00	3,15	16	150	108			
A 4,15	4,00	4,15	16	150	109			
A 5,15	5,00	5,15	16	150	110			

18150

External thread tool holders

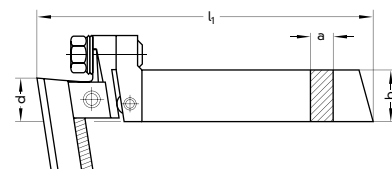
Type
Resilient to prevent thread-cutting bit breakage due
to excess pressure or catching. Swivel head enables
the lead angle to be easily set to any thread lead for
right and left-hand thread (locked by stop screw).

Note:
Only re-sharpen blades on the face – uniform
profile, grinding of the cutting angle in accordance
with face grinding gauge that is included with every
holder, otherwise errors on the basic profile.

Size	a x b x l ₁ mm	d mm	18150	...
FG I	10 x 22 x 145	15	101	
FG II	13 x 29 x 175	20	102	



18150



18152 - 18154

Thread-Cutting Bits

18152

Use

For metric ISO threads 60°.

Quality

HSS, quality F (12% tungsten, 5% cobalt).

Note:

Only re-sharpen blades on the face— uniform profile, grinding of the cutting angle in accordance with face grinding gauge that is included with every holder, otherwise errors on the basic profile.

18152



18154

Use

For Whitworth screw threads 55°.

Quality

HSS, quality F (12% tungsten, 10% cobalt).

Lead to mm	Lead to threads/inch	Length mm	For tool holders size	60°/HSS/F		55°/HSS/F	
				18152	...	18154	...
3	8,0	42	F I		101		101
4	6,5	50	F II		102		102

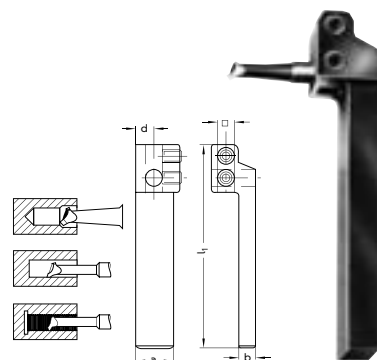
18200

Tool holders

Use

For internal machining. With receptacle for square tool holder bits cat. no. 18020-18023, as well as re-boring steels cat.no. 18209-18233.

18200



Type size	For tool holder bits square mm	For tool holder bits round Ø mm	a x b x L ₁ mm	d mm	18200	...
KD 8	8 x 8	8	21 x 12 x 120	10,5		101
KD 10	10 x 10	10	21 x 12 x 120	10,5		102

18202

Boring Tool holders

Use

For clamping shank-boring tools (cat. no. 18209-18233). For boreholes from 3 mm.

18202 101

Use

For bits: Size 01- 05 standard and extended.

18202 102

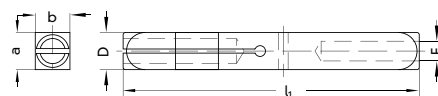
Use

For bits: Size 01- 06 standard and extended. size 01- 05 shank-Ø 10 mm.

18202



Size	a x b mm	Holder holes D + E mm	L ₁ mm	Tool cutting height mm	18202	...
B 8	12 x 12	8	100	6,0		101
B 10	15 x 15	8 + 10	125	7,5		102



18209 - 18210

Rough Boring Tools

Type

Shape g.

Use

For through holes.

Quality

HSS, finishing class H (11% tungsten, 10% cobalt).

18209

Type

Standard model.

18210

Type

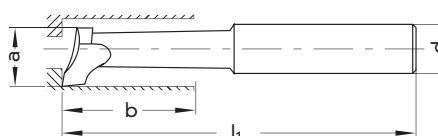
Extended model. Overall length L₁ = 125 mm.

18209

18210



Size	a mm	L ₁ mm	b mm	d mm	HSS/H		long HSS/H	
					18209	...	18210	...
01	3	60	20	8		101		
02	5	60	24	8		102		202
03	7	65	26	8		103		203
04	9	75	30	8		104		204
05	12	80	50	8		105		205
06	14	95	60	10		106		206



18215 - 18216

Bent Boring Tools

Type

Shape f.

Use

For blind holes.

Quality

HSS, finishing class H (11% tungsten, 10% cobalt).

18215

Type

Standard model.

18216

Type

Extended model. Overall length $l_1 = 125$ mm.

18215 - 18216



Size	a mm	l_1 mm	b mm	d mm	HSS/H		long HSS/H	
					18215	...	18216	...
01	3	60	20	8		101		201
02	5	60	24	8		102		202
03	7	65	26	8		103		203
04	9	75	30	8		104		204
05	12	80	50	8		105		205
06	14	95	60	10		106		



18221 - 18226

Internal Thread-Cutting Tools

Quality

HSS, finishing class H (11% tungsten, 10% cobalt).

18221

Type

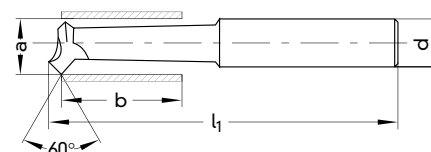
Standard, for metric ISO threads 60°.

18226

Type

Standard model, for Whitworth screw thread 55°.

18221 - 18226



Size	a mm	l_1 mm	b mm	d mm	Lead to mm	Lead to Threads/inch	60°/HSS/H		55°/HSS/H	
							18221	...	18226	...
01	3	60	20	8	1,0	-		101		
02	5	60	24	8	1,0	-		102		
03	7	65	26	8	1,5	16-50		103		203
04	9	75	30	8	1,5	16-50		104		204
05	12	80	50	8	2,0	12-40		105		205
06	14	95	60	10	3,0	8-30		106		206

18233

Internal Recessing Tools

Type

Shape h, standard, for keyway width 1,1 mm.

Quality

HSS, finishing class H (11% tungsten, 10% cobalt).

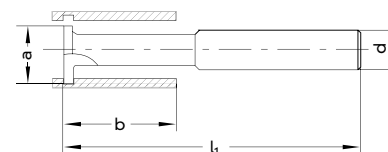
Note:

Standard grooving width 1,1 mm.

18233



Size	a mm	l_1 mm	b mm	d mm	HSS/H	
					18233	...
01	3	60	20	8		101
02	5	60	24	8		102
03	7	65	26	8		103
04	9	75	30	8		104
05	12	80	50	8		105
06	14	95	60	10		106

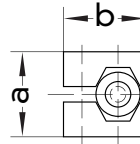


18246

Boring Tool Holders

Use

For clamping boring bars in the Vee-notch receptacle of the holder.
For boring bars cat. no. 18247.



18246

For size	Holders a x b mm	Length mm	For boring bars d mm	18246	...
B 1	20 x 19	110	10		101
B 1a/2	27 x 23	150	13		102
B 2a/2b/3	40 x 30	180	20		104

18247

Boring Bars

Use

For screwing on the cutting heads
cat. no. 18301-18314.
For tool holders cat. no. 18246.



18247

Size	For bores starting at mm	Cutting edge height mm	Boring bar Ø mm	Length mm	18247	...
B 1	16	10	10	180		101
B 1a	18	14	13	220		102
B 2	21	14	13	250		103
B 2a	24	20	20	275		104
B 2b	28	20	20	300		105
B 3	30	20	20	325		106

18301 - 18303

Screw-on Boring Heads

Use

For mounting on boring bars cat. no. 18247.

Quality

HSS, quality F (12% tungsten, 5% cobalt).

18301

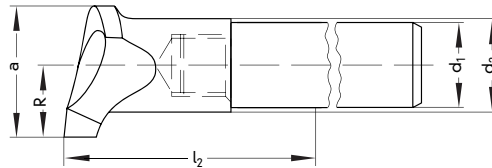
Type

Shape f, bent boring tool for facing and boring of blind holes and for facing.

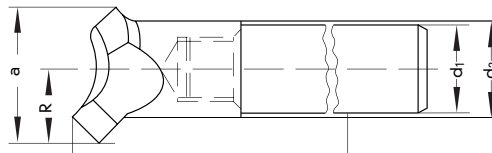
18303

Type

Shape g, roughing tool for facing and boring of through-holes.



18301



18303

For boring bar	a for Ø mm starting at	l ₂ mm	R mm	d ₂ mm	d ₁ boring bar mm	Shape f/HSS/F		Shape g/HSS/F	
						18301	...	18303	...
B 1	16	80	9,0	11,5	10		101		101
B 1a	18	85	10,3	13,5	13		102		102
B 2	21	115	12,0	16,0	13		103		103
B 2a	24	120	13,5	18,0	20		104		104
B 2b	28	140	15,5	20,2	20		105		105
B 3	30	165	16,8	21,5	20		106		106



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Performance requires quality.

For example, with the boring bar from ATORN.

- For double-sided threading inserts
- Support plate with anti-vibration geometry
- Patent applied for

ATORN®
Performance requires quality.

18306 - 18307

Carbide Boring Heads

Use

For mounting on boring bars cat. no. 18247.

Quality

Carbide quality P 20.

18306

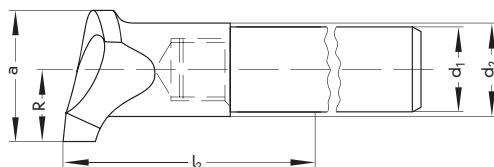
Type

Shape f, bent boring tool for facing and boring of blind holes and for facing.

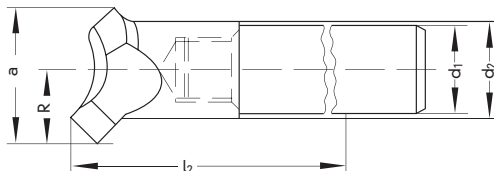
18307

Type

Shape g, roughing tool for facing and boring of through-holes.



18306



18307

For boring bars	a for Ø mm starting at	l ₂ mm	R mm	d ₂ mm	d ₁ boring bar mm	Shape f/P20		Shape g/P20	
						18306	...	18307	...
B 1	16	80	9,0	11,5	10				101
B 1a	18	85	10,3	12,5	13		102		
B 2	21	115	12,0	16,0	13		103		103
B 2a	24	120	13,5	18,0	20		104		
B 2b	28	140	15,5	20,2	20		105		105
B 3	30	165	16,8	21,5	20				106

18310

Internal Thread-Cutting Tools

Type

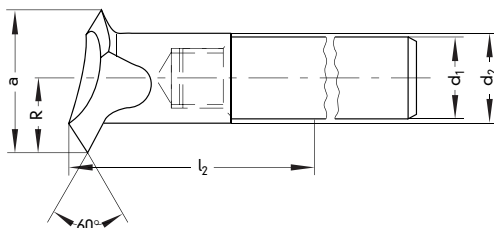
For metric ISO threads 60°.

Use

For mounting on boring bars cat. no. 18247.

Quality

HSS, quality F (12% tungsten, 5% cobalt).



18310

For boring bars	a bore starting at mm	l ₂ mm	R mm	d ₂ mm	d ₁ boring bar mm	Thread lead to mm	Thread lead to threads/inch	60°/HSS/F	
								18310	...
B 1	16	80	9,0	11,5	10	4	6,5		101
B 1a	18	85	10,3	12,5	13	5	5,0		102
B 2	21	115	12,0	15,0	13	6	4,0		103
B 2a	24	120	13,5	17,0	20	7	3,5		104
B 2b	28	140	15,5	20,2	20	8	3,0		105
B 3	30	165	16,8	21,5	20	9	2,5		106

18314

Internal Thread-Cutting Tools

Type

For trapezoidal threads.

Use

For mounting on boring bars cat. no. 18247.

Quality

HSS, quality F (12% tungsten, 5% cobalt).



18314

For boring bars	Min. core Ø mm	Lead mm	TR/HSS/F	
			18314	...
B 1	16	3		101
B 1a	18	4		102
B 2	21	5		103
B 2a	24	6		104
B 3	30	8		106

18137

Recessing Tool Assortments

18137 201

Type

With two cutting edges on each indexable inserts for extremely small grooving tasks.

Set contents:

1 holder, right, 12 x 12 x 120 mm, 1 each indexable inserts for 0,9 / 1,1 / 1,3 / 1,6 / 1,85 mm.

In case, incl. TORX key T8.

Use

For circlip grooves.

Quality

Indexable inserts P 25 PVD/TiN-coated

18137 501

Clamp screws for grooving tool assortment (cat. no. 18137 201), grooving tool holder (cat. no. 18130) and grooving boring bars (cat. no. 18133).

18137 201



18137 501



Set contents	Size	TORX Size		18137	...
7-part	-	-			201
-	M 3 x 8	T 8	10 pcs.		501

18130

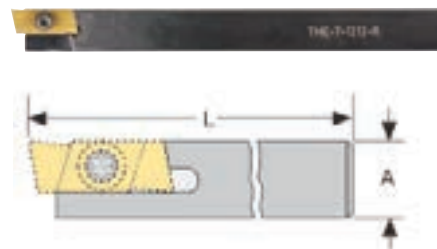
External Recessing Holders

Use

For grooving indexable inserts cat. no. 18138.

18130

Holder designation	A mm	L mm	Right-hand	
			18130	...
THE 1010	10	120		102
THE 1212	12	120		103
THE 1616	16	125		104



18133

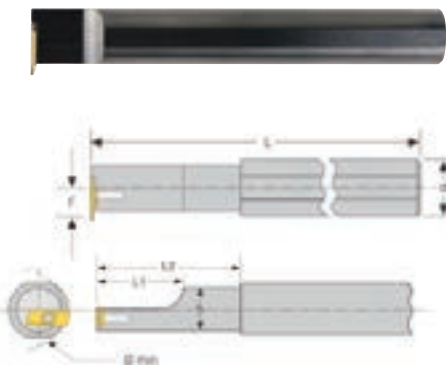
Recessing Boring Bars, Left-Hand

Use

For grooving indexable inserts cat. no. 18138.

18133

Holder designation	d mm	h mm	L mm	L ₁ mm	L ₂ mm	F mm	D min. mm	18133	...
THI-7-20	20	19,05	140	25	50	13,34	38,1		201



18138

Indexable Inserts for Grooving

Use

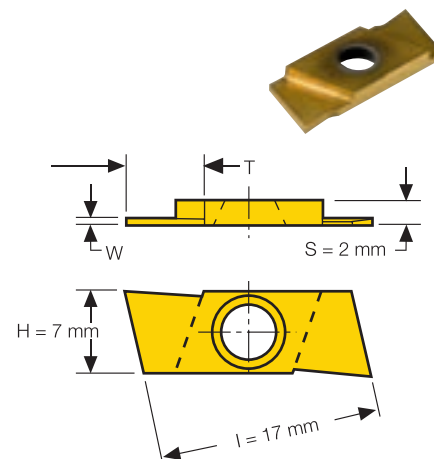
For circlip grooves. Suitable for assortment cat. no. 18137.

Quality

P 25 PVD/TiN-coated.

18138

W +0,02/0 mm	T mm		P 25/TiN	
			18138	...
0,50	2,54	10 pcs.		210
0,70	2,54	10 pcs.		211
0,80	2,54	10 pcs.		212
0,90	2,54	10 pcs.		213
1,10	6,00	10 pcs.		214
1,30	6,00	10 pcs.		215
1,60	6,00	10 pcs.		216
1,85	6,00	10 pcs.		217




ATORN®
Type

Right-hand cut, with internal coolant flow.

Quality

Cutting inserts TiN-coated.

18320 101
Cutting tool set mini-bore 1
Use

For inside re-boring, inside cutting-off and chamfering. For internal machining starting at hole diameters of 3 mm.

18320 102
Cutting tool set mini-bore 2
Use

For internal cutting-off. For Internal Machining Starting at hole diameters of 4 mm.

18320 103
Cutting tool set mini-bore 3
Use

 For internal facing and boring.
For Internal Machining
Starting at hole diameters of 3 mm.

18320 101

18320 102



18320 103



Fig. A

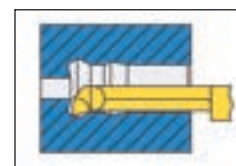


Fig. E

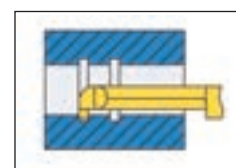
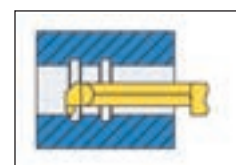


Fig. F


18320 101 mini-bore 1

Set contents	Designation	Bore Ø mm	Boring Depth mm	Grooving Depth mm	Grooving Width mm	Fig.
1x tool holder	676.0016-D	-	-	-	-	-
1x tool holder	645.0016-D	-	-	-	-	-
1x Allen key	111.645	-	-	-	-	-
1x cutting insert	R 050.6-22	6	22	-	-	A
1x cutting insert	R 050.5-20	5	20	-	-	A
1x cutting insert	R 060.5-20	5	20	-	-	F
1x cutting insert	R 050.4-16	4	16	-	-	A
1x cutting insert	R 050.3-16	3	16	-	-	A
1x cutting insert	R 006.0200-22	6	22	1,8	2,0	E
1x cutting insert	R 006.0150-22	6	22	1,8	1,5	E
1x cutting insert	R 005.0200-20	5	20	1,0	2,0	E
1x cutting insert	R 005.0150-20	5	20	1,0	1,5	E
1x cutting insert	R 004.0100-16	4	16	0,8	1,0	E

18320 102 mini-bore 2

Set contents	Designation	Bore Ø mm	Boring Depth mm	Grooving Depth mm	Grooving Width mm	Fig.
1x tool holder	676.0016-D	-	-	-	-	-
1x tool holder	645.0016-D	-	-	-	-	-
1x Allen key	111.645	-	-	-	-	-
1x cutting insert	R 006.0200-22	6	22	1,8	2,0	E
1x cutting insert	R 006.0150-22	6	22	1,8	1,5	E
1x cutting insert	R 005.0200-20	5	20	1,0	2,0	E
1x cutting insert	R 005.0150-20	5	20	1,0	1,5	E
1x cutting insert	R 004.0100-16	4	16	0,8	1,0	E

18320 103 mini-bore 3

Set contents	Designation	Bore Ø mm	Boring Depth mm	Grooving Depth mm	Grooving Width mm	Fig.
1x tool holder	676.0016-D	-	-	-	-	-
1x tool holder	645.0016-D	-	-	-	-	-
1x Allen key	111.645	-	-	-	-	-
1x cutting insert	R 050.6-22	6	22	-	-	A
1x cutting insert	R 050.5-20	5	20	-	-	A
1x cutting insert	R 050.4-16	4	16	-	-	A
1x cutting insert	R 050.3-16	3	16	-	-	A

18320 ...

mini-bore 1

101

mini-bore 2

102

mini-bore 3

103

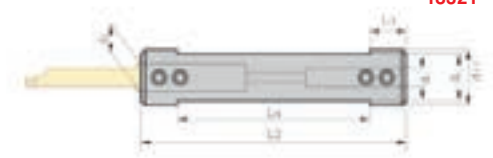



ATORN®
Type

Tool holder with 2 clamping Ø. internal coolant feed.
Built-in depth gauge for exact repeatability.

Use

For cutting insert cat. no. 18322-18329.



18321

Model	For cutting insert Ø mm	Ødg6 mm	L ₂ mm	L ₃ mm	L ₄ mm	h mm	18321	...
645.0012-D	4/5	12	75	10	55	10,3		101
645.0016-D	4/5	16	75	10	55	14,0		102
645.0020-D	4/5	20	90	10	70	18,0		103
676.0016-D	6/7	16	75	10	55	14,0		104
676.0020-D	6/7	20	90	10	70	18,0		105

18322 - 18325
Cutting inserts for system mini-bore
**VHM
TiN**

ATORN®
Type

With straight shank and lateral clamping surface for accommodation in the tool holder

Use

For turning inside diameters starting at borehole
Ø 0,6 mm.

Quality

Carbide finest grit HC8615/TiN-coated.

18322 101-120

Right-hand cut, for tool holders 645.0012-D,
645.0016-D and 645.0020-D
(cat. no. 18321 101-103).

18323 101-120

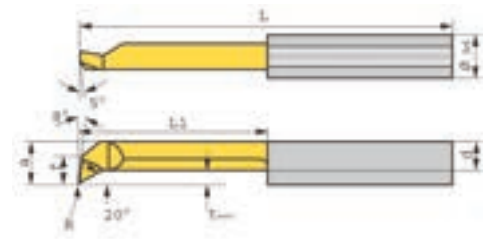
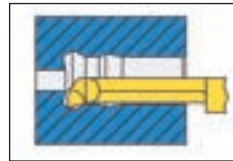
Left-hand cut, for tool holders 645.0012-D,
645.0016-D and 645.0020-D
(cat. no. 18321 101-103).

18324 101-111

Right-hand cut, for tool holders 676.0016-D,
645.0016-D and 676.0020-D
(cat. no. 18321 104-105).

18325 101-111

Left-hand cut, for tool holder 676.0016-D,
645.0016-D and 676.0020-D
(cat. no. 18321 104-105).



Model	Ø h6 mm	f mm	d mm	a mm	L mm	L ₁ mm	t max. mm	D min. mm	R mm	Right-hand		Left-hand	
										18322	...	18323	...
R/L 050.06-2	4	-	0,4	0,5	20	2	0,08	0,6	0,04		101		101
R/L 050.06-3	4	-	0,4	0,5	20	3	0,08	0,6	0,04		102		102
R/L 050.15-5	4	-	1,15	1,3	19	5	0,1	1,5	0,05		103		103
R/L 050.15-10	4	-	1,15	1,3	24	10	0,1	1,5	0,05		104		104
R/L 050.2-5	4	-	1,5	1,7	19	5	0,1	2,0	0,05		105		105
R/L 050.2-10	4	-	1,5	1,7	24	10	0,1	2,0	0,05		106		106
R/L 050.2-15	4	-	1,5	1,7	29	15	0,1	2,0	0,05		107		107
R/L 050.3-10	4	0,6	2,3	2,6	24	10	0,2	2,8	0,1		108		108
R/L 050.3-16	4	0,6	2,3	2,6	30	16	0,2	2,8	0,1		109		109
R/L 050.3-20	4	0,6	2,3	2,6	34	20	0,2	2,8	0,1		110		110
R/L 050.4-10	4	1,5	3,0	3,5	24	10	0,3	4,0	0,1		111		111
R/L 050.4-16	4	1,5	3,0	3,5	30	16	0,3	4,0	0,1		112		112
R/L 050.4-20	4	1,5	3,0	3,5	34	20	0,3	4,0	0,1		113		113
R/L 050.4-24	4	1,5	3,0	3,5	38	24	0,3	4,0	0,1		114		114
R/L 050.5-10	5	1,9	3,8	4,4	25	10	0,5	5,0	0,15		116		116
R/L 050.5-20	5	1,9	3,8	4,4	35	20	0,5	5,0	0,15		118		118
R/L 050.5-30	5	1,9	3,8	4,4	45	30	0,5	5,0	0,15		120		120

Model	Ø h6 mm	f mm	d mm	a mm	L mm	L ₁ mm	t max. mm	D min. mm	R mm	Right-hand		Left-hand	
										18324	...	18325	...
R/L 050.6-15	6	2,3	4,5	5,3	30	15	0,5	6,0	0,15		101		101
R/L 050.6-22	6	2,3	4,5	5,3	37	22	0,5	6,0	0,15		102		102
R/L 050.6-25	6	2,3	4,5	5,3	40	25	0,5	6,0	0,15		103		103
R/L 050.6-35	6	2,3	4,5	5,3	50	35	0,5	6,0	0,15		105		105
R/L 050.7-20	7	2,8	5,5	6,3	35	20	0,6	6,8	0,15		107		107
R/L 050.7-30	7	2,8	5,5	6,3	45	30	0,6	6,8	0,15		109		109
R/L 050.7-40	7	2,8	5,5	6,3	55	40	0,6	7,0	0,15		111		111



Cutting-Off and Grooving Tools

18326 - 18327

Cutting inserts for system mini-bore

VHM
TiN



ATORN®

Type

With straight shank and lateral clamping surface for accommodation in the tool holder

Use

For internal grooving starting at borehole Ø 4 mm.

Quality

Carbide finest grit HC8615/TiN-coated.

18326 101-119

Right-hand cut, for tool holders 645.0012-D, 645.0016-D and 645.0020-D (cat. no. 18321 101-103).

18327 101-119

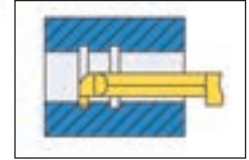
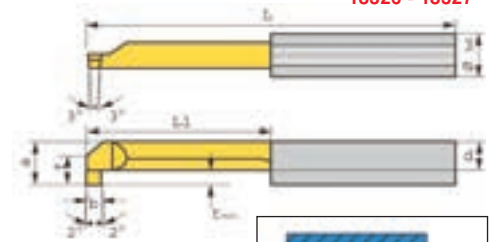
Left-hand cut, for tool holders 645.0012-D, 645.0016-D and 645.0020-D (cat. no. 18321 101-103).

18326 127-159

Right-hand cut, for tool holders 676.0016-D, 645.0016-D and 676.0020-D (cat. no. 18321 104-105).

18327 127-159

Left-hand cut, for tool holders 676.0016-D, 645.0016-D and 676.0020-D (cat. no. 18321 104-105).



Model	Ø h6 mm	b + 0,05 mm	f mm	d mm	a mm	L mm	L1 mm	t max. mm	D min. mm	Right-hand		Left-hand	
										18326	...	18327	...
R/L 060.5-20	4	1,0	1,5	2,4	3,5	24	10	0,8	4,0		101		101
R/L 060.5-20	4	1,0	1,5	2,4	3,5	30	16	0,8	4,0		102		102
R/L 060.5-20	4	1,0	1,5	2,4	3,5	34	20	0,8	4,0		103		103
R/L 060.5-20	5	1,5	1,9	3,3	4,4	25	10	1,0	5,0		110		110
R/L 060.5-20	5	1,5	1,9	3,3	4,4	35	20	1,0	5,0		112		112
R/L 005.0150-30	5	1,5	1,9	3,3	4,4	45	30	1,0	5,0		114		114
R/L 005.0200-10	5	2,0	1,9	3,3	4,4	25	10	1,0	5,0		115		115
R/L 005.0200-20	5	2,0	1,9	3,3	4,4	35	20	1,0	5,0		117		117
R/L 005.0200-30	5	2,0	1,9	3,3	4,4	45	30	1,0	5,0		119		119
R/L 006.0150-10	6	1,5	2,3	3,4	5,3	25	10	1,8	6,0		127		127
R/L 006.0150-22	6	1,5	2,3	3,4	5,3	37	22	1,8	6,0		129		129
R/L 006.0150-30	6	1,5	2,3	3,4	5,3	45	30	1,8	6,0		131		131
R/L 006.0200-10	6	2,0	2,3	3,4	5,3	25	10	1,8	6,0		133		133
R/L 006.0200-22	6	2,0	2,3	3,4	5,3	37	22	1,8	6,0		135		135
R/L 006.0200-25	6	2,0	2,3	3,4	5,3	40	25	1,8	6,0		136		136
R/L 007.0100-15	7	1,0	2,8	3,8	6,3	30	15	2,5	6,8		139		139
R/L 007.0100-25	7	1,0	2,8	3,8	6,3	40	25	2,5	6,8		141		141
R/L 007.0100-40	7	1,0	2,8	3,8	6,3	55	40	2,5	7,0		144		144
R/L 007.0100-50	7	1,0	2,8	3,8	6,3	65	50	2,5	7,0		146		146
R/L 007.0150-15	7	1,5	2,8	3,8	6,3	30	15	2,5	6,8		148		148
R/L 007.0150-25	7	1,5	2,8	3,8	6,3	40	25	2,5	6,8		150		150
R/L 007.0150-40	7	1,5	2,8	3,8	6,3	55	40	2,5	7,0		153		153
R/L 007.0200-15	7	2,0	2,8	3,8	6,3	30	15	2,5	6,8		155		155
R/L 007.0200-25	7	2,0	2,8	3,8	6,3	40	25	2,5	6,8		157		157
R/L 007.0200-35	7	2,0	2,8	3,8	6,3	50	35	2,5	7,0		159		159

18328 - 18329

Cutting inserts for system mini-bore

VHM
TiN



ATORN®

Type

With straight shank and lateral clamping surface for accommodation in the tool holder.

Use

For turning inside diameters starting at borehole Ø 5 mm.

Quality

Carbide finest grit HC8615/TiN-coated.

18328 102

Right-hand cut, for tool holders 645.0012-D, 645.0016-D and 645.0020-D (cat. no. 18321 101-103).

18329 102

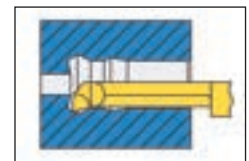
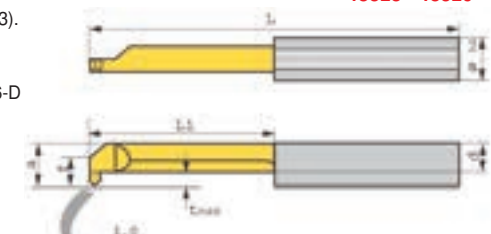
Left-hand cut, for tool holders 645.0012-D, 645.0016-D and 645.0020-D (cat. no. 18321 101-103).

18328 103

Right-hand cut, for tool holders 676.0016-D, 645.0016-D and 676.0020-D (cat. no. 18321 104-105).

18329 103

Left-hand cut, for tool holders 676.0016-D, 645.0016-D and 676.0020-D (cat. no. 18321 104-105).



Model	Ø h6 mm	r mm	f mm	d mm	a mm	L mm	L1 mm	t max. mm	D min. mm	Right-hand		Left-hand	
										18328	...	18329	...
R/L 060.5-20	5	0,2	1,9	3,3	4,4	35	20	0,7	5,0		102		102
R/L 060.5-20	7	0,2	2,7	3,8	6,3	35	20	0,7	6,8		103		103


ATORN®
Type

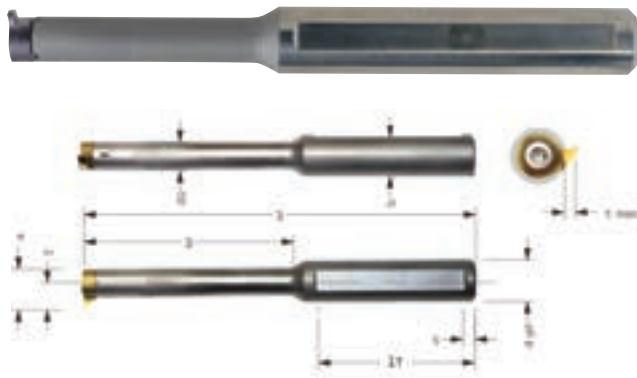
With internal coolant feed.

Use

For cutting-off, facing and boring as well as tapping (inside) from Ø 7,8 mm.

18335
Carbide tool holders
18336
Steel tool holders

18335



18336


Carbide tool holder

Designation	Ø dg6 mm	l2 mm	l1 mm	l7 mm	d1 mm	f mm	a mm	h mm	for Tip	t max. mm	d min. mm	Clamping screw	18335	...
608.0012.1 HM	12	21	80	48	6	4,8	7,8	11,0	R/LS08	1,0	8	M 2,6-MC		101
608.0012.2 HM	12	30	90	48	6	4,8	7,8	11,0	R/LS08	1,0	8	M 2,6-MC		102
608.0012.3 HM	12	42	100	48	6	4,8	7,8	11,0	R/LS08	1,0	8	M 2,6-MC		103
608.0012.4 HM	12	50	115	48	6	4,8	7,8	11,0	R/LS08	1,0	8	M 2,6-MC		104
611.0012.1 HM	12	29	95	60	8	6,7	10,7	10,5	R/LS11	2,3	11	M 3,5-MC		105
611.0012.2 HM	12	42	110	60	8	6,7	10,7	10,5	R/LS11	2,3	11	M 3,5-MC		106
611.0012.3 HM	12	56	120	60	8	6,7	10,7	10,5	R/LS11	2,3	11	M 3,5-MC		107
611.0012.4 HM	12	64	130	60	8	6,7	10,7	10,5	R/LS11	2,3	11	M 3,5-MC		108
614.0012.1 HM	12	34	100	60	9,5 x 11	9,0	13,8	10,5	R/LS14	4,0/6,5	14/17	M 4-MC		109
614.0012.2 HM	12	45	110	60	9,5 x 11	9,0	13,8	10,5	R/LS14	4,0/6,5	14/17	M 4-MC		110
614.0012.3 HM	12	64	130	60	9,5 x 11	9,0	13,8	10,5	R/LS14	4,0/6,5	14/17	M 4-MC		111
614.0016.1 HM	16	34	100	60	9,5 x 11	9,0	13,8	14,5	R/LS14	4,0/6,5	14/17	M 4-MC		112
614.0016.2 HM	16	45	110	60	9,5 x 11	9,0	13,8	14,5	R/LS14	4,0/6,5	14/17	M 4-MC		113
614.0016.3 HM	16	64	130	60	9,5 x 11	9,0	13,8	14,5	R/LS14	4,0/6,5	14/17	M 4-MC		114
614.0016.4 HM	16	75	145	60	9,5 x 11	9,0	13,8	14,5	R/LS14	4,0/6,5	14/17	M 4-MC		115
616.0012.1 HM	12	40	130	60	11	10,2	15,7	10,5	R/LS16	4,3	16	M 5-MC		116
616.0012.2 HM	12	56	130	60	11	10,2	15,7	10,5	R/LS16	4,3	16	M 5-MC		117
616.0012.3 HM	12	80	150	60	11	10,2	15,7	10,5	R/LS16	4,3	16	M 5-MC		118
616.0016.1 HM	16	40	130	60	11	10,2	15,7	14,5	R/LS16	4,3	16	M 5-MC		119
616.0016.2 HM	16	56	130	60	11	10,2	15,7	14,5	R/LS16	4,3	16	M 5-MC		120
616.0016.3 HM	16	80	150	60	11	10,2	15,7	14,5	R/LS16	4,3	16	M 5-MC		121

Steel tool holder, short

Designation	Ø dg6 mm	l2 mm	l1 mm	d1 mm	f mm	a mm	h mm	for Cutting insert	t max. mm	d min. mm	Clamping screw	18336	...
608.0016.1 ST	16	12	80	6	4,8	7,8	15,0	R/LS08	1,0	8	M 2,6-MC		101
611.0016.2 ST	16	16	97	8	6,7	10,7	14,5	R/LS11	2,3	11	M 3,5-MC		102
614.0016.3 ST	16	18	100	9,5 x 11	9,0	13,8	14,5	R/LS14	4,0/6,5	14/17	M 4-MC		103
616.0016.3 ST	16	22	100	11	10,2	15,7	14,5	R/LS16	4,3	16	M 5-MC		104

Steel tool holder, long

Designation	Ø dg6 mm	l2 mm	l1 mm	d1 mm	f mm	a mm	h mm	for Cutting insert	t max. mm	d min. mm	Clamping screw	18336	...
608.0016.1E.ST	16	22	90	6 x 7	4,8	7,8	15,0	R/LS08	1,0	8	M 2,6-MC		201
611.0016.2E.ST	16	29	110	8 x 9,5	6,7	10,7	14,5	R/LS11	2,3	11	M 3,5-MC		202
614.0016.3E.ST	16	38	120	9,5 x 11	9,0	13,8	14,5	R/LS14	4,0/6,5	14/17	M 4-MC		203
616.0016.3E.ST	16	42	120	11 x 13,5	10,2	15,7	14,5	R/LS16	4,3	16	M 5-MC		204

18337 101-104


Clamping screw

Designation	18337	...
M 2,6-MC		101
M 3,5-MC		102
M 4-MC		103
M 5-MC		104



ATORN®

- For Seeger circlip grooves
- Carbide/HC8620 TiAlN-coated

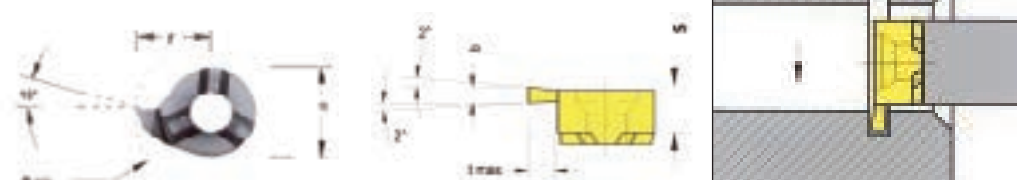


18340

Designation	D min. mm	t max. mm	b + 0,03 mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								for 18340	...	for 18340	...
R/LS008.0070	8	1,0	0,73	6	4,8	3,3	608		101		201
R/LS008.0080	8	1,0	0,83	6	4,8	3,3	608		102		202
R/LS008.0090	8	1,0	0,93	6	4,8	3,3	608		103		203
R/LS008.0110	8	1,0	1,20	6	4,8	3,3	608		104		204
R/LS008.0130	8	1,0	1,40	6	4,8	3,3	608		105		205
R/LS008.0160	8	1,0	1,70	6	4,8	3,3	608		106		206
R/LS011.0070	11	1,2	0,73	8	6,7	4,2	611		107		207
R/LS011.0080	11	1,3	0,83	8	6,7	4,2	611		108		208
R/LS011.0090	11	1,5	0,93	8	6,7	4,2	611		109		209
R/LS011.0110	11	2,3	1,20	8	6,7	4,2	611		110		210
R/LS011.0130	11	2,3	1,40	8	6,7	4,2	611		111		211
R/LS011.0160	11	2,3	1,70	8	6,7	4,2	611		112		212
R/LS014.0070	14	1,2	0,73	9	9,0	5,3	614		113		213
R/LS014.0080	14	1,3	0,83	9	9,0	5,3	614		114		214
R/LS014.0090	14	1,5	0,93	9	9,0	5,3	614		115		215
R/LS014.0110	14	4,0	1,20	9	9,0	5,3	614		116		216
R/LS014.0130	14	4,0	1,40	9	9,0	5,3	614		117		217
R/LS014.0160	14	4,0	1,70	9	9,0	5,3	614		118		218
R/LS016.0070	16	1,2	0,73	11	10,2	5,4	616		119		219
R/LS016.0080	16	1,3	0,83	11	10,2	5,4	616		120		220
R/LS016.0090	16	1,5	0,93	11	10,2	5,4	616		121		221
R/LS016.0110	16	4,3	1,20	11	10,2	5,4	616		122		222
R/LS016.0130	16	4,3	1,40	11	10,2	5,4	616		123		223
R/LS016.0160	16	4,3	1,70	11	10,2	5,4	616		124		224

ATORN®

- Cutting-off general
- Carbide/HC8620 TiAlN-coated



18341

Designation	D min. mm	t max. mm	b + 0,03 mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								for 18341	...	for 18341	...
R/LS008.0100	8	1,0	1,0	6	4,8	3,3	608		101		201
R/LS008.0150	8	1,0	1,5	6	4,8	3,3	608		102		202
R/LS008.0200	8	1,0	2,0	6	4,8	3,3	608		103		203
R/LS011.0100	11	2,3	1,0	8	6,7	4,2	611		104		204
R/LS011.0150	11	2,3	1,5	8	6,7	4,2	611		105		205
R/LS011.0200	11	2,3	2,0	8	6,7	4,2	611		106		206
R/LS011.0250	11	2,3	2,5	8	6,7	4,2	611		107		207
R/LS011.0300	11	2,3	3,0	8	6,7	4,2	611		108		208
R/LS014.0150	14	4,0	1,5	9	9,0	5,3	614		109		209
R/LS014.0200	14	4,0	2,0	9	9,0	5,3	614		110		210
R/LS014.0250	14	4,0	2,5	9	9,0	5,3	614		111		211
R/LS014.0300	14	4,0	3,0	9	9,0	5,3	614		112		212
R/LS016.0150	16	4,3	1,5	11	10,2	5,4	616		113		213
R/LS016.0200	16	4,3	2,0	11	10,2	5,4	616		114		214
R/LS016.0250	16	4,3	2,5	11	10,2	5,4	616		115		215
R/LS016.0300	16	4,3	3,0	11	10,2	5,4	616		116		216
R/LS016.0350	16	4,3	3,5	11	10,2	5,4	616		117		217
R/LS016.0400	16	4,3	4,0	11	10,2	5,4	616		118		218

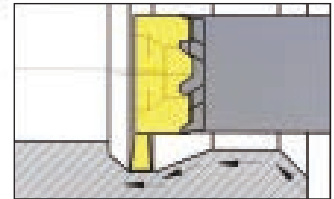
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ATORN®

RCI for finishing

- Maximum cutting depth = 0,02 mm
- Carbide/HC8620 TiAlN-coated

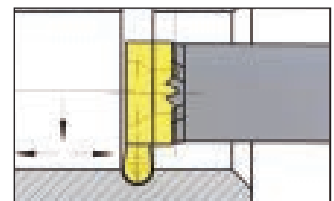
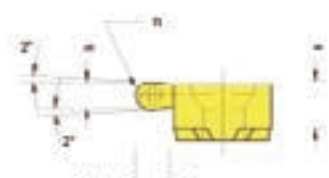


18342

Designation	D min. mm	t max. mm	b + 0,05 mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								for 18342	...	for 18342	...
R/LS08.150.02	8	1,0	1,5	6	4,8	3,3	608		101		201
R/LS08.200.02	8	1,0	2,0	6	4,8	3,3	608		102		202
R/LS11.150.02	11	2,3	1,5	8	6,7	4,2	611		103		203
R/LS11.200.02	11	2,3	2,0	8	6,7	4,2	611		104		204
R/LS14.150.02	14	4,0	1,5	9	9,0	5,3	614		105		205
R/LS14.200.02	14	4,0	2,0	9	9,0	5,3	614		106		206
R/LS16.200.02	16	4,3	2,0	11	10,2	5,4	616		107		207

ATORN®

- Full radius
- Carbide/HC8620 TiAlN-coated



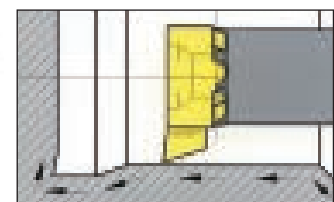
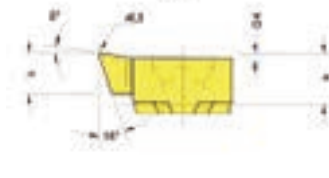
18343

Designation	D min. mm	t max. mm	b + 0,05 mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								for 18343	...	for 18343	...
R/LS08.008R04	8	1,0	0,8	6	4,8	3,3	608		101		201
R/LS08.012R06	8	1,0	1,2	6	4,8	3,3	608		102		202
R/LS08.018R09	8	1,0	1,8	6	4,8	3,3	608		103		203
R/LS11.008R04	11	2,3	0,8	8	6,7	4,2	611		104		204
R/LS11.012R06	11	2,3	1,2	8	6,7	4,2	611		105		205
R/LS11.018R09	11	2,3	1,8	8	6,7	4,2	611		106		206
R/LS11.020R10	11	2,3	2,0	8	6,7	4,2	611		107		207
R/LS11.030R15	11	2,3	3,0	8	6,7	4,2	611		108		208
R/LS14.012R06	14	4,0	1,2	9	9,0	5,3	614		109		209
R/LS14.018R09	14	4,0	1,8	9	9,0	5,3	614		110		210
R/LS14.020R10	14	4,0	2,0	9	9,0	5,3	614		111		211
R/LS14.022R11	14	4,0	2,2	9	9,0	5,3	614		112		212
R/LS14.030R15	14	4,0	3,0	9	9,0	5,3	614		113		213
R/LS16.018R09	16	4,3	1,8	11	10,2	5,4	616		114		214
R/LS16.022R11	16	4,3	2,2	11	10,2	5,4	616		115		215
R/LS16.030R15	16	4,3	3,0	11	10,2	5,4	616		116		216
R/LS16.040R20	16	4,3	4,0	11	10,2	5,4	616		117		217

ATORN®

RCI for profiling

- Ap max. = max. cutting depth
- Carbide/HC8620 TiAlN-coated



18344

Designation	D min. mm	Ap max. mm	b mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								for 18344	...	for 18344	...
R/LS08.1846.02	7,8	0,6	3,3	6	4,65	3,5	608		101		201
R/LS11.1855.02	9,8	1,0	3,9	8	5,50	4,2	611		102		202
R/LS11.1867.02	11,0	1,0	3,9	8	6,70	4,2	611		103		203
R/LS14.1867.02	13,8	1,5	5,0	9	8,70	5,3	614		104		204
R/LS16.1897.02	15,5	1,5	5,0	11	9,70	5,4	614		105		205

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Cutting-Off and Grooving Tools

18340 - 18352

Carbide blades for MINI-CUT

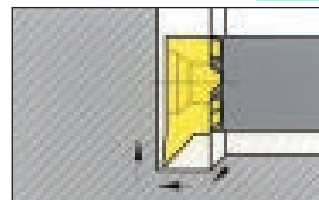
VHM
TiAlN

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ATORN®

RCI for undercutting

- Facing and boring, internal undercuts (DIN 509)
- $A_p \text{ max.} = \text{max. cutting depth}$
- Angle $W1 = 47^\circ$
- Carbide/HC8620 TiAlN-coated

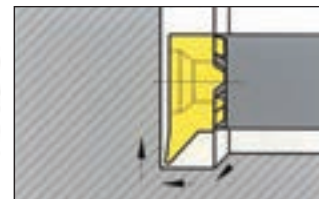


Designation	D min. mm	t max. mm	$A_p \text{ max.}$ mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								18345	...	18345	...
R/LS08.4746.02	7,8	1,2	0,4	6	4,65	3,5	608		101		201
R/LS11.4767.02	11,0	2,3	0,6	8	6,70	4,2	611		102		202
R/LS14.4787.02	13,7	3,0	0,8	9	8,70	5,3	614		103		203

ATORN®

RCI for facing and boring and profiling

- Angle $W1 = 30^\circ$
- Carbide/HC8620 TiAlN-coated

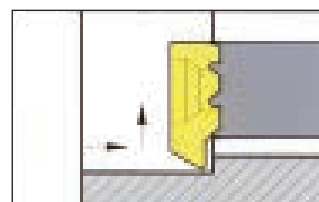


Designation	D min. mm	t max. mm	$A_p \text{ max.}$ mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								18346	...	18346	...
R/LS08.2555.02	7,8	1,2	0,4	6	4,65	3,5	608		101		201
R/LS11.2755.02	11,0	2,3	0,6	8	6,70	4,2	611		102		202
R/LS14.3555.02	13,7	4,0	0,8	9	8,70	5,3	614		103		203
R/LS16.4055.02	15,8	4,3	0,8	11	10,20	5,4	616		104		204

ATORN®

RCI for backwards facing and boring

- $A_p \text{ max.} = \text{max. cutting depth}$
- Carbide/HC8620 TiAlN-coated
- Angle $W2 = 30^\circ$

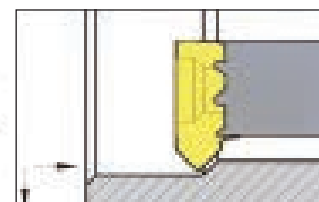


Designation	D min. mm	t max. mm	$A_p \text{ max.}$ mm	s1 mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
									18347	...	18347	...
R/LS08.3046.02	7,8	1,3	0,6	1,0	6	4,65	3,5	608		101		201
R/LS11.3067.02	11,0	2,3	1,0	1,6	8	6,70	4,3	611		102		202
R/LS14.3087.02	13,8	3,5	1,5	2,4	9	8,70	5,4	614		103		203

ATORN®

RCI for facing and boring and bevelling

- Bevelling and facing and boring
- $A_p \text{ max.} = \text{max. cutting depth}$
- Carbide/HC8620 TiAlN-coated

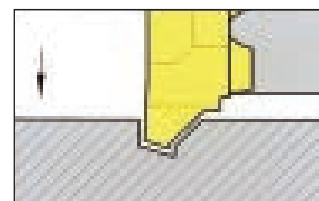


Designation	D min. mm	t max. mm	$A_p \text{ max.}$ mm	e mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
									18348	...	18348	...
R/LS08.4545.02	8	1,4	0,6	1,8	6	4,8	3,5	608		101		201
R/LS11.4545.02	11	1,5	1,0	2,2	8	6,7	4,3	611		102		202
R/LS14.4545.02	14	1,5	1,2	2,8	9	9,0	5,4	614		103		203

ATORN®

RCI for pre-grooving

- Pre-grooving and bevelling
- $t = 0,2 \text{ mm}$
- Carbide/HC8620 TiAlN-coated



Designation	D min. mm	t max. mm	b mm	d mm	f mm	s mm	Tool holder type	Right-hand		Left-hand	
								18349	...	18349	...
R/LS08.0810.45	8	1,0	1,0	6,0	4,8	3,3	608		101		201
R/LS11.0810.45	11	1,5	1,0	8,0	6,7	4,2	611		102		202
R/LS14.0815.45	14	1,5	1,0	9,0	9,0	5,3	614		103		203
R/LS16.0815.45	16	1,5	1,0	11,0	10,2	5,4	616		104		204

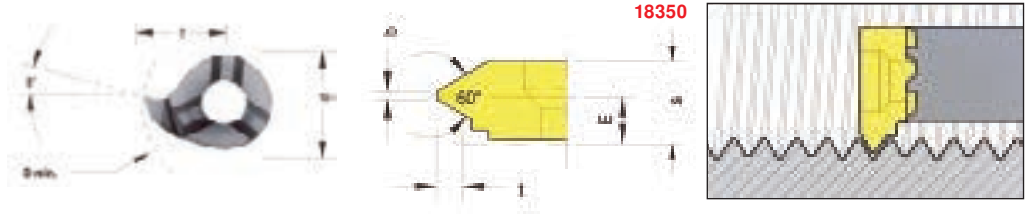
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ATORN®

RCI for turning of threads 60°

- Standard thread section profile
- $t = 0,2$ mm
- Carbide/HC8620 TiAlN-coated

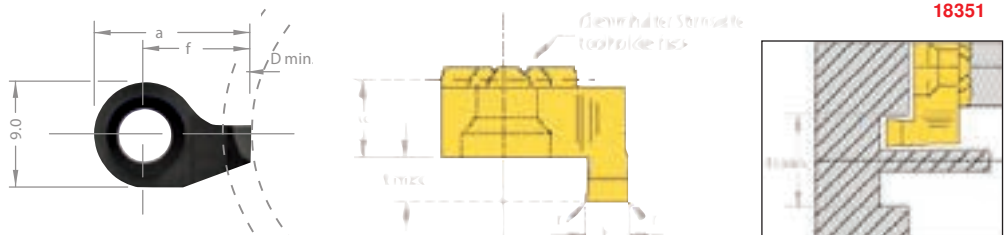


Designation	D min. mm	Lead mm	t mm	e mm	b mm	f mm	s mm	d mm	for Tool holder type	Right-hand 18350	Left-hand 18350
R/LS08.0815.01	8	1,5/1,75	0,95	2,25	0,18	4,8	3,5	6	608	101	201
R/LS11.1020.01	11	2,0/2,5	1,08	3,00	0,25	6,7	4,3	8	611	102	202
R/LS11.1325.01	11	2,5/3,0	1,35	3,00	0,31	6,7	4,3	8	611	103	203
R/LS14.1020.01	14	2,0/2,5	1,08	3,90	0,25	9,0	5,4	9	614	104	204
R/LS14.1325.01	14	2,5/3,0	1,35	3,65	0,31	9,0	5,4	9	614	105	205
R/LS16.1325.01	16	2,5/3,0	1,35	3,70	0,31	10,2	5,5	11	616	106	206

ATORN®

RCI for axial grooving

- Axial grooving **bypassing the tappet**
- Carbide/HC8620 TiAlN-coated

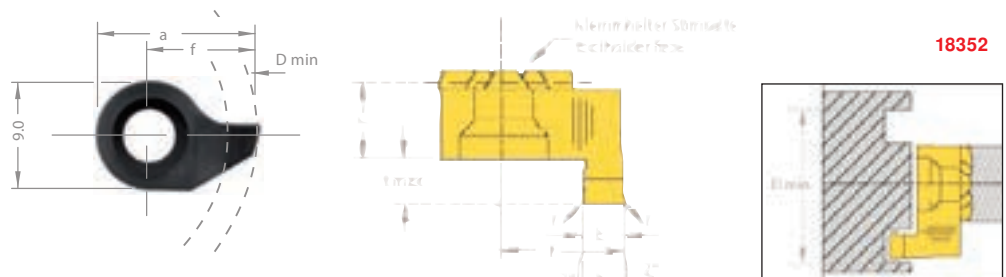


Designation	D min. mm	t max. mm	b + 0,03 mm	a mm	r mm	f mm	s mm	for Tool holder type	Right-hand 18351	Left-hand 18351
R/LS014.1210.00	12	1,5	1,0	11,5	-	7,0	8,3	614	101	201
R/LS014.1215.02	12	2,5	1,5	12,0	0,2	7,5	8,3	614	102	202
R/LS014.1220.02	12	3,0	2,0	12,5	0,2	8,0	8,3	614	103	203
R/LS014.1225.02	12	3,0	2,5	13,0	0,2	8,5	8,3	614	104	204
R/LS014.1230.02	12	3,0	3,0	13,5	0,2	9,0	8,3	614	105	205
R/LS014.1220.52	12	5,0	2,0	12,5	0,2	8,0	10,3	614	106	206
R/LS014.1225.52	12	5,0	2,5	13,0	0,2	8,5	10,3	614	107	207
R/LS014.1230.52	12	5,0	3,0	13,5	0,2	9,0	11,3	614	108	208

ATORN®

RCI for axial grooving

- Axial grooving
- Carbide/HC8620 TiAlN-coated



Designation	D min. mm	t max. mm	b + 0,03 mm	a mm	r mm	f mm	s mm	for Tool holder type	Right-hand 18352	Left-hand 18352
R/LS014.1410.00	14	1,5	1,0	13,5	-	9	8,3	614	101	201
R/LS014.1415.02	14	2,5	1,5	13,5	0,2	9	8,3	614	102	202
R/LS014.1420.02	14	3,0	2,0	13,5	0,2	9	8,3	614	103	203
R/LS014.1425.02	14	3,0	2,5	13,5	0,2	9	8,3	614	104	204
R/LS014.1430.02	14	3,0	3,0	13,5	0,2	9	8,3	614	105	205
R/LS014.1420.52	14	5,0	2,0	13,5	0,2	9	10,3	614	106	206
R/LS014.1425.52	14	5,0	2,5	13,5	0,2	9	10,3	614	107	207
R/LS014.1430.52	14	5,0	3,0	13,5	0,2	9	10,3	614	108	208

