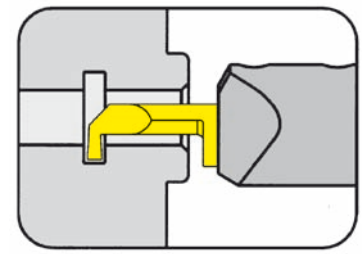
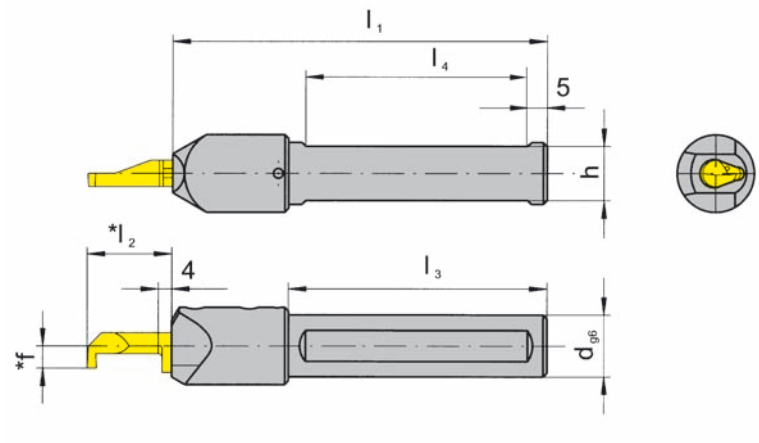
TOOLHOLDER Type

BU110

with through coolant supply



Bore Ø from	.236″
Depth of groove up to	.157″
Width of groove up to	.250″



for use with Insert

Type 110
U110

Picture = right hand cutting version shown

Part number	d	l_1	h	l_3	l_4
BU110.0625.02	.625	3.937	.551	2.756	2.165
BU110.0750.02	.750	3.937	.709	-	2.165

Further sizes upon request

f, l_2 see inserts type 110

Dimensions in inch

Ordering note:
Toolholders can be used with right and left hand inserts.

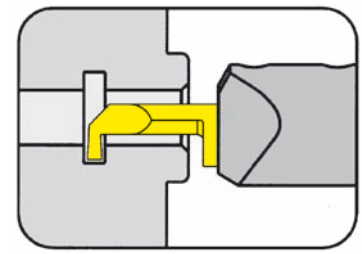
Spare parts

Toolholder	Screw	TORX PLUS® Wrench
BU110.0...	**6.075T15P**	**T15PQ**

TOOLHOLDER Type

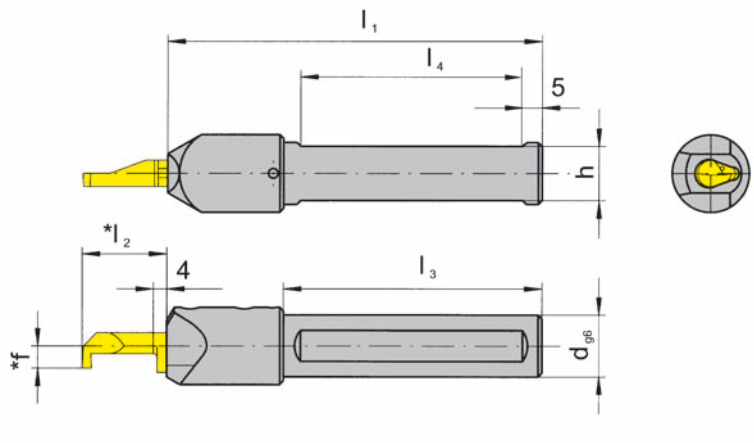
B110

with through coolant supply



Bore Ø from	.236″ (6.0 mm)
Depth of groove up to	.157″ (4.0 mm)
Width of groove up to	.250″ (6.35 mm)

Extended depth of insert seat



for use with Insert

Type 110
U110

Picture = right hand cutting version shown

Part number	d	l_1	h	l_3	l_4
B110.0016.02	16	100	14	70	55
B110.0020.02	20	100	18	-	55
B110.0022.02	22	100	20	-	55
B110.0025.02	25	100	23	-	55

Further sizes upon request f, l_2 see inserts type 110 Dimensions in mm

Ordering note:
Toolholders can be used with right and left hand inserts.

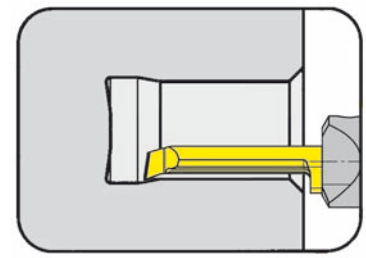
Spare parts

Toolholder	Screw	TORX PLUS® Wrench
B110.00...	**6.075T15P**	**T15PQ**

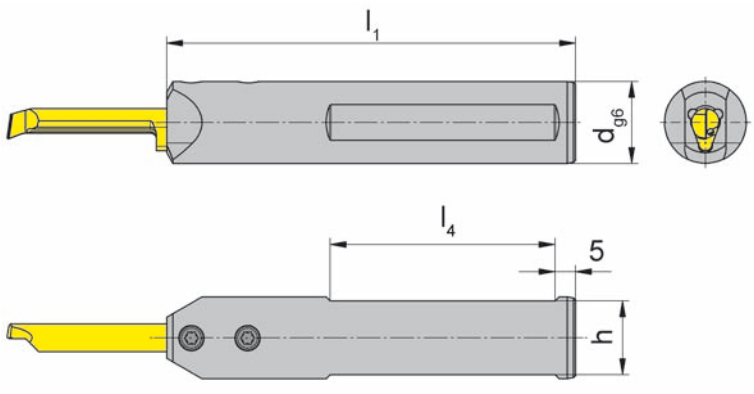
TOOLHOLDER Type

B110

with through coolant supply



Bore Ø from	.236″ (6.0 mm)
Depth of groove up to	.157″ (4.0 mm)
Width of groove up to	.250″ (6.35 mm)



Picture = right hand cutting version shown

for use with Insert

Type 110
U110

with additional through coolant bores

Part number	d	l_1	h	l_4
B110.0020.K.02	20	100	18	55

Further sizes upon request f, L see inserts type 110 Dimensions in mm

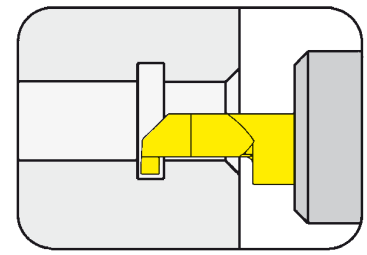
Ordering note:
Toolholders can be used with right and left hand inserts.

Spare parts

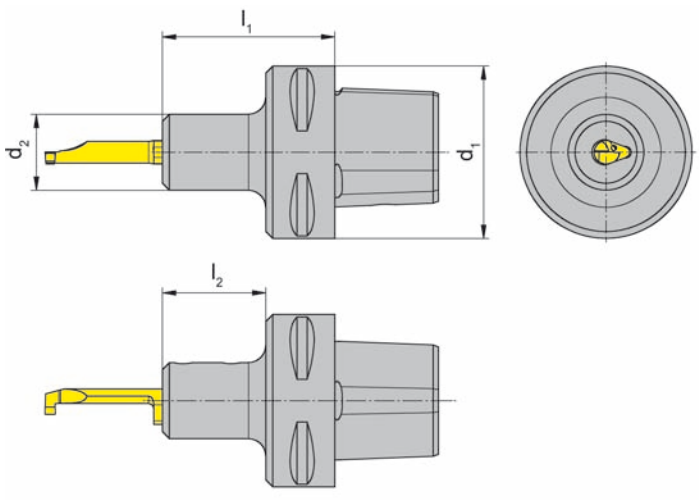
Toolholder	Screw	TORX PLUS® Wrench
B110.0020.K.02	**6.075T15P**	**T15PQ**

TOOLHOLDER Type

B110C



Adapter for inserts type 110 HORN-Capto



R = right hand version shown L = left hand version

for use with Insert

Type 110
U110

Licence Sandvik

Part number	l_1	l_2	d_2	d_1	Remark
R/LB110.00C5.22.1.02	50	30	22	50	C5

Further sizes upon request

Dimensions in mm

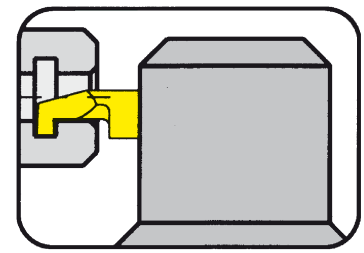
Spare parts

Toolholder	Screw	TORX PLUS® Wrench
R/LB110.00C5.22.1.02	**6.075T15P**	**T15PQ**

B

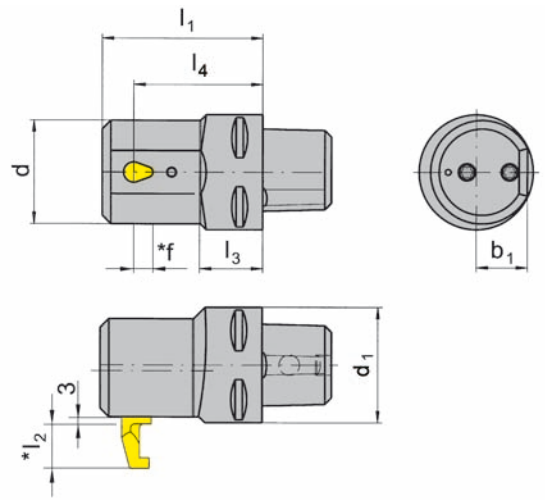
TOOLHOLDER Type

B110C



Adapter for inserts type 110 HORN-Capto

for INDEX Multi spindle machines



Picture = right hand cutting version shown

for use with Insert

Type 110
U110

Licence Sandvik

Part number	d	l_1	l_3	b_1	l_4	d_1	Remark	Type of machine
RB110.00C3.2.2.02	36	56	15	18	45	32	C3	MS32
RB110.00C4.2.2.02	36	56	22	18	45	40	C4	MS52

Further sizes upon request

f, l_2 see inserts type 110

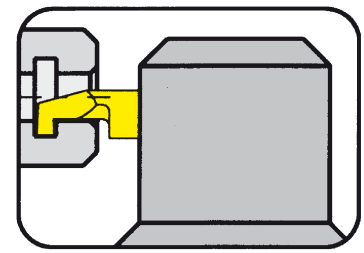
Dimensions in mm

Spare parts

Toolholder	Screw	TORX PLUS® Wrench
RB110.00C...	**6.075T15P**	**T15PQ**

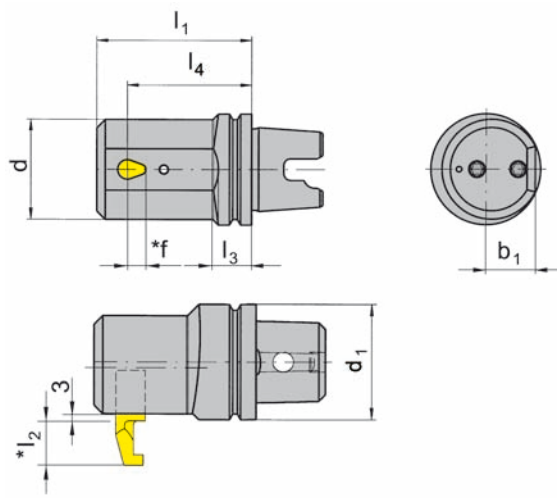
TOOLHOLDER Type

B110KM



Adapter for inserts type 110 HORN-KM

for INDEX Multi spindle machines



Picture = right hand cutting version shown

for use with Insert

Type 110
U110

Licence Kennametal

Part number	d	l_1	l_3	b_1	l_4	d_1	Type of machine
RB110.KM40.2.2.02	36	56	14	18	45	40	MS32
RB110.KM50.2.2.02	36	56	22	18	45	50	MS52

Further sizes upon request

f, l_2 see inserts type 110

Dimensions in mm

Spare parts

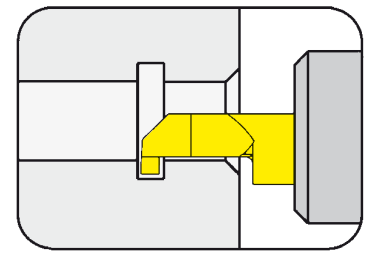
Toolholder	Screw	TORX PLUS® Wrench
RB110.KM...	**6.075T15P**	**T15PQ**

B

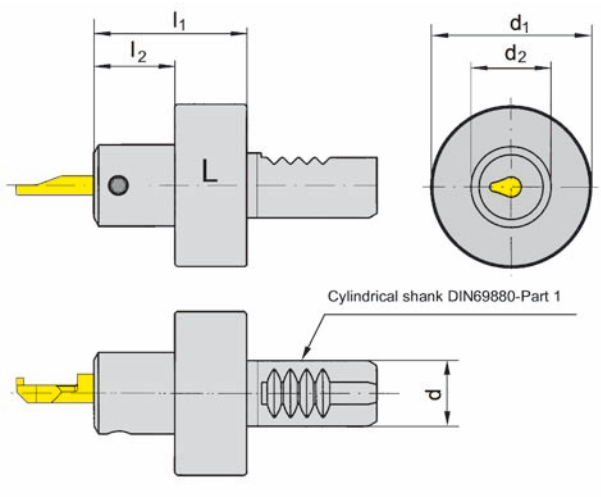
TOOLHOLDER Type

VDI

with through coolant supply



Bore Ø from	.236″ (6.0 mm)



for use with Insert

Type 110
U110

L = left hand version shown R = right hand version

Part number	d	l_1	l_2	d_2	d_1
VDI16.R/L110.30.02	16	48	30	22	40
VDI20.R/L110.30.02	20	48	30	22	50
VDI25.R/L110.30.02	25	48	30	22	58
VDI30.R/L110.30.02	30	48	30	22	68

State R or L version

Dimensions in mm

Further sizes upon request

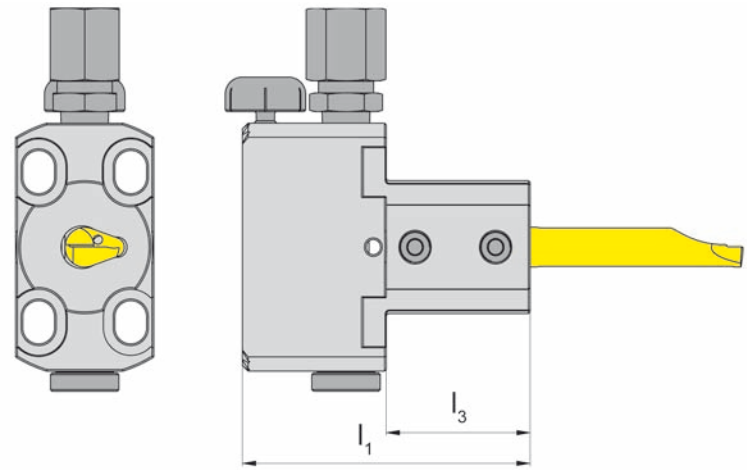
Spare parts

Toolholder	Screw	TORX PLUS® Wrench
VDI...	**6.075T15P**	**T15PQ**

ADJUSTABLE HOLDER Type N

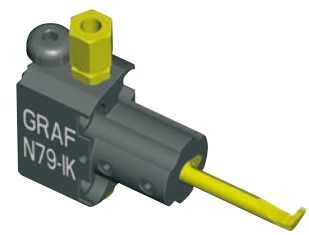
Bore Ø from	.236″ (6.0 mm)
Depth of groove up to	.157″ (4.0 mm)
Width of groove up to	.250″ (6.35 mm)

with through coolant supply



for use with Insert

Type 110
U110



Picture = right hand cutting version shown

Part number	l_1	l_3
N79IK	50	25

Further sizes upon request

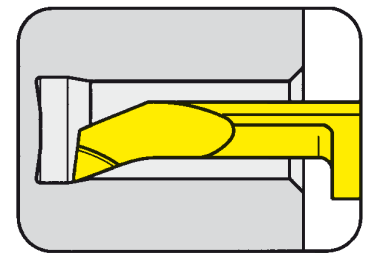
Dimensions in mm

Spare parts

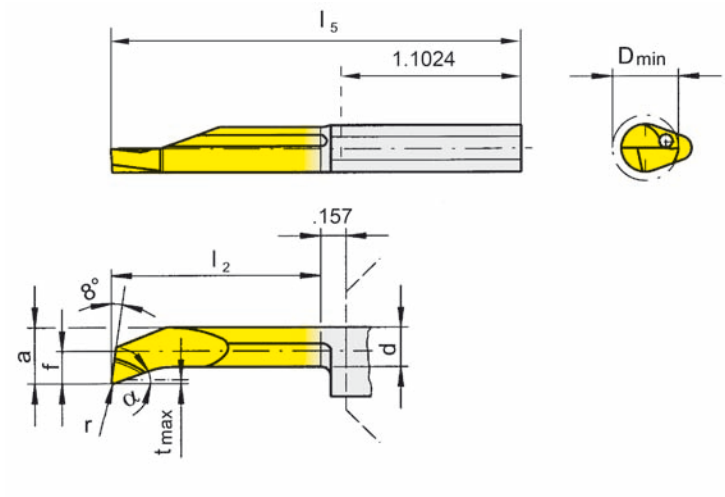
Adjustable holder	Screw	Height adjustment screw	Coolant supply
N79IK	**6.075T15P**	**002.00.69**	**004.00.19**

B

INSERT Type 110



Bore Ø from	.236″



for use with Toolholder

Type BU110
B110
B110C
VDI

R = right hand version shown L = left hand version

Part number	f	a	d	l_2	l_5	t_{max}	D_{min}	r
R/L110.1829.7.6	.114	.224	.189	1.575	2.756	.020	**.236**	.008
R/L110.1829.9.6				1.969	3.150			
R/L110.1829.9.8	.157	.291	.236	1.969	3.150	.020	**.315**	.008

	MG12	TN35	TI25	TF45	TH35
			▲/▲		▲/▲
			▲/▲		▲/▲
			▲/▲		▲/▲
P			•		•
M			•		•
K			•		•
S			•		•
N			•		•
H					

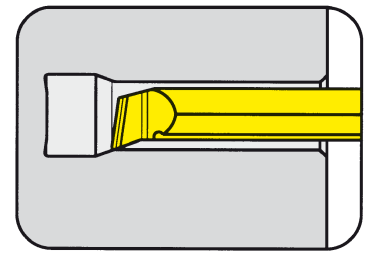
▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

Dimensions in inch

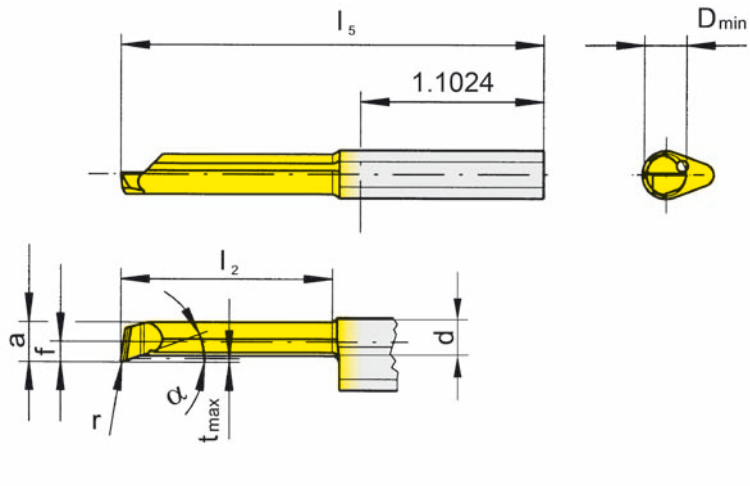
Carbide grades

State R or L version

INSERT Type 110



Bore Ø from .236″



for use with Toolholder

Type BU110
B110
B110C
VDI

R = right hand version shown

with chip breaker
(geometry H)

Part number	f	a	d	l_2	l_5	t_{max}	D_{min}	r
R110.1829.9.H6	.114	.224	.189	1.969	3.150	.020	**.236**	.008
R110.1829.9.H8	.157	.291	.236	1.969	3.150	.020	**.315**	.008

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

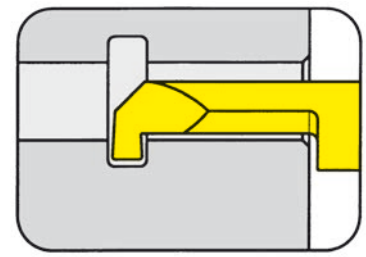
	MG12	TN35	TI25	TF45	TH35
			Δ		
			Δ		
P			•		
M			•		
K			•		
S			•		
N			•		
H					

Dimensions in inch

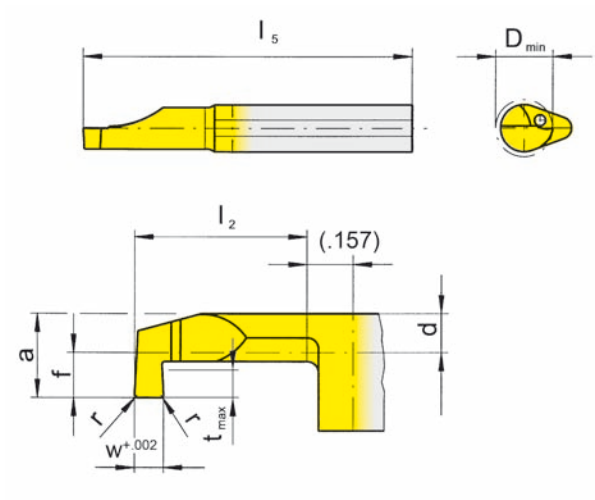
Carbide grades

B

INSERT Type 110



Bore Ø from	.315″
Depth of groove up to	.110″



R = right hand version shown

for use with Toolholder

Type BU110
B110
B110C
VDI

with corner radius

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	r		MG12	TN35	TI25	TF45	TH35
R110.0200.02.3.8	.079	.157	.291	.165	.787	1.969	.110	**.315**	.008			▲			
										P		•			
										M		•			
										K		•			
										S		•			
										N		•			
										H					

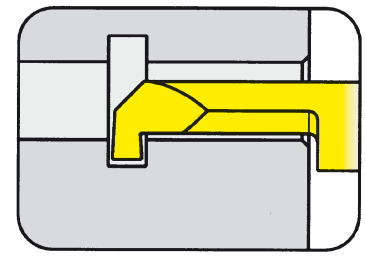
▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

Dimensions in inch

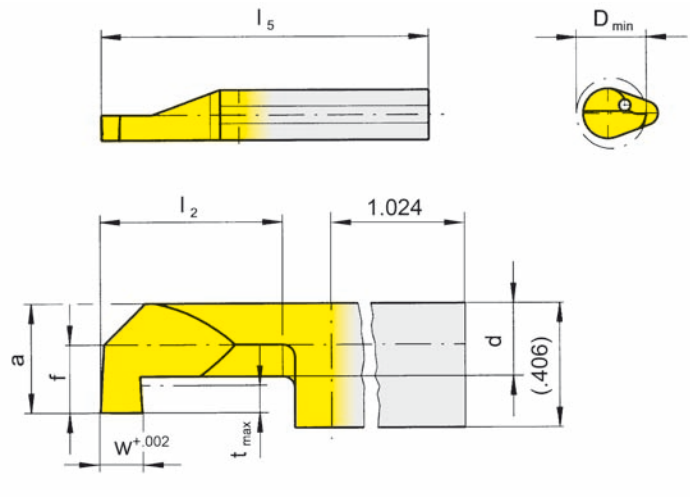
Carbide grades

GROOVING (internal) ≥ Ø .315″

INSERT Type **110**



Bore Ø from	.315″
Depth of groove up to	.157″



for use with Toolholder

Type BU110
B110
B110C
VDI

R = right hand version shown L = left hand version

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	MG12	TN35	TI25	TF45	TH35
R/L110.0100.5.8	.039	.157	.291	.165	1.181	2.362	.110	**.315**		▲/▲			
R/L110.0200.5.8	.079									▲/▲			
R/L110.0250.5.8	.098									▲/▲			
R/L110.0100.7.8	.039	.157	.291	.165	1.575	2.756	.110	**.315**		▲/Δ			
R/L110.0200.7.8	.079									▲/▲			
R/L110.0250.7.8	.098									▲/Δ			
R/L110.0100.5.0	.039	.236	.370	.197	1.181	2.362	.157	**.394**		▲/Δ			
R/L110.0200.5.0	.079									▲/▲			
R/L110.0300.5.0	.118									▲/▲			
R/L110.0100.9.0	.039	.236	.370	.197	1.969	3.150	.157	**.394**		▲/▲			
R/L110.0200.9.0	.079									▲/▲			
R/L110.0300.9.0	.118									▲/Δ			

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

	TN35
P	•
M	•
K	•
S	•
N	•
H	

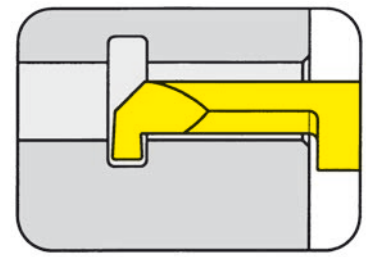
Carbide grades

Dimensions in inch

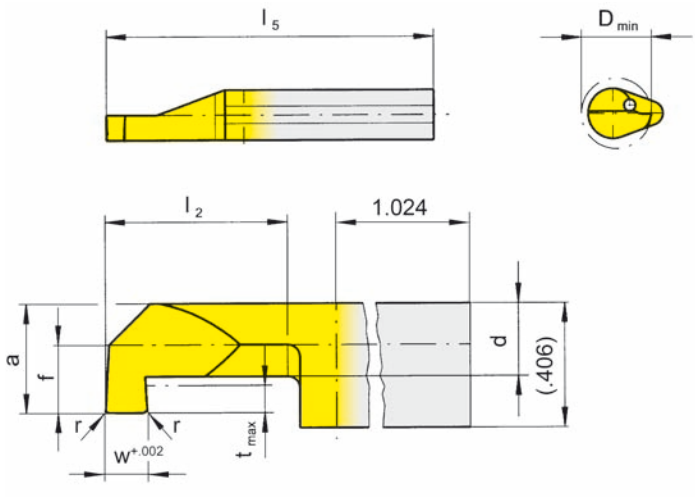
State R or L version

GROOVING (internal) ≥ Ø .315″

INSERT Type U110



Bore Ø from	.315″
Depth of groove up to	.110″



R = right hand version shown L = left hand version

for use with Toolholder

Type BU110
B110
B110C
VDI

with corner radius

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	r	MG12	TN35	TI25	TF45	TH35
R/LU110.4608.3.8	.046	.157	.291	.165	.787	1.969	.110	**.315**	.008			▲/		
R/LU110.6208.3.8	.062											▲/		
R/LU110.7808.3.8	.078											▲/		
R/LU110.9408.3.8	.094											▲/		
R/LU110.1208.3.8	.125											▲/Δ		
R/LU110.2508.3.8	.250											▲/		
R/LU110.4608.7.8	.046	.157	.291	.165	1.575	2.756	.110	**.315**	.008			▲/		
R/LU110.6208.7.8	.062											▲/Δ		
R/LU110.7808.7.8	.078											▲/		
R/LU110.9408.7.8	.094											▲/		
R/LU110.1208.7.8	.125											▲/		
R/LU110.2508.7.8	.250											▲/		

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

P			•			
M			•			
K			•			
S			•			
N			•			
H						

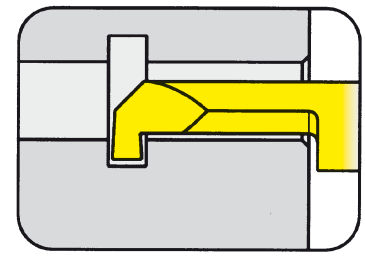
Dimensions in inch

Carbide grades

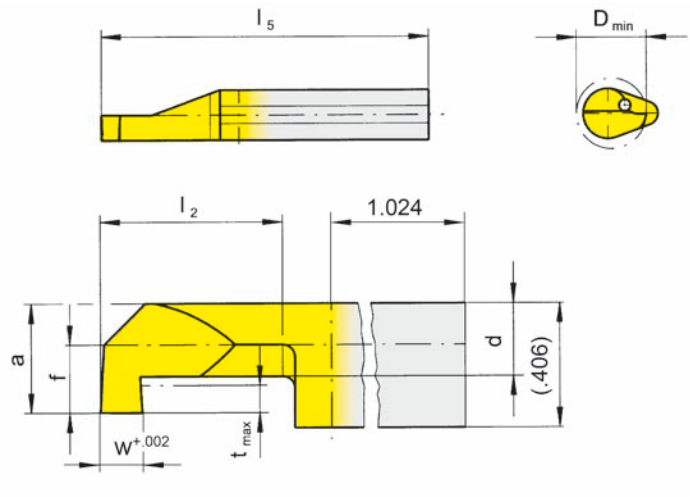
State R or L version

INSERT Type

U110



Bore Ø from	.315″
Depth of groove up to	.110″



for use with Toolholder

Type BU110
B110
B110C
VDI

R = right hand version shown L = left hand version

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	MG12	TN35	TI25	TF45	TH35
R/LU110.0046.3.8	.046	.157	.291	.165	.787	1.969	.110	**.315**			▲/		
R/LU110.0062.3.8	.062										▲/Δ		
R/LU110.0078.3.8	.078										▲/		
R/LU110.0094.3.8	.094										▲/▲		
R/LU110.0125.3.8	.125										▲/		
R/LU110.0250.3.8	.250										▲/		
R/LU110.0046.7.8	.046	.157	.291	.165	1.575	2.756	.110	**.315**			▲/		
R/LU110.0062.7.8	.062										▲/		
R/LU110.0078.7.8	.078										▲/		
R/LU110.0094.7.8	.094										▲/		
R/LU110.0125.7.8	.125										▲/		
R/LU110.0250.7.8	.250										▲/		

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

	MG12	TN35	TI25	TF45	TH35
P			•		
M			•		
K			•		
S			•		
N			•		
H					

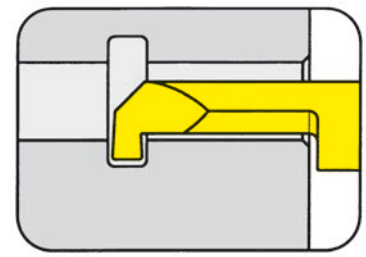
Dimensions in inch

Carbide grades

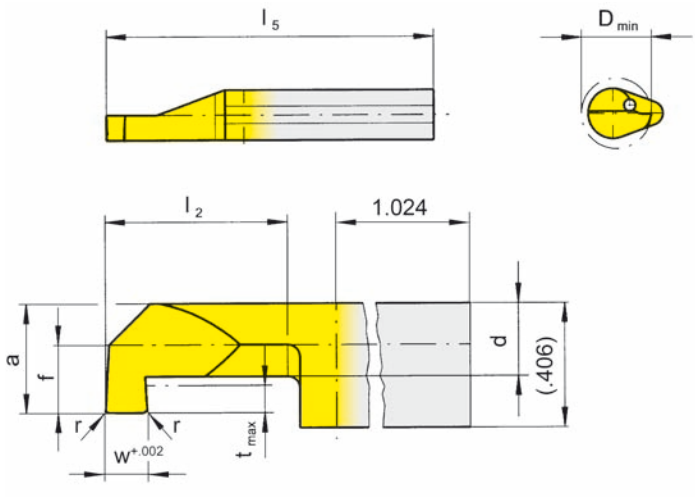
State R or L version

INSERT Type

U110



Bore Ø from	.394″
Depth of groove up to	.157″



R = right hand version shown L = left hand version

for use with Toolholder

Type BU110
B110
B110C
VDI

with corner radius

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	r	MG12	TN35	TI25	TF45	TH35
R/LU110.4608.3.0	.046	.236	.370	.197	.787	1.969	.157	**.394**	.008			▲/		
R/LU110.6208.3.0	.062											▲/▲		
R/LU110.7808.3.0	.078											▲/		
R/LU110.9408.3.0	.094											▲/		
R/LU110.1208.3.0	.125											▲/Δ		
R/LU110.2508.3.0	.250											▲/▲		
R/LU110.4608.7.0	.046	.236	.370	.197	1.575	2.756	.157	**.394**	.008			▲/		
R/LU110.6208.7.0	.062											▲/		
R/LU110.7808.7.0	.078											▲/		
R/LU110.9408.7.0	.094											▲/		
R/LU110.1208.7.0	.125											▲/		
R/LU110.2508.7.0	.250											▲/		

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

P			•			
M			•			
K			•			
S			•			
N			•			
H						

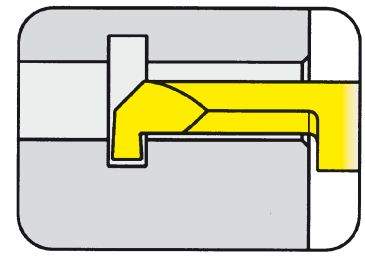
Dimensions in inch

Carbide grades

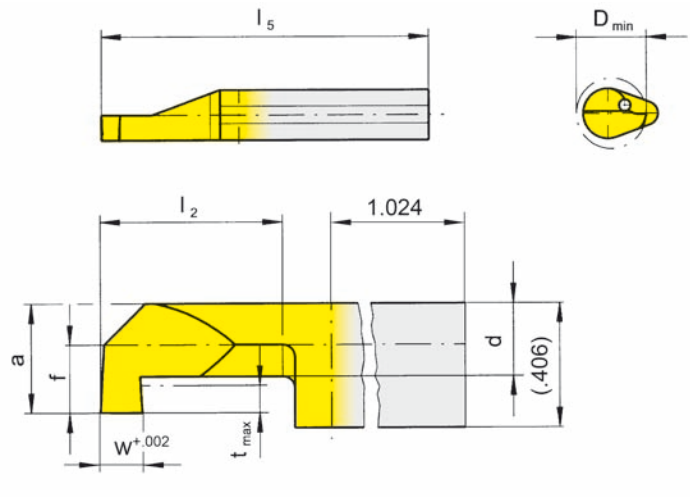
State R or L version

INSERT Type

U110



Bore Ø from	.394″
Depth of groove up to	.157″



for use with Toolholder

Type BU110
B110
B110C
VDI

R = right hand version shown L = left hand version

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	MG12	TN35	TI25	TF45	TH35
R/LU110.0046.1.0	.046	.236	.370	.197	.394	1.575	.157	**.394**			▲/		
R/LU110.0062.1.0	.062										▲/▲		
R/LU110.0078.1.0	.078										▲/Δ		
R/LU110.0094.1.0	.094										▲/		
R/LU110.0125.1.0	.125										▲/		
R/LU110.0046.3.0	.046	.236	.370	.197	.787	1.969	.157	**.394**			▲/		
R/LU110.0062.3.0	.062										▲/		
R/LU110.0078.3.0	.078										▲/		
R/LU110.0094.3.0	.094										▲/Δ		
R/LU110.0125.3.0	.125										▲/		
R/LU110.0250.3.0	.250										▲/		
P											•		
M											•		
K											•		
S											•		
N											•		
H													

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

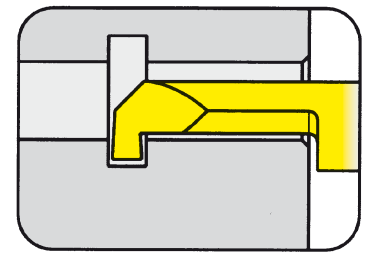
Dimensions in inch

Carbide grades

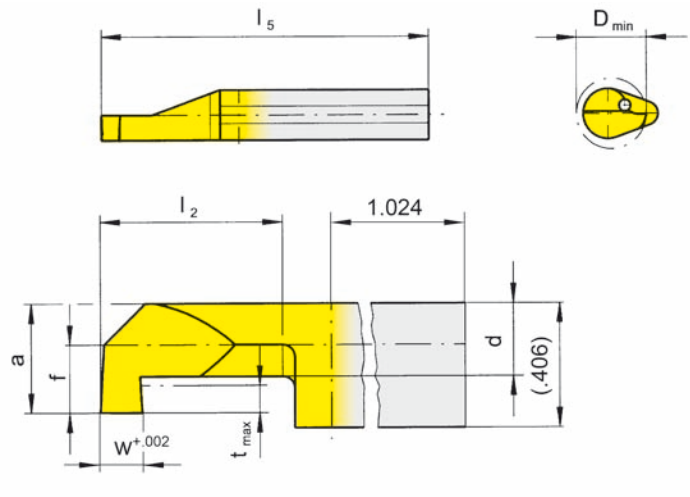
State R or L version

GROOVING (internal) ≥ Ø .394″

INSERT Type U110



Bore Ø from	.394″
Depth of groove up to	.157″



for use with Toolholder

Type BU110
B110
B110C
VDI

R = right hand version shown L = left hand version

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	MG12	TN35	TI25	TF45	TH35
R/LU110.0046.5.0	.046	.236	.370	.197	1.181	2.362	.157	**.394**			▲/		
R/LU110.0062.5.0	.062										▲/		
R/LU110.0078.5.0	.078										▲/		
R/LU110.0094.5.0	.094										▲/Δ		
R/LU110.0125.5.0	.125										▲/		
R/LU110.0250.5.0	.250										▲/		
R/LU110.0046.7.0	.046	.236	.370	.197	1.575	2.756	.157	**.394**			▲/		
R/LU110.0062.7.0	.062										▲/		
R/LU110.0078.7.0	.078										▲/		
R/LU110.0094.7.0	.094										▲/		
R/LU110.0125.7.0	.125										▲/		
R/LU110.0250.7.0	.250										▲/		

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

P			•			
M			•			
K			•			
S			•			
N			•			
H						

Dimensions in inch

Carbide grades

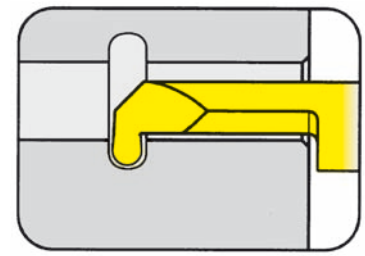
State R or L version

High polish turning with diamond tools type 105 and S117

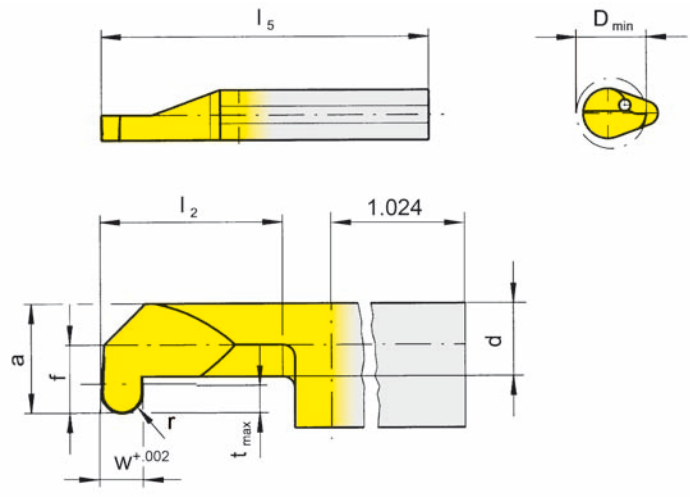
H10
technische Diamanten

For further information please see HORN catalog "CARBIDE GROOVING TOOLS".

INSERT Type U110



Bore Ø from	.315″
Depth of groove up to	.110″



R = right hand version shown L = left hand version

for use with Toolholder

Type BU110
B110
B110C
VDI

Full radius

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	r	MG12	TN35	TI25	TF45	TH35
R/LU110.3162.1.8	.062								.031			▲/▲		
R/LU110.4794.1.8	.094	.157	.291	.165	.394	1.575	.110	**.315**	.047			▲/▲		
R/LU110.6212.1.8	.125								.062			▲/▲		
R/LU110.3162.3.8	.062								.031			▲/▲		
R/LU110.4794.3.8	.094	.157	.291	.165	.787	1.969	.110	**.315**	.047			▲/Δ		
R/LU110.6212.3.8	.125								.062			▲/		
R/LU110.3162.5.8	.062								.031			▲/		
R/LU110.4794.5.8	.094	.157	.291	.165	1.181	2.362	.110	**.315**	.047			▲/		
R/LU110.6212.5.8	.125								.062			▲/		
R/LU110.3162.7.8	.062								.031			▲/		
R/LU110.4794.7.8	.094	.157	.291	.165	1.575	2.756	.110	**.315**	.047			▲/		
R/LU110.6212.7.8	.125								.062			▲/		
P												•		
M												•		
K												•		
S												•		
N												•		
H														

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

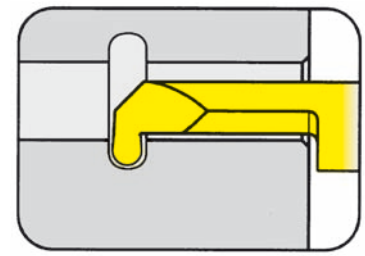
Dimensions in inch

Carbide grades

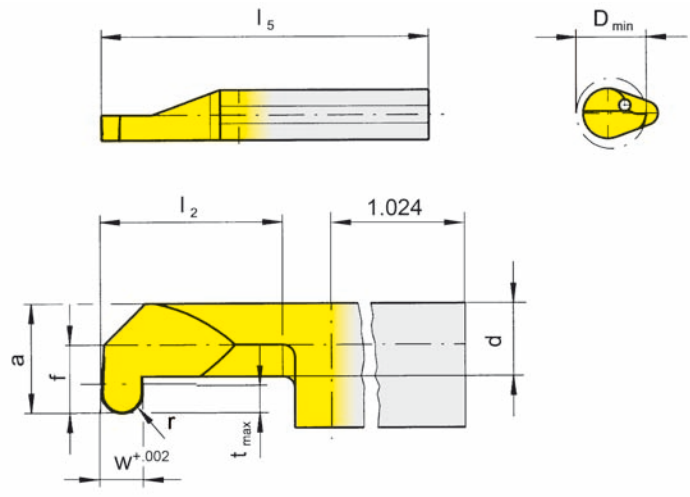
State R or L version

INSERT Type

U110



Bore Ø from	.394″
Depth of groove up to	.157″



R = right hand version shown L = left hand version

for use with Toolholder

Type BU110
B110
B110C
VDI

Full radius

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	r	MG12	TN35	TI25	TF45	TH35
R/LU110.3162.1.0	.062								.031			▲/▲		
R/LU110.4794.1.0	.094	.236	.370	.197	.394	1.575	.157	**.394**	.047			▲/		
R/LU110.6212.1.0	.125								.062			▲/		
R/LU110.3162.3.0	.062								.031			▲/		
R/LU110.4794.3.0	.094	.236	.370	.197	.787	1.969	.157	**.394**	.047			▲/Δ		
R/LU110.6212.3.0	.125								.062			▲/		
R/LU110.3162.5.0	.062								.031			▲/▲		
R/LU110.4794.5.0	.094	.236	.370	.197	1.181	2.362	.157	**.394**	.047			▲/▲		
R/LU110.6212.5.0	.125								.062			▲/		
R/LU110.3162.7.0	.062								.031			▲/		
R/LU110.4794.7.0	.094	.236	.370	.197	1.575	2.756	.157	**.394**	.047			▲/▲		
R/LU110.6212.7.0	.125								.062			▲/		
P												•		
M												•		
K												•		
S												•		
N												•		
H														

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

Dimensions in inch

Carbide grades

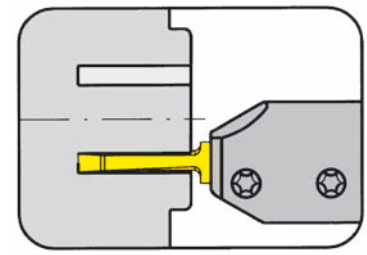
State R or L version

B

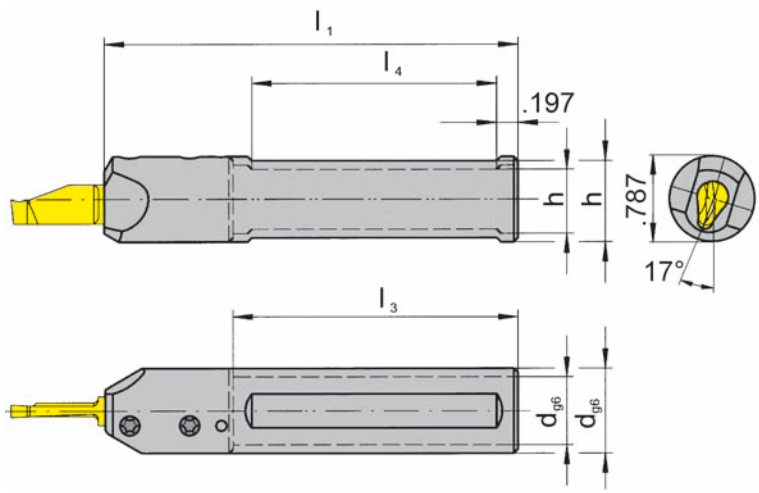
TOOLHOLDER Type

BU110

with through coolant supply



from outer groove Ø	.787″
Depth of groove up to	1.181″
Width of groove up to	.118″



for use with Insert

Type A110

R = right hand version shown

L = left hand version

Part number	d	l_1	h	l_3	l_4
R/LBU110.0625.16.2	.625	3.397	.551	2.756	2.165
R/LBU110.0750.16.2	.750	3.397	.709	-	2.165

State R or L version

Dimensions in inch

Further sizes upon request

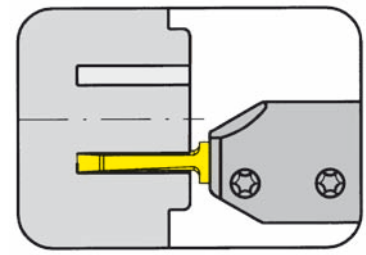
Spare parts

Toolholder	Screw	TORX PLUS® Wrench
R/LBU110.0...	**6.075T15P**	**T15PQ**

TOOLHOLDER Type

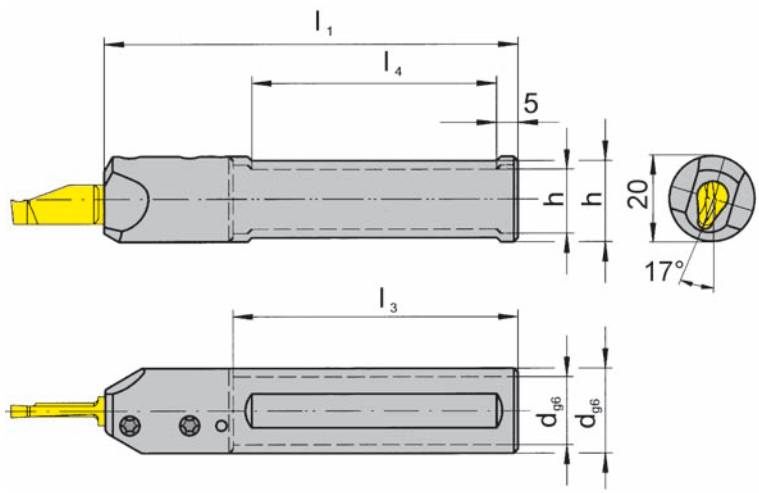
B110

with through coolant supply



from outer groove Ø	.787″ (20.0 mm)
Depth of groove up to	1.181″ (30.0 mm)
Width of groove up to	.118″ (3.0 mm)

Extended depth of insert seat



for use with Insert

Type A110

R = right hand version shown L = left hand version

Part number	d	l_1	h	l_3	l_4
R/LB110.0016.16.2	16	100	14	70	55
R/LB110.0020.16.2	20	100	18	-	55

State R or L version

Dimensions in mm

Further sizes upon request

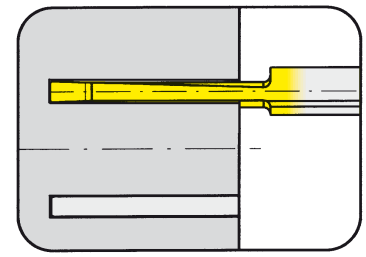
Spare parts

Toolholder	Screw	TORX PLUS® Wrench
R/LB110.00...	**6.075T15P**	**T15PQ**

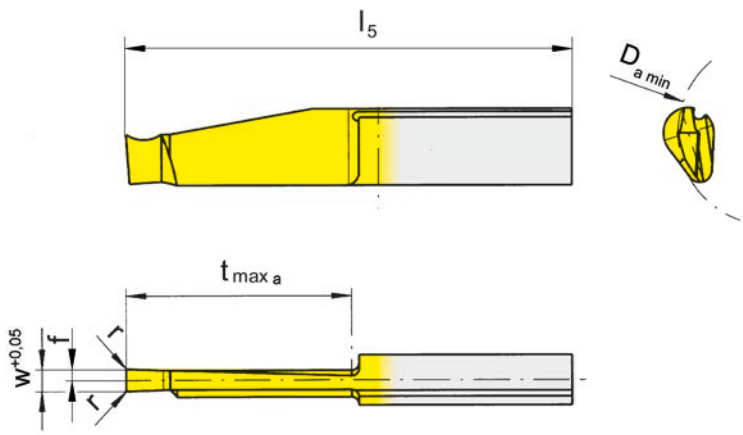
B

INSERT Type

A110



from outer groove Ø	.787″
Depth of groove up to	1.181″
Width of groove up to	.118″



for use with Toolholder

Type B110...16.2
BU110...16.2

L = left hand version shown R = right hand version

Part number	w	f	l_5	$t_{max\ a}$	$D_{a\ min}$	r
R/LA110.2030.3.0 **R/LA110.2030.5.0**	.118	.059	1.969 2.362	.787 1.181	**.787**	.008
R/LA110.5030.3.0 **R/LA110.5030.5.0**	.118	.059	1.969 2.362	.787 1.181	**1.969**	.008

	MG12	TN35	TI25	TF45	TH35
		▲/▲ ▲/▲	▲/▲ ▲/▲		▲/▲ ▲/▲
			▲/▲ ▲/▲		
P		•	•		•
M		•	•		•
K		•	•		•
S		•	•		•
N		•	•		•
H					

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

Dimensions in inch

Carbide grades

State R or L version

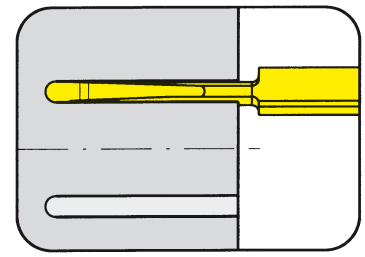
Note:
Use insert RA110 in toolholder RB110
Use insert LA110 in toolholder LB110

Face grooving with full width of the full depth only possible between D_{amin} .787" - 1.969".

B

INSERT Type

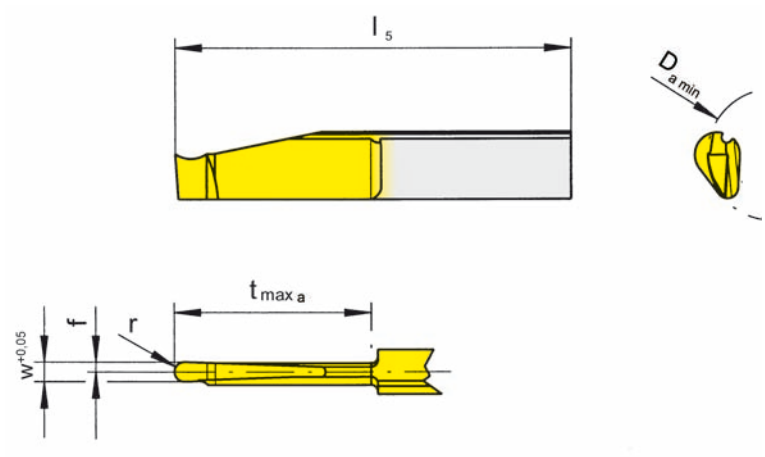
A110



from outer groove Ø	.787″
Depth of groove up to	1.181″
Width of groove up to	.118″

for use with Toolholder

Type B110...16.2
BU110...16.2



L = left hand version shown

R = right hand version

Full radius

Part number	w	f	l_5	$t_{max\ a}$	$D_{a\ min}$	r
R/LA110.2030.15.5.0	.118	.059	2.362	1.181	**.787**	.059

	MG12	TN35	TI25	TF45	TH35
		▲/▲			
P		•			
M		•			
K		•			
S		•			
N		•			
H					

▲ on stock Δ 4 weeks
● main recommendation
o alternative recommendation
uncoated grades
coated grades
brazed/Cermet

Dimensions in inch

Carbide grades

State R or L version

Note:
Use insert RA110 in toolholder RB110
Use insert LA110 in toolholder LB110

Face grooving with full width of the full depth only possible between D_{amin} .787" - 1.969".