

H117



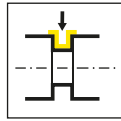
ツールホルダー/インサート

加工幅: 10 - 45 mm

**Toolholder and
Inserts**

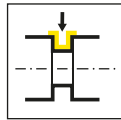
Width of profile 10 - 45 mm

ツールホルダー
Toolholder
H117

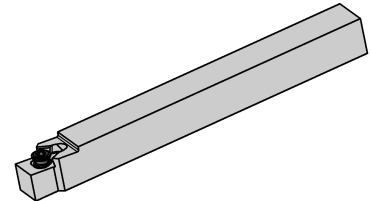
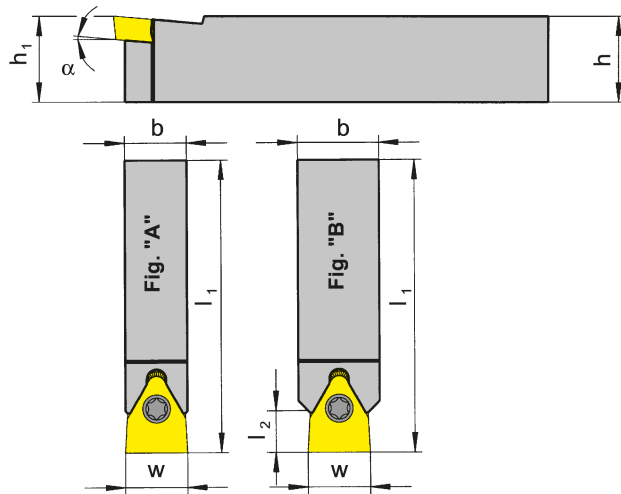
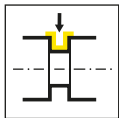


ページ/Page
79-80, 82, 84, 86-87

インサート
Insert
S117



ページ/Page
81, 83, 85

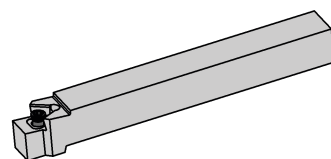
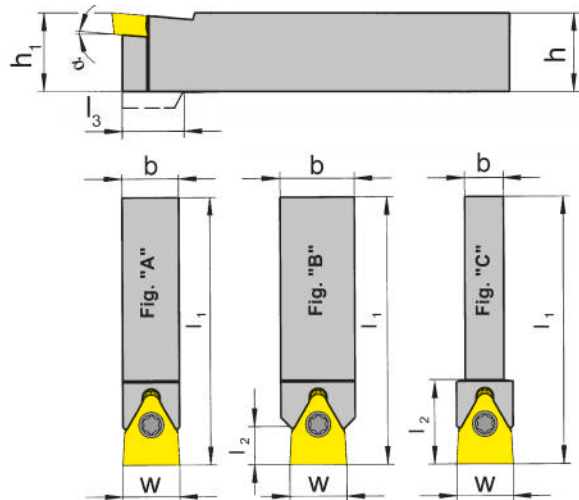
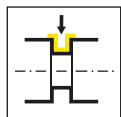


型式 Part number	h	b	l ₁	h ₁	α	形状 Figur	l ₂	w	インサート Insert	HWS
H117.1010.10	10	10	100	10	5°	A	-	10	S117.0010.00	1171005
H117.1212.10	12	12	125	12	5°	B	9	10	S117.0010.00	1171005
H117.1616.10	16	16	125	16	5°	B	9	10	S117.0010.00	1171005
H117.1212.12	12	12	125	12	5°	A	-	12	S117.0012.00	1171205
H117.1414.12	14	14	125	14	5°	B	8	12	S117.0012.00	1171205
H117.1612.12	16	12	125	16	5°	A	-	12	S117.0012.00	1171205
H117.1616.12	16	16	125	16	5°	B	8	12	S117.0012.00	1171205
H117.2020.12	20	20	150	20	5°	B	8	12	S117.0012.00	1171205

予備部品
Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
H117.1010.10	030.400P.0227	T15PQ
H117...	4.09T15P	T15PQ

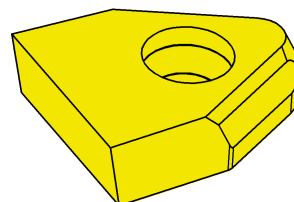
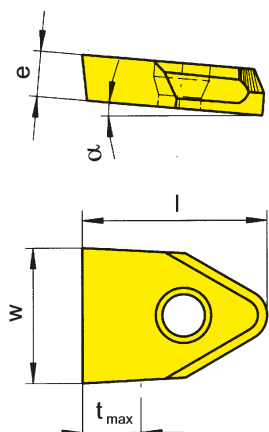
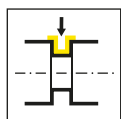
B



型式 Part number	h	b	l ₁	h ₁	l ₃	α	形状 Figur	l ₂	w	インサート Insert	HWS
H117.1414.16	14	14	125	14	18	5°	C	22	16	S117.0014/16.00	1171605
H117.1616.16	16	16	125	16	-	5°	A / B	11	16	S117.0014/16.00	1171605
H117.2020.16	20	20	150	20	-	5°	B	11	16	S117.0014/16.00	1171605
H117.2525.16	25	25	150	25	-	5°	B	8.5	16	S117.0014/16.00	1171605
H117.1616.20	16	16	125	16	23	5°	C	30	20	S117.0018/20.00	1172005
H117.2020.20	20	20	150	20	-	5°	A / B	15	20	S117.0018/20.00	1172005
H117.2525.20	25	25	150	25	-	5°	B	15	20	S117.0018/20.00	1172005
H117.2020.26	20	20	150	20	-	5°	C	30	26	S117.0026.00	1172605
H117.2525.26	25	25	150	25	-	5°	A	-	26	S117.0026.00	1172605

予備部品
Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
H117...16	5.12T20P	T20PQ
H117...	6.17T20P	T20PQ



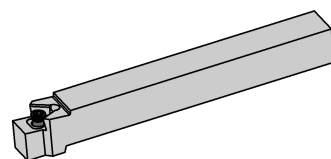
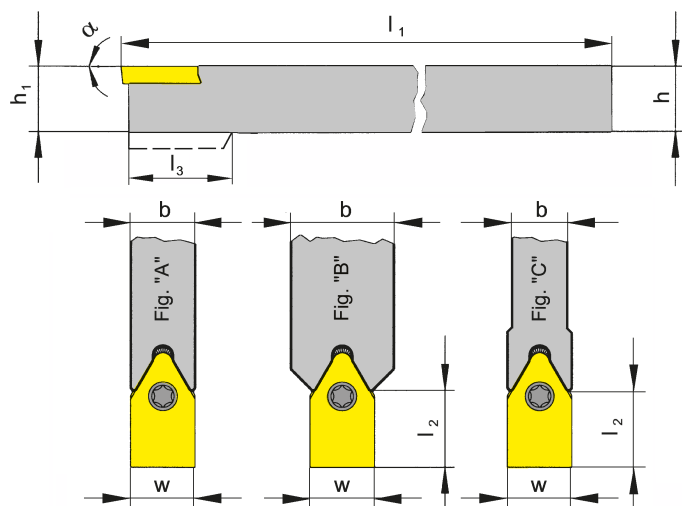
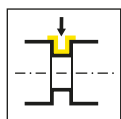
超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	E	t _{max}	l	α	ツールホルダー Toolholder	HIS	MG12
S117.0010.00	10	3	3.5	16	5°	H117...10	1171005	▲
S117.0012.00	12	4.5	4.5	17	5°	H117...12	1171205	▲
S117.0014.00	14	6	6	21	5°	H117...16	1171605	▲
S117.0016.00	16	6	6	21	5°	H117...16	1171605	▲
S117.0018.00	18	7	9	29	5°	H117...20	1172005	▲
S117.0020.00	20	7	9	29	5°	H117...20	1172005	▲
S117.0026.00	26	7	10	32	5°	H117...26	1172605	▲
								P o
								M -
								K -
								N -
								S -
								H -

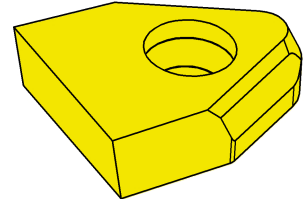
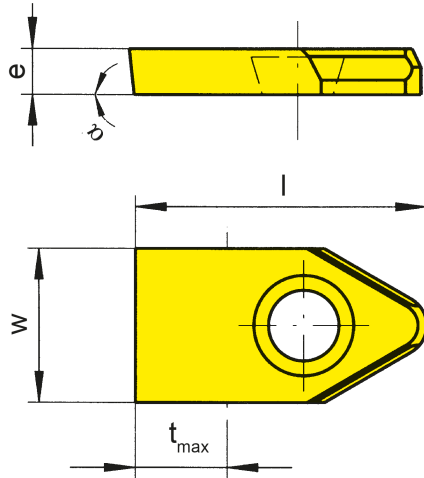
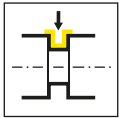
B



型式 Part number	h	b	l ₁	h ₁	l ₃	α	形状 Figur	l ₂	w	インサート Insert	HWS
H117.1010.02.10	10	10	100	10	-	0°	A	-	10	S117.0010.02.00	1171000
H117.1212.02.10	12	12	125	12	-	0°	B	12	10	S117.0010.02.00	1171000
H117.1616.02.10	16	16	125	16	-	0°	B	12	10	S117.0010.02.00	1171000
H117.1212.02.12	12	12	125	12	-	0°	A	-	12	S117.0012.02.00	1171200
H117.1616.02.12	16	16	125	16	-	0°	B	11	12	S117.0012.02.00	1171200
H117.2020.02.12	20	20	150	20	-	0°	B	11	12	S117.0012.02.00	1171200
H117.1616.02.16	16	16	125	16	-	0°	A	-	16	S117.0016.02.00	1171600
H117.2020.02.16	20	20	150	20	-	0°	B	14	16	S117.0016.02.00	1171600
H117.1616.02.20	16	16	125	16	26	0°	C	33	20	S117.0020.02.00	1172000
H117.2020.02.20	20	20	150	20	-	0°	A	-	20	S117.0020.02.00	1172000
H117.2525.02.20	25	25	150	25	-	0°	B	19	20	S117.0020.02.00	1172000
H117.2020.02.26	20	20	150	20	-	0°	C	33	26	S117.0026.02.00	117MD07
H117.2525.02.26	25	25	150	25	-	0°	A	-	26	S117.0026.02.00	117MD07

予備部品
Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
H117...10/12	4.09T15P	T15PQ
H117...16	5.12T20P	T20PQ
H117...20/26	6.17T20P	T20PQ



超硬材種
Carbide grades

▲ 在庫品
on stock

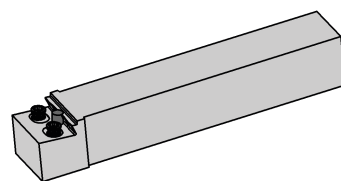
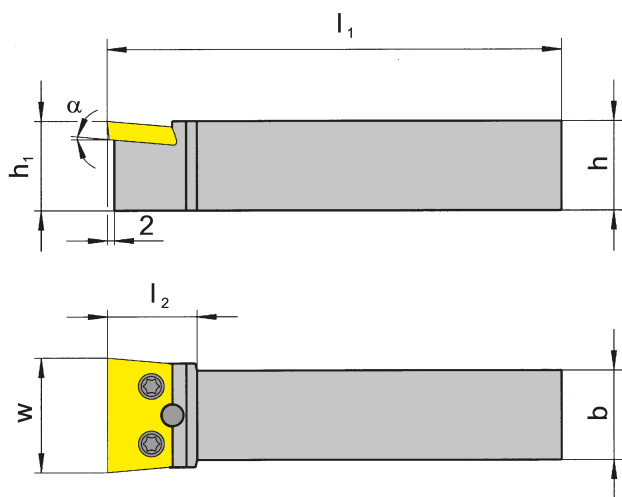
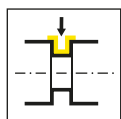
△ 4週間
4 weeks

型式 Part number	w	E	t _{max}	l	α	ツールホルダー Toolholder	HIS	MG12
S117.0010.02.00	10	3	6.5	19	0°	H117...02.10	1171000	▲
S117.0012.02.00	12	4.5	7.5	20	0°	H117...02.12	1171200	▲
S117.0016.02.00	16	6	9	24	0°	H117...02.16	1171600	▲
S117.0020.02.00	20	7	12	32	0°	H117...02.20	1172000	▲
S117.0026.02.00	26	7	13	35	0°	H117...02.26	117MD07	▲
								P o
								M -
								K -
								N -
								S -
								H -

加工形状はご提示ください。
Profile insert upon request



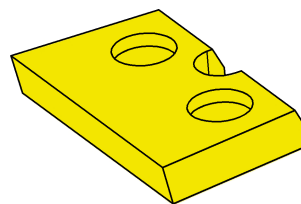
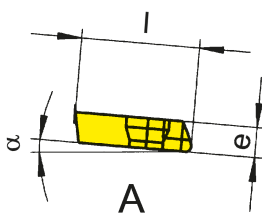
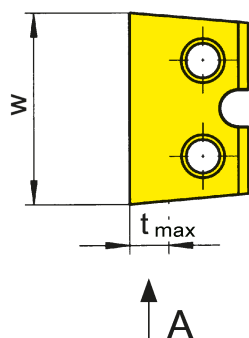
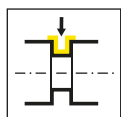
B



型式 Part number	h	b	l_1	h_1	α	l_2	w	インサート Insert	HWS
H117.2020.32	20	20	150	20	5°	25	32	S117.0032.00	1173205
H117.2525.32	25	25	150	25	5°	25	32	S117.0032.00	1173205
H117.2525.45	25	25	150	25	5°	27	45	S117.0045.00	1174505
H117.3232.45	32	32	170	32	5°	27	45	S117.0045.00	1174505

予備部品
Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
H117...	5.12T20P	T20PQ



超硬材種
Carbide grades

▲ 在庫品
on stock

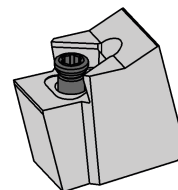
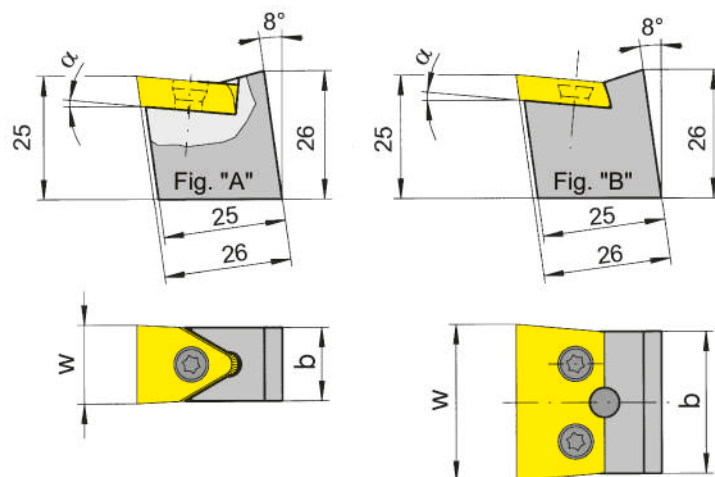
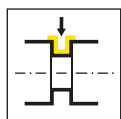
△ 4週間
4 weeks

型式 Part number	w	E	t _{max}	l	α	ツールホルダー Toolholder	HIS	MG12
S117.0032.00	32	5	6.5	19.7	5°	H117...32	1173205	▲
S117.0045.00	45	5	6.5	19.7	5°	H117...45	1174505	▲
								P o
								M -
								K -
								N -
								S -
								H -

加工形状をご提示ください。
Profile insert upon request



B



型式 Part number	b	α	形状 Figur	w	インサート Insert	HWS	HMS
H117.PWP.10	10	5°	A	10	S117.0010.00	1171005	PWP
H117.PWP.12	12	5°	A	12	S117.0012.00	1171205	PWP
H117.PWP.16	16	5°	A	16	S117.0014/16.00	1171605	PWP
H117.PWP.32	28	5°	B	32	S117.0032.00	1173205	PWP
H117.PWP.45	42	5°	B	45	S117.0045.00	1174505	PWP

予備部品
Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
H117.PWP.10	4.09T15P	T15PL
H117.PWP.12	4.09T15P	T15PQ
H117.PWP...	5.12T20P	T20PQ

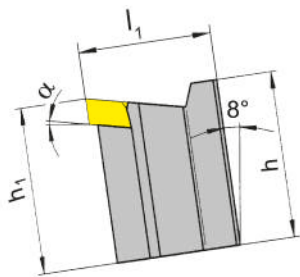
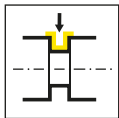


Fig. "A"

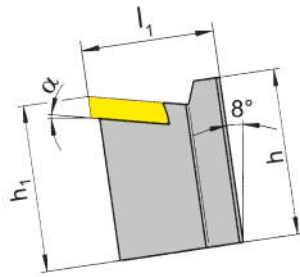
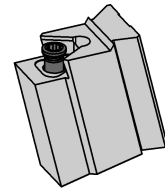
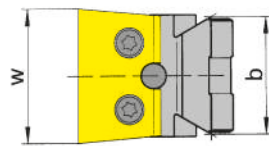
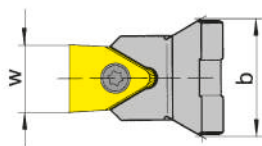


Fig. "B"



型式 Part number	h	b	l ₁	h ₁	t _{max}	α	形状 Figur	w	インサート Insert	HWS	HMS
H117.AW20.10	36	20	32	40	3.5	5°	A	10	S117.0010.00	1171005	AWN
H117.AW28.10	36	28	32	40	3.5	5°	A	10	S117.0010.00	1171205	AWN
H117.AW20.12	36	20	32	40	4.5	5°	A	12	S117.0012.00	1171205	AWN
H117.AW28.12	36	28	32	40	4.5	5°	A	12	S117.0012.00	1171205	AWN
H117.AW20.16	36	20	32	40	6.5	5°	A	16	S117.0014/16.00	1171605	AWN
H117.AW28.16	36	28	32	40	6.5	5°	A	16	S117.0014/16.00	1171605	AWN
H117.AW28.20	36	28	32	40	9	5°	A	20	S117.0018/20.00	1172005	AWN
H117.AW28.26	36	28	35	40	10	5°	A	26	S117.0026.00	1172605	AWN
H117.AW28.32	36	28	32	40	6.5	5°	B	32	S117.0032.00	1173205	AWN
H117.AW40.45	46	40	32	50	6.5	5°	B	45	S117.0045.00	1174505	AWN

予備部品
Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
H117.AW2...10/12	4.09T15P	T15PQ
H117.AW...16/32/45	5.12T20P	T20PQ
H117.AW28.20/26	6.17T20P	T20PQ

短納期に対応 システムS117

総形ツールシステム117はラインナップの拡充に伴い、さらに短納期の新システムを構築しました。従来より、急ぎの製品について柔軟に対応ができる "グリーンライン" という製造ラインを設置しており、当システムの採用も可能になりました。短納期であっても製品の品質を保証します。また、お見積り依頼時にワーク図面を送付いただき、当社からツールホルダーとインサートの見積を2日以内に提出します。そしてご注文をいただき、48時間以内に承認図面を送付いたします。（ドイツからIZUSHIへ）お客様にご承認いただいた図面をドイツに提出後、実働5日以内に特殊ツールホルダーおよびインサートの出荷準備が完了します。（IZUSHI定期便との兼ね合いで数日前後いたします。ご了承ください。）

上記グリーンラインのスケジュールに該当する発注ロットは、インサート3～20個、ツールホルダー1～2本になります。

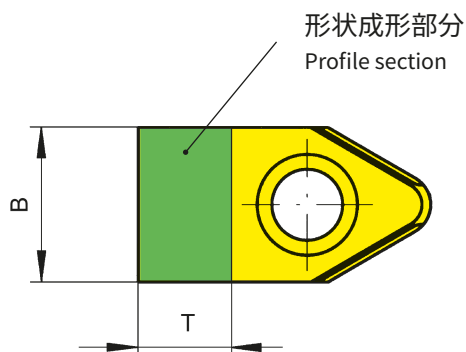
Faster delivery times for System S117

HORN is now offering the option of delivering special designs within five working days, especially for the S117 grooving system. To this end, HORN has once again optimised its existing Greenline system, so that the user not only has the profiled insert but also the appropriate tool carrier within a short timescale. It guarantees secure support by the toolholder of even the most complex insert profiles. With the Greenline system, after the customer submits an enquiry together with the component drawing, an offer with the quotation drawing of insert and holder is received within two working days. After placing the order, within 48 hours the customer receives the drawing for approval. Following the approval, HORN will deliver the special tools within five working days. The Greenline system is available for inserts in quantities of 3 to 20 pieces and for 1 to 2 toolholders.

HORN offers the tools with widths of 10, 12, 16, 20, 26, 32 and 45 mm, which are precision ground to the required special shape to suit the application. The maximum form depth depends on the cutting width. The tool coating is specially selected for each application and is available for the material groups P, M, K and N. The square shank holders are available in standard sizes from 10 x 10 mm to 32 x 32 mm.

1 ボルトクランプタイプ

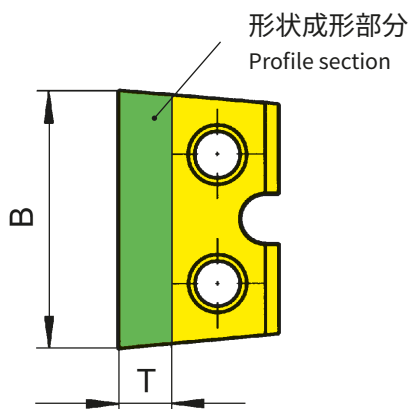
Insert with one clamping screw



切削幅B Cutting width B	切削深さT Cutting depth T	インサートタイプ Type of insert
≤ 9,7	3,50	S117.0010.00
≤ 9,7	6,50	S117.0010.02.00
≤ 11,2	4,50	S117.0012.00
≤ 11,2	7,50	S117.0012.02.00
≤ 13,7	6,00	S117.0014.00
≤ 15,1	6,00	S117.0016.00
≤ 15,1	9,00	S117.0016.02.00
≤ 17,8	9,00	S117.0018.00
≤ 19,8	9,00	S117.0020.00
≤ 19,8	12,00	S117.0020.02.00
≤ 24,7	10,00	S117.0026.00
≤ 24,7	13,00	S117.0026.02.00

2 ボルトクランプタイプ

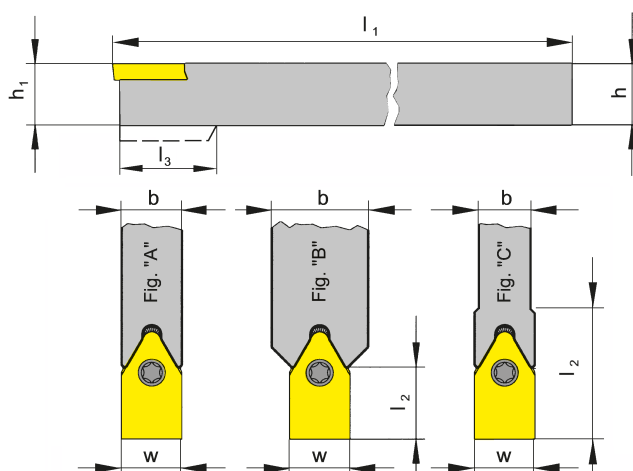
Insert with two clamping screws



切削幅B Cutting width B	切削深さT Cutting depth T	インサートタイプ Type of insert
≤ 30,2	6,50	S117.0032.00
≤ 43,3	6,50	S117.0045.00

ツールホルダーの選定 Selection of the toolholder

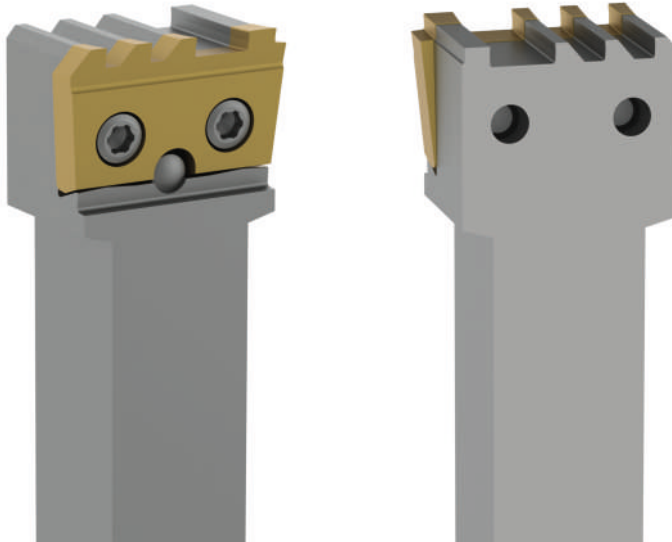
B



インサートタイプ Type of insert	h	b	l ₁	形状 Figur	l ₂	特殊ツールホルダー類似型式 Special toolholder similar to
S117.0010.00	10,00	10,00	100	A	-	H117.1010.10
	12,00	12,00	125	B	9	H117.1212.10
	16,00	16,00	125	B	9	H117.1616.10
S117.0010.02.00	10,00	10,00	100	A	-	H117.1010.02.10
	12,00	12,00	125	B	12	H117.1212.02.10
	16,00	16,00	125	B	12	H117.1616.02.10
S117.0012.00	12,00	12,00	125	A	-	H117.1212.12
	14,00	14,00	125	B	8	H117.1414.12
	16,00	12,00	125	A	-	H117.1612.12
	16,00	16,00	125	B	8	H117.1616.12
	20,00	20,00	150	B	8	H117.2020.12
S117.0012.02.00	12,00	12,00	125	A	-	H117.1212.02.12
	16,00	16,00	125	B	11	H117.1616.02.12
	20,00	20,00	150	B	11	H117.2020.02.12
S117.0014.00 S117.0016.00	14,00	14,00	125	C	22	H117.1414.16
	16,00	16,00	125	A / B	11	H117.1616.16
	20,00	20,00	150	B	11	H117.2020.16
	25,00	25,00	150	B	8,5	H117.2525.16
S117.0016.02.00	16,00	16,00	125	A	-	H117.1616.02.16
	20,00	20,00	150	B	14	H117.2020.02.16
S117.0018.00 S117.0020.00	16,00	16,00	125	C	30	H117.1616.20
	20,00	20,00	150	A / B	15	H117.2020.20
	25,00	25,00	150	B	15	H117.2525.20
S117.0020.02.00	16,00	16,00	125	C	33	H117.1616.02.20
	20,00	20,00	150	A	-	H117.2020.02.20
	25,00	25,00	150	B	19	H117.2525.02.20
S117.0026.00	20,00	20,00	150	C	30	H117.2020.26
	25,00	25,00	150	A	-	H117.2525.26
S117.0026.02.00	20,00	20,00	150	C	33	H117.2020.02.26
	25,00	25,00	150	A	-	H117.2525.02.26
S117.0032.00	20,00	20,00	150	C	25	H117.2020.32
	25,00	25,00	150	C	25	H117.2525.32
S117.0045.00	25,00	25,00	150	C	27	H117.2525.45
	32,00	32,00	170	C	27	H117.3232.45

高剛性クランプを実現

High stability afford to an optimised support of the insert.



注釈:

- 最小歯元r 0,05 mm
- 最小刃先r 0,04 mm
- 最小角度誤差 $\pm 10'$
- 最小寸法公差 $\pm 0,005$ mm
- 最小形状誤差 0,01 mm

Please note:

- smallest possible inner radius: 0.05 mm
- smallest possible outer radius 0.04 mm
- smallest possible angle tolerance Form: $\pm 10'$
- smallest possible dimensional tolerance: ± 0.005 mm
- smallest possible shape tolerance: 0.01 mm

被削材別推奨コーティング・超硬材種

All inserts are available coated.

被削材P種 Cutting main group	P	EG35/EG55
被削材M種 Cutting main group	M	EG35/EG55
被削材K種 Cutting main group	K	EG36/EG56
被削材N種 Cutting main group	N	MG12
被削材S種 Cutting main group	S	EG35

B

