

229/259



ツールホルダー/インサート

溝幅2.5 - 10 mm

Toolholder and
Inserts

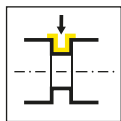
Width of groove 2,5 - 10 mm

H

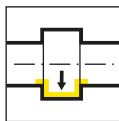
チップブレイカー/送り量
Geometries and feed rates

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ベーシックツールホルダー
Basic toolholder
210/218/B229

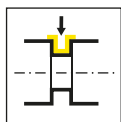


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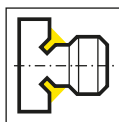


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242-243

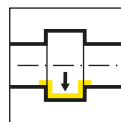
ツールホルダー
Toolholder
210/218/226/219
225/213/214/H259



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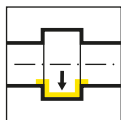


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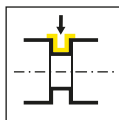


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カセット
Cassette
BK229/050

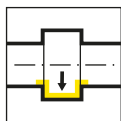


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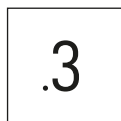
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カートリッジ
Cartridge
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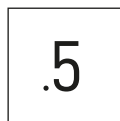


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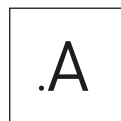
2コーナー式インサート
Indexable insert
S229/229/259



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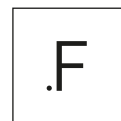
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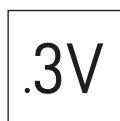
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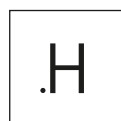
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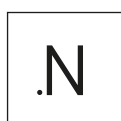
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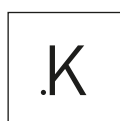
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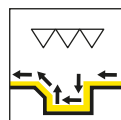
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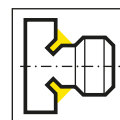
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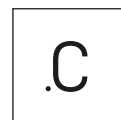
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チップブレーカー/送り量

Geometries and feed rates



チップブレーカー 被削材
Geometry Material

送り量 f [mm/rev]
Feed rate f [mm/rev]

加工用途
Machining

H		P M K N S H	↓ 0.15-0.25 ↔ 0.15-0.40	
		P M K N S H	↓ 0.10-0.45 ↔ 0.15-0.60	
		P M K N S H	↓ 0.05-0.30 ↔ 0.10-0.30	
		P M K N S H	↓ 0.08-0.30	
		P M K N S H	↓ 0.03-0.15	

チップブレーカー/送り量

Geometries and feed rates

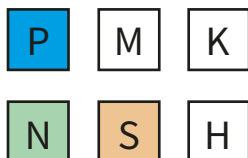


チップブレーカー 被削材
Geometry Material

送り量 f [mm/rev]
Feed rate f [mm/rev]

加工用途
Machining

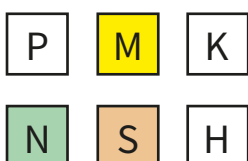
.FY



0.03-0.15



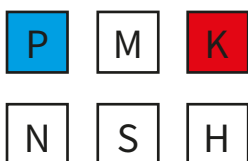
.3V



0.05-0.20



.H



0.15-0.25

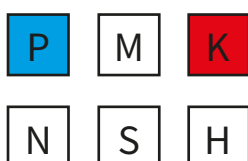


0.10-0.25

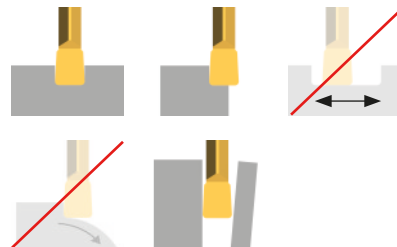


H

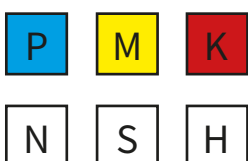
.HR



0.20-0.30



.L



0.10-0.22



0.05-0.20



チップブレーカー/送り量

Geometries and feed rates



チップブレーカー 被削材
Geometry Material

送り量 f [mm/rev]
Feed rate f [mm/rev]

加工用途
Machining

H		P M K N S H	↓ 0.05-0.25 ↔ 0.05-0.25	
		P M K N S H	↓ 0.05-0.25 ↔ 0.05-0.25	
		P M K N S H	↓ 0.10-0.45 ↔ 0.05-0.25	
		P M K N S H	↓ 0.05-0.15	
		P M K N S H	↓ 0.07-0.25	

チップブレーカー/送り量

Geometries and feed rates

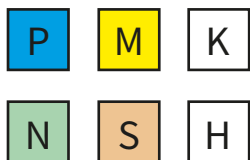


チップブレーカー 被削材
Geometry Material

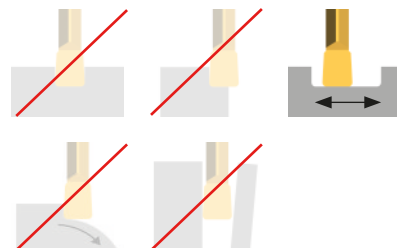
送り量 f [mm/rev]
Feed rate f [mm/rev]

加工用途
Machining

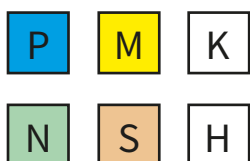
.NC



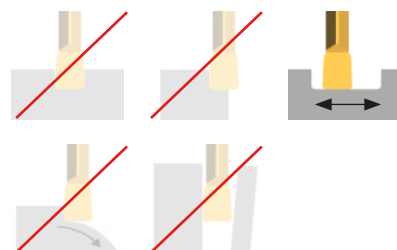
↓ 0.02-0.10
↔ 0.02-0.15



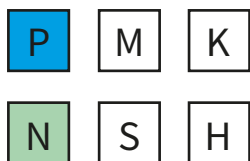
.FB



↓ 0.02-0.10
↔ 0.0015-0.07



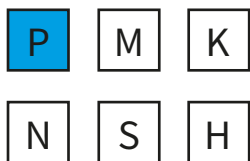
.C



↓ 0.02-0.10



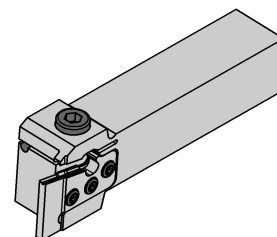
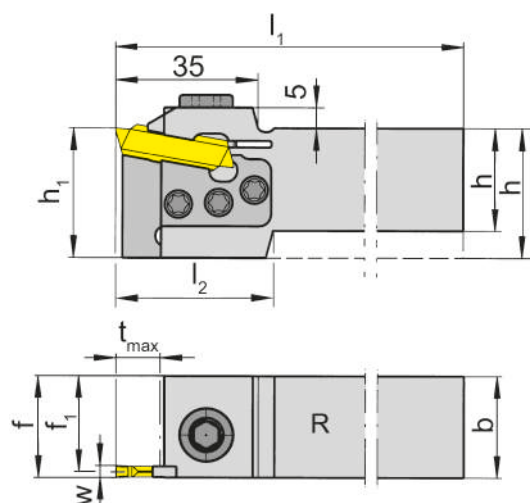
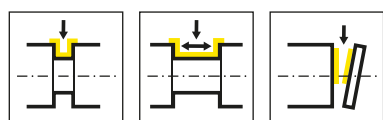
.M0



↓ 0.02-0.10
↔ 0.02-0.15



H



R = 右勝手バージョン図示
R = right hand version shown

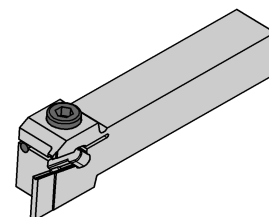
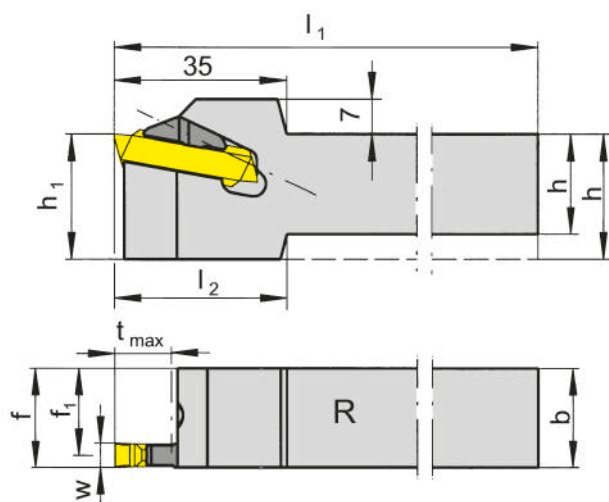
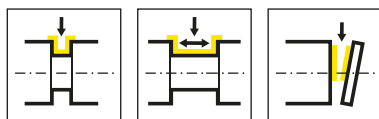
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R210.2525.K3	25	25	150	35	32	23.55	f ₁ +w/2	11	229030
R210.3225.K3	32	25	170	-	32	23.55	f ₁ +w/2	11	229030
R210.2525.K4	25	25	150	35	32	22.7	f ₁ +w/2	11	229040
R210.3225.K4	32	25	150	-	32	22.7	f ₁ +w/2	11	229040
R210.2525.K5	25	25	150	35	32	22.2	f ₁ +w/2	11	229050 • 229051
R210.3225.K5	32	25	170	-	32	22.2	f ₁ +w/2	11	229050 • 229051
R210.2525.K7	25	25	150	35	32	21.2	f ₁ +w/2	11	229070 • 229071
R210.3225.K7	32	25	170	-	32	21.2	f ₁ +w/2	11	229070 • 229071
L210.2525.K3	25	25	150	35	32	23.55	f ₁ +w/2	11	229030
L210.3225.K3	32	25	170	-	32	23.55	f ₁ +w/2	11	229030
L210.2525.K4	25	25	150	35	32	22.7	f ₁ +w/2	11	229040
L210.3225.K4	32	25	150	-	32	22.7	f ₁ +w/2	11	229040
L210.2525.K5	25	25	150	35	32	22.2	f ₁ +w/2	11	229050 • 229051
L210.3225.K5	32	25	170	-	32	22.2	f ₁ +w/2	11	229050 • 229051
L210.2525.K7	25	25	150	35	32	21.2	f ₁ +w/2	11	229070 • 229071
L210.3225.K7	32	25	170	-	32	21.2	f ₁ +w/2	11	229070 • 229071

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ベーシックツールホルダー Basic toolholder	ねじ Clamping Screw	カセット Cassette	トルクスレンチ TORX PLUS® Wrench
R/L210...K3	030.0518.T20P	NK210.32.03	T20PQ
R/L210...K4	030.0518.T20P	NK210.32.04	T20PQ
R/L210...K5	030.0518.T20P	NK210.32.05	T20PQ
R/L210...K7	030.0518.T20P	NK210.32.07	T20PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

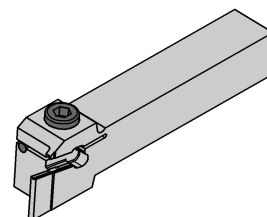
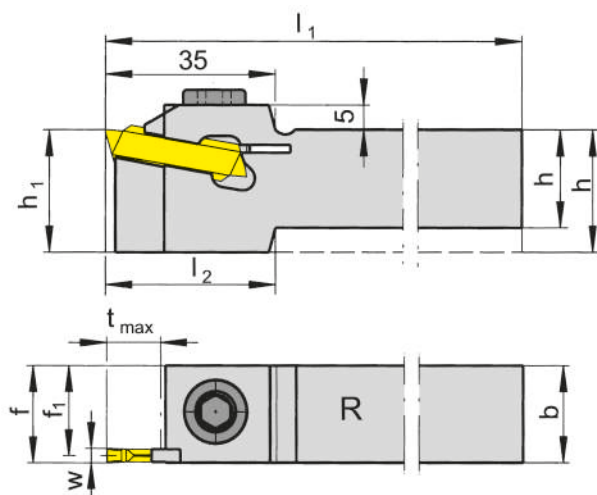
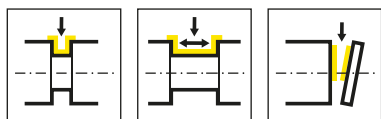
型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R210.2020.09	20	20	150	35	25	15.2	f ₁ +w/2	11	229090 • 229091
R210.2525.09	25	25	150	-	25	20.2	f ₁ +w/2	11	229090 • 229091
R210.3225.09	32	25	170	-	32	20.2	f ₁ +w/2	11	229090 • 229091
L210.2020.09	20	20	150	35	25	15.2	f ₁ +w/2	11	229090 • 229091
L210.2525.09	25	25	150	-	25	20.2	f ₁ +w/2	11	229090 • 229091
L210.3225.09	32	25	170	-	32	20.2	f ₁ +w/2	11	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

H

予備部品 Spare Parts

ツールホルダー Toolholder	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
L210...	L218.9	T15PQ
R210...	R218.9	T15PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R210.2020.02	20	20	150	35	25	18.55	f ₁ +w/2	11	229020
R210.2525.02	25	25	150	-	25	23.55	f ₁ +w/2	11	229020
R210.1616.03	16	16	150	45	25	14.55	f ₁ +w/2	11	229030
R210.2020.03	20	20	150	35	25	18.55	f ₁ +w/2	11	229030
R210.2525.03	25	25	150	-	25	23.55	f ₁ +w/2	11	229030
R210.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	11	229030
R210.2020.04	20	20	150	35	25	17.7	f ₁ +w/2	11	229040
R210.2525.04	25	25	150	-	25	22.7	f ₁ +w/2	11	229040
R210.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	11	229040
R210.2020.05	20	20	150	35	25	17.2	f ₁ +w/2	11	229050 • 229051
R210.2525.05	25	25	150	-	25	22.2	f ₁ +w/2	11	229050 • 229051
R210.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	11	229050 • 229051
L210.2020.02	20	20	150	35	25	18.55	f ₁ +w/2	11	229020
L210.2525.02	25	25	150	-	25	23.55	f ₁ +w/2	11	229020
L210.1616.03	16	16	150	45	25	14.55	f ₁ +w/2	11	229030
L210.2020.03	20	20	150	35	25	18.55	f ₁ +w/2	11	229030
L210.2525.03	25	25	150	-	25	23.55	f ₁ +w/2	11	229030
L210.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	11	229030
L210.2020.04	20	20	150	35	25	17.7	f ₁ +w/2	11	229040
L210.2525.04	25	25	150	-	25	22.7	f ₁ +w/2	11	229040
L210.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	11	229040
L210.2020.05	20	20	150	35	25	17.2	f ₁ +w/2	11	229050 • 229051
L210.2525.05	25	25	150	-	25	22.2	f ₁ +w/2	11	229050 • 229051
L210.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	11	229050 • 229051

w寸法はインサートページをご参照ください。

w see indexable inserts

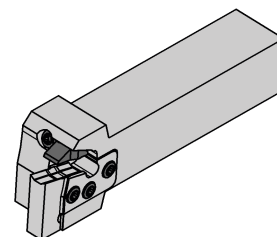
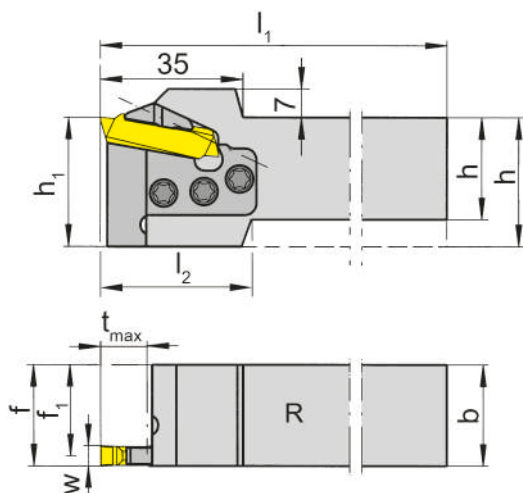
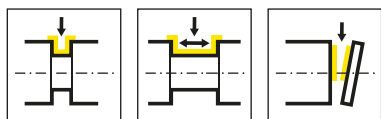
R/L 210...02での最大溝深さ11.0mm加工はワーク径Ø 150 mmまでです。

R/L 210...02 max. depth of groove up to Ø 150 mm

予備部品

Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L210...	218.3



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

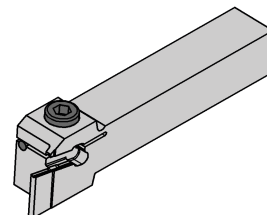
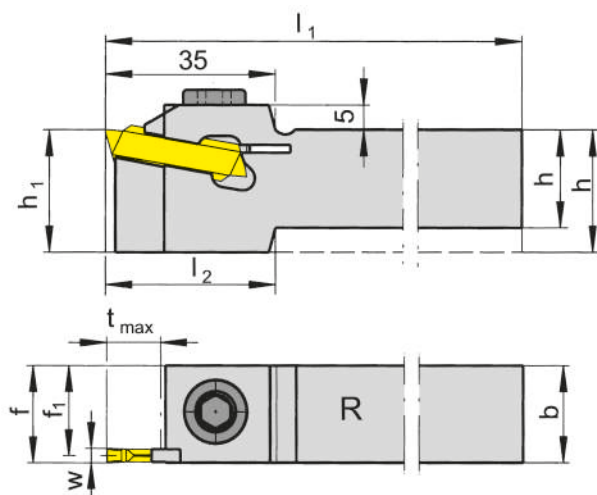
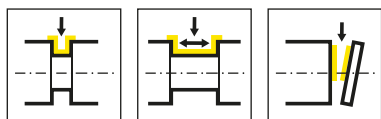
型式 Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R210.2525.K9	25	25	150	35	32	20.2	$f_1 + w/2$	11	229090 • 229091
R210.3225.K9	32	25	170	-	32	20.2	$f_1 + w/2$	11	229090 • 229091
L210.2525.K9	25	25	150	35	32	20.2	$f_1 + w/2$	11	229090 • 229091
L210.3225.K9	32	25	170	-	32	20.2	$f_1 + w/2$	11	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

H

予備部品 Spare Parts

ベーシックツールホルダー Basic toolholder	ねじ Clamping Screw	カセット Cassette	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
R/L210...	030.0518.T20P	NK210.32.09	L218.9	T20PQ



R = 右勝手バージョン図示
R = right hand version shown

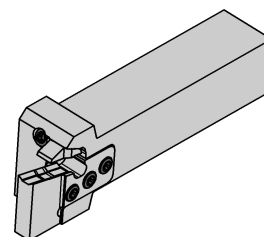
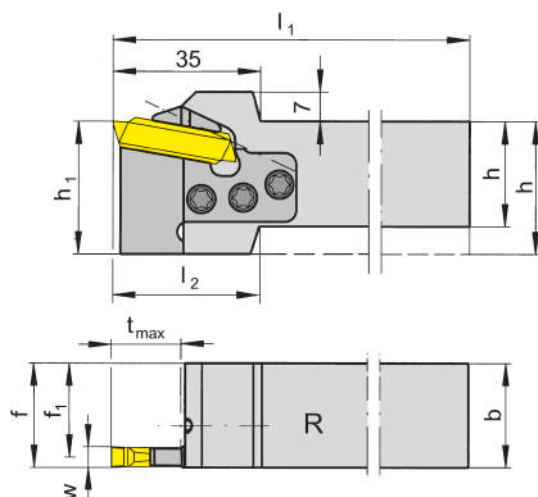
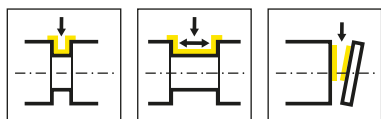
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R210.2020.07	20	20	150	35	25	16.2	$f_1 + w/2$	11	229070 • 229071
R210.2525.07	25	25	150	-	25	21.2	$f_1 + w/2$	11	229070 • 229071
R210.3225.07	32	25	170	-	32	21.2	$f_1 + w/2$	11	229070 • 229071
R210.2020.08	20	20	150	35	25	16.2	$f_1 + w/2$	11	229080 • 229081
R210.2525.08	25	25	150	-	25	21.2	$f_1 + w/2$	11	229080 • 229081
L210.2020.07	20	20	150	35	25	16.2	$f_1 + w/2$	11	229070 • 229071
L210.2525.07	25	25	150	-	25	21.2	$f_1 + w/2$	11	229070 • 229071
L210.3225.07	32	25	170	-	32	21.2	$f_1 + w/2$	11	229070 • 229071
L210.2020.08	20	20	150	35	25	16.2	$f_1 + w/2$	11	229080 • 229081
L210.2525.08	25	25	150	-	25	21.2	$f_1 + w/2$	11	229080 • 229081

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L210...	218.3



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

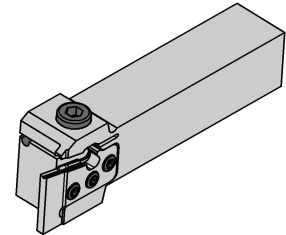
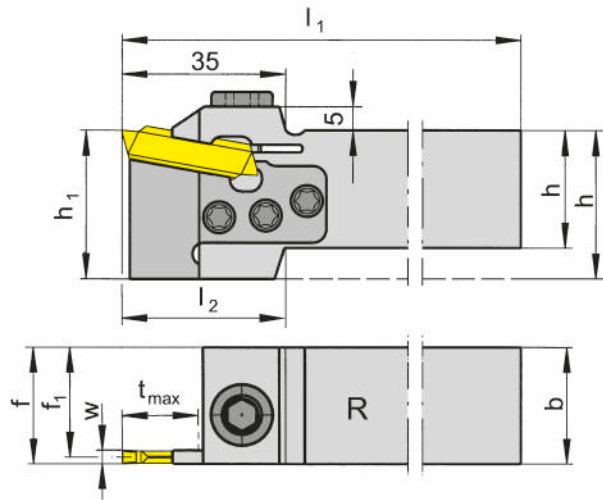
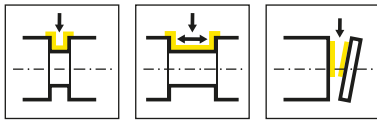
型式 Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R218.2525.K9	25	25	150	48	32	20.2	$f_1 + w/2$	18	229090 • 229091
R218.3225.K9	32	25	170	-	32	20.2	$f_1 + w/2$	18	229090 • 229091
L218.2525.K9	25	25	150	48	32	20.2	$f_1 + w/2$	18	229090 • 229091
L218.3225.K9	32	25	170	-	32	20.2	$f_1 + w/2$	18	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

H

予備部品 Spare Parts

ベーシックツールホルダー Basic toolholder	ねじ Clamping Screw	カセット Cassette	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
R/L218...	030.0518.T20P	NK218.32.09	L218.9	T20PQ



R = 右勝手バージョン図示
R = right hand version shown

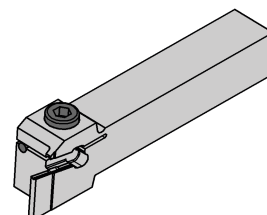
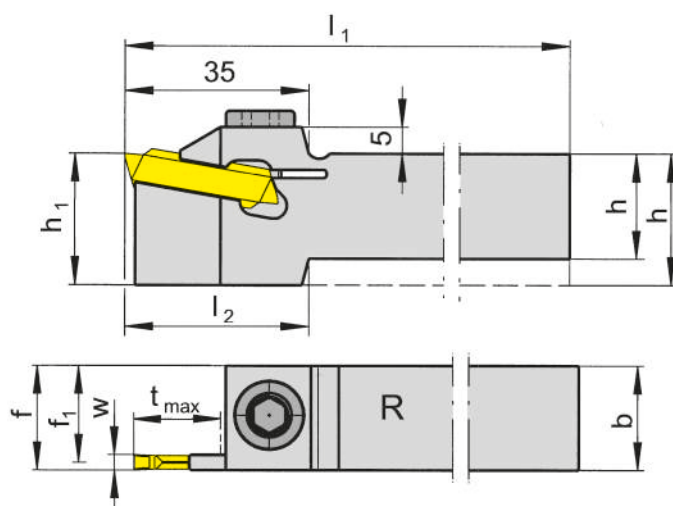
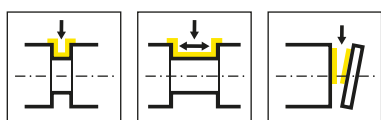
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R218.2525.K3	25	25	150	35	32	23.55	f ₁ +w/2	18	229030
R218.3225.K3	32	25	170	-	32	23.55	f ₁ +w/2	18	229030
R218.3225.K4	32	25	170	-	32	22.7	f ₁ +w/2	18	229040
R218.2525.K5	25	25	150	35	32	22.2	f ₁ +w/2	18	229050 • 229051
R218.3225.K5	32	25	170	-	32	22.2	f ₁ +w/2	18	229050 • 229051
R218.2525.K7	25	25	150	35	32	21.2	f ₁ +w/2	18	229070 • 229071
R218.3225.K7	32	25	170	-	32	21.2	f ₁ +w/2	18	229070 • 229071
L218.2525.K3	25	25	150	35	32	23.55	f ₁ +w/2	18	229030
L218.3225.K3	32	25	170	-	32	23.55	f ₁ +w/2	18	229030
L218.2525.K5	25	25	150	35	32	22.2	f ₁ +w/2	18	229050 • 229051
L218.3225.K5	32	25	170	-	32	22.2	f ₁ +w/2	18	229050 • 229051
L218.2525.K7	25	25	150	35	32	21.2	f ₁ +w/2	18	229070 • 229071
L218.3225.K7	32	25	170	-	32	21.2	f ₁ +w/2	18	229070 • 229071

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ベーシックツールホルダー Basic toolholder	ねじ Clamping Screw	カセット Cassette	トルクスレンチ TORX PLUS® Wrench	締付部品 Clamping element
R/L218.3225.K3	030.0518.T20P	NK218.32.03	T20PQ	
R/L218.3225.K4	030.0518.T20P	NK218.32.04	T20PQ	
R/L218.3225.K5	030.0518.T20P	NK218.32.05	T20PQ	
R/L218.3225.K7	030.0518.T20P	NK218.32.07	T20PQ	L218.5.7



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	HWS
R218.2020.02	20	20	150	35	25	18.55	f ₁ +w/2	18	80	229020
R218.2525.02	25	25	150	-	25	23.55	f ₁ +w/2	18	80	229020
R218.1616.03	16	16	150	45	25	14.55	f ₁ +w/2	18	-	229030
R218.2020.03	20	20	150	35	25	18.55	f ₁ +w/2	18	-	229030
R218.2525.03	25	25	150	-	25	23.55	f ₁ +w/2	18	-	229030
R218.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	18	-	229030
R218.2020.04	20	20	150	35	25	17.7	f ₁ +w/2	18	-	229040
R218.2525.04	25	25	150	-	25	22.7	f ₁ +w/2	18	-	229040
R218.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	18	-	229040
R218.2020.05	20	20	150	35	25	17.2	f ₁ +w/2	18	-	229050 • 229051
R218.2525.05	25	25	150	-	25	22.2	f ₁ +w/2	18	-	229050 • 229051
R218.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	18	-	229050 • 229051
L218.2020.02	20	20	150	35	25	18.55	f ₁ +w/2	18	80	229020
L218.2525.02	25	25	150	-	25	23.55	f ₁ +w/2	18	80	229020
L218.1616.03	16	16	150	45	25	14.55	f ₁ +w/2	18	-	229030
L218.2020.03	20	20	150	35	25	18.55	f ₁ +w/2	18	-	229030
L218.2525.03	25	25	150	-	25	23.55	f ₁ +w/2	18	-	229030
L218.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	18	-	229030
L218.2020.04	20	20	150	35	25	17.7	f ₁ +w/2	18	-	229040
L218.2525.04	25	25	150	-	25	22.7	f ₁ +w/2	18	-	229040
L218.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	18	-	229040
L218.2020.05	20	20	150	35	25	17.2	f ₁ +w/2	18	-	229050 • 229051
L218.2525.05	25	25	150	-	25	22.2	f ₁ +w/2	18	-	229050 • 229051
L218.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	18	-	229050 • 229051

w寸法はインサートページをご参照ください。

w see indexable inserts

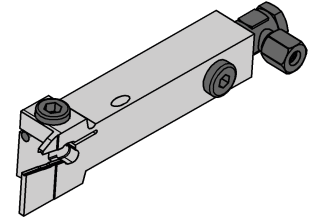
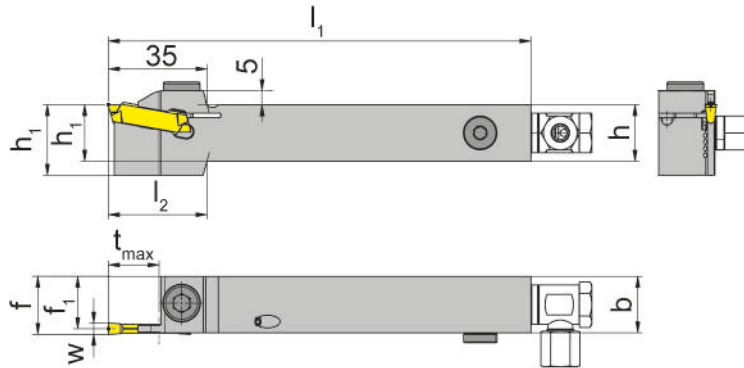
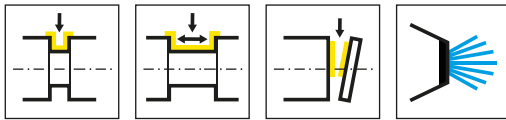
R/L 218...02での最大溝深さ18.0mm加工はワーク径Ø80mmまで。

R/L 218...02 max. depth of groove up to Ø 80 mm

予備部品

Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L218...	218.3



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

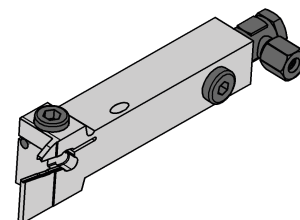
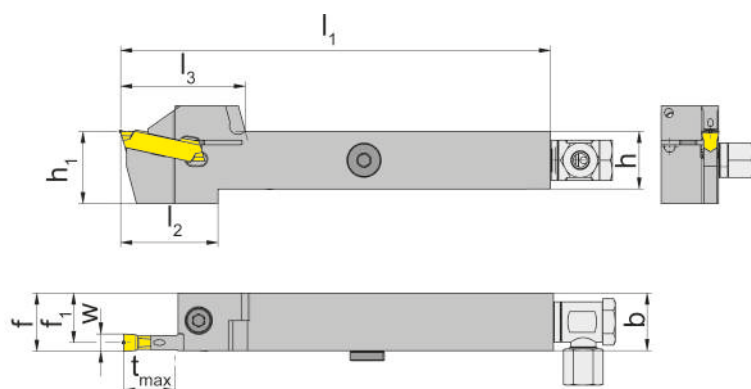
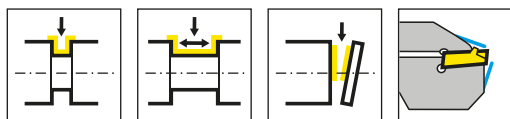
型式 Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	D_{max}	HWS
R218.2525.02.IK	25	25	150	-	25	23.55	$f_1 + w/2$	18	80	229020
R218.1616.03.IK	16	16	150	45	25	14.55	$f_1 + w/2$	18	-	229030
R218.2020.03.IK	20	20	150	35	25	18.55	$f_1 + w/2$	18	-	229030
R218.2525.03.IK	25	25	150	-	25	23.55	$f_1 + w/2$	18	-	229030
L218.2020.02.IK	20	20	150	35	25	18.55	$f_1 + w/2$	18	80	229020
L218.2525.02.IK	25	25	150	-	25	23.55	$f_1 + w/2$	18	80	229020
L218.1616.03.IK	16	16	150	45	25	14.55	$f_1 + w/2$	18	-	229030
L218.2020.03.IK	20	20	150	35	25	18.55	$f_1 + w/2$	18	-	229030
L218.2525.03.IK	25	25	150	-	25	23.55	$f_1 + w/2$	18	-	229030
L218.3225.03.IK	32	25	170	-	32	23.55	$f_1 + w/2$	18	-	229030

w寸法はインサートページをご参照ください。
w see indexable inserts

R/L 218...02での最大溝深さ18.0mm加工はワーク径Ø80mmまで。
R/L 218...02 max. depth of groove up to Ø 80 mm

予備部品 Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw	クーラント給油部品 Coolant supply
R/L218...	218.3	004.00.16



R = 右勝手バージョン図示
R = right hand version shown

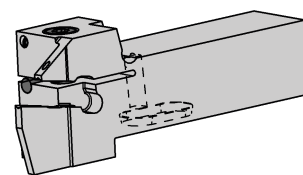
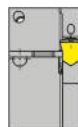
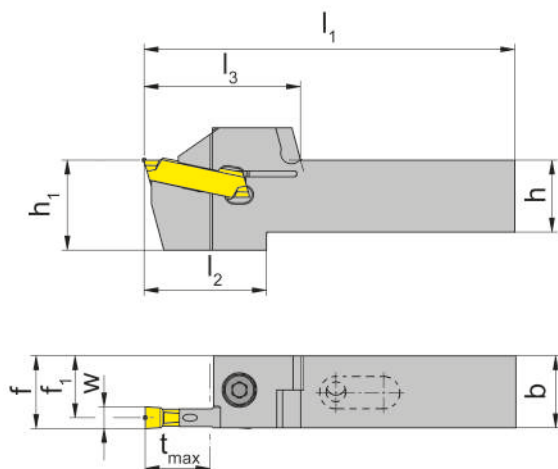
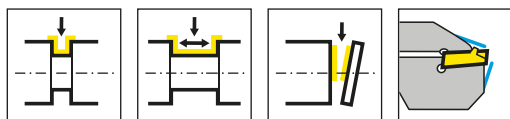
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	HWS
R218.1616.0.03.IK	16	16	150	37	43.5	25	14.55	f ₁ +w/2	18	229030
R218.2020.0.03.IK	20	20	150	34	43.5	25	18.55	f ₁ +w/2	18	229030
R218.2525.0.03.IK	25	25	150	32	43.5	32	23.55	f ₁ +w/2	18	229030
R218.2020.0.04.IK	20	20	150	34	43.5	25	17.7	f ₁ +w/2	18	229040
R218.2020.0.05.IK	20	20	150	34	43.5	25	17.2	f ₁ +w/2	18	229050 • 229051
R218.2525.0.04.IK	25	25	150	32	43.5	32	22.7	f ₁ +w/2	18	229040
R218.2525.0.05.IK	25	25	150	32	43.5	32	22.2	f ₁ +w/2	18	229050 • 229051
L218.1616.0.03.IK	16	16	150	37	43.5	25	14.55	f ₁ +w/2	18	229030
L218.2020.0.03.IK	20	20	150	34	43.5	25	18.55	f ₁ +w/2	18	229030
L218.2525.0.03.IK	25	25	150	32	43.5	32	23.55	f ₁ +w/2	18	229030
L218.2020.0.04.IK	20	20	150	34	43.5	25	17.7	f ₁ +w/2	18	229040
L218.2020.0.05.IK	20	20	150	34	43.5	25	17.2	f ₁ +w/2	18	229050 • 229051
L218.2525.0.04.IK	25	25	150	32	43.5	32	22.7	f ₁ +w/2	18	229040
L218.2525.0.05.IK	25	25	150	32	43.5	32	22.2	f ₁ +w/2	18	229050 • 229051

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ツールホルダー Toolholder	クーラント給油部品 Coolant supply	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
R/L218...	004.00.16	6.23T25P	T25PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

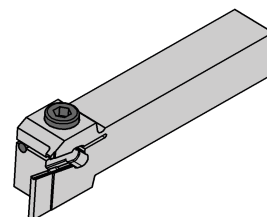
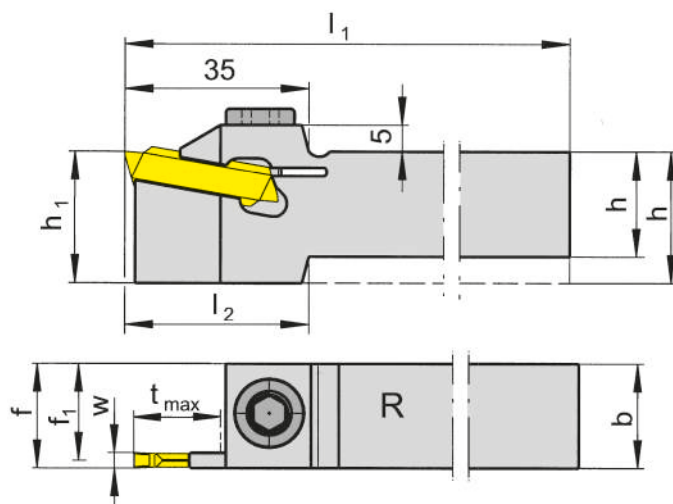
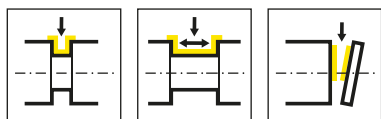
型式 Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	HWS
R218.1616.2.03.IK	16	16	91	37	43.5	25	14.55	f ₁ +w/2	18	229030
R218.1616.2.04.IK	16	16	91	37	43.5	25	13.7	f ₁ +w/2	18	229040
R218.1616.2.05.IK	16	16	91	37	43.5	25	13.2	f ₁ +w/2	18	229050 • 229051
R218.2020.2.03.IK	20	20	103	34	43.5	25	18.55	f ₁ +w/2	18	229030
R218.2020.2.04.IK	20	20	103	34	43.5	25	17.7	f ₁ +w/2	18	229040
R218.2020.2.05.IK	20	20	103	34	43.5	25	17.2	f ₁ +w/2	18	229050 • 229051
R218.2525.2.03.IK	25	25	116	32	43.5	32	23.55	f ₁ +w/2	18	229030
R218.2525.2.04.IK	25	25	116	32	43.5	32	22.7	f ₁ +w/2	18	229040
R218.2525.2.05.IK	25	25	116	32	43.5	32	22.2	f ₁ +w/2	18	229050 • 229051
R218.2525.2.07.IK	25	25	116	32	43.5	32	21.2	f ₁ +w/2	18	229070 • 229071
R218.2525.2.08.IK	25	25	116	32	43.5	32	21.2	f ₁ +w/2	18	229080 • 229081
L218.1616.2.03.IK	16	16	91	37	43.5	25	14.55	f ₁ +w/2	18	229030
L218.1616.2.04.IK	16	16	91	37	43.5	25	13.7	f ₁ +w/2	18	229040
L218.1616.2.05.IK	16	16	91	37	43.5	25	13.2	f ₁ +w/2	18	229050 • 229051
L218.2020.2.03.IK	20	20	103	34	43.5	25	18.55	f ₁ +w/2	18	229030
L218.2020.2.04.IK	20	20	103	34	43.5	25	17.7	f ₁ +w/2	18	229040
L218.2020.2.05.IK	20	20	103	34	43.5	25	17.2	f ₁ +w/2	18	229050 • 229051
L218.2525.2.03.IK	25	25	116	32	43.5	32	23.55	f ₁ +w/2	18	229030
L218.2525.2.04.IK	25	25	116	32	43.5	32	22.7	f ₁ +w/2	18	229040
L218.2525.2.05.IK	25	25	116	32	43.5	32	22.2	f ₁ +w/2	18	229050 • 229051
L218.2525.2.07.IK	25	25	116	32	43.5	32	21.2	f ₁ +w/2	18	229070 • 229071
L218.2525.2.08.IK	25	25	116	32	43.5	32	21.2	f ₁ +w/2	18	229080 • 229081

w寸法はインサートページをご参照ください。
w see indexable inserts

底面給油タイプ

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
R/L218...	6.23T25P	T25PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

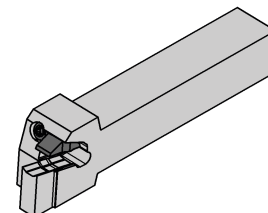
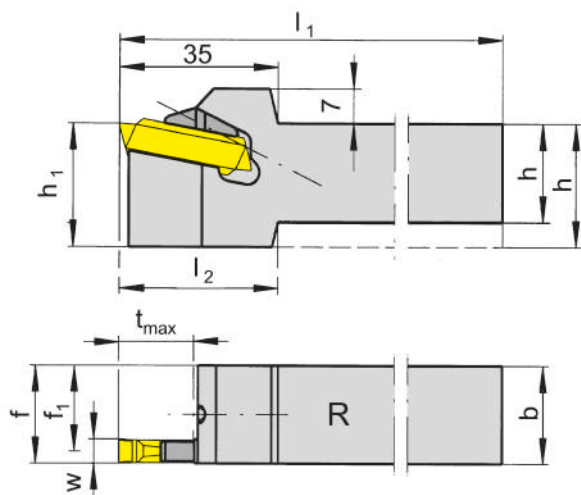
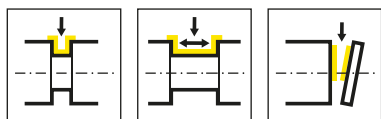
型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R218.2020.07	20	20	150	35	25	16.2	f ₁ +w/2	18	229070 • 229071
R218.2525.07	25	25	150	-	25	21.2	f ₁ +w/2	18	229070 • 229071
R218.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	18	229070 • 229071
L218.2020.07	20	20	150	35	25	16.2	f ₁ +w/2	18	229070 • 229071
L218.2525.07	25	25	150	-	25	21.2	f ₁ +w/2	18	229070 • 229071
L218.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	18	229070 • 229071
L218.2525.08	25	25	150	-	25	21.2	f ₁ +w/2	18	229080 • 229081

w寸法はインサートページをご参照ください。
w see indexable inserts

H

予備部品
Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L218...	218.3



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

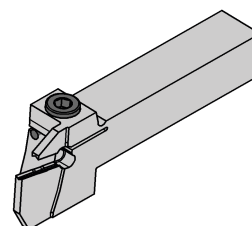
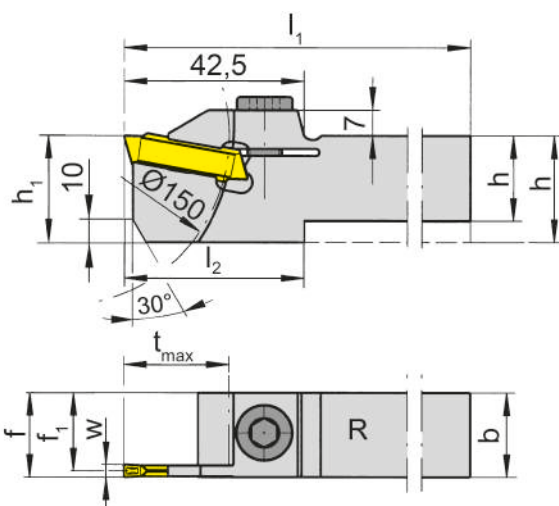
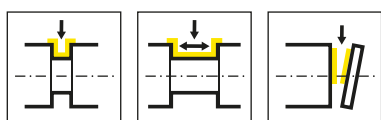
型式 Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R218.2020.09	20	20	150	35	25	15.2	$f_1 + w/2$	18	229090 • 229091
R218.2525.09	25	25	150	-	25	20.2	$f_1 + w/2$	18	229090 • 229091
R218.3225.09	32	25	170	-	32	20.2	$f_1 + w/2$	18	229090 • 229091
L218.2020.09	20	20	150	35	25	15.2	$f_1 + w/2$	18	229090 • 229091
L218.3225.09	32	25	170	-	32	20.2	$f_1 + w/2$	18	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

H

予備部品 Spare Parts

ツールホルダー Toolholder	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
L218...	L218.9	T15PQ
R218...	R218.9	T15PQ



R = 右勝手バージョン図示
R = right hand version shown

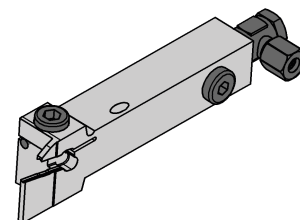
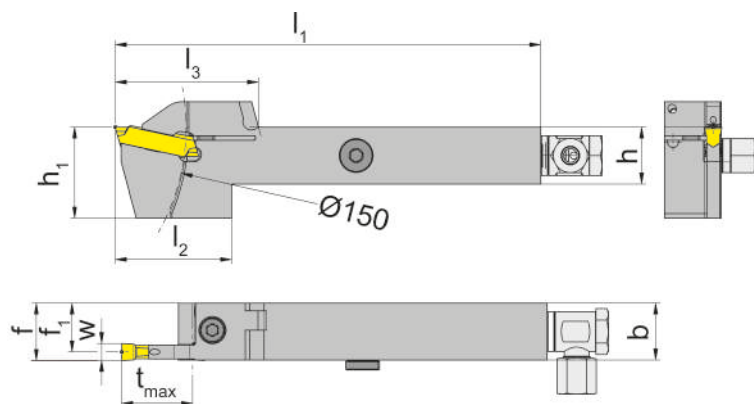
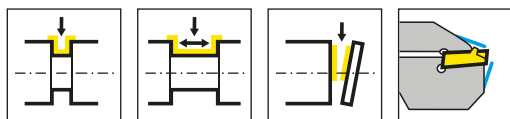
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R226.1616.03	16	16	150	52.5	32	14.55	f ₁ +w/2	25	229030
R226.2020.03	20	20	150	42.5	32	18.55	f ₁ +w/2	25	229030
R226.2525.03	25	25	150	42.5	32	23.55	f ₁ +w/2	25	229030
R226.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	25	229030
R226.1616.04	16	16	150	52.5	32	13.7	f ₁ +w/2	25	229040
R226.2020.04	20	20	150	42.5	32	17.7	f ₁ +w/2	25	229040
R226.2525.04	25	25	150	42.5	32	22.7	f ₁ +w/2	25	229040
R226.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	25	229040
R226.2020.05	20	20	150	42.5	32	17.2	f ₁ +w/2	25	229050 • 229051
R226.2525.05	25	25	150	42.5	32	22.2	f ₁ +w/2	25	229050 • 229051
R226.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	25	229050 • 229051
L226.1616.03	16	16	150	52.5	32	14.55	f ₁ +w/2	25	229030
L226.2020.03	20	20	150	42.5	32	18.55	f ₁ +w/2	25	229030
L226.2525.03	25	25	150	42.5	32	23.55	f ₁ +w/2	25	229030
L226.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	25	229030
L226.1616.04	16	16	150	52.5	32	13.7	f ₁ +w/2	25	229040
L226.2020.04	20	20	150	42.5	32	17.7	f ₁ +w/2	25	229040
L226.2525.04	25	25	150	42.5	32	22.7	f ₁ +w/2	25	229040
L226.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	25	229040
L226.2020.05	20	20	150	42.5	32	17.2	f ₁ +w/2	25	229050 • 229051
L226.2525.05	25	25	150	42.5	32	22.2	f ₁ +w/2	25	229050 • 229051
L226.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	25	229050 • 229051

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L226...	218.3



R = 右勝手バージョン図示
R = right hand version shown

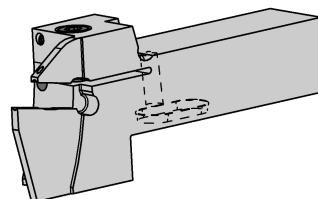
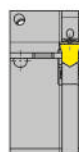
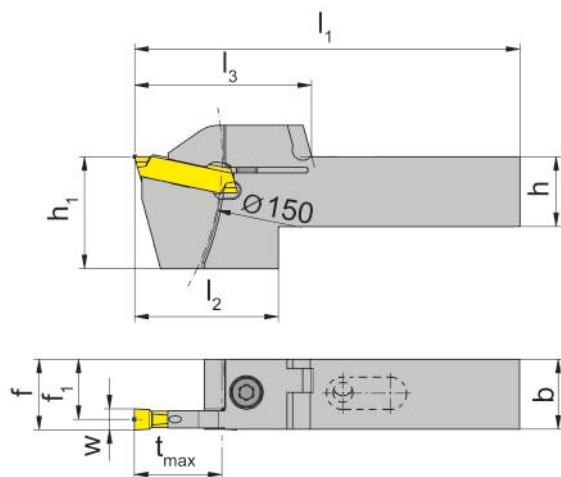
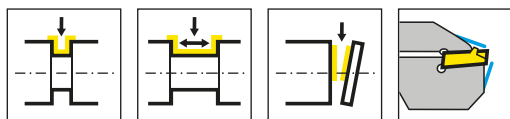
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	HWS
R226.2020.0.03.IK	20	20	150	41	50.5	32	18.55	f ₁ +w/2	25	229030
R226.2020.0.04.IK	20	20	150	41	50.5	32	17.7	f ₁ +w/2	25	229040
R226.2020.0.05.IK	20	20	150	41	50.5	32	17.2	f ₁ +w/2	25	229050 • 229051
R226.2525.0.03.IK	25	25	150	39	50.5	32	23.55	f ₁ +w/2	25	229030
R226.2525.0.04.IK	25	25	150	39	50.5	32	22.7	f ₁ +w/2	25	229040
R226.2525.0.05.IK	25	25	150	39	50.5	32	22.2	f ₁ +w/2	25	229050 • 229051
L226.2020.0.03.IK	20	20	150	41	50.5	32	18.55	f ₁ +w/2	25	229030
L226.2020.0.04.IK	20	20	150	41	50.5	32	17.7	f ₁ +w/2	25	229040
L226.2020.0.05.IK	20	20	150	41	50.5	32	17.2	f ₁ +w/2	25	229050 • 229051
L226.2525.0.03.IK	25	25	150	39	50.5	32	23.55	f ₁ +w/2	25	229030
L226.2525.0.04.IK	25	25	150	39	50.5	32	22.7	f ₁ +w/2	25	229040
L226.2525.0.05.IK	25	25	150	39	50.5	32	22.2	f ₁ +w/2	25	229050 • 229051

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ツールホルダー Toolholder	クーラント給油部品 Coolant supply	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
R/L226...	004.00.16	6.23T25P	T25PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

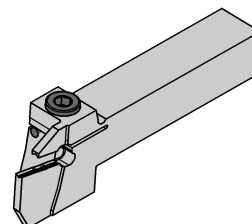
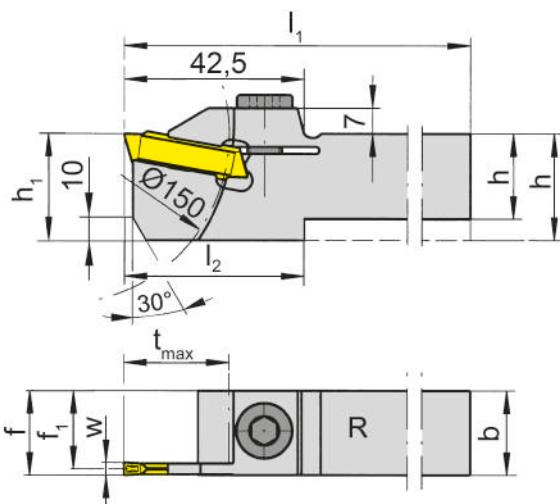
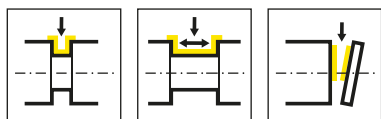
型式 Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	HWS
R226.2020.2.03.IK	20	20	110	41	50.5	32	18.55	f ₁ +w/2	25	229030
R226.2525.2.03.IK	25	25	123	39	50.5	32	23.55	f ₁ +w/2	25	229030
R226.2020.2.04.IK	20	20	110	41	50.5	32	17.7	f ₁ +w/2	25	229040
R226.2525.2.04.IK	25	25	123	39	50.5	32	22.7	f ₁ +w/2	25	229040
R226.2525.2.05.IK	25	25	123	39	50.5	32	22.2	f ₁ +w/2	25	229050 • 229051
L226.2020.2.03.IK	20	20	110	41	50.5	32	18.55	f ₁ +w/2	25	229030
L226.2525.2.03.IK	25	25	123	39	50.5	32	23.55	f ₁ +w/2	25	229030
L226.2020.2.04.IK	20	20	110	41	50.5	32	17.7	f ₁ +w/2	25	229040
L226.2525.2.04.IK	25	25	123	39	50.5	32	22.7	f ₁ +w/2	25	229040
L226.2020.2.05.IK	20	20	110	41	50.5	32	17.2	f ₁ +w/2	25	229050 • 229051
L226.2525.2.05.IK	25	25	123	39	50.5	32	22.2	f ₁ +w/2	25	229050 • 229051

w寸法はインサートページをご参照ください。
w see indexable inserts

底面給油タイプ

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
R/L226....	6.23T25P	T25PQ



R = 右勝手バージョン図示
R = right hand version shown

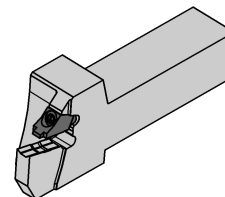
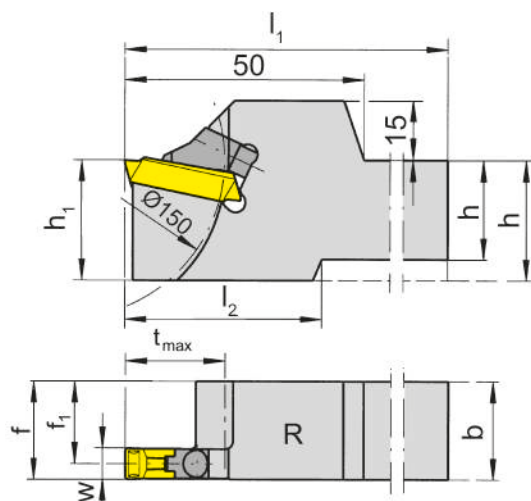
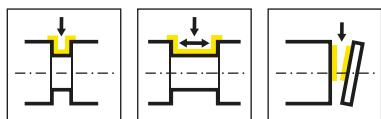
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R226.2525.07	25	25	150	42.5	32	21.2	f ₁ +w/2	25	229070 • 229071
R226.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	25	229070 • 229071
R226.2525.08	25	25	150	42.5	32	21.2	f ₁ +w/2	25	229080 • 229081
R226.3225.08	32	25	170	-	32	21.2	f ₁ +w/2	25	229080 • 229081
L226.2525.07	25	25	150	42.5	32	21.2	f ₁ +w/2	25	229070 • 229071
L226.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	25	229070 • 229071
L226.2525.08	25	25	150	42.5	32	20.2	f ₁ +w/2	25	229080 • 229081
L226.3225.08	32	25	170	-	32	21.2	f ₁ +w/2	25	229080 • 229081

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L226...	218.3



R = 右勝手バージョン図示
R = right hand version shown

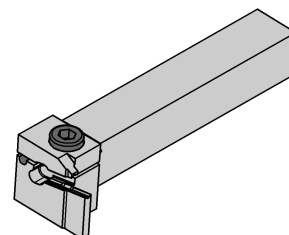
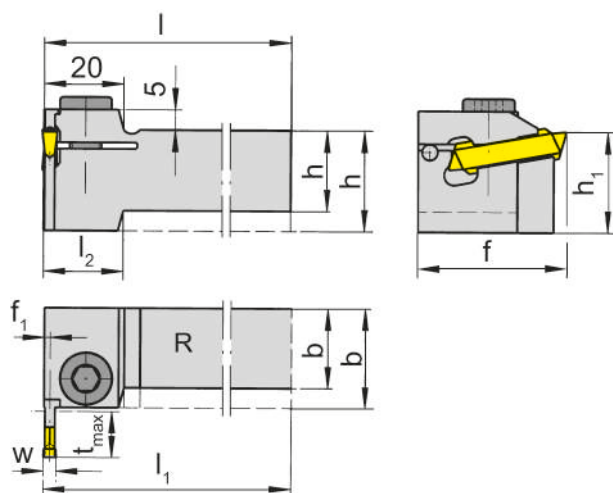
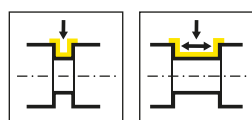
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R226.2525.09	25	25	150	50	32	20.2	$f_1 + w/2$	25	229090 • 229091
R226.3225.09	32	25	170	-	32	20.2	$f_1 + w/2$	25	229090 • 229091
L226.2525.09	25	25	150	50	32	20.2	$f_1 + w/2$	25	229090 • 229091
L226.3225.09	32	25	170	-	32	20.2	$f_1 + w/2$	25	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品
Spare Parts

ツールホルダー Toolholder	締付ねじ Clamping element	トルクスレンチ TORX PLUS® Wrench
R/L226...	020.1008.0041	T15PQ



R = 右勝手バージョン図示
R = right hand version shown

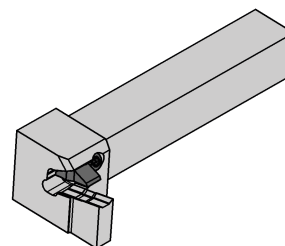
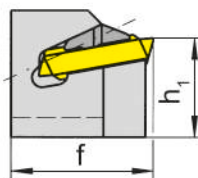
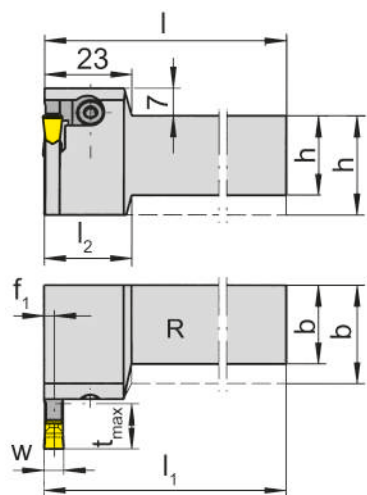
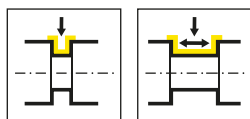
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l	l_1	l_2	h_1	f	f_1	t_{max}	HWS
R219.2020.03	20	20	150	$l-f_1+w/2$	20	25	37	1.45	11	229030
R219.2525.03	25	25	150	$l-f_1+w/2$	-	25	37	1.45	11	229030
R219.2020.04	20	20	150	$l-f_1+w/2$	20	25	37	2.3	11	229040
R219.2525.04	25	25	150	$l-f_1+w/2$	-	25	37	2.3	11	229040
R219.2020.05	20	20	150	$l-f_1+w/2$	23	25	45	2.8	15	229050 • 229051
R219.2525.05	25	25	150	$l-f_1+w/2$	-	25	45	2.8	15	229050 • 229051
R219.2020.07	20	20	150	$l-f_1+w/2$	23	25	45	3.8	15	229070 • 229071
R219.2525.07	25	25	150	$l-f_1+w/2$	-	25	45	3.8	15	229070 • 229071
L219.2020.03	20	20	150	$l-f_1+w/2$	20	25	37	1.45	11	229030
L219.2525.03	25	25	150	$l-f_1+w/2$	-	25	37	1.45	11	229030
L219.2020.04	20	20	150	$l-f_1+w/2$	20	25	37	2.3	11	229040
L219.2525.04	25	25	150	$l-f_1+w/2$	-	25	37	2.3	11	229040
L219.2020.05	20	20	150	$l-f_1+w/2$	23	25	45	2.8	15	229050 • 229051
L219.2525.05	25	25	150	$l-f_1+w/2$	-	25	45	2.8	15	229050 • 229051
L219.2020.07	20	20	150	$l-f_1+w/2$	23	25	45	3.8	15	229070 • 229071
L219.2525.07	25	25	150	$l-f_1+w/2$	-	25	45	3.8	15	229070 • 229071

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L219...	218.3



R = 右勝手バージョン図示
R = right hand version shown

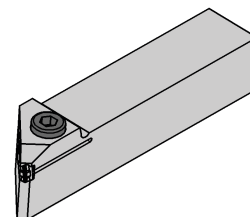
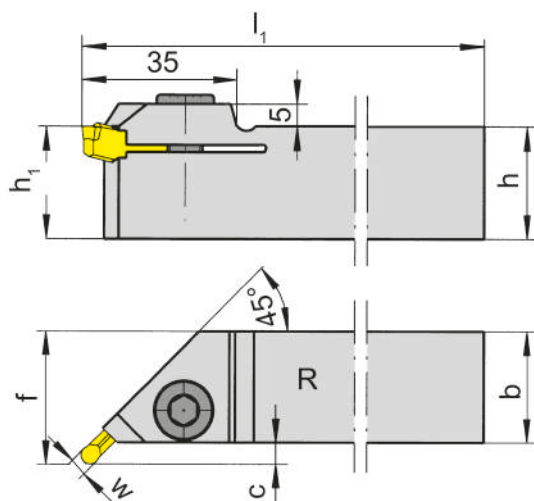
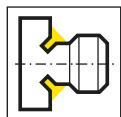
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l	l_1	l_2	h_1	f	f_1	t_{max}	HWS
R219.2020.09	20	20	150	$l-f_1+w/2$	23	25	45	4.8	15	229090 • 229091
R219.2525.09	25	25	150	$l-f_1+w/2$	-	25	45	4.8	15	229090 • 229091
L219.2020.09	20	20	150	$l-f_1+w/2$	23	25	45	4.8	15	229090 • 229091
L219.2525.09	25	25	150	$l-f_1+w/2$	-	25	45	4.8	15	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品
Spare Parts

ツールホルダー Toolholder	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
L219....	R218.9.32	T15PQ
R219....	L218.9.32	T15PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l ₁	h ₁	f	C	D _{min}	溝幅 Width of groove	HWS
R225.2525.04	25	25	150	25	30	5	50	4.0-5.0	229040
R225.2525.05	25	25	150	25	30.5	5.5	50	5.1-6.0	229050 • 229051
L225.2525.04	25	25	150	25	30	5	50	4.0-5.0	229040
L225.2525.05	25	25	150	25	30.5	5.5	50	5.1-6.0	229050 • 229051

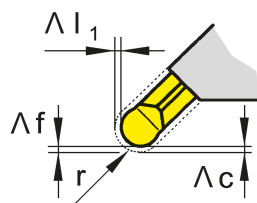
w寸法はインサートページをご参照ください。
w see indexable inserts

H

△l △c △fそれぞれの修正値はフルRインサート半径によります。

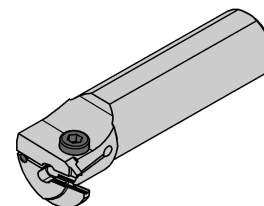
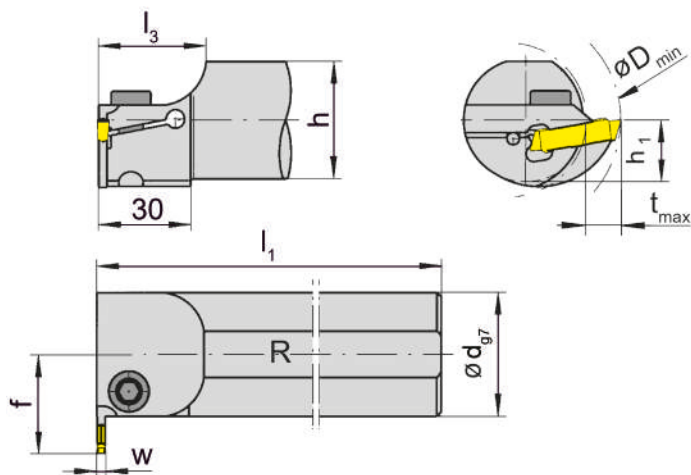
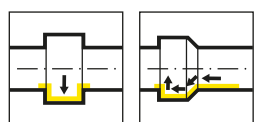
Revision factor Δl , Δc and Δf in relation to radius r

r	Δl	Δc	Δf
2.5-3	0	0	0
2	-0.147	-0.147	-0.147
1.5	-0.293	-0.293	-0.293



予備部品 Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L225...	218.3



R = 右勝手バージョン図示
R = right hand version shown

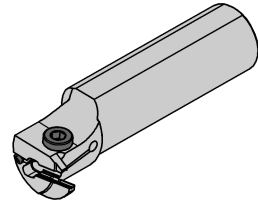
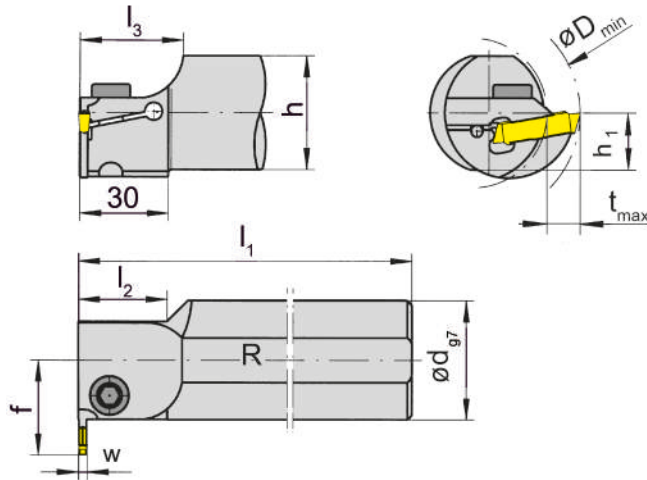
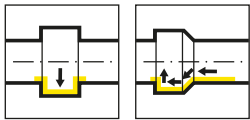
L = 左勝手バージョン
L = left hand version

型式 Part number	d	l ₁	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0032.0.03	32	150	35	30	15	28	11.5	46	229030
R213.0040.0.03	40	180	39.4	38	19	32	11.5	54	229030
R213.0032.0.04	32	150	35	30	15	28	11.5	46	229040
R213.0040.0.04	40	180	39.4	38	19	32	11.5	54	229040
R213.0032.0.05	32	150	35	30	15	28	11.5	46	229051
R213.0040.0.05	40	180	39.4	38	19	32	11.5	54	229051
L213.0032.0.03	32	150	35	30	15	28	11.5	46	229030
L213.0040.0.03	40	180	39.4	38	19	32	11.5	54	229030
L213.0032.0.04	32	150	35	30	15	28	11.5	46	229040
L213.0040.0.04	40	180	39.4	38	19	32	11.5	54	229040
L213.0032.0.05	32	150	35	30	15	28	11.5	46	229051
L213.0040.0.05	40	180	39.4	38	19	32	11.5	54	229051

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品 Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L213...	218.3



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

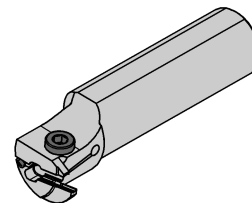
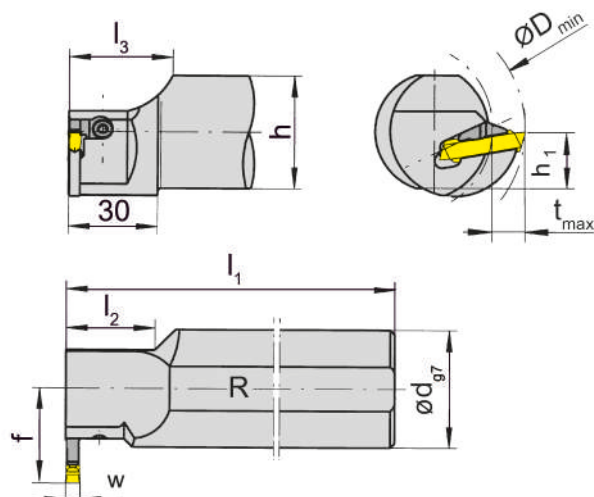
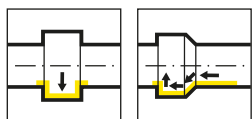
型式 Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0025.03	25	150	-	31.8	23	11.5	24.5	7.5	38	229030
R213.0032.03	32	150	30	35	30	15	28	7.5	38	229030
R213.0040.03	40	180	30	37.4	38	19	32	11.5	50	229030
R213.0050.03	50	200	30	39.1	47	23.5	40.5	15	60	229030
R213.0025.04	25	150	-	31.8	23	11.5	24.5	7.5	38	229040
R213.0032.04	32	150	30	35	30	15	28	7.5	38	229040
R213.0040.04	40	180	30	37.4	38	19	32	11.5	50	229040
R213.0050.04	50	200	30	39.1	47	23.5	40.5	15	60	229040
R213.0032.05	32	150	-	35	30	15	28	11.5	46	229051
R213.0040.05	40	180	30	35	38	19	32	11.5	50	229051
R213.0050.05	50	200	30	40	47	23.5	40.5	15	60	229051
R213.0040.07	40	180	30	35	38	19	32	11.5	50	229070 • 229071
R213.0050.07	50	200	30	40	47	23.5	40.5	15	60	229070 • 229071
L213.0025.03	25	150	-	31.8	23	11.5	24.5	7.5	38	229030
L213.0032.03	32	150	30	35	30	15	28	7.5	38	229030
L213.0040.03	40	180	30	37.4	38	19	32	11.5	50	229030
L213.0050.03	50	200	30	39.1	47	23.5	40.5	15	60	229030
L213.0025.04	25	150	-	31.8	23	11.5	24.5	7.5	38	229040
L213.0032.04	32	150	-	35	30	15	28	7.5	38	229040
L213.0040.04	40	180	30	37.4	38	19	32	11.5	50	229040
L213.0050.04	50	200	30	39.1	47	23.5	40.5	15	60	229040
L213.0032.05	32	150	-	35	30	15	28	11.5	46	229051
L213.0040.05	40	180	30	35	38	19	32	11.5	50	229051
L213.0050.05	50	200	30	40	47	23.5	40.5	15	60	229051
L213.0040.07	40	180	30	35	38	19	32	11.5	50	229070 • 229071
L213.0050.07	50	200	30	40	47	23.5	40.5	15	60	229070 • 229071

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品
Spare Parts

最大溝深さ t_{max}=11.5mmは内径D_{min}46mm以上で加工可能になります。
The full depth of cut t_{max} = 11,5 mm will be reached from D_{min} 46 mm

ツールホルダー Toolholder	ねじ Clamping Screw
R/L213...	218.3



R = 右勝手バージョン図示
R = right hand version shown

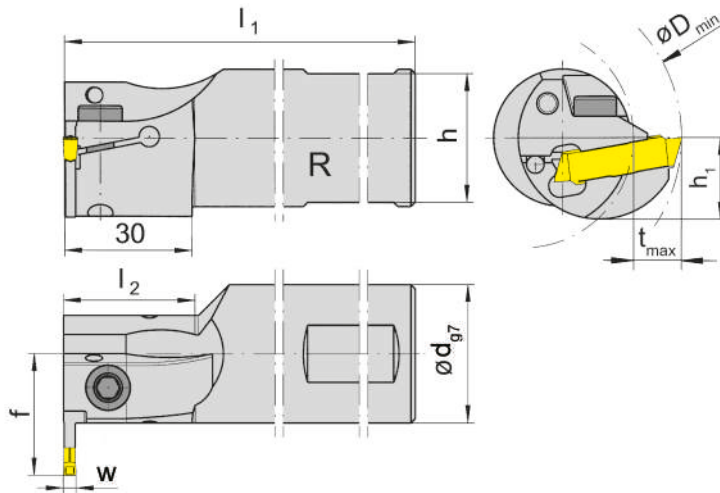
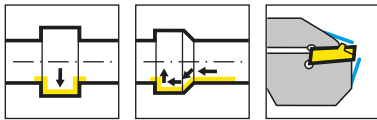
L = 左勝手バージョン
L = left hand version

型式 Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0040.09	40	180	30	35	38	19	32	11.5	50	229090 • 229091
R213.0050.09	50	200	30	40	47	23.5	40.5	15	60	229090 • 229091
L213.0040.09	40	180	30	35	38	19	32	11.5	50	229090 • 229091
L213.0050.09	50	200	30	40	47	23.5	40.5	15	60	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品
Spare Parts

ツールホルダー Toolholder	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
L213.0...	R218.9	T15PQ
R213.0...	L218.9	T15PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	d	l ₁	l ₂	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0025.03IK	25	150	-	23	11.5	24.5	7.5	38	229030
R213.0025.04IK	25	150	-	23	11.5	24.5	7.5	38	229040
R213.0032.03IK	32	150	30	30	15	28	7.5	38	229030
R213.0032.04IK	32	150	30	30	15	28	7.5	38	229040
R213.0040.03IK	40	180	30	38	19	32	11.5	50	229030
R213.0040.04IK	40	180	30	38	19	32	11.5	50	229040
L213.0025.03IK	25	150	-	23	11.5	24.5	7.5	38	229030
L213.0025.04IK	25	150	-	23	11.5	24.5	7.5	38	229040
L213.0032.03IK	32	150	30	30	15	28	7.5	38	229030
L213.0032.04IK	32	150	30	30	15	28	7.5	38	229040
L213.0040.03IK	40	180	30	38	19	32	11.5	50	229030
L213.0040.04IK	40	180	30	38	19	32	11.5	50	229040

w寸法はインサートページをご参照ください。

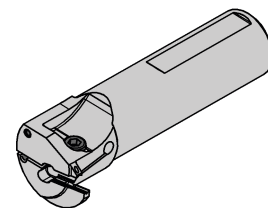
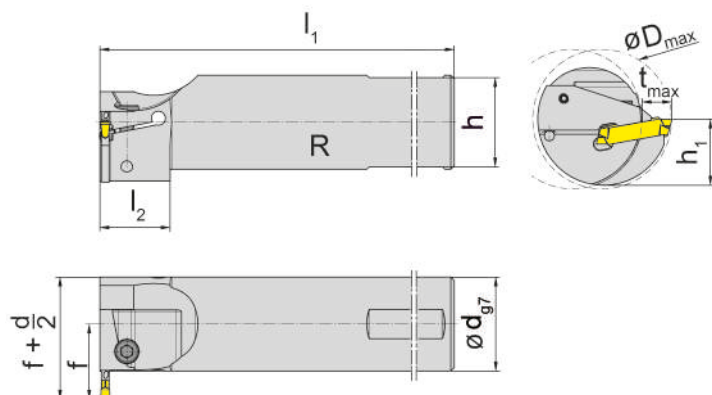
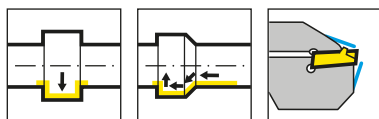
w see indexable inserts

シャンク径Φ25/30mmのツールホルダーについて

最大溝深さt_{max}=11.5mmは内径D_{min}46mm以上で加工可能になります。

Note toolholder with shank-Ø 25 or 32 mm

The full depth of cut t_{max} = 11,5 mm will be reached from D_{min} 46 mm

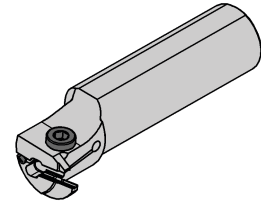
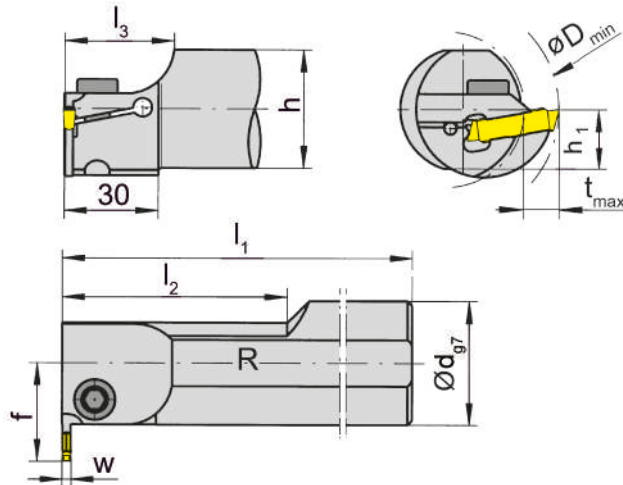
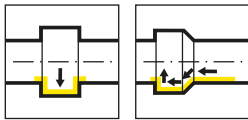


R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	d	l ₁	l ₂	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0032.0.03IK	32	150	30	30	15	28	11.5	46	229030
R213.0032.0.04IK	32	150	30	30	15	28	11.5	46	229040
R213.0040.0.04IK	40	180	30	38	19	32	11.5	54	229040
R213.0040.0.05IK	40	180	30	38	19	32	11.5	54	229051
L213.0032.0.03IK	32	150	30	30	15	28	11.5	46	229030
L213.0032.0.04IK	32	150	30	30	15	28	11.5	46	229040
L213.0040.0.04IK	40	180	30	38	19	32	11.5	54	229040
L213.0040.0.05IK	40	180	30	38	19	32	11.5	54	229051

w寸法はインサートページをご参照ください。
w see indexable inserts



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R214.0032.03	32	200	70	35	30	15	28	7.5	38	229030
R214.0040.03	40	250	80	35	38	19	32	11.5	50	229030
R214.0050.03	50	250	100	40	47	23.5	40.5	15	60	229030
R214.0032.04	32	200	70	35	30	15	28	7.5	38	229040
R214.0040.04	40	250	80	35	38	19	32	11.5	50	229040
R214.0050.04	50	250	100	40	47	23.5	40.5	15	60	229040
R214.0032.05	32	200	-	35	30	15	28	11.5	46	229050 • 229051
R214.0040.05	40	250	80	35	38	19	32	11.5	50	229050 • 229051
R214.0050.05	50	250	100	40	47	23.5	40.5	15	60	229050 • 229051
R214.0040.07	40	250	80	35	38	19	32	11.5	50	229070 • 229071
R214.0050.07	50	250	100	40	47	23.5	40.5	15	60	229070 • 229071
L214.0032.03	32	200	70	35	30	15	28	7.5	38	229030
L214.0040.03	40	250	80	35	38	19	32	11.5	50	229030
L214.0050.03	50	250	100	40	47	23.5	40.5	15	60	229030
L214.0032.04	32	200	70	35	30	15	28	7.5	38	229040
L214.0040.04	40	250	80	35	38	19	32	11.5	50	229040
L214.0050.04	50	250	100	40	47	23.5	40.5	15	60	229040
L214.0032.05	32	200	-	35	30	15	28	11.5	46	229050 • 229051
L214.0040.05	40	250	80	35	38	19	32	11.5	50	229050 • 229051
L214.0050.05	50	250	100	40	47	23.5	40.5	15	60	229050 • 229051
L214.0040.07	40	250	80	35	38	19	32	11.5	50	229070 • 229071
L214.0050.07	50	250	100	40	47	23.5	40.5	15	60	229070 • 229071

w寸法はインサートページをご参照ください。
w see indexable inserts

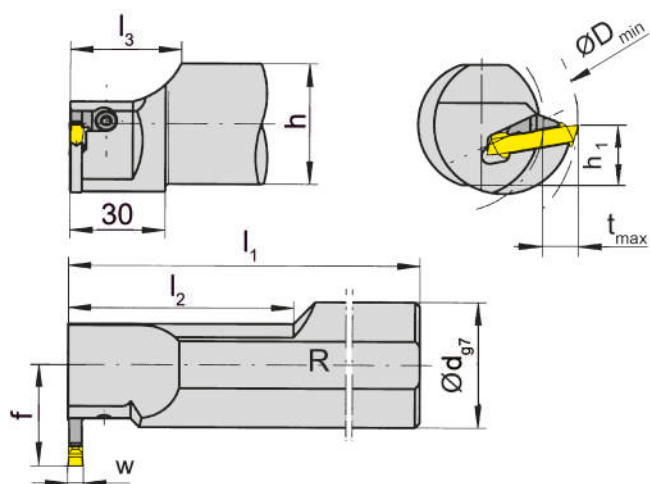
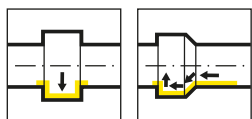
シャンク径φ25/32mmのツールホルダーについて
最大溝深さt_{max}=11.5mmは内径D_{min}46mm以上で加工可能になります。

Note toolholder with shank-Ø25 or 32 mm
The full depth of cut t_{max} = 11,5 mm will be reached from D_{min} 46 mm

予備部品

Spare Parts

ツールホルダー Toolholder	ねじ Clamping Screw
R/L214...	218.3



R = 右勝手バージョン図示
R = right hand version shown

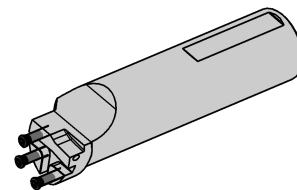
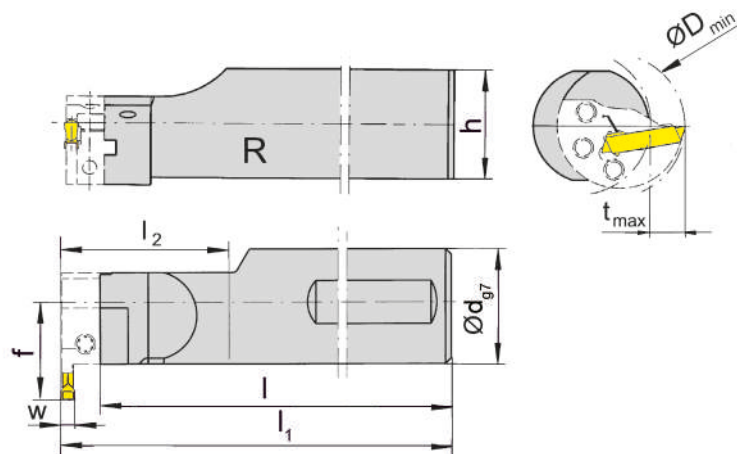
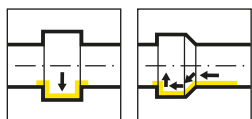
L = 左勝手バージョン
L = left hand version

型式 Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R214.0040.09	40	250	80	35	38	19	32	11.5	50	229090 • 229091
R214.0050.09	50	250	100	40	47	23.5	40.5	15	60	229090 • 229091
L214.0040.09	40	250	80	35	38	19	32	11.5	50	229090 • 229091
L214.0050.09	50	250	100	40	47	23.5	40.5	15	60	229090 • 229091

w寸法はインサートページをご参照ください。
w see indexable inserts

予備部品
Spare Parts

ツールホルダー Toolholder	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
L214.0...	R218.9	T15PQ
R214.0...	L218.9	T15PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	d	l	l ₂	h	f	HWS
RB229.0040.1.K2	40	172.5	30	38	35.5	BK2291
RB229.0040.2.K2	40	185.5	60	38	35.5	BK2291
LB229.0040.1.K2	40	172.5	30	38	35.5	BK2292
LB229.0040.2.K2	40	185.5	60	38	35.5	BK2292

w寸法はインサートページをご参照ください。
w see indexable inserts

Dmin、tmax、b1寸法はカセットページをご参照ください。
Dimensions for Dmin, tmax and b1 see cassettes

注釈:

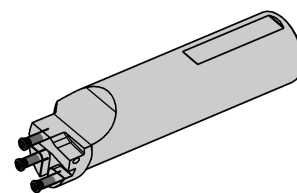
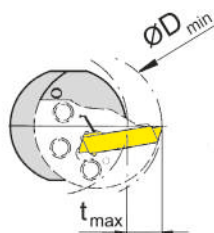
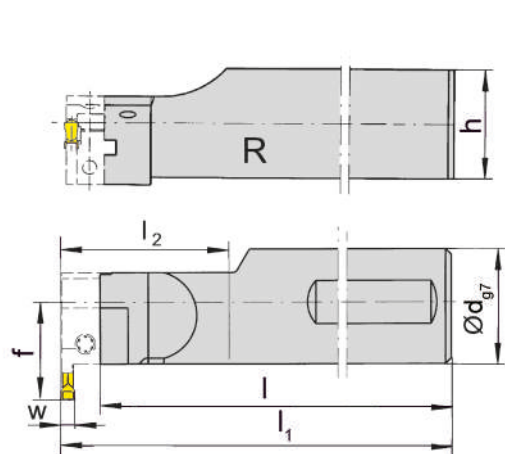
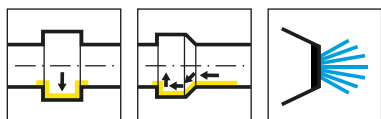
BK229カセット用、クーラント供給無し。

Note:

For cassettes BK229 without coolant supply

予備部品 Spare Parts

ベーシックツールホルダー Basic toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
R/LB229...	030.0518.T20P	T20PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	d	l	l ₂	h	f	HWS
RB229.0040.1.K2.IK	40	172.5	30	38	35.5	BK2291
RB229.0040.2.K2.IK	40	185.5	60	38	35.5	BK2291
LB229.0040.1.K2.IK	40	172.5	30	38	35.5	BK2292
LB229.0040.2.K2.IK	40	185.5	60	38	35.5	BK2292

w寸法はインサートページをご参照ください。
w see indexable inserts

注釈:

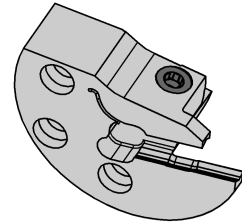
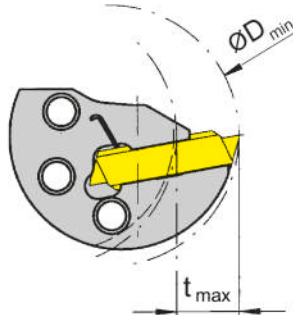
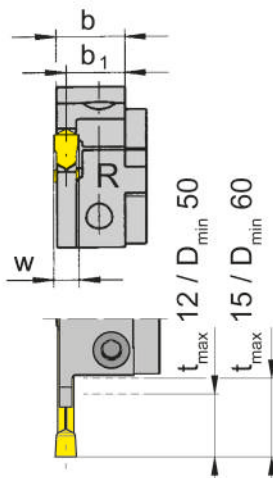
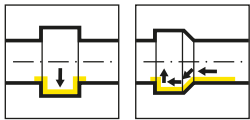
BK229カセット用、クーラント供給あり。

Note:

For cassettes BK229 with coolant supply

予備部品 Spare Parts

ベーシックツールホルダー Basic toolholder	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
R/LB229...	030.0518.T20P	T20PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	b	b ₁	クランプ範囲 Clamping range	HWS	HMS
RBK229.0050.03	14.25	13	3.00-4.00	229030	BK2291
RBK229.0050.04	14.2	12.5	4.00-5.09	229040	BK2291
RBK229.0050.05	13.85	11.5	5.10-6.00	229050 • 229051	BK2291
LBK229.0050.03	14.25	13	3.00-4.00	229030	BK2292
LBK229.0050.04	14.2	12.5	4.00-5.09	229040	BK2292
LBK229.0050.05	13.85	11.5	5.10-6.00	229050 • 229051	BK2292

w寸法はインサートページをご参照ください。
w see indexable inserts

注釈:

BK229ベーシックツールホルダー用、クーラント供給無し。

Note:

For basic toolholder B229 without coolant supply

カセットの締付ボルトはベーシックツールホルダーに付属しています。別途手配は不要です。

The fastening screw is combined with the basic toolholder - no separate order required.

内径と最大溝入れ深さの相関

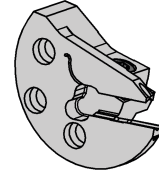
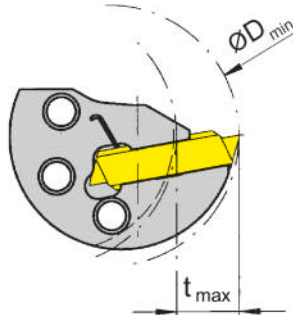
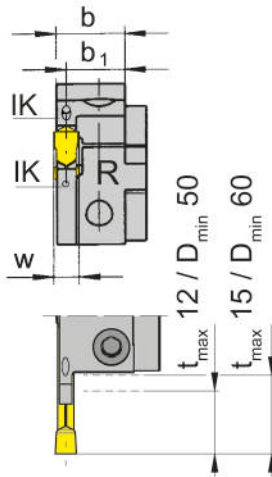
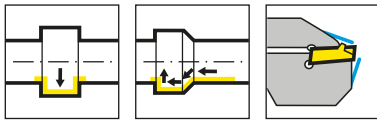
Depth of groove in relation to bore ø

Dmin	tmax
50	12
60	15

予備部品

Spare Parts

カセット Cassette	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
R/LBK229...	5.13T20EP	T20PQ



R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	b	b ₁	クランプ範囲 Clamping range	HWS	HMS
RBK229.0050.03.IK	14.2	13	3.00-4.00	229030	BK2291
RBK229.0050.04.IK	14.15	12.5	4.00-5.09	229040	BK2291
RBK229.0050.05.IK	13.8	11.5	5.10-6.00	229050 • 229051	BK2292
LBK229.0050.03.IK	14.2	13	3.00-4.00	229030	BK2292
LBK229.0050.04.IK	14.15	12.5	4.00-5.09	229040	BK2292
LBK229.0050.05.IK	13.8	11.5	5.10-6.00	229050 • 229051	BK2292

w寸法はインサートページをご参照ください。
w see indexable inserts

注釈:

B229ベーシックツールホルダー用、クーラント供給あり。

Note:

For basic toolholder B229 with coolant supply

カセットの締付ボルトはベーシックツールホルダーに付属しています。別途手配は不要です。

The fastening screw is combined with the basic toolholder - no separate order required.

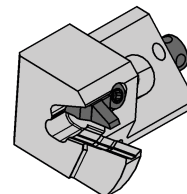
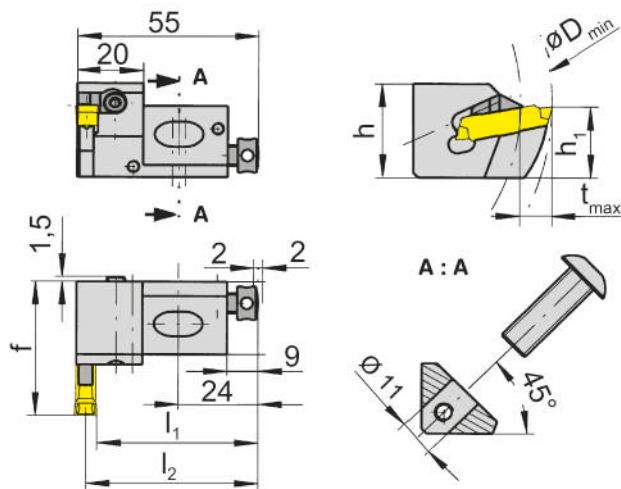
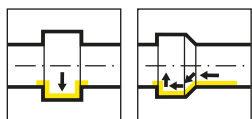
内径と最大溝入れ深さの相関

Depth of groove in relation to bore ø

Dmin	tmax
50	12
60	15

予備部品 Spare Parts

カセット Cassette	ねじ Clamping Screw	トルクスレンチ TORX PLUS® Wrench
R/LBK229...	5.13T20EP	T20PQ

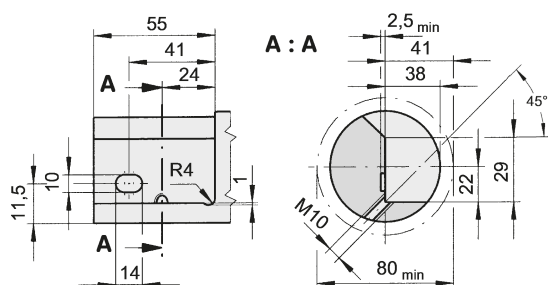


R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

型式 Part number	h	h ₁	f	l ₂	l ₁
R257.2222.05	29	22	42	52.2	l ₂ -w/2
R257.2222.07	29	22	42	51.2	l ₂ -w/2
R257.2222.09	29	22	42	50.2	l ₂ -w/2
L257.2222.05	29	22	42	52.2	l ₂ -w/2
L257.2222.07	29	22	42	51.2	l ₂ -w/2
L257.2222.09	29	22	42	50.2	l ₂ -w/2

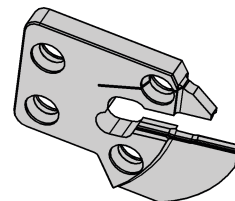
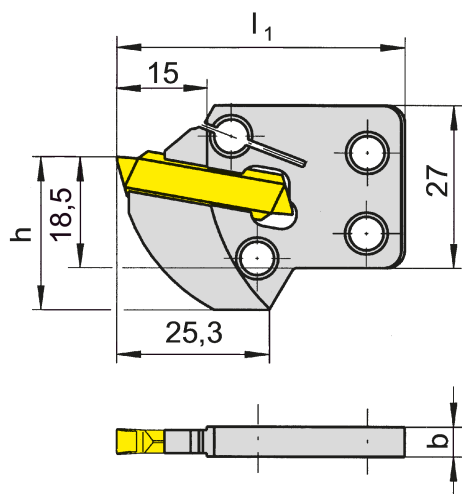
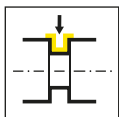
w寸法はインサートページをご参照ください。
w see indexable inserts



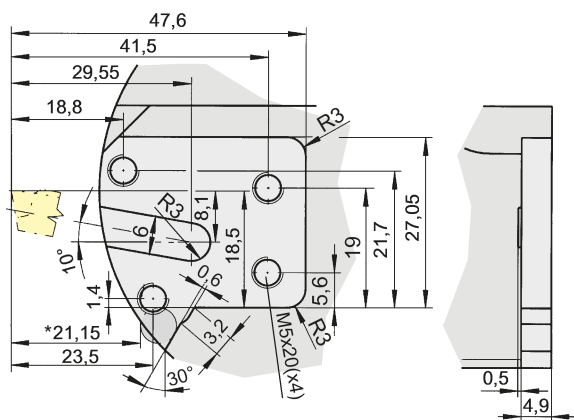
予備部品

Spare Parts

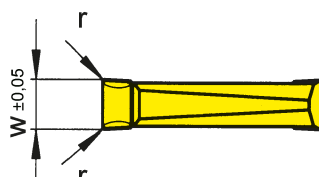
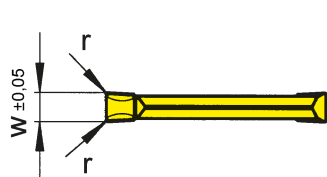
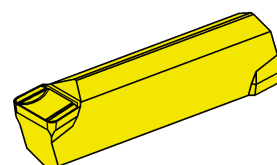
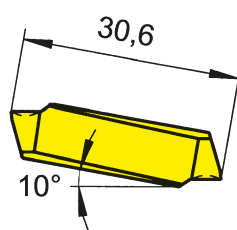
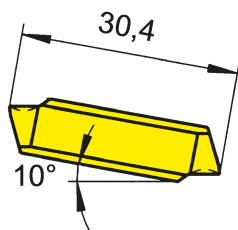
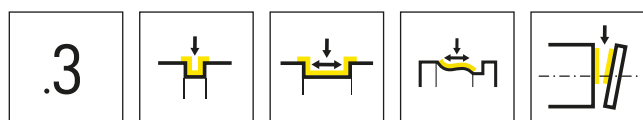
カートリッジ Cartridge	ねじ Clamping Screw	締付部品 Clamping element	トルクスレンチ TORX PLUS® Wrench
R/L257.2222.05	218.3		
R/L257.2222.07	4.08.913	R218.5.7.32	T15PQ
R/L257.2222.09	4.08.913	R218.9.32	T15PQ



型式 Part number	D_{min}	D_{min2}	t_{max}	t_{max}	b	l_1	h	クランプ範囲 Clamping range	クランプ範囲 Clamping range	HWS	HMS
050.1827.0009	62	80	10-14	14	4.9	47	18.5	4.00-5.09	5.09	229040	500000
050.1827.0071	62	80	10-14	14	4.9	47	18.5	3.00-4.00	4	229030	500000



*最低φ6.0mm以上の測定ピン
over ø 6 mm measuring pin



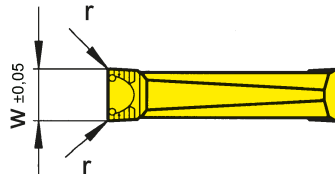
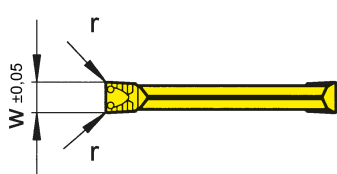
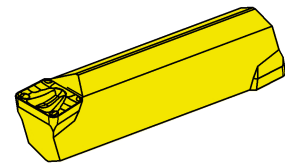
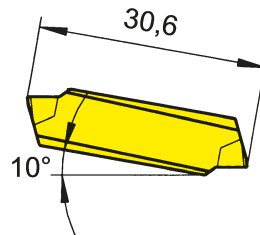
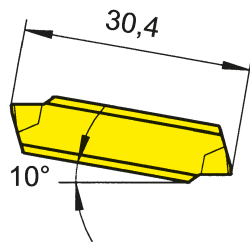
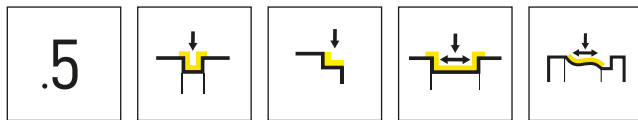
インサート幅: 3 - 5 mm
Width 3 - 5 mm

インサート幅: 6 - 10 mm
Width 6 - 10 mm

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	MG12	P20	AL96	AS62	AS66	H54	IG66	TA45	TC92	TF42	TF45	TI22	TI25	TN32	TN35
S229.0300.32	3	0.2	229020 • 229030	▲	△	▲	▲	▲	▲	▲	△	▲		▲	▲	▲	▲	▲
S229.0300.34	3	0.4	229020 • 229030	△	△	▲	▲	▲	▲	▲		▲		▲	△	▲	▲	▲
S229.0400.32	4	0.2	229030 • 229040	△	△	▲	▲	▲	▲	▲	△	▲		▲		▲	▲	▲
S229.0400.34	4	0.4	229030 • 229040	△	△	▲	▲	▲	▲	▲		▲	▲	▲	△	▲	▲	▲
S229.0500.34	5	0.4	229040	△	△	▲	▲	▲	△	▲	△	▲		▲	▲	▲	▲	▲
S229.0500.36	5	0.6	229040		△				△	▲		△			△	△	△	△
S229.0600.34	6	0.4	229051	△	△	▲	▲	▲	△	▲	△	△		▲	△	▲	▲	▲
S229.0600.38	6	0.8	229051			▲	▲	▲		▲		▲			△			
S229.0700.36	7	0.6	229071	△	△	△	▲			▲		△				▲	△	▲
S229.0800.36	8	0.6	229071 • 229081	△	△		▲			▲		▲			▲	▲	▲	▲
S229.0800.38	8	0.8	229071 • 229081							▲		△					△	
S229.0800.3K	8	1.2	229071 • 229081							▲		△			△			
S229.1000.36	10	0.6	229091		△		▲			▲		△				▲	▲	▲
P	O	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M	-	-	-	-	O	●	●	●	●	●	-	-	●	-	●	-	●	●
K	-	-	●	-	●	-	●	-	-	-	-	-	-	●	-	●	-	●
N	-	-	●	-	●	-	●	-	-	-	●	-	-	●	-	●	-	●
S	-	-	-	-	O	-	O	●	-	-	●	-	-	●	-	●	-	●
H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



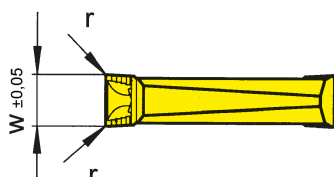
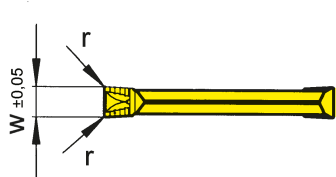
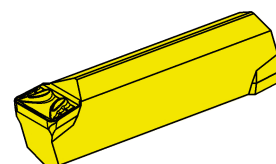
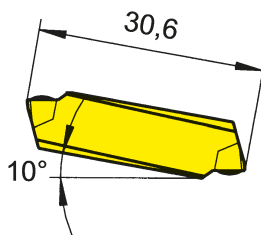
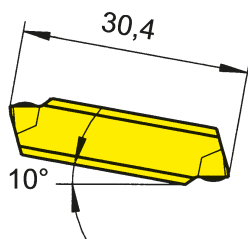
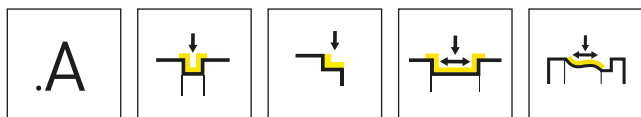
インサート幅: 3 - 5 mm
Width 3 - 5 mm

インサート幅: 6 - 10 mm
Width 6 - 10 mm

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	P20	AL96	AS62	AS65	IG66	TC92	TF42	TF45	TI22	TI25	TN32	TN35
S229.0300.52	3	0.2	229020 • 229030	Δ		▲		▲	Δ		▲	▲	▲	▲	▲
S229.0300.54	3	0.4	229020 • 229030		Δ	▲		▲	Δ		▲	▲	▲	▲	▲
S229.0400.52	4	0.2	229030 • 229040	Δ	Δ	▲		▲	Δ		▲	▲	▲	▲	▲
S229.0400.54	4	0.4	229030 • 229040		Δ	▲		▲			▲	▲	▲	▲	▲
S229.0500.54	5	0.4	229040	Δ	Δ	▲		▲	▲		▲	▲	▲	▲	▲
S229.0500.56	5	0.6	229040					▲	Δ				Δ	Δ	Δ
S229.0600.54	6	0.4	229051	Δ	Δ	▲		▲	▲		▲		▲	▲	▲
S229.0600.56	6	0.6	229051		Δ			▲	Δ				Δ	Δ	Δ
S229.0600.58	6	0.8	229051			▲	Δ	▲							
S229.0700.56	7	0.6	229071	Δ		▲			Δ			▲		Δ	
S229.0800.56	8	0.6	229071 • 229081	Δ		▲		Δ	Δ			▲		▲	
S229.0800.58	8	0.8	229071 • 229081	Δ	Δ				Δ	Δ		Δ		Δ	
S229.0800.5K	8	1.2	229071 • 229081		Δ				Δ			Δ			
S229.1000.56	10	0.6	229091	Δ	Δ				Δ			▲		▲	
P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M	-	-	-	O	●	-	-	●	-	●	-	●	-	●	●
K	-	●	-	O	-	-	-	-	-	-	●	-	●	-	●
N	-	●	-	-	-	-	-	-	-	-	●	-	●	-	●
S	-	-	-	-	O	-	-	-	-	-	●	-	●	-	●
H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



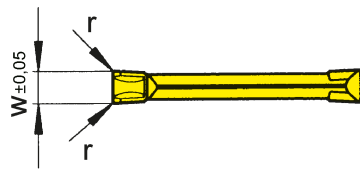
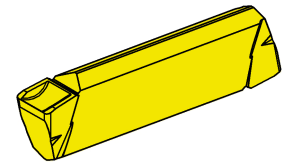
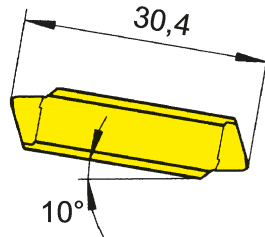
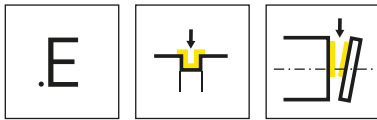
インサート幅: 3 - 5 mm
Width 3 - 5 mm

インサート幅: 6 - 10 mm
Width 6 - 10 mm

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	P20	AL96	AS62	IG66	TC92	TF42	TF45	TI22	TI25	TN32	TN35
S229.0300.A2	3	0.2	229020 • 229030	△	△	▲		△		▲	▲	▲	▲	▲
S229.0300.A4	3	0.4	229020 • 229030		△	▲				▲	△	▲	▲	▲
S229.0400.A2	4	0.2	229030 • 229040	△	△	▲		△		▲	△	▲	▲	▲
S229.0400.A4	4	0.4	229030 • 229040		△	▲		△	▲	△	▲	▲	▲	▲
S229.0500.A4	5	0.4	229040			▲	▲	△		△	▲	△	▲	▲
S229.0500.A6	5	0.6	229040		△	▲	▲	△				▲		
S229.0600.A4	6	0.4	229051	△		▲			△	▲	▲	△	▲	▲
S229.0600.A8	6	0.8	229051			▲			△					
S229.0700.A6	7	0.6	229071					△	▲				△	
S229.0800.A6	8	0.6	229071 • 229081				△		△		▲		▲	
S229.0800.A8	8	0.8	229071 • 229081				△		△		△			
S229.0800.AK	8	1.2	229071 • 229081								△			
S229.1000.A6	10	0.6	229091	△			△				△		△	
S229.1000.A8	10	0.8	229091								△			
P	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M	-	-	-	●	-	-	-	-	●	-	-	●	-	●
K	-	●	-	-	-	-	-	-	●	-	-	●	-	●
N	-	●	-	-	-	-	-	-	●	-	-	●	-	●
S	-	-	-	○	-	-	-	-	●	-	-	●	-	●
H	-	-	-	-	-	-	-	-	-	-	-	-	-	-

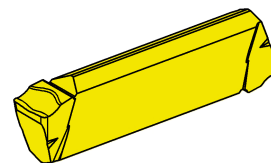
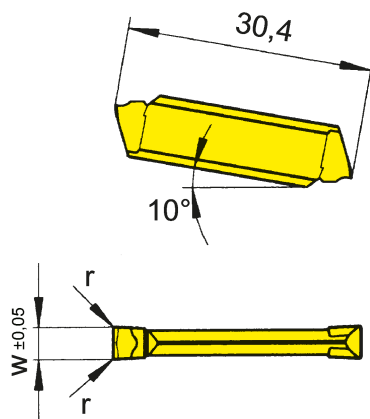
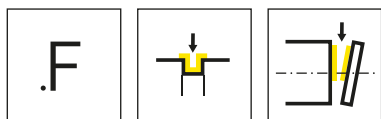


超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS		AS62	TC92	TF45	TF46	TI25
S229.0300.E2	3	0.2	229020 • 229030	▲	▲	▲	▲	▲	▲
S229.0300.E4	3	0.4	229020 • 229030	▲	△	▲	▲	▲	▲
S229.0400.E2	4	0.2	229030 • 229040	▲	▲	△	▲	△	▲
S229.0400.E4	4	0.4	229030 • 229040	▲	▲	△	▲	▲	▲
P	●	●	●	●	●	●	●	●	●
M	-	-	●	○	●	●	●	●	●
K	-	-	●	●	●	●	●	●	●
N	-	-	●	●	●	●	●	●	●
S	-	-	●	○	●	●	●	●	●
H	-	-	-	-	-	-	-	-	-

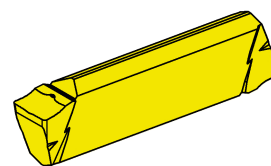
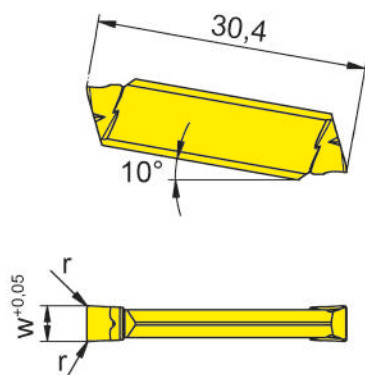
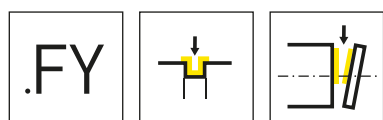


超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS		TC92	TF43	TF45	TF46	TI22	TI25
S229.0300.F2	3	0.2	229020 • 229030		△	▲	▲	▲	▲	△
S229.0300.F4	3	0.4	229020 • 229030		△		▲	△		△
S229.0400.F2	4	0.2	229030 • 229040		△	△	▲	△		△
S229.0400.F4	4	0.4	229030 • 229040		△		▲	△		△
				P	●	●	●	●	●	●
				M	-	-	●	O	-	●
				K	-	-	●	●	-	●
				N	-	-	●	●	-	●
				S	-	-	●	O	-	●
				H	-	-	-	-	-	-



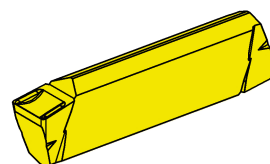
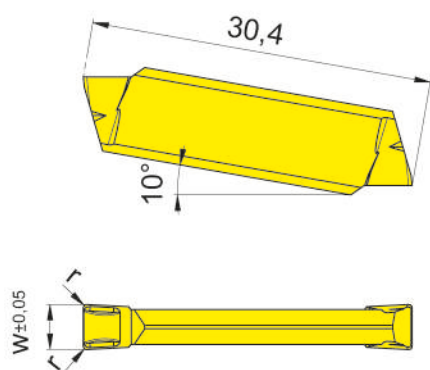
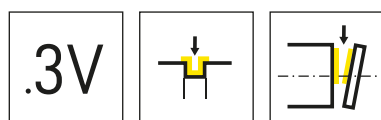
超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS		HP65	IG35	PH35	TI25
S229.0300.FY2	3	0.2	229020 • 229030		▲	▲	△	▲
S229.0400.FY3	4	0.3	229030 • 229040		▲	▲	△	▲
				P	●	-	○	●
				M	●	●	○	●
				K	●	-	●	●
				N	○	-	-	●
				S	●	●	-	●
				H	-	-	-	-

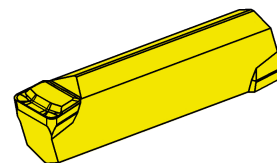
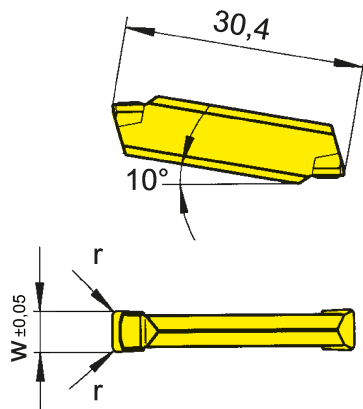
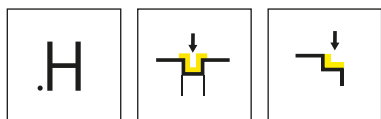
H



▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	AS45	HP65	IG35
S229.0300.3V2	3	0.2	229020 • 229030	▲	▲	▲
S229.0400.3V3	4	0.3	229030 • 229040	▲	▲	▲
				P	●	●
				M	●	●
				K	●	●
				N	○	○
				S	●	●
				H	-	-



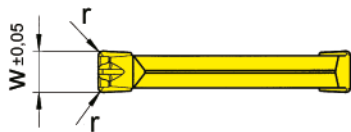
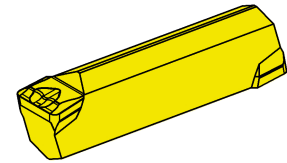
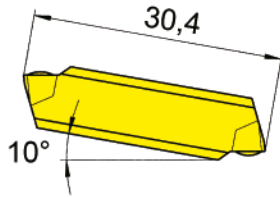
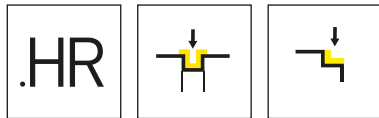
超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS	AL96	TF42	TF46
S229.0300.H4	3	0.4	229020 • 229030	▲	△	
S229.0300.H6	3	0.6	229020 • 229030	▲	▲	
S229.0400.H4	4	0.4	229030 • 229040	△	▲	
S229.0400.H6	4	0.6	229030 • 229040	△	△	
S229.0400.H8	4	0.8	229030 • 229040	▲	▲	△
S229.0500.H4	5	0.4	229040	△	△	
S229.0500.H6	5	0.6	229040	△	△	
S229.0500.H8	5	0.8	229040	△	△	
S229.0600.H4	6	0.4	229051	△	▲	
S229.0600.H6	6	0.6	229051	△	△	
S229.0600.H8	6	0.8	229051	△	△	
S229.0600.HK	6	1.2	229051	△	△	
P	●	●	●			
M	-	-	o			
K	●	-	●			
N	●	-	●			
S	-	-	o			
H	-	-	-			

H

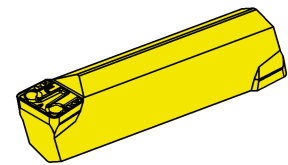
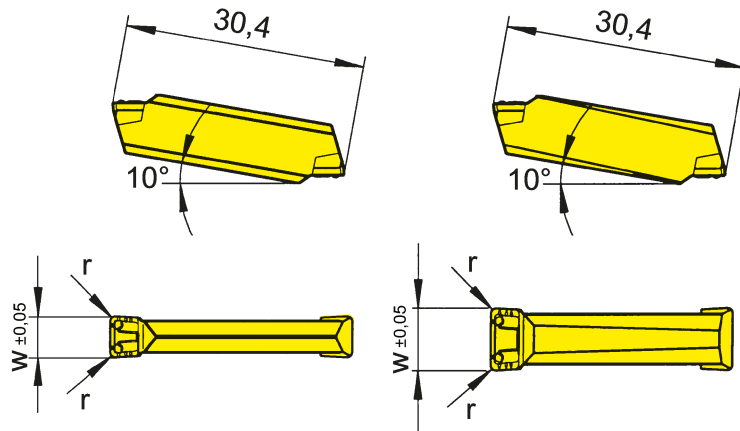
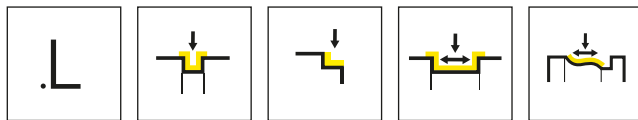


超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS	AS62	AS66	IG66
S229.0300.HR4	3	0.4	229020 • 229030	▲	△	▲
S229.0400.HR4	4	0.4	229030 • 229040	▲	▲	▲
S229.0500.HR4	5	0.4	229040	▲	▲	▲
S229.0500.HR6	5	0.6	229040	▲	▲	▲
S229.0500.HR8	5	0.8	229040	▲	△	▲
S229.0600.HR4	6	0.4	229050	▲	▲	▲
S229.0600.HR6	6	0.6	229050	▲	▲	▲
S229.0600.HR8	6	0.8	229050	▲	△	▲
S229.0800.HR8.PG	8	0.8	229071 • 229081	▲		▲
				P	●	●
				M	-	○
				K	-	●
				N	-	●
				S	-	○
				H	-	-

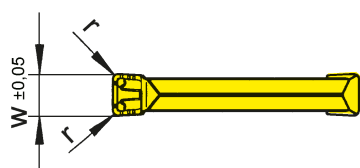
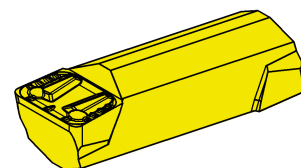
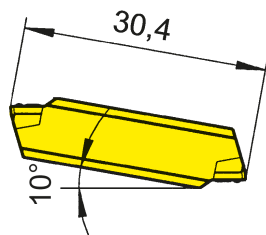
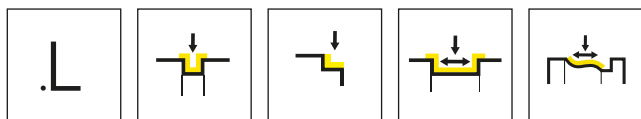


インサート幅: 4 - 5 mm
Width 4 - 5 mm

インサート幅: 6 - 8 mm
Width 6 - 8 mm

超硬材種
Carbide grades
▲ 在庫品
on stock
△ 4週間
4 weeks

型式 Part number	w	r	HIS	AL96	AS62	AS65	AS66	IG65	IG66	TF42	T122
S229.0300.L2	3	0.2	229020 • 229030			▲		▲			
S229.0300.L4	3	0.4	229020 • 229030			▲		▲			
S229.0300.L6	3	0.6	229020 • 229030			▲		▲			
S229.0300.L8	3	0.8	229020 • 229030			▲		▲			
S229.0400.L4	4	0.4	229030 • 229040	▲	▲		▲		▲	▲	▲
S229.0400.L6	4	0.6	229030 • 229040				▲		▲		
S229.0500.L4	5	0.4	229040	▲	▲		▲		▲	▲	▲
S229.0500.L6	5	0.6	229040	▲	▲		▲		▲	▲	▲
S229.0600.L4	6	0.4	229050	△	▲		▲		▲	▲	▲
S229.0500.L8	5	0.8	229040		▲		▲		▲	▲	▲
S229.0600.L6	6	0.6	229050	△	▲		▲		▲	▲	▲
S229.0800.L6	8	0.6	229071	▲	▲		▲		▲	▲	▲
P	●	●	●	●	●	●	●	●	●	●	●
M	-	-	O	O	●	●	-	-	-	-	-
K	●	-	O	●	-	-	-	-	-	-	-
N	●	-	-	●	-	-	-	-	-	-	-
S	-	-	-	O	O	O	-	-	-	-	-
H	-	-	-	-	-	-	-	-	-	-	-

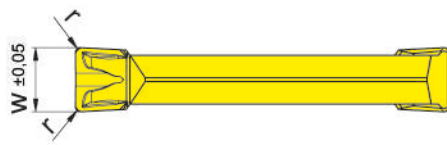
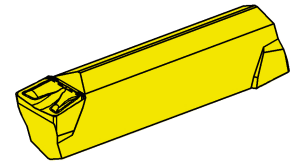
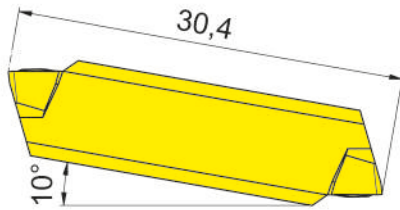
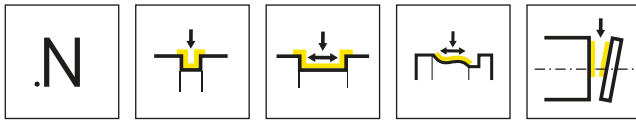


超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS	AS62	IG66
S229.0600.L4.PG	6	0.4	229050	▲	▲
S229.0800.L8.PG	8	0.8	229071 • 229081	▲	▲
				P	●
				M	-
				K	-
				N	-
				S	-
				H	-

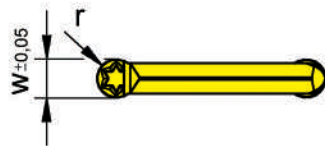
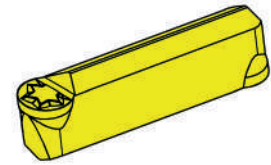
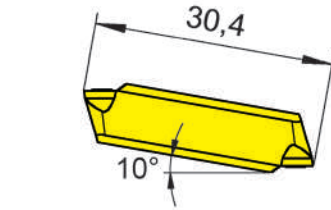
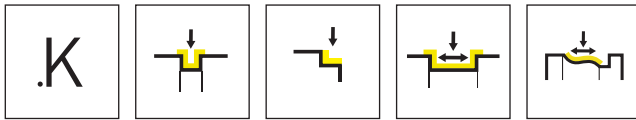


超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS		AS45	AS62	DD25	IG66	T125
S229.0300.N2.G	3	0.2	229020 • 229030		▲			▲	
S229.0300.N4.G	3	0.4	229020 • 229030		▲			▲	
S229.0400.N2.G	4	0.2	229030 • 229040		▲			▲	
S229.0400.N4.G	4	0.4	229030 • 229040		▲			▲	
S229.0500.N2.G	5	0.2	229040					▲	▲
S229.0500.N4.G	5	0.4	229040		▲	▲		▲	△
S229.0500.N6.G	5	0.6	229040		△	▲		▲	△
S229.0500.N8.G	5	0.8	229040			▲		▲	
S229.0600.N4.G	6	0.4	229050		▲			▲	△
S229.0600.N6.G	6	0.6	229050		▲			▲	△
				P	●	●	-	●	●
				M	●	-	-	●	●
				K	●	-	-	-	●
				N	○	-	●	-	●
				S	●	-	○	○	●
				H	-	-	-	-	-



超硬材種
Carbide grades

▲ 在庫品
on stock

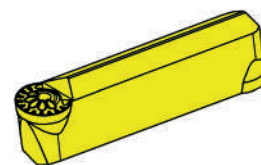
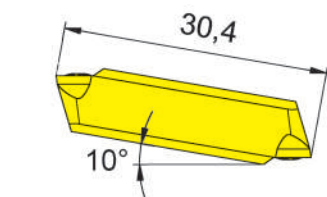
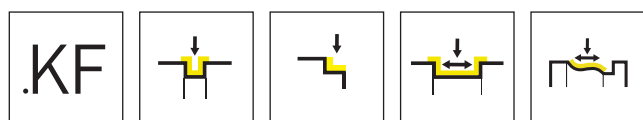
△ 4週間
4 weeks

型式 Part number	w	r	HIS	AS62	AS66	IG66
S229.0015.K3	3	1.5	229020 • 229030	▲	▲	▲
S229.0020.K4	4	2	229030 • 229040	▲	▲	▲
S229.0025.K5	5	2.5	229040	▲	▲	▲
S229.0030.K6	6	3	229050	▲	▲	▲
S229.0040.K8	8	4	229070 • 229080	▲	▲	▲
				P	●	●
				M	-	○
				K	-	●
				N	-	●
				S	-	○
				H	-	-

ΦDmin45°角度付きホルダー使用時のワーク径ごとの最大切込み量です。
ツールホルダーページをご参照ください。

D_{min} for corner reliefs with toolholder 45°

t _{max}	S229.0015.K3	S229.0020.K4	S229.0025.K5	S229.0030.K6
0,5	Ø 26	Ø 26	Ø 32	Ø 32
1,0	Ø 76	Ø 55	Ø 42	Ø 37
1,5	Ø 78	Ø 58	Ø 45	Ø 41
2,0	Ø 80	Ø 59	Ø 46	Ø 42
2,5	Ø 82	Ø 60	Ø 47	Ø 43
3,0	Ø 84	Ø 62	Ø 48	Ø 44
3,5	Ø 87	Ø 63	Ø 49	Ø 46
4,0	Ø 89	Ø 65	Ø 50	Ø 47



超硬材種
Carbide grades

▲ 在庫品
on stock

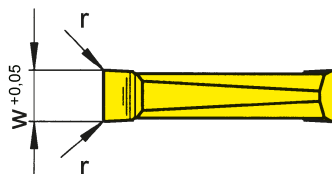
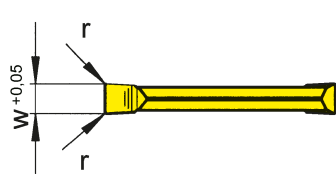
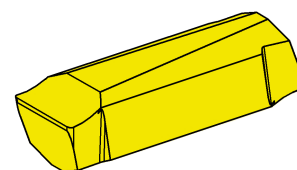
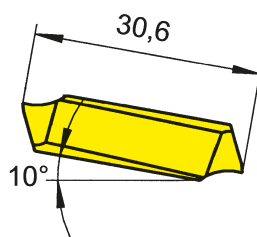
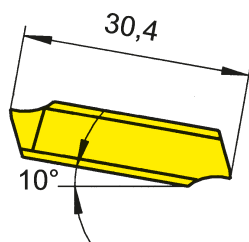
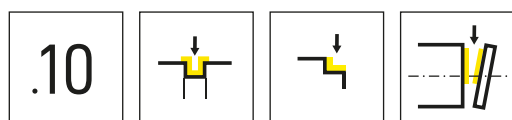
△ 4週間
4 weeks

型式 Part number	w	r	HIS	AS66	IG66
S229.0015.KF3	3	1.5	229020 • 229030	▲	▲
S229.0020.KF4	4	2	229030 • 229040	▲	▲
S229.0025.KF5	5	2.5	229040	▲	▲
S229.0030.KF6	6	3	229050	▲	▲
S229.0040.KF8	8	4	229070 • 229080	▲	▲
				P	●
				M	○
				K	●
				N	●
				S	○
				H	-

ΦDmin45°角度付きホルダー使用時のワーク径ごとの最大切込み量です。
ツールホルダーページをご参照ください。

D_{min} for corner reliefs with toolholder 45°

t _{max}	S229.0015.KF3	S229.0020.KF4	S229.0025.KF5	S229.0030.KF6
0,5	Ø 26	Ø 26	Ø 32	Ø 32
1,0	Ø 76	Ø 55	Ø 42	Ø 37
1,5	Ø 78	Ø 58	Ø 45	Ø 41
2,0	Ø 80	Ø 59	Ø 46	Ø 42
2,5	Ø 82	Ø 60	Ø 47	Ø 43
3,0	Ø 84	Ø 62	Ø 48	Ø 44
3,5	Ø 87	Ø 63	Ø 49	Ø 46
4,0	Ø 89	Ø 65	Ø 50	Ø 47



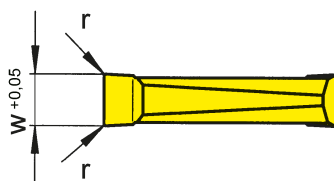
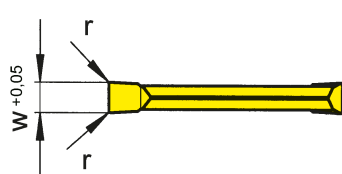
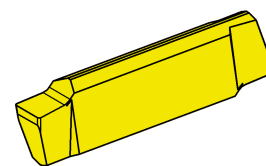
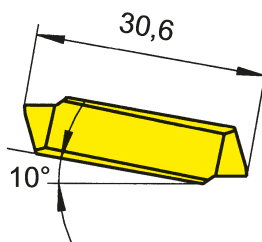
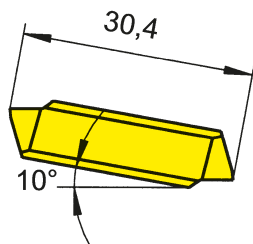
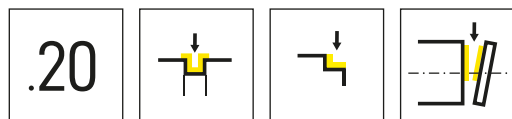
インサート幅: 2.5 - 5.0 mm
Width of groove 2,5 - 5,0 mm

インサート幅: 5.1 - 10.4 mm
Width 5,1 - 10,4 mm

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	K10	MG12	P20	AS62	IG66	TC92	TN32	TN35	H20
229.0250.10	2.5	0.2	229020					▲		▲	▲	
229.0300.10	3	0.2	229020 • 229030	▲	▲	▲	▲	▲	▲	▲	▲	▲
229.0400.10	4	0.2	229030 • 229040	▲		▲	▲	▲	△	▲	△	
229.0500.10	5	0.2	229040	▲		▲	△	△	▲	▲	△	
229.0600.10	6	0.4	229051	△		△		△	△	△	△	
229.0700.10	7	0.4	229071	△		△		△	△	△	△	
229.0800.10	8	0.4	229071 • 229081	△		△		△	△	△	△	
229.0900.10	9	0.4	229091	△		△		△	△	△	△	
229.1000.10	10	0.4	229091	△		△		△	△	△	△	
P	●	○	●	●	●	●	●	●	●	●	●	●
M	○	-	-	-	●	-	-	●	-	●	○	○
K	●	-	-	-	-	-	-	-	-	-	●	-
N	●	-	-	-	-	-	-	-	-	-	●	-
S	○	-	-	-	○	-	-	-	-	-	●	-
H	-	-	-	-	-	-	-	-	-	-	-	-



インサート幅: 3 - 5 mm
Width 3 - 5 mm

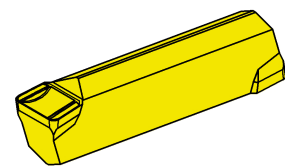
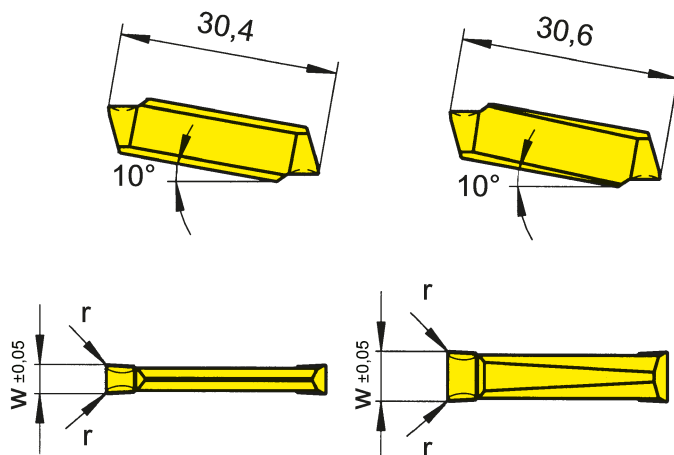
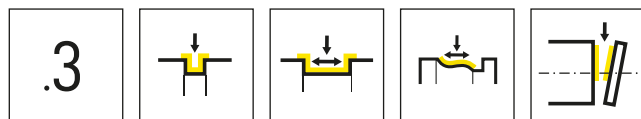
インサート幅: 5.1 - 10.4 mm
Width 5,1 - 10,4 mm

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	K10	AS62	IG66	TC92	TN32	H20
229.0300.20	3	0.2	229020 • 229030	▲	▲	△	▲		▲
229.0400.20	4	0.2	229030 • 229040	▲	▲	△	△	▲	
229.0500.20	5	0.2	229040	▲	▲	△	▲		
229.0600.20	6	0.4	229051	▲	▲	△	△		
229.0700.20	7	0.4	229071	▲		△			
229.0800.20	8	0.4	229071 • 229081	▲		△			
229.0900.20	9	0.4	229091	△		△			
229.1000.20	10	0.4	229091	△		△			
P	●	●	●	●	●	●	●	●	●
M	○	-	●	-	-	-	-	-	○
K	●	-	-	-	-	-	-	-	-
N	●	-	-	-	-	-	-	-	-
S	○	-	○	-	-	-	-	-	-
H	-	-	-	-	-	-	-	-	-

H



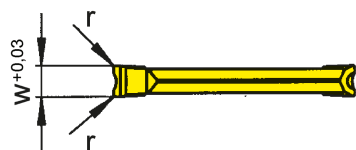
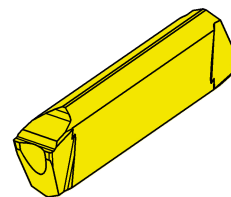
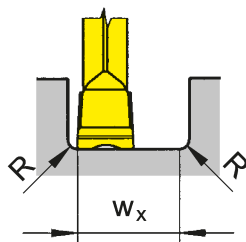
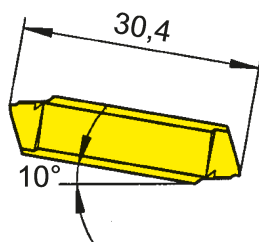
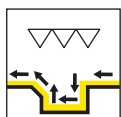
インサート幅: 3 - 5 mm
Width 3 - 5 mm

インサート幅: 5.1 - 10.4 mm
Width 5,1 - 10,4 mm

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	K10	MG12	P20	AS62	IG66	TC92	TI22	TI25	TN32	TN35
229.0300.31	3	0.2	229020 • 229030	▲	▲	▲	▲	▲	▲		▲	▲	▲
229.0300.34	3	0.4	229020 • 229030			△	▲	▲	△			▲	▲
229.0350.31	3.5	0.2	229030				▲	▲				▲	
229.0400.31	4	0.2	229030 • 229040	▲		▲	▲	▲	▲			▲	
229.0400.34	4	0.4	229030 • 229040			▲	▲	▲	△			▲	▲
229.0500.31	5	0.2	229040	▲		▲	▲	▲	△	▲		▲	
229.0500.34	5	0.4	229040			△	△	△	△			▲	▲
229.0500.36	5	0.6	229040					△	△			△	
229.0600.31	6	0.4	229051			▲	△	△	▲			▲	
229.0600.38	6	0.8	229051				△	△	△			△	
229.0700.31	7	0.4	229071			△	△	△	△			▲	
229.0800.31	8	0.4	229071 • 229081			▲	▲	△				▲	
229.0900.31	9	0.4	229091			△	▲	△	▲			▲	
229.1000.31	10	0.4	229091			△	△	△				▲	▲
P	●	○	●	●	●	●	●	●	●	●	●	●	●
M	○	-	-	-	-	●	-	-	-	●	-	-	●
K	●	-	-	-	-	-	-	-	-	●	-	-	●
N	●	-	-	-	-	-	-	-	-	-	●	-	●
S	○	-	-	-	-	○	-	-	-	-	●	-	●
H	-	-	-	-	-	-	-	-	-	-	-	-	-



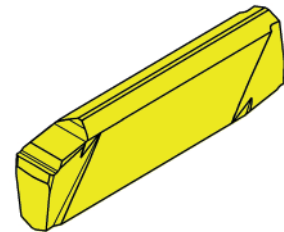
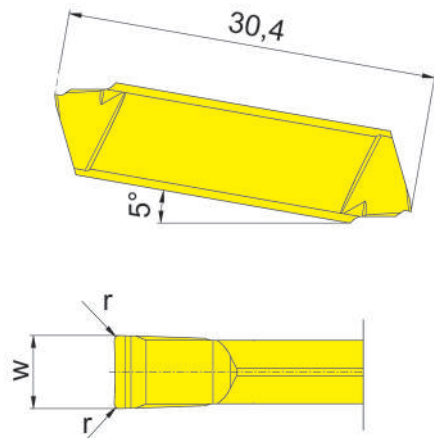
超硬材種
Carbide grades
▲ 在庫品
on stock
△ 4週間
4 weeks

型式 Part number	w	r	w _x	HIS	H2O
229.NC30.02	3	0.2	4.5	229030 • 229040	▲
229.NC40.02	4	0.2	6.4	229030 • 229040	▲
					P ●
					M o
					K -
					N -
					S -
					H -

Wx(最小仕上げ溝幅)=インサート幅X2-インサート左右コーナーR

wx = width of groove - R(right) - R(left)

H



超硬材種
Carbide grades
▲ 在庫品
on stock
△ 4週間
4 weeks

型式 Part number	w	r	HIS		IG6T	H20
229.FB30.02	3	0.2	229030		△	▲
229.FB40.02	4	0.2	229040		△	▲
				P	●	●
				M	●	○
				K	-	-
				N	-	-
				S	○	-
				H	-	-

溝の最小幅 w_x の計算

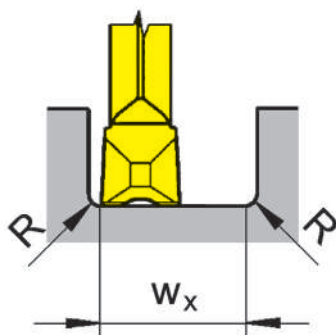
Calculation of the smallest possible width of groove w_x

S229.FB30.02での w_x (仕上げ溝幅)計算例
Example S229.FB30.02

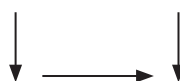
w_x (最小仕上げ溝幅)=インサート幅 $\times 2$ -インサート左右コーナー R
 $w_x = 2 \times \text{Width of insert } w - 2 \times \text{Corner radius insert } r$

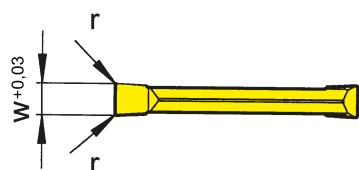
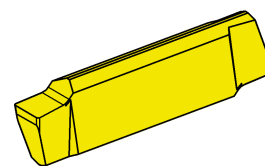
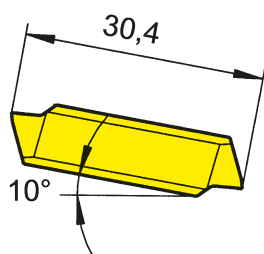
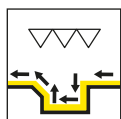
$w_x = 2 \times 3 \text{ mm} - 2 \times 0.2 \text{ mm}$

$w_x = 5.6 \text{ mm}$



加工フロー
Processing flow

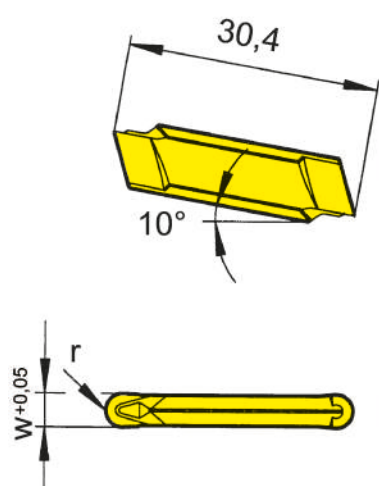
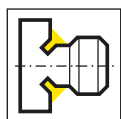




超硬材種
Carbide grades
▲ 在庫品
on stock
△ 4週間
4 weeks

型式 Part number	w	r	HIS		TN32	H20
229.0300.02	3	0.2	229020 • 229030			▲
229.0400.02	4	0.2	229030 • 229040		△	▲
				P	●	●
				M	-	o
				K	-	-
				N	-	-
				S	-	-
				H	-	-

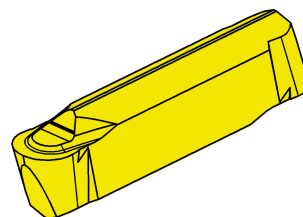
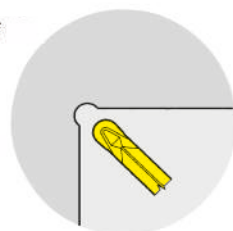
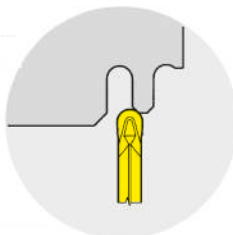
H



倣い加工
profiling

or

ぬすみ加工
corner relief

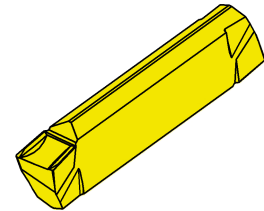
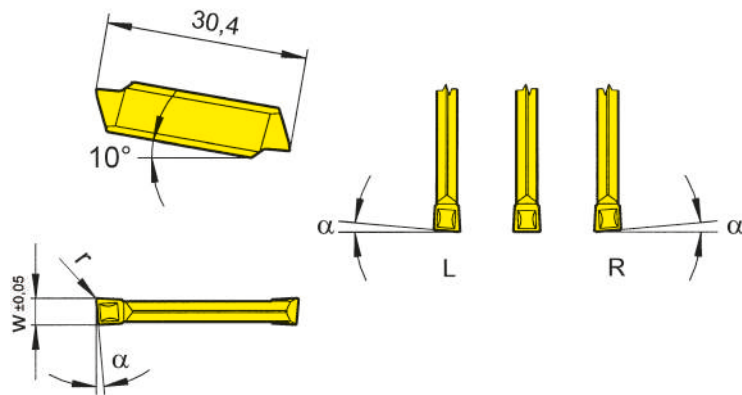
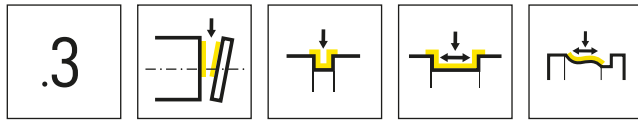


超硬材種
Carbide grades

▲ 在庫品
on stock

△ 4週間
4 weeks

型式 Part number	w	r	HIS		MG12	P20	AS62	AS66	TN32	H20
229.0015.30	3	1.5	229020 • 229030		▲	▲	▲		▲	▲
229.0020.40	4	2	229030 • 229040		▲	▲	▲		▲	
229.0025.50	5	2.5	229040		▲	▲		▲	▲	
229.0030.60	6	3	229050			▲	▲		▲	
				P	o	•	•	•	•	•
				M	-	-	-	o	-	o
				K	-	-	-	•	-	-
				N	-	-	-	•	-	-
				S	-	-	-	o	-	-
				H	-	-	-	-	-	-



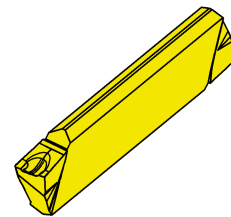
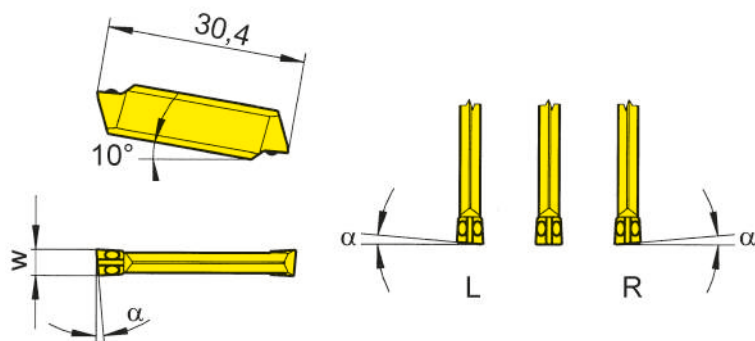
R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	α	HIS	MG12	P20	AL96	AS62	AS66	H54	IG66	TA45	TC92	TF45	TI22	TI25	TN32	TN35
R229.5300.31	3	0.2	5°	229020 • 229030	▲			▲					▲			▲	▲	▲
RS229.0530.32	3	0.2	5°	229020 • 229030				▲				△	▲	▲		▲	▲	▲
RS229.0540.32	4	0.2	5°	229030 • 229040				▲				△	△	▲		▲	▲	△
L229.5300.31	3	0.2	5°	229020 • 229030	▲			▲					▲			▲	▲	▲
LS229.0530.32	3	0.2	5°	229020 • 229030				▲				△	△	▲		▲	▲	▲
LS229.0540.32	4	0.2	5°	229030 • 229040								△	△	▲		▲	▲	△
S229.0300.32	3	0.2	-	229020 • 229030	▲	△	▲	▲	▲	▲	▲	△	▲	▲	▲	▲	▲	▲
S229.0400.32	4	0.2	-	229030 • 229040	△	△	▲	▲	▲	▲	▲	△	▲	▲		▲	▲	▲
精密研磨品R/L229.5300.31 インサート長さは30.0 mmになります。 R/L229.5300.31 precision ground, length 30,0 mm					P	O	●	●	●	●	●	●	●	●	●	●	●	●
					M	-	-	-	O	●	●	●	-	●	-	●	-	●
					K	-	-	●	-	●	-	●	-	●	-	●	-	●
					N	-	-	●	-	●	-	●	-	●	-	●	-	●
					S	-	-	-	O	-	O	●	-	●	-	●	-	●
					H	-	-	-	-	-	-	-	-	-	-	-	-	-



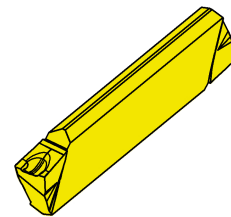
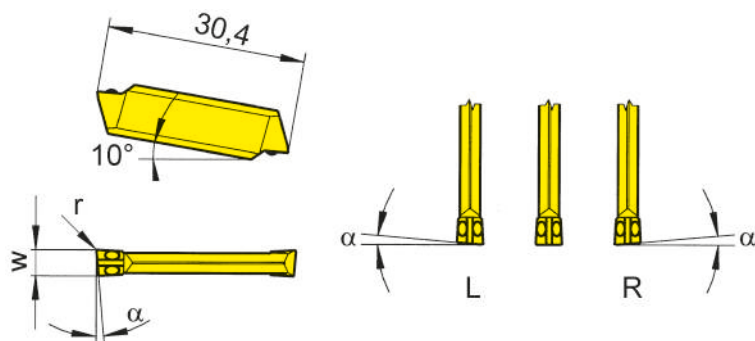
R = 右勝手バージョン図示
R = right hand version shown

L = 左勝手バージョン
L = left hand version

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	α	HIS	TC92	TF45	TI25	TN35
RS229.0530.C0	3	5°	229020 • 229030	△	▲	▲	▲
RS229.0540.C0	4	5°	229030 • 229040	△	△	△	▲
RS229.0830.C0	3	8°	229020 • 229030	▲	▲	▲	▲
RS229.0840.C0	4	8°	229030 • 229040		△	△	▲
LS229.0530.C0	3	5°	229020 • 229030	△	▲	▲	▲
LS229.0540.C0	4	5°	229030 • 229040	△	△	△	
LS229.0830.C0	3	8°	229020 • 229030	▲	▲	▲	▲
LS229.0840.C0	4	8°	229030 • 229040	△	△	△	△
S229.0030.C0	3	0°	229020 • 229030	△	▲	▲	▲
S229.0040.C0	4	0°	229030 • 229040	△	△	△	▲
P	●	●	●	●			
M	-	●	●	●			
K	-	●	●	●			
N	-	●	●	●			
S	-	●	●	●			
H	-	-	-	-			



R = 右勝手バージョン図示
R = right hand version shown

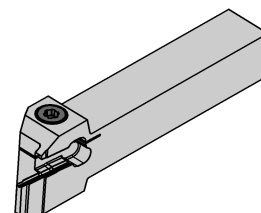
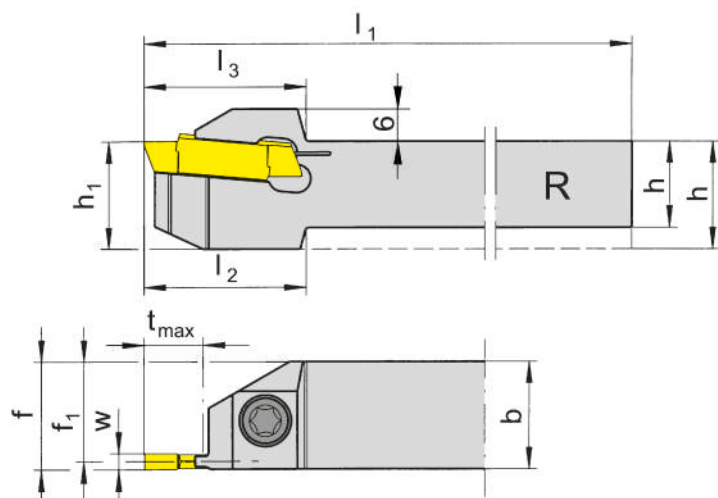
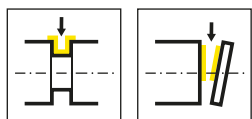
L = 左勝手バージョン
L = left hand version

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	α	HIS	TC92	TF45	TI25	TN35
RS229.0530.C1	3	0.15	5°	229020 • 229030	△	△	▲	▲
RS229.0830.C1	3	0.15	8°	229020 • 229030	△	▲	▲	▲
RS229.0540.C1	4	0.15	5°	229030 • 229040	△	△	△	△
RS229.0840.C1	4	0.15	8°	229030 • 229040		△	△	▲
LS229.0530.C1	3	0.15	5°	229020 • 229030	△	△	▲	▲
LS229.0830.C1	3	0.15	8°	229020 • 229030	△	▲	△	▲
LS229.0540.C1	4	0.15	5°	229030 • 229040	△	△		△
LS229.0840.C1	4	0.15	8°	229030 • 229040	△	△	△	△
S229.0030.C1	3	0.15	0°	229020 • 229030	△	△	▲	▲
					P	●	●	●
					M	-	●	●
					K	-	●	●
					N	-	●	●
					S	-	●	●
					H	-	-	-

H



R = 右勝手バージョン図示
R = right hand version shown

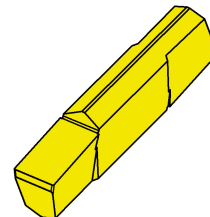
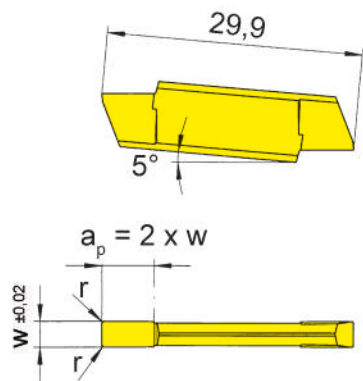
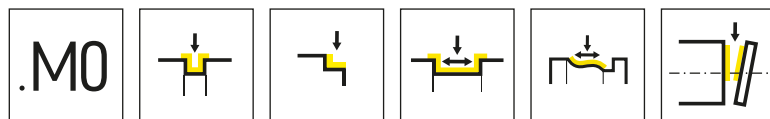
L = 左勝手バージョン
L = left hand version

型式 Part number	h	b	l_1	l_2	l_3	h_1	f	f_1	t_{max}	HWS
RH259.1616.03	16	16	135	30	30	20	$f_1 + w/2$	14.55	11	229030
RH259.2020.03	20	20	135	-	30	20	$f_1 + w/2$	18.55	11	229030
RH259.2525.03	25	25	135	-	30	25	$f_1 + w/2$	23.55	11	229030
RH259.1616.13	16	16	135	33	33	20	$f_1 + w/2$	14.55	18	229030
RH259.2020.13	20	20	135	-	33	20	$f_1 + w/2$	18.55	18	229030
RH259.2525.13	25	25	135	-	33	25	$f_1 + w/2$	23.55	18	229030
LH259.1616.03	16	16	135	30	30	20	$f_1 + w/2$	14.55	11	229030
LH259.2020.03	20	20	135	-	30	20	$f_1 + w/2$	18.55	11	229030
LH259.2525.03	25	25	135	-	30	25	$f_1 + w/2$	23.55	11	229030
LH259.1616.13	16	16	135	33	33	20	$f_1 + w/2$	14.55	18	229030
LH259.2020.13	20	20	135	-	33	20	$f_1 + w/2$	18.55	18	229030
LH259.2525.13	25	25	135	-	33	25	$f_1 + w/2$	23.55	18	229030

w寸法はインサートページをご参照ください。
w see indexable inserts

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
R/LH259...	6.23T25P	T25PQ



最大切り込み深さ a_p はインサート幅 (w) の二倍まで
Usable length of minor cutting edge a_p

左記は真鍮加工時の値です (DIN Ms58材)
2 x w for machining brass (Ms58)

▲ 在庫品
on stock

超硬材種
Carbide grades
△ 4週間
4 weeks

型式 Part number	w	r	HIS	MG12
259.0300.M1	3	0.15	229030	▲
259.0300.M2	3	0.2	229030	▲
259.0400.M1	4	0.15	229030	▲
259.0400.M2	4	0.2	229030	▲
				P o
				M -
				K -
				N -
				S -
				H -

H

H

