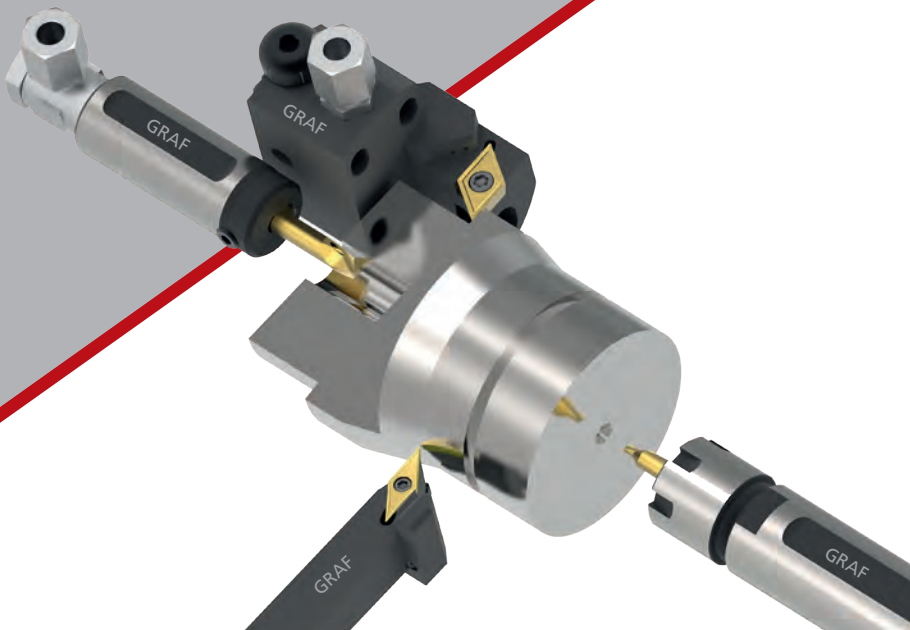
GRAF®
WERKZEUGSYSTEME

自動旋盤用　背面工具台ホルダー

HIGH-PERFORMANCE　TOOLS FOR TURNING TECHNOLOGY



GRAF 2023/2024

Reduzierte Standzeiten

Kühlmittelzufuhr

Wendeplattenhalter

Langdrehautomaten

Hochleistungswerkzeuge

Schneidplatten

Höhenverstellbare Rückseitenwerkzeuge

Kühlmittelanschluss

Rundschaftwerkzeuge

Drehhalter

Fräsdorne

Spannmutter

Reduzierhülsen

Schnellwechselsystem

Reduced service life

Insert holder

Cooling supply

Swiss type machines

High Performance Tools

Inserts

Height-adjustable back working tools

Coolant Routing

Round Shank Tools

Turning holder

Milling Arbors

Reducing sleeves

Clamping nut

Quick change system

当PDFはチャプター３のみのデータになります。
その他チャプターについては英語PDFになります。

GRAF®
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チャプター 1 / Chapter 1
タレット用ホルダー / Turret Plate holder 1.1 – 1.85



1

チャプター 2 / Chapter 2
超硬インサート / Hard Metal Inserts
2.1 – 2.22



2

チャプター 3 / Chapter 3
芯高調整機構付き背面工具台用ホルダー / Height Adjustable Back Working Tools
3.1 – 3.151



3

チャプター 4 / Chapter 4
丸シャンクホルダー / Round Shank Tools
4.1 – 4.99



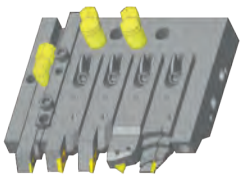
4

チャプター 5/ Chapter 5
クーラント部品 / Cooling Routing
5.1 – 5.10



5

チャプター 6/ Chapter 6
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Platte / insert VC..13 03.. ..... 3.86
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下記プレート・インサート用ホルダー / holder for

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Platte / insert 16ER ../16EL 3.116
Platte / insert HORN Typ 274 ..... 3.122
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概要
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背面工具台用ホルダー / Back working tool	Art.Nr. / Art.no.	適用ホルダー / holder for	ページ/ Page
L.01 / R.01	12-0023 / 12-0022	DC.. 07 02..	3.50
L.01.IK / R.01.IK	12-0161 / 12-0160	DC.. 07 02..	3.51
L.02 / R.02	12-0025 / 12-0024	VC.. 11 03..	3.70
L.02.IK / R.02.IK	12-1310 / 12-1309	VC.. 11 03..	3.71
L.02.XL / R.02.XL	12-1312 / 12-1311	VC.. 11 03..	3.72
L.03 / R.03	12-0027 / 12-0026	TP.. 11 03..	3.113
L.04 / R.04	12-0029 / 12-0028	SC.. 06 02..	3.110
L.05 / R.05	12-0031 / 12-0030	SCD/CS/TP CS 08..	3.141
N.06	12-ff		3.148
N.07	12-0033	Zange ER16	3.22
N.07.IK	12-0055	Zange ER16	3.23
N.09	12-0155	Horn 105	3.28
N.09.IK	12-0154	Horn 105	3.29
N.09.S	12-ff	Horn 105	3.30
N.09.S.IK	12-ff	Horn 105	3.31
N.10	12-0037	-	3.42
N.11.A	12-0038	-	3.44
N.11.B	12-0053	-	3.45
N.12.A	12-0509	-	3.46
N.12.B	12-0510	-	3.47
L.13 / R.13	12-0040 / 12-0039	DC.. 11 T3..	3.60
L.13.IK / R.13.IK	12-1213 / 12-1212	DC.. 11 T3..	3.61
L.13.XL / R.13.XL	12-1308 / 12-1307	DC.. 11 T3..	3.62
L.14 / R.14	12-0042 / 12-0041	DC.. 11 T3..	3.54
L.14.IK / R.14.IK	12-0143 / 12-0142	DC.. 11 T3..	3.55
L.15 / R.15	12-0044 / 12-0043	VC.. 11 03..	3.74
L.15.XL / R.15.XL	12-1486 / 12-1485	VC.. 11 03..	3.75
L.16 / R.16	12-0046 / 12-0045	16EL / 16ER	3.118
L.16.IK / R.16.IK	12-0148 / 12-0147	16EL / 16ER	3.119
L.17 / R.17	12-0378 / 12-0377	VC.. 13 03..	3.88
L.17.IK / R.17.IK	12-0146 /12-0145	VC.. 13 03..	3.89
L.18 / R.18	12-0048 / 12-0047	GTMH 32	3.143
N.19	12-0049	DC.. 11 T3..	3.64
N.19.IK	12-0052	DC.. 11 T3..	3.65
L.20 / R.20	12-0821 / 12-0820	SCD/CS/TP CS 08..	3.142
L.28 / R.28	12-1383 / 12-1382	VC.. 11 03..	3.73

概要
SUMMARY AFTER DESCRIPTION

背面工具台用ホルダー / Back working tool	Art.Nr. / Art.no.	適用ホルダー / holder for	ページ/ Page
L.29 / R.29	12-0262 / 12-0261	VC.. 13 03..	3.92
L.29.IK / R.29.IK	12-1067 / 12-1066	VC.. 13 03..	3.93
N.30	12-ff	ØD4 - ØD16	3.26
N.30.IK	12-ff	ØD6 - ØD16	3.27
N.31	12-0798	3-Fach	3.43
L.34 / R.34	12-1017 / 12-1016	DC.. 11 T3..	3.58
L.35 / R.35	12-0344 / 12-0330	VC.. 13 03..	3.91
L.36 / R.36	12-0407 / 12-0359	CC.. 09 T3..	3.105
L.37 / R.37	12-0452 / 12-0449	VC.. 16 04..	3.95
N.38	12-0478	VC.. 11 03..	3.84
N.38.IK	12-0480	VC.. 11 03..	3.85
L.39 / R.39	12-0479 / 12-0451	TC.. 11 02..	3.111
L.40.IK / R.40.IK	12-1431 / 12-1430	VC.. 11 03..	3.83
N.41	12-0450	ER20	3.24
N.41.IK	12-0469	ER20	3.25
L.42 / R.42	12-0466 / 12-0461	GRAF G0004	3.144
L.43 / R.43	12-0465 / 12-0453	CC.. 09 T3..	3.106
L.43.IK / R.43.IK	12-0503 / 12-0490	CC.. 09 T3..	3.107
L.44 / R.44	12-0512 / 12-0454	QER-12..	3.127
L.45 / R.45	12-1433 / 12-1432	CS/SCD/TP CS 06..	3.140
L.48 / R.48	12-0483 / 12-0467	CC.. 06 02..	3.101
L.48.IK / R.48.IK	12-1152 / 12-0549	CC.. 06 02..	3.102
L.49 / R.49	12-1158 / 12-0468	QER-12..	3.126
L.50 / R.50	12-0516 / 12-0499	CC.. 06 02..	3.103
L.50.IK / R.50.IK	12-1154 / 12-1153	CC.. 06 02..	3.104
L.53 / R.53	12-0335 / 12-0333	VC.. 13 03..	3.90
L.54.IK / R.54.IK	12-1314 / 12-1313	WN.. 06 04..	3.109
L.59 / R.59	12-0477 / 12-0476	DC.. 07 02..	3.49
L.60 / R.60	12-1149 / 12-0482	VC.. 11 03..	3.80
L.62 / R.62	12-0500 / 12-0484	VC.. 11 03..	3.78
L.62.IK / R.62.IK	12-0530 / 12-0529	VC.. 11 03..	3.79
L.63 / R.63	12-0086 / 12-0485	VC.. 11 03..	3.81
L.64 / R.64	12-0496 / 12-0486	Horn 312	3.128
L.64.IK / R.64.IK	12-0504 / 12-0501	Horn 312	3.129
L.65 / R.65	12-0497 / 12-0487	Horn 312	3.130

概要
SUMMARY AFTER DESCRIPTION

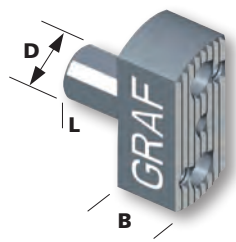
背面工具台用ホルダー / Back working tool	Art.Nr. / Art.no.	適用ホルダー / holder for	ページ/ Page
L.65.IK / R.65.IK	12-0505 / 12-0502	Horn 312	3.131
L.66.03 / R.66.03	12-1436 / 12-1435	Horn 315	3.137
L.66.05 / R.66.05	12-1438 / 12-1437	Horn 315	3.138
N.67	12-1061	Horn 312	3.134
N.68	12-0498	Horn 312	3.135
L.69 / R.69	12-1036 / 12-0513	Applitec 300	3.99
L.70 / R.70	12-1043 / 12-0514	Applitec 300	3.97
L.70.IK / R.70.IK	12-0520 / 12-0515	Applitec 300	3.98
L.71 / R.71	12-0061 / 12-0060	VB.. 11 03..	3.68
L.72 / R.72	12-0064 /12-0063	DC.. 11 T3..	3.56
L.72.IK / R.72.IK	12-1167 /12-1166	DC.. 11 T3..	3.57
N.73	12-0156	Horn 105	3.32
N.73.IK	12-0158	Horn 105	3.33
N.73.S.IK	12-ff	Horn 105	3.34
L.74 / R.74	12-0519 / 12-0518	Applitec L730/R740	3.145
L.75 / R.75	12-0067 / 12-0066	DC.. 07 02..	3.52
L.75.IK / R.75.IK	12-1381 / 12-1380	DC.. 07 02..	3.53
L.76 / R.76	12-1104 / 12-0096	Horn S274	3.122
L.76.IK / R.76.IK	12-1075 / 12-0072	Horn S274	3.124
L.77 / R.77	12-0070 / 12-0071	16EL / 16ER	3.116
L.77.IK / R.77.IK	12-0070 / 12-0071	16EL / 16ER	3.117
L.78 / R.78	12-1210 / 12-1247	VB.. 16 04	3.69
N.79	12-1071	Horn 110	3.35
N.79.IK	12-0157	Horn 110	3.36
N.82.06.IK	12-0524	Picco ØD 6.0	3.37
N.83.05.IK	12-0525	Picco ØD 5.0	3.38
R.84	12-0074	TN.. 16 04..	3.114
L.85 / R.85	12-0075 / 12-0073	TC.. 11 03..	3.112
L.86 / R.86	12-0522 / 12-0521	Applitec L730/R740	3.146
N.91.04.IK	12-0526	Picco ØD 4.0	3.39
N.91.05.IK	12-1076	Picco ØD 5.0	3.40
N.92.07.IK	12-0527	Picco ØD 7.0	3.41
N.93.IK	12-0528	Doppelhalter	3.48
L.94 / R.94	12-1151 / 12-0532	VP.. 11 03..	3.96
L.96 / R.96	12-0092 / 12-0082	VC.. 11 03..	3.76

概要
SUMMARY AFTER DESCRIPTION

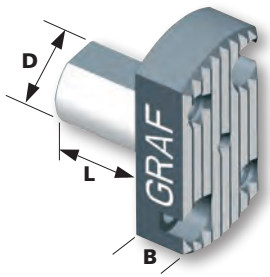
背面工具台用ホルダー / Back working tool	Art.Nr. / Art.no.	適用ホルダー / holder for	ページ/ Page
L.97 / R.97	12-1070 / 12-0083	VC.. 13 03..	3.96
N.98	12-0084	Horn 312	3.136
L.99 / R.99	12-1048 / 12-0547	Horn 312	3.132
N.105	12-1144	Zange ER11	3.20
N.105.IK	12-1051	Zange ER11	3.21
L.123 / R.123	12-1147 / 12-1146	16EL / 16ER	3.120
L.123.IK / R.123.IK	12-1326 / 12-1325	16EL / 16ER	3.121
L.136 / R.136	12-1159 / 12-1074	VC.. 13 03..	3.86
L.136.IK / R.136.IK	12-1504 / 12-1503	VC.. 13 03..	3.87
L.137 / R.137	12-1161 / 12-1160	DC.. 11 T3..	3.59
L.138 / R.138	12-1163 / 12-1162	CC.. 06 02..	3.100
L.139 / R.139	12-1165 / 12-1164	VC.. 11 03..	3.77
L.190 / R.190	12-1285 / 12-1284	CN.. 12 04..	3.108
L.199 / R.199	12-1317 / 12-1316	Horn S274	3.123
L.199.IK / R.199.IK	12-1390 / 12-1389	Horn S274	3.125
L.217 / R.217	12-1357 / 12-1356	YW.. 11 T2..	3.66
L.231 / R.231	12-1403 / 12-1402	Horn 312	3.133
L.257 / R.257	12-1499 / 12-1498	VC.. 11 03..	3.82
L.261 / R.261	12-1510 / 12-1509	DC.. 11 T3..	3.63
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L.286 / R.286	12-1689 / 12-1596	YW.. 11 T2..	3.67
L.307.IK / R.307.IK	12-ff	HORN S34T	3.139
L.615 / R.615	12-1132 / 12-1131	Precitool 615	3.147

ベーシックホルダー　G
Basic holder G

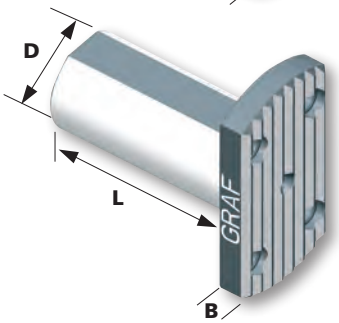
STAR-
適用メーカー



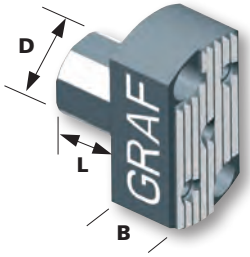
D	L	B	型式 Description	注文No. Order-Number
16	21	20	G.016.021.SR10	12-1082
穴寸法/hole pattern			X=0	Y=32



D	L	B	型式 Description	注文No. Order-Number
16	21	12	G.016.021. SR16.20R	12-0011
穴寸法/hole pattern			X=16	Y=26



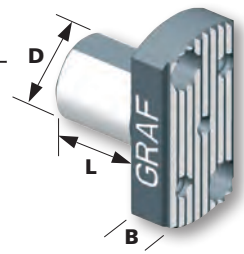
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16	21	6	G.016.021	12-0006
22	30	6	G.022.030	12-0010
22	70	6	G.022.070	12-0007
22	23	6	G.022.023	12-0008



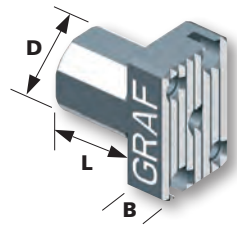
D	L	B	型式 Description	注文No. Order-Number
22	20	20	G.022.020.S3	12-1083
穴寸法/hole pattern			X=14	Y=38

穴寸法とX・Yの寸法は中心軸に対して対称です。 · Hole pattern X and Y dimension symmertrically to the central axis

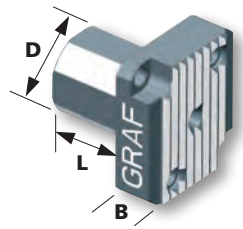
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適用メーカー



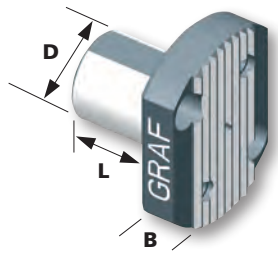
D	L	B	型式 Description	注文No. Order-Number
22	25	12	G.022.025.S3 (SR16/20R)	12-0005
穴寸法/hole pattern			X=14	Y=38



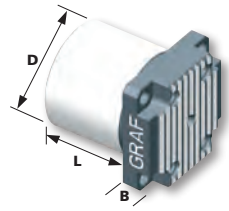
D	L	B	型式 Description	注文No. Order-Number
22	24	12	G.022.024.S1 (SR20 R IV/SW20)	12-1094
穴寸法/hole pattern			X=12	Y=30



D	L	B	型式 Description	注文No. Order-Number
22	24	12	G.022.024.S2 (SR20 R IV/SW20)	12-1095
穴寸法/hole pattern			X=25	Y=30



D	L	B	型式 Description	注文No. Order-Number
22	25	12	G.022.025.SR32	12-0009
穴寸法/hole pattern			X=27,5	Y=26

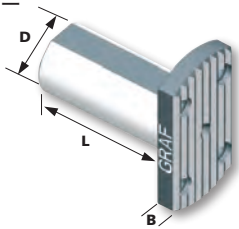


D	L	B	型式 Description	注文No. Order-Number
34	30	12	G.034.030.S4 (ECAS 32)	12-1035
穴寸法/hole pattern			X=29,7	Y=29,7

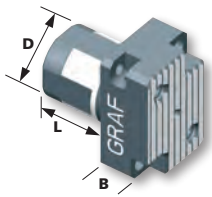
穴寸法とX・Yの寸法は中心軸に対して対称です。 · Hole pattern X and Y dimension symmertrically to the central axis

ベーシックホルダー　G
Basic holder G

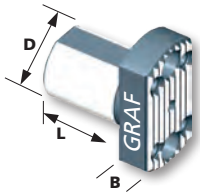
CITIZEN-
適用メーカー



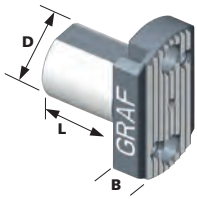
D	L	B	型式 Description	注文No. Order-Number
3/4″	40	6	G.034.040	12-0540
3/4″	50	6	G.034.050	12-0541
3/4″	120	6	G.034.120	12-0893
20	30	6	G.020.030	12-0539
1″	30	6	G.010.030	12-0013
1″	60	6	G.010.060	12-0542
1″	100	6	G.010.100	12-1018



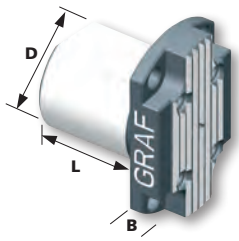
D	L	B	型式 Description	注文No. Order-Number
25	25	19	G.025.025.C2	12-1042
穴寸法/hole pattern			X=19	Y=33



D	L	B	型式 Description	注文No. Order-Number
24	25	12	G.024.025.K16	12-1320
穴寸法/hole pattern			X=0	Y=32,5



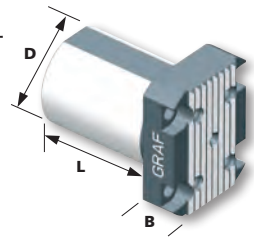
D	L	B	型式 Description	注文No. Order-Number
25	30	12	G.025.030.C1	12-0554
穴寸法/hole pattern			X=0	Y=36



D	L	B	型式 Description	注文No. Order-Number
31	32	12	G.031.032.C4	12-1049
穴寸法/hole pattern			X=23,5	Y=40,7

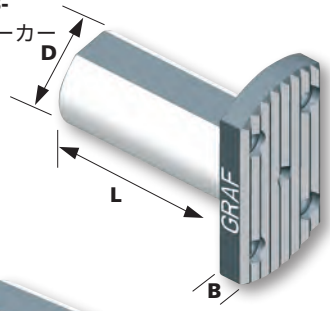
穴寸法とX・Yの寸法は中心軸に対して対称です。· Hole pattern X and Y dimension symmertrically to the central axis

MAIER-
適用メーカー

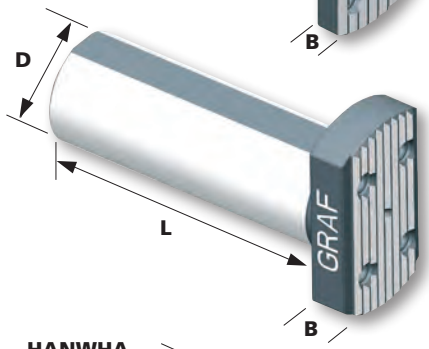


D	L	B	型式 Description	注文No. Order-Number
34	20	15	G.034.020	12-1029
穴寸法//hole pattern			X=29,7	Y=29,7
34	44	12	G.034.044	12-0805
穴寸法//hole pattern			X=29,7	Y=29,7

TRAUB-
適用メーカー

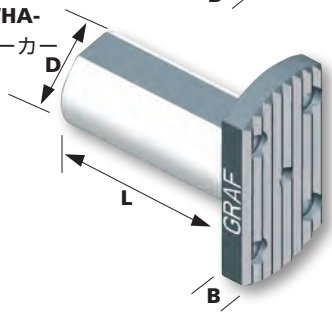


D	L	B	型式 Description	注文No. Order-Number
16	40	6	G.016.040	12-0095
16	100	6	G.016.100	12-0087



D	L	B	型式 Description	注文No. Order-Number
28	80	12	G.028.080	12-0014

HANWHA-
適用メーカー

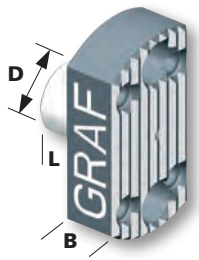


D	L	B	型式 Description	注文No. Order-Number
20	40	6	G.020.040	12-0056

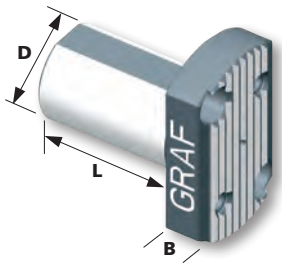
穴寸法とX・Yの寸法は中心軸に対して対称です。· Hole pattern X and Y dimension symmertrically to the central axis

ベーシックホルダー　G
Basic holder G

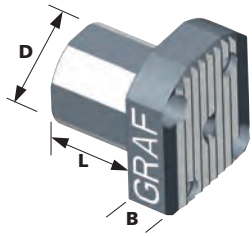
HANWHA-
適用メーカー



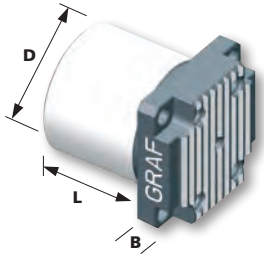
D	L	B	型式 Description	注文No. Order-Number
15	12	12,5	G.015.012.H1	12-0081
穴寸法/hole pattern			X=0	Y=32



D	L	B	型式 Description	注文No. Order-Number
25	40	12	G.025.040	12-0036
穴寸法/hole pattern			X=20,5	Y=35,5
25	60	12	G.025.060	12-0807
穴寸法/hole pattern			X=19	Y=33
28	6	12	G.028.006	12-0054
穴寸法/hole pattern			X=20,5	Y=35,5
32	25	12	G.032.025.H5	12-0808
穴寸法/hole pattern			X=28,3	Y=28,3
32	40	12	G.032.040.H5	12-1044
穴寸法/hole pattern			X=28,3	Y=28,3
33	35	12	G.033.035.H3	12-0806



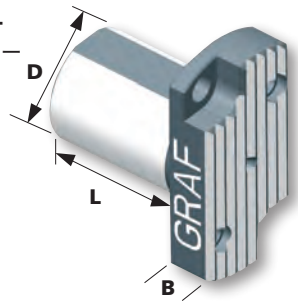
D	L	B	型式 Description	注文No. Order-Number
25	25	12	G.025.025.H6	12-1186
穴寸法/hole pattern			X=25,5	Y=25,5



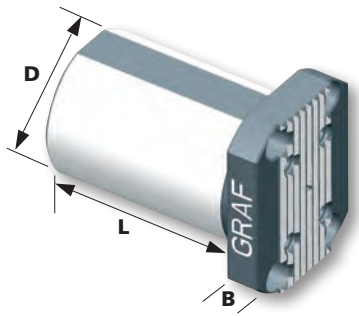
D	L	B	型式 Description	注文No. Order-Number
35	40	13	G.035.040	12-0815
穴寸法/hole pattern			X=30	Y=30
36	37	13	G.036.037	12-0814
穴寸法/hole pattern			X=32	Y=32

穴寸法とX・Yの寸法は中心軸に対して対称です。 · Hole pattern X and Y dimension symmertrically to the central axis

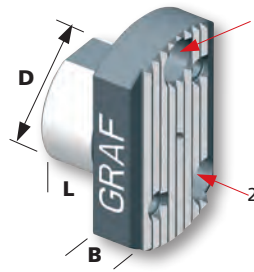
HANWHA-
適用メーカー



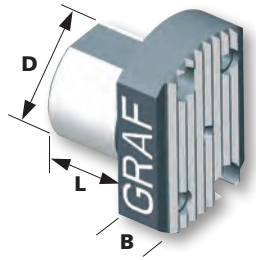
D	L	B	型式 Description	注文No. Order-Number
20	28	10	G.020.028.H8	12-1533
穴寸法//hole pattern			X=12	Y=33
23	30	10	G.023.030.H2	12-0091
穴寸法//hole pattern			X=13,7	Y=37,6
25	30	10	G.025.030.H7	12-0093
穴寸法//hole pattern			X=13,7	Y=37,6
25	28	10	G.025.028.H9(XD10)	12-1534
穴寸法//hole pattern			X=12	Y=33
25	15	10	G.025.015.H10 (XD16)	12-1626
穴寸法//hole pattern			X=13,7	Y=37,6



D	L	B	型式 Description	注文No. Order-Number
42	60	12	G.042.060	12-0810
穴寸法//hole pattern			X=25,5	Y=44,1



D	L	B	型式 Description	注文No. Order-Number
28	15	12	G.028.015	12-0076
穴寸法//hole pattern			X_1=0 X_2=10,5	Y_1=19,5 Y_2=16,5

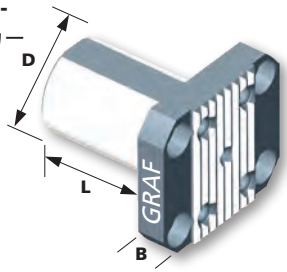


D	L	B	型式 Description	注文No. Order-Number
25	20	12	G.025.020.H4	12-1072
穴寸法//hole pattern			X=13,7	Y=32,2

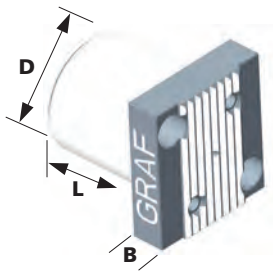
穴寸法とX・Yの寸法は中心軸に対して対称です。 · Hole pattern X and Y dimension symmertrically to the central axis

ベーシックホルダー　G
Basic holder G

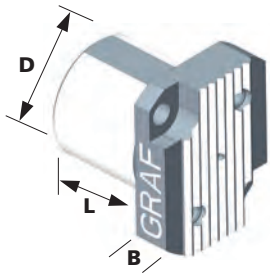
NEXTURN-
適用メーカー



D	L	B	型式 Description	注文No. Order-Number
25	35	10	G.025.035	12-1355
穴寸法/hole pattern			X=30,2	Y=30,2
25	38	10	G.025.038	12-1371
穴寸法/hole pattern			X=33	Y=27



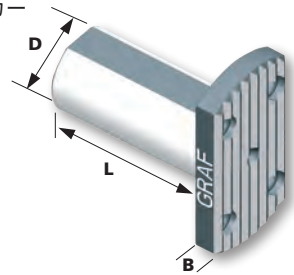
D	L	B	型式 Description	注文No. Order-Number
35	35	13	G.035.035 (SAB2B)	12-0085
穴寸法/hole pattern			X=30	Y=30



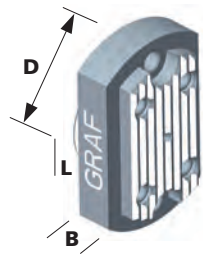
D	L	B	型式 Description	注文No. Order-Number
32	30	13	G.032.030.N2 (SA20B)	12-1491
穴寸法/hole pattern			X=27	Y=33

穴寸法とX・Yの寸法は中心軸に対して対称です。 · Hole pattern X and Y dimension symmertrically to the central axis

MANURHIN-
適用メーカー

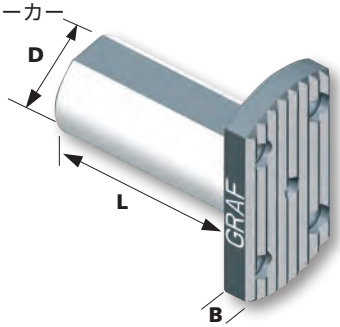


D	L	B	型式 Description	注文No. Order-Number
16	40	6	G.016.040	12-0095
20	150	6	G.020.150	12-0531
25	30	6	G.025.030	12-0159
25	70	6	G.025.070	12-0019
25	100	6	G.025.100	12-0020
25	160	6	G.025.160	12-0799

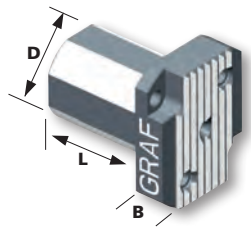


D	L	B	型式 Description	注文No. Order-Number
30	4	15	G.030.004	12-1532
穴寸法/hole pattern			X=0	Y=42

TORNOS-
適用メーカー



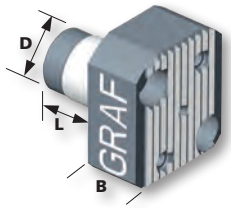
D	L	B	型式 Description	注文No. Order-Number
20	100	6	G.020.100	12-0015
20	150	6	G.020.150	12-0531
25	70	6	G.025.070	12-0019
25	100	6	G.025.100	12-0020
25	160	6	G.025.160	12-0799



D	L	B	型式 Description	注文No. Order-Number
20	36	12	G.020.036 (GT26)	12-1517
穴寸法/hole pattern			X=27	Y=27
28	36	12	G.028.036 (CT20)	12-1150
穴寸法/hole pattern			X=27	Y=27

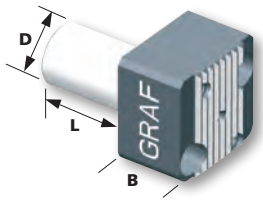
穴寸法とX・Yの寸法は中心軸に対して対称です。 · Hole pattern X and Y dimension symmertrically to the central axis

TORNOS-
適用メーカー

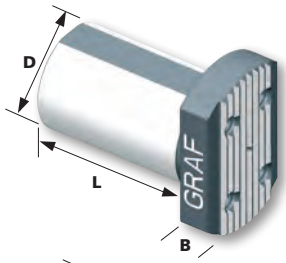


D	L	B	型式 Description	注文No. Order-Number
20	25	20	G.020.025	12-1209
穴寸法/hole pattern			X=24	Y=25,6

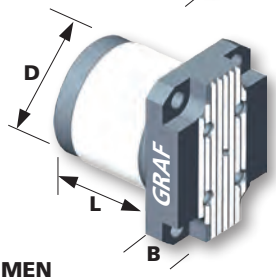
TSUGAMI-
適用メーカー



D	L	B	型式 Description	注文No. Order-Number
20	35	25	G.020.035	12-0897
穴寸法/hole pattern			X=26	Y=18

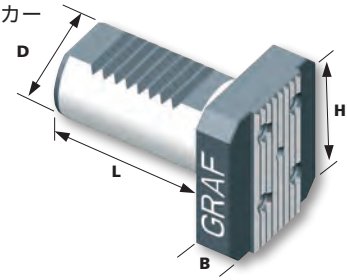


D	L	B	型式 Description	注文No. Order-Number
32	50	12	G.032.050	12-0896



D	L	B	型式 Description	注文No. Order-Number
42	40	15	G.042.040 (Bo326 / HS 327)	12-1245
穴寸法/hole pattern			X=29	Y=49

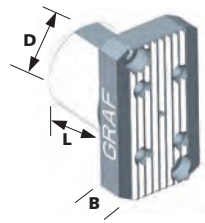
VDI-AUFNAHMEN
適用メーカー



D	L	H	B	型式 Description	注文No. Order-Number
16	32	45	12	GV.016.032	12-0113
20	40	50	10	GV.020.040	12-0088
25	48	47,5	19	GV.025.048	12-1185
30	50	52,5	14,5	GV.030.055	12-0058

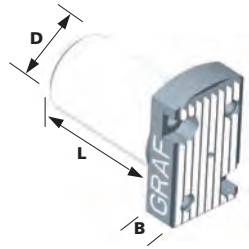
穴寸法とX・Yの寸法は中心軸に対して対称です。· Hole pattern X and Y dimension symmertrically to the central axis

GOODWAY-
適用メーカー



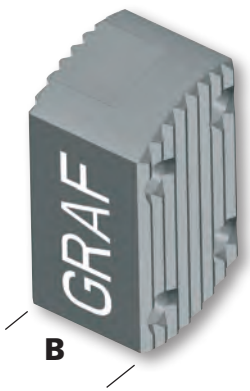
D	L	B	型式 Description	注文No. Order-Number
32	30	10	G.032.030.GW (SW32)	12-0899
穴寸法/hole pattern			X=17,8	Y=48,9

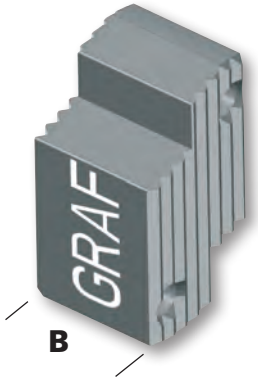
NOMURA-
適用メーカー



D	L	B	型式 Description	注文No. Order-Number
25	44	12	G.025.044 (NN 38 KMY)	12-1653
穴寸法/hole pattern			X=19	Y=27

プレート
Plate between





B	型式 Description	注文No. Order-Number
5	Z.5	12-0004
10	Z.10	12-0001
15	Z.15	12-0002
20	Z.20	12-0003
25	Z.25	12-0800
30	Z.30	12-0801

B	型式 Description	注文No. Order-Number
5	Z.5.AS	12-0533
10	Z.10.AS	12-0534
15	Z.15.AS	12-0535
20	Z.20.AS	12-0536
25	Z.25.AS	12-0537
30	Z.30.AS	12-0538

適用ベーシックホルダー For basic holder
G.022.025.S3
G.022.025.SR32
G.025.060
G.028.006
G.032.25.H5
G.033.035.H3
G.025.040
G.032.030
G.032.040.H5
G.023.030.H2

芯高調整機能付き背面工具台用ホルダー
Height adjustable back working tools





すべての GRAF インサートカセットは、インサートを上向きまたは下向きにして取り付けることができ、芯高を調整することもできます。

All GRAF insert cassettes can be mounted with the insert facing up or down and you can still adjust the center height.

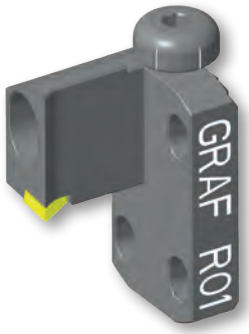


“上向き”

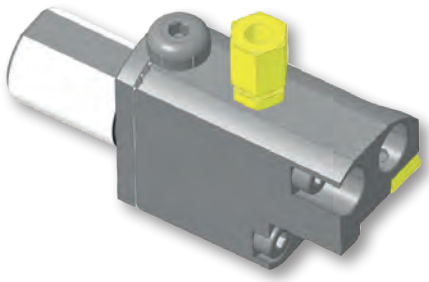
Execution
“Standard”

“下向き”

Execution
“Upside Down”

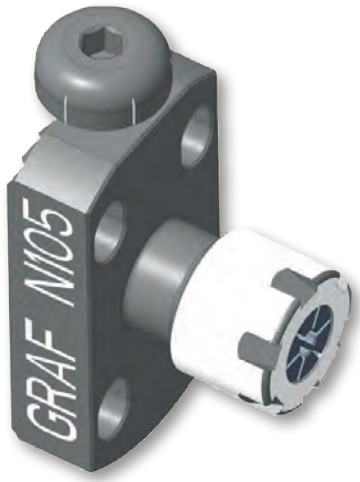






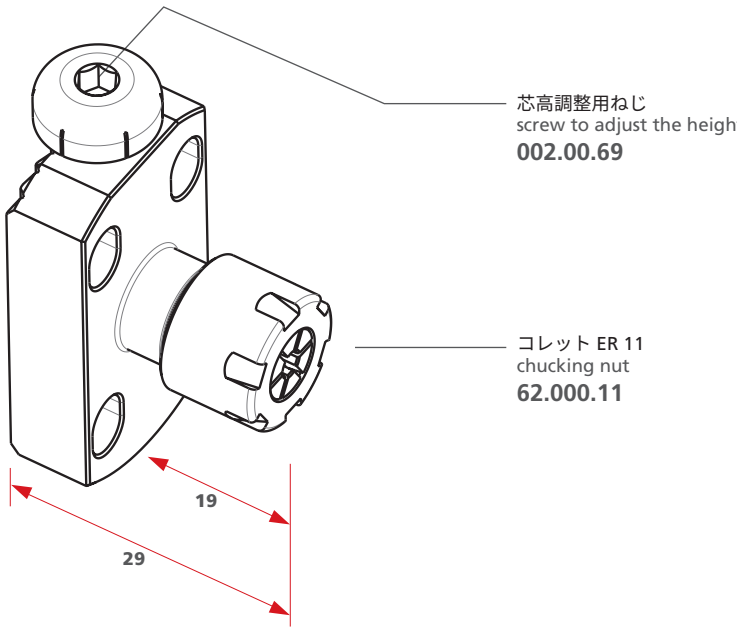
インサートを下向きにしても微調整が可能で、切りくずの排出性が向上します。
特にプラスチックなどの長い糸状の切りくずが出る被削材に適しています。

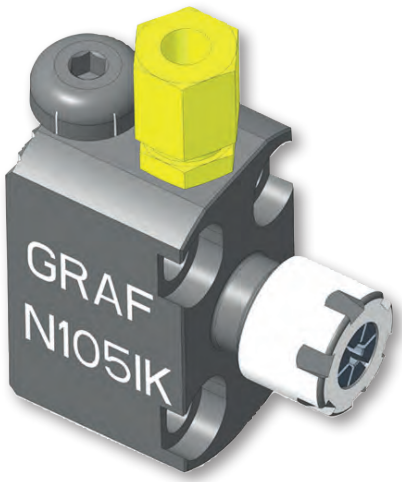
Fine adjustment is possible with the insert facing upside down for better chip evacuation. Especially for long stringy materials such as plastic.



N.105
注文No. /Order-Number 12-1144

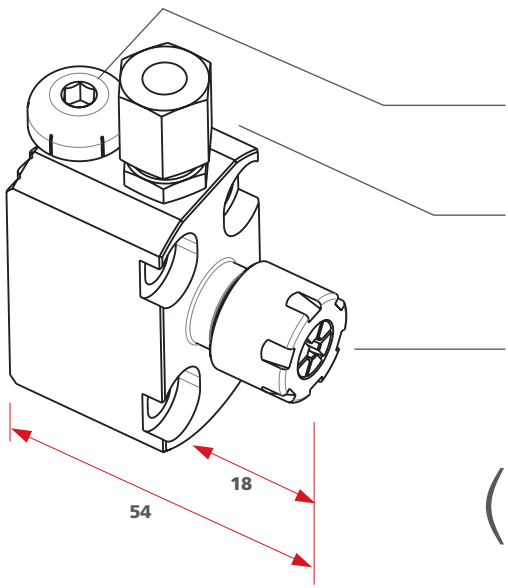
加工用途：**穴あけ加工**
ホルダー種類:**内部給油機構付きERコレットホルダー**
Range of application **internal processing**





N.105.IK
注文No. /Order-Number 12-1051

加工用途：**穴あけ加工**
Range of application **internal processing**

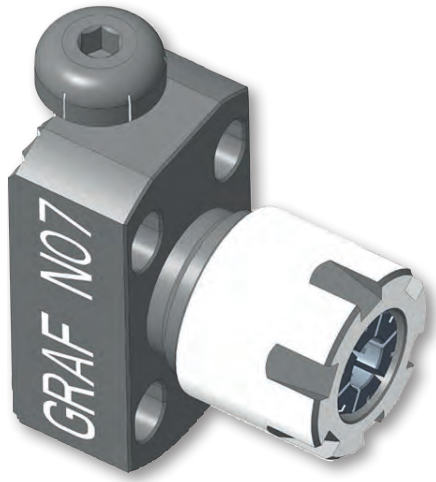


芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

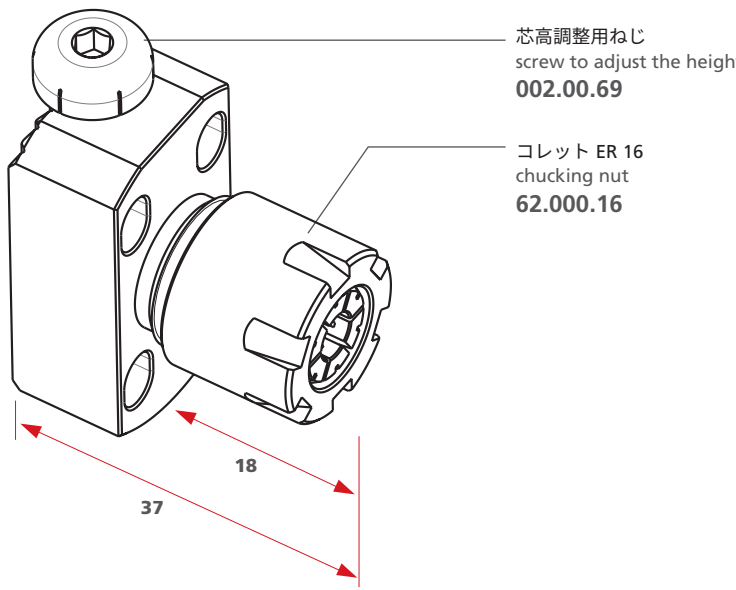
コレット ER 11
chucking nut
62.000.11

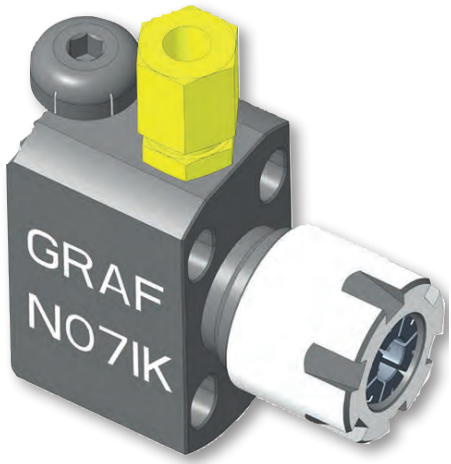
（シールナットは別途ご注文ください。
sealed chucking nut must be ordered separatly）



N.07
注文No. /Order-Number 12-0033

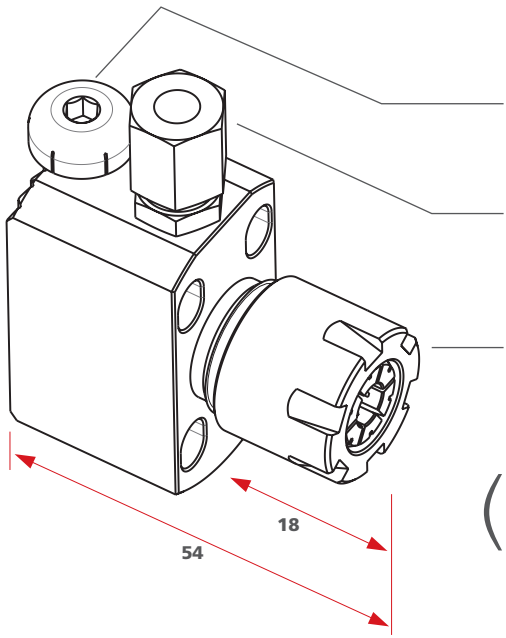
加工用途：**穴あけ加工**
Range of application **internal processing**





N.07.IK
注文No. /Order-Number 12-0055

加工用途：**穴あけ加工**
Range of application **internal processing**



芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

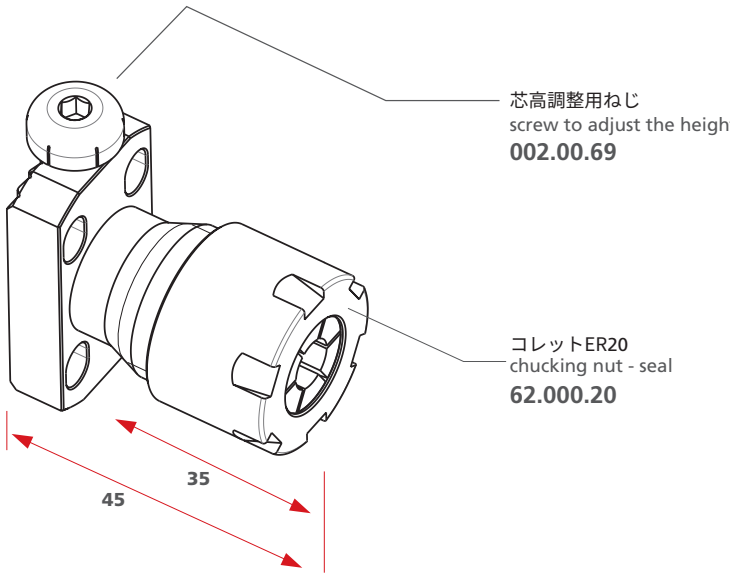
コレット ER 16
chucking nut
62.000.16

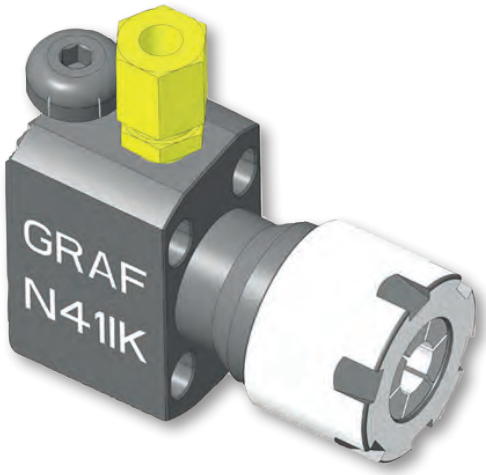
（シールナットは別途ご注文ください。
sealed chucking nut must be ordered separatly）



N.41
注文No. /Order-Number 12-0450

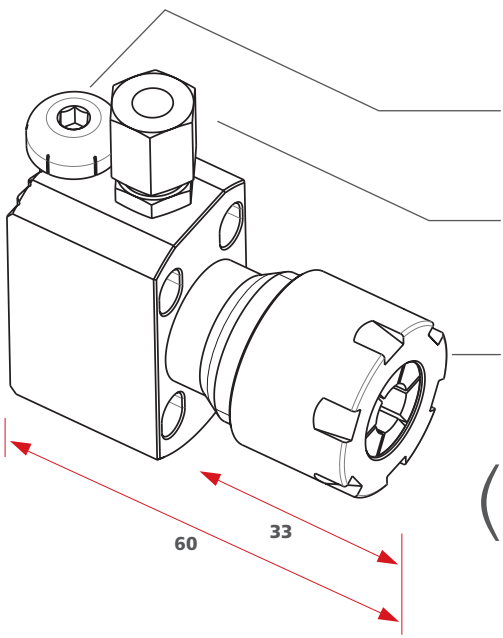
加工用途：**穴あけ加工**
Range of application **internal processing**





N.41.IK
注文No. /Order-Number 12-0469

加工用途：**穴あけ加工**
Range of application **internal processing**



芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

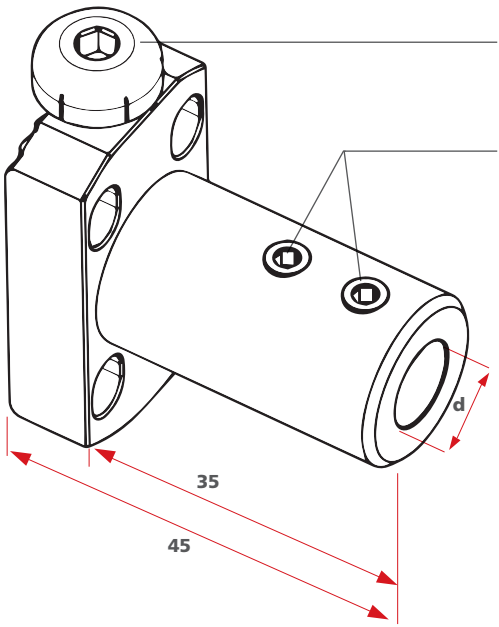
コレット ER 20
chucking nut
62.000.20

（シールナットは別途ご注文ください。
sealed chucking nut must be ordered separatly）



N.30

加工用途：**内径加工**
Range of application **internal processing**

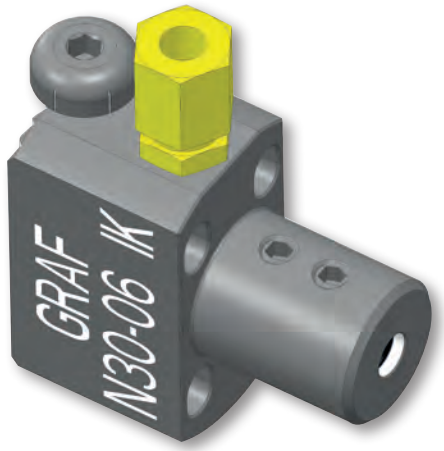


芯高調整用ねじ
screw to adjust the height
002.00.69

セットねじ
set screw
002.00.21

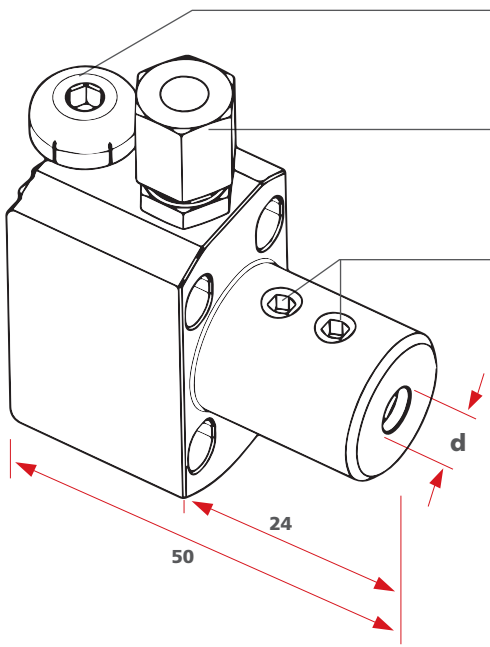
対応径
selectable in different diameters
d= 4, 5, 6, 8, 10, 12, 16

型式 Description	Ø d	注文No. Order-Number
N.30.04	4	12-0379
N.30.05	5	12-1642
N.30.06	6	12-0371
N.30.08	8	12-0372
N.30.10	10	12-0373
N.30.12	12	12-0374



N.30.IK

加工用途：**内径加工**
Range of application **internal processing**



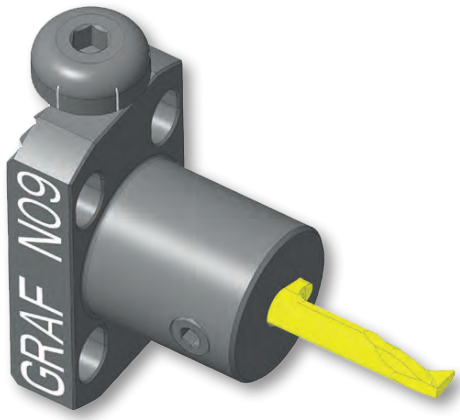
芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

セットねじ
set screw
002.00.21

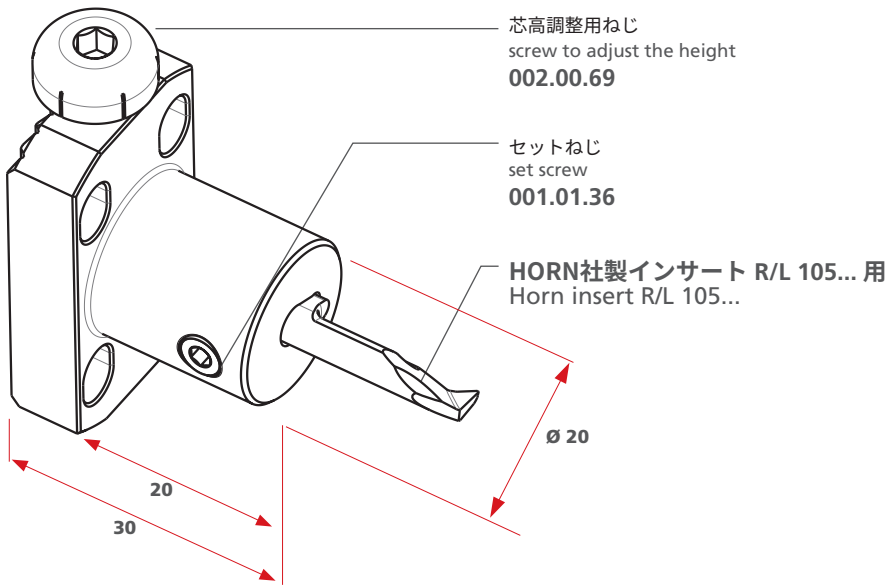
対応径
selectable in different diameters
d= 6, 8, 10, 12, 14,16

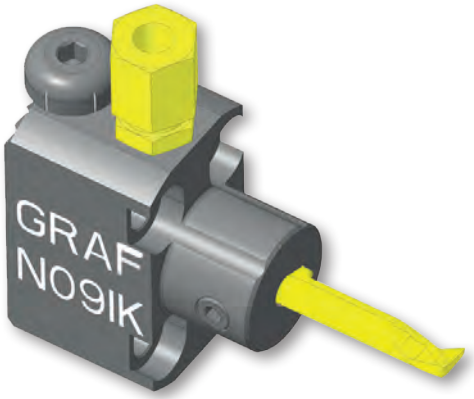
型式 Description	Ø d	注文No. Order-Number
N.30.06.IK	6	12-1053
N.30.08.IK	8	12-1054
N.30.10.IK	10	12-1055
N.30.12.IK	12	12-1052
N.30.14.IK	14	12-1646
N.30.16.IK	16	12-1214



N.09
注文No. /Order-Number 12-0155

加工用途：**内径加工**
Range of application **internal processing**

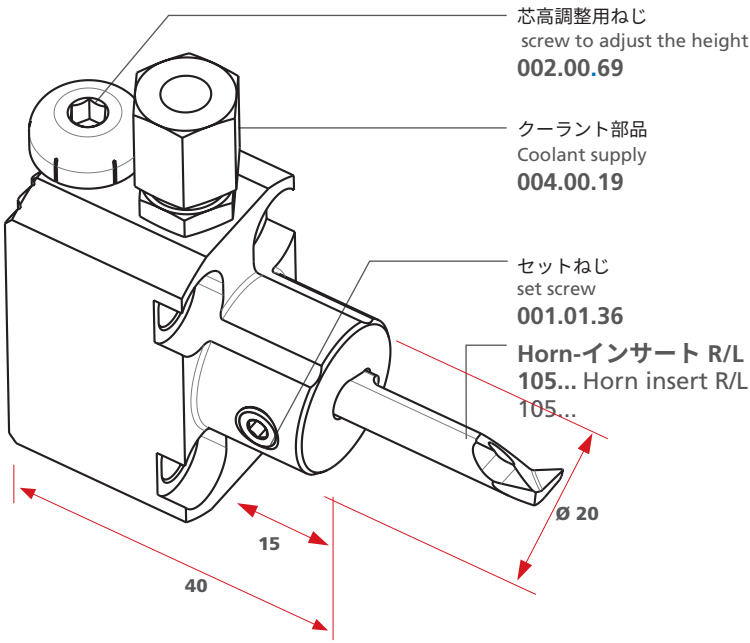


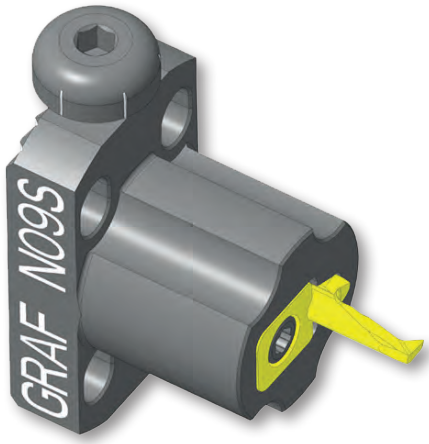




N.09.IK
注文No. /Order-Number 12-0154

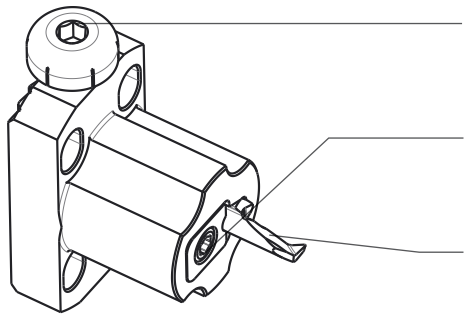
加工用途：**内径加工**
Range of application **internal processing**





N.09.S

加工用途：**内径加工**
Range of application **internal processing**

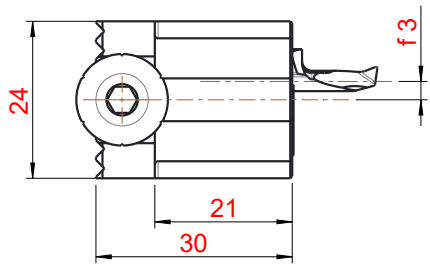


芯高調整用ねじ
screw to adjust the height
002.00.69

クランプ部品
clamping element

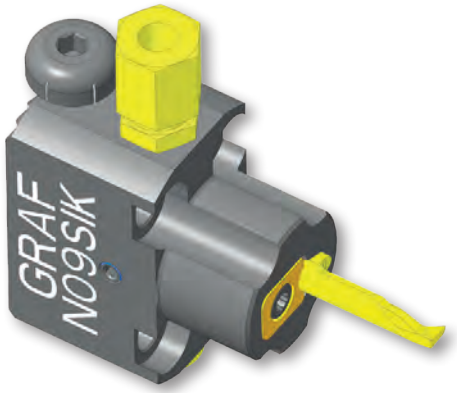
Horn-インサート R/L
105... Horn insert R/L
105...

サイズ/ size	注文No. Order-Number
03	4.352.03
04	4.352.04
05	4.352.05



3種類のツールホルダー
Tool holder in three sizes

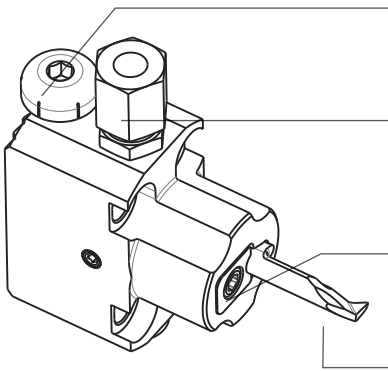
型式 Description	サイズ/size	注文No. Order-Number
N.09.S.03	03	12-1358
N.09.S.04	04	12-1347
N.09.S.05	05	12-1359





N.09.S.IK

加工用途：**内径加工**
Range of application **internal processing**



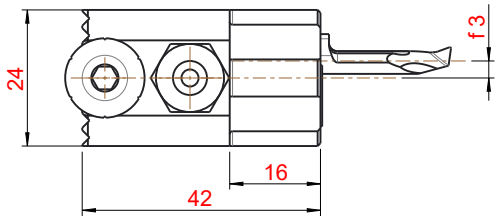
芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

クランプ部品
clamping element

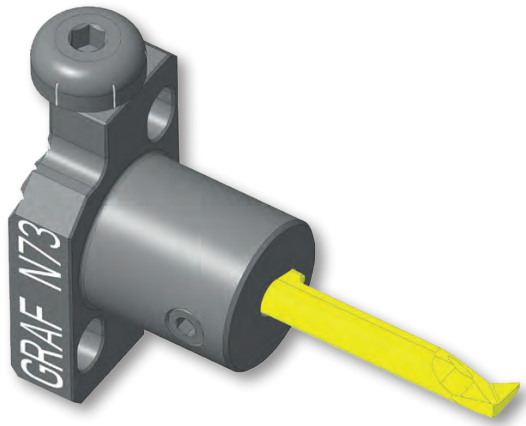
サイズ/ size	注文No. Order-Number
03	4.352.03
04	4.352.04
05	4.352.05

Horn-インサートR/L
105... Horn insert R/L
105...



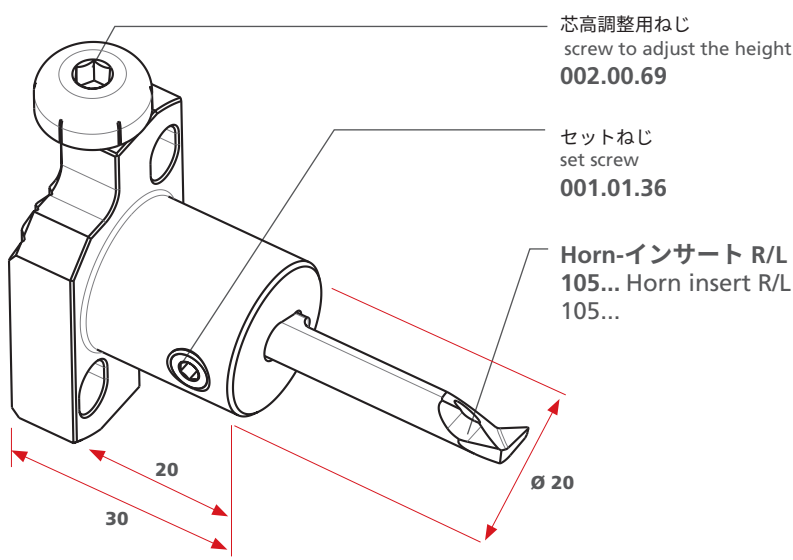
3種類のツールホルダー
Tool holder in three sizes

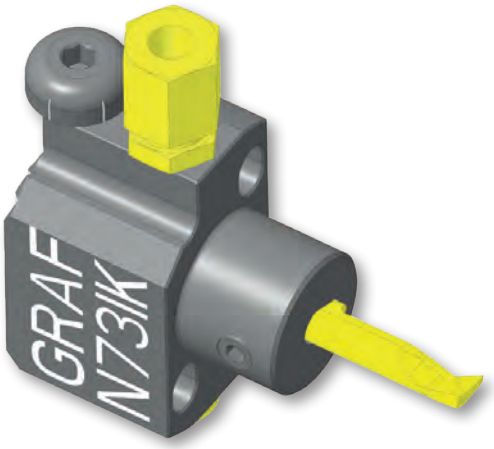
型式 Description	サイズ/size	注文No. Order-Number
N.09.S.IK.03	03	12-1391
N.09.S.IK.04	04	12-1392
N.09.S.IK.05	05	12-1393



N.73
注文No. /Order-Number 12-0156

加工用途：**内径加工**
Range of application **internal processing**

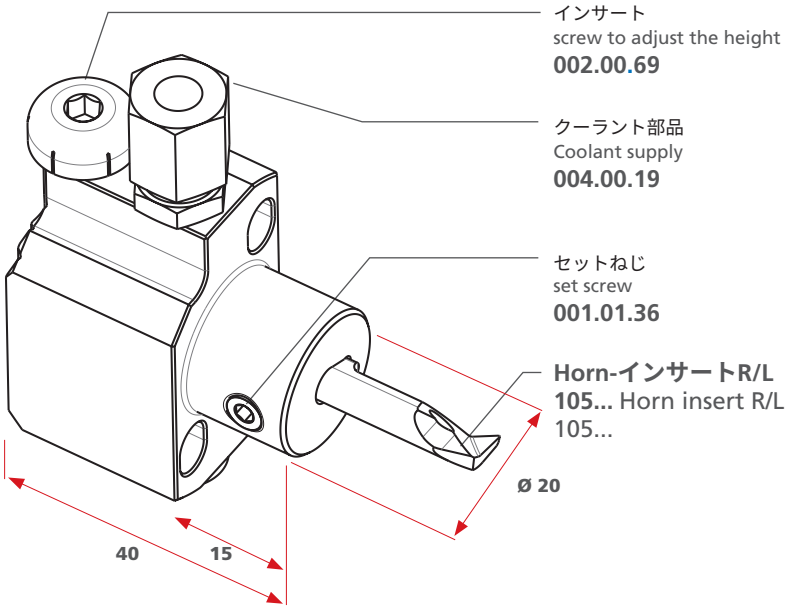


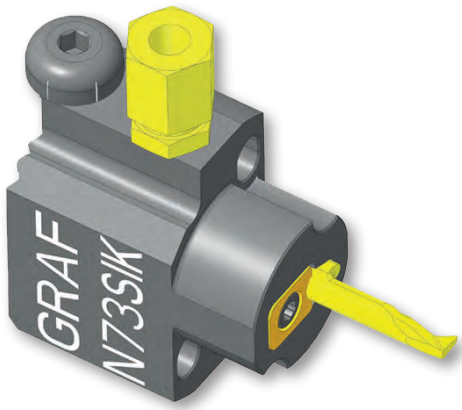




N.73.IK
注文No. /Order-Number 12-0158

加工用途：**内径加工**
Range of application **internal processing**

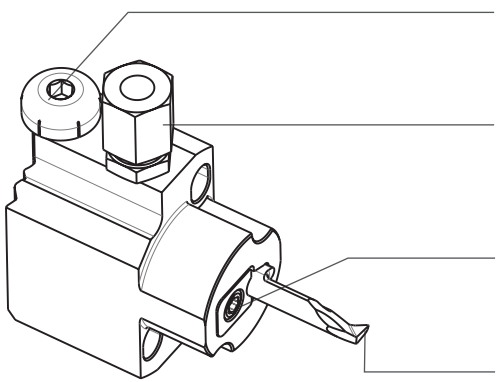






N.73.S.IK

加工用途：**内径加工**
Range of application **internal processing**



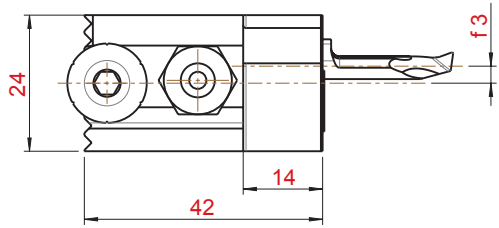
芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

クランプ部品
clamping element

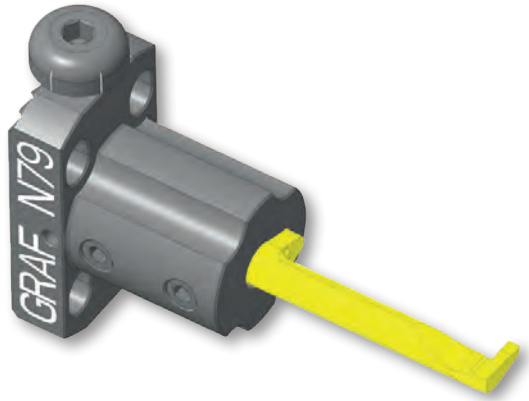
サイズ/ size	注文No. Order-Number
03	4.352.03
04	4.352.04
05	4.352.05

Horn-インサート R/L 105...
Horn insert R/L 105...



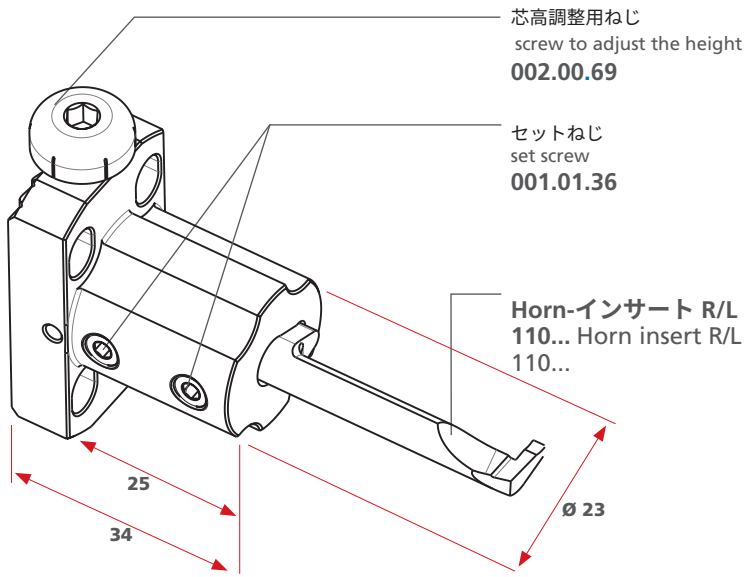
3種類のツールホルダー
Tool holder in three sizes

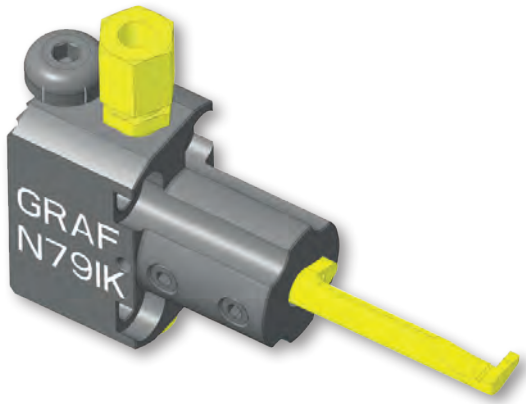
型式 Description	サイズ/size	注文No. Order-Number
N.73.S.IK.03	03	12-1395
N.73.S.IK.04	04	12-1396
N.73.S.IK.05	05	12-1397



N.79
注文No. /Order-Number 12-1071

加工用途：**内径加工**
Range of application **internal processing**

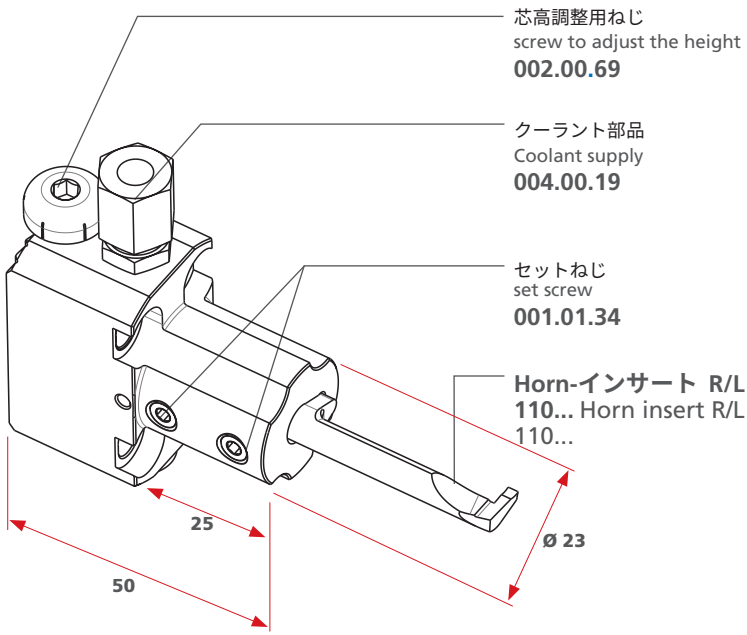


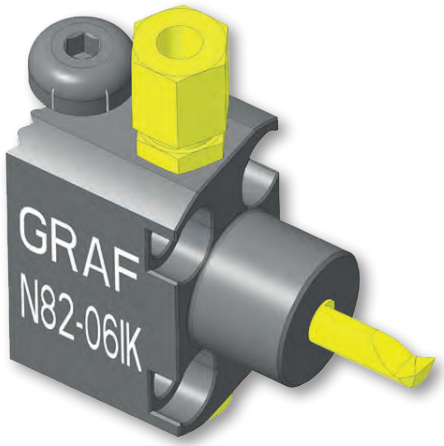




N.79.IK
注文No. /Order-Number 12-0157

加工用途：**内径加工**
Range of application **internal processing**

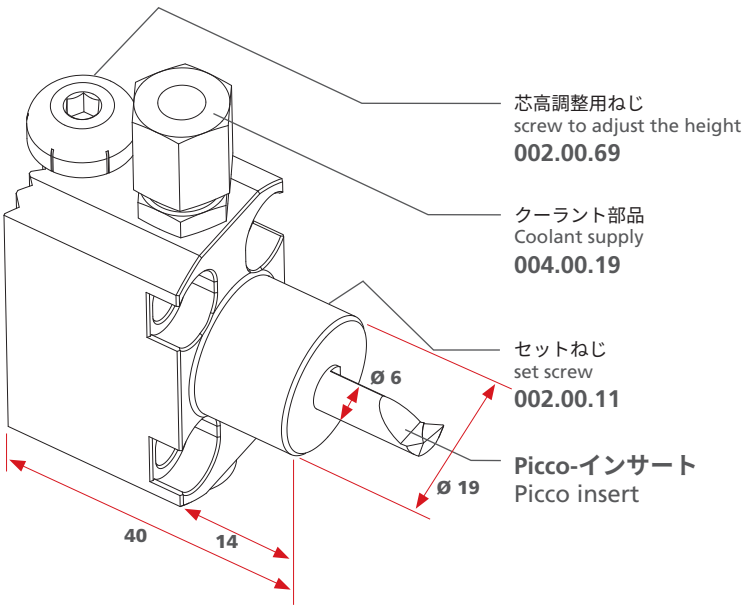






N.82.06.IK
注文No. /Order-Number 12-0524

加工用途：**内径加工**
Range of application **internal processing**

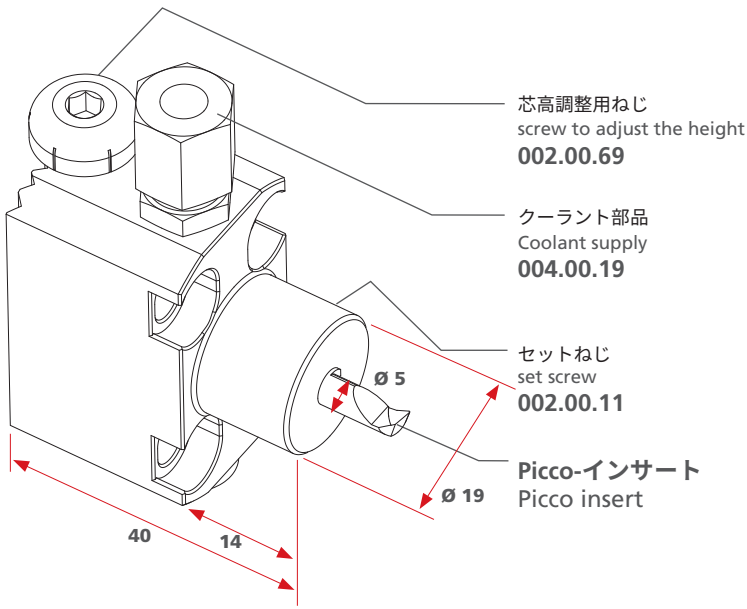


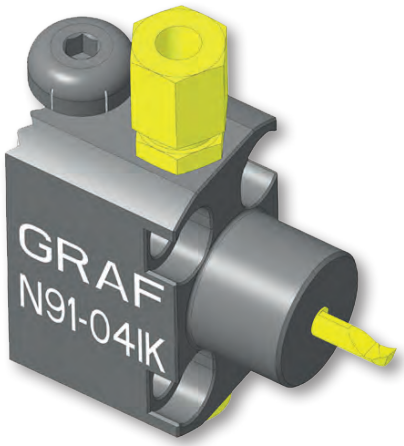




N.83.05.IK
注文No. /Order-Number 12-0525

加工用途：**内径加工**
Range of application **internal processing**

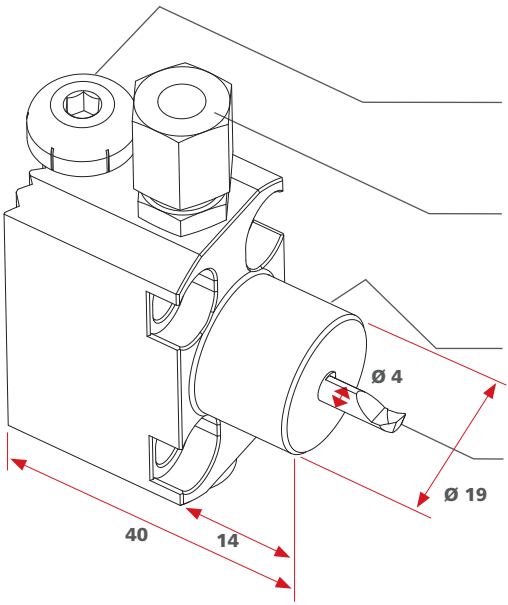






N.91.04.IK
注文No. /Order-Number 12-0526

加工用途：**内径加工**
Range of application **internal processing**

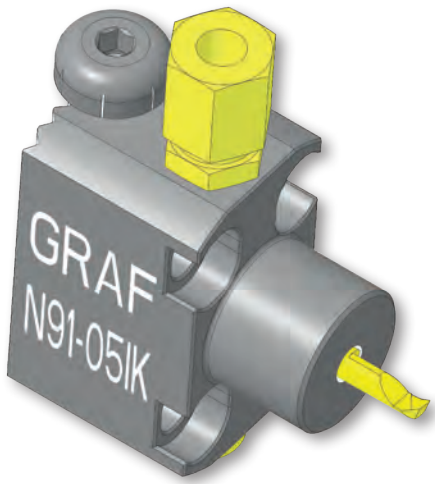


芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

セットねじ
set screw
002.00.11

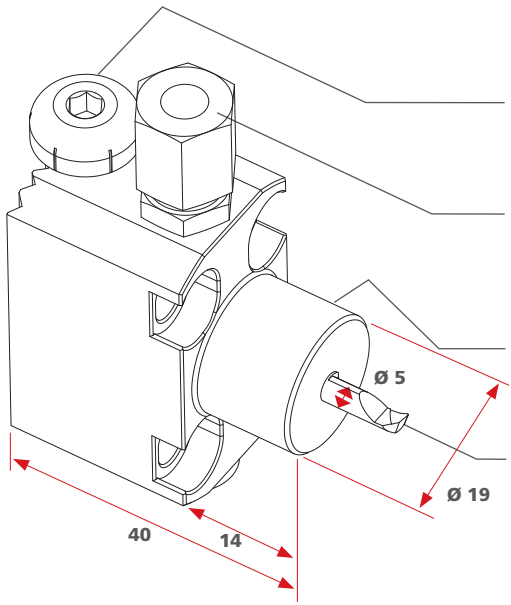
Picco-インサート
Picco insert





N.91.05.IK
注文No. /Order-Number 12-1076

加工用途：**内径加工**
Range of application **internal processing**

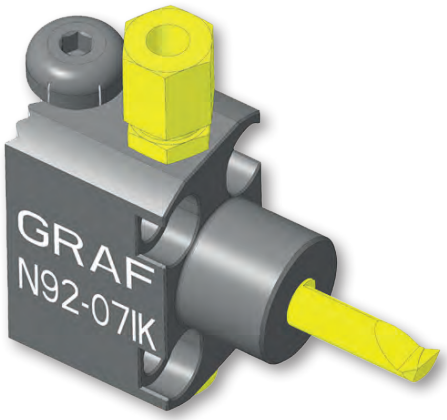


芯高調整用ねじ
screw to adjust the height
002.00.69

クーラント部品
Coolant supply
004.00.19

セットねじ
set screw
002.00.11

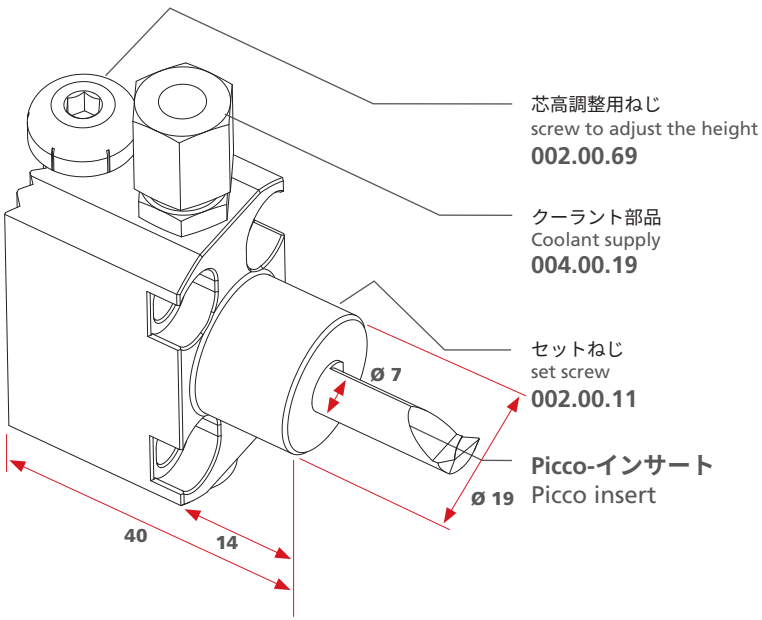
Picco-インサート
Picco insert





N.92.07.IK
注文No./Order-Number 12-0527

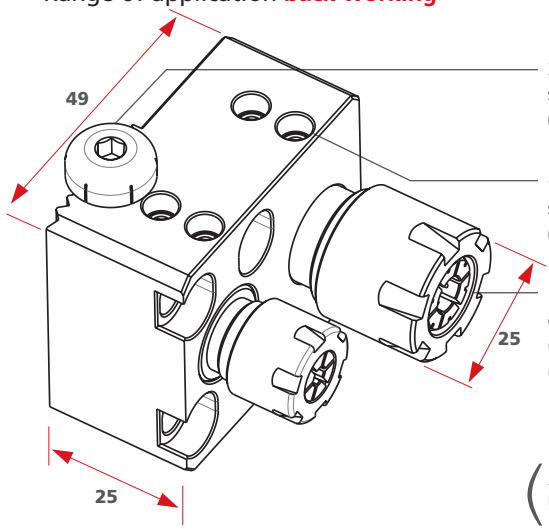
加工用途：**内径加工**
Range of application **internal processing**





N.10
注文No. /Order-Number
12-0037

加工用途：**背面加工**
Range of application **back working**



芯高調整用ねじ
screw to adjust the height
002.00.69

セットねじ
set screw
002.00.11

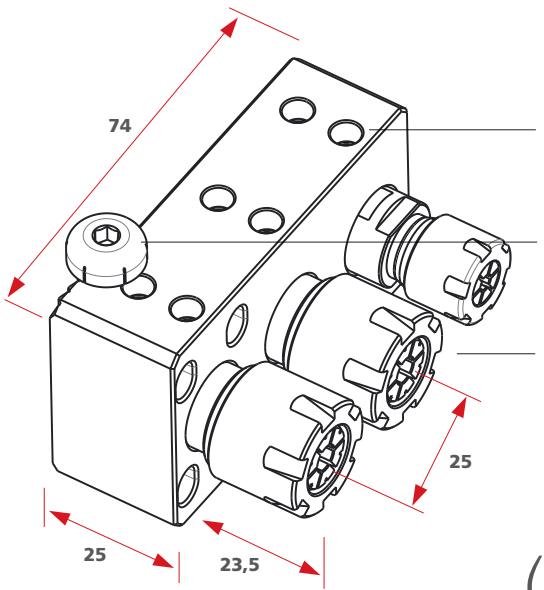
コレット
collet holders
GZ.66.1626.16 (ER 16)
GZ.66.1620.11 (ER 11)
IR.105.1630
IR.105.1650

（別途ご注文ください。
must be ordered separatly）



N.31
注文No. /Order-Number 12-0798

加工用途：**背面加工**
Range of application **back working**



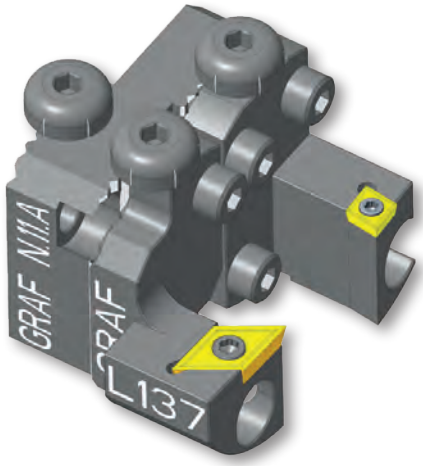
セットねじ
set screw
001.01.24

芯高調整用ねじ
screw to adjust the height
002.00.69

コレット
collet holders
GZ.66.1620.11 (ER 11)
GZ.66.1626.16 (ER 16)
oder IR.105.1630
IR.105.1630.IK
IR.105.1650.IK

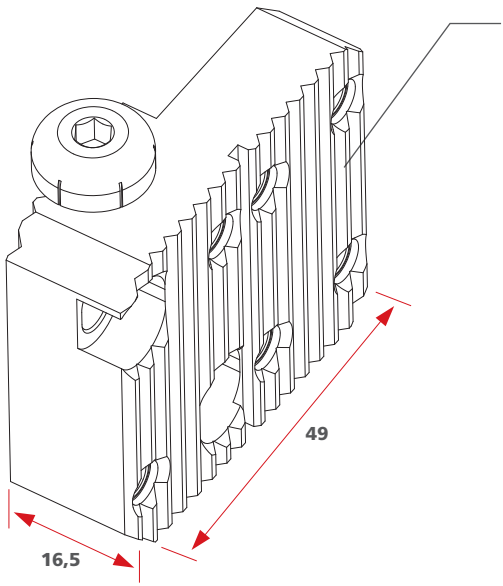
（別途ご注文ください。
must be ordered separatly）

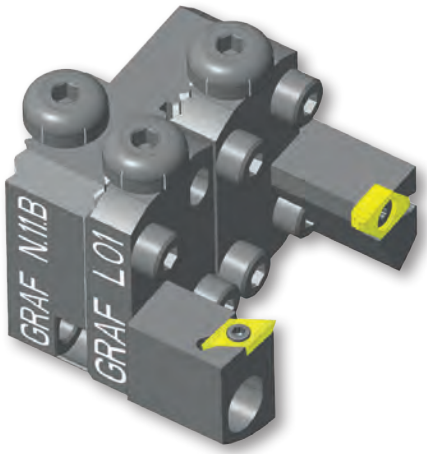
3



N.11.A
注文No. /Order-Number 12-0038

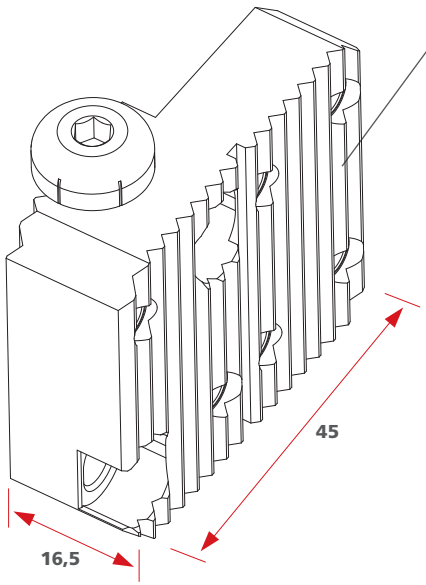
加工用途：**背面加工**
Range of application **back working**





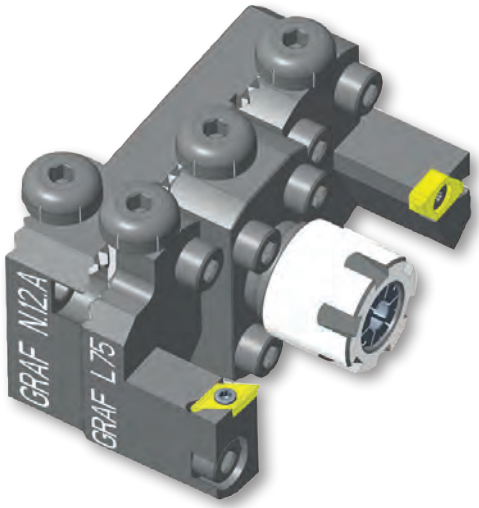
N.11.B
注文No. /Order-Number 12-0053

加工用途：**背面加工**
Range of application **back working**



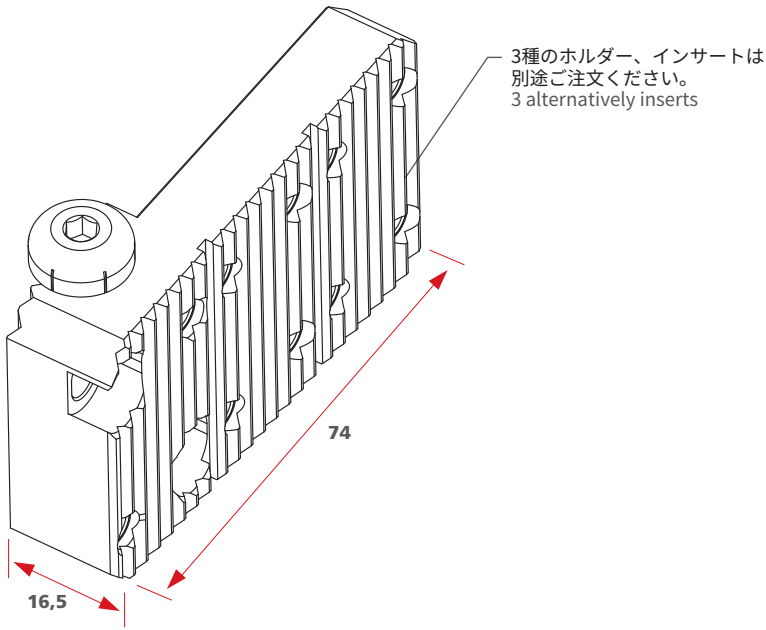
2種のホルダー、インサートは
別途ご注文ください。
2 alternatively inserts

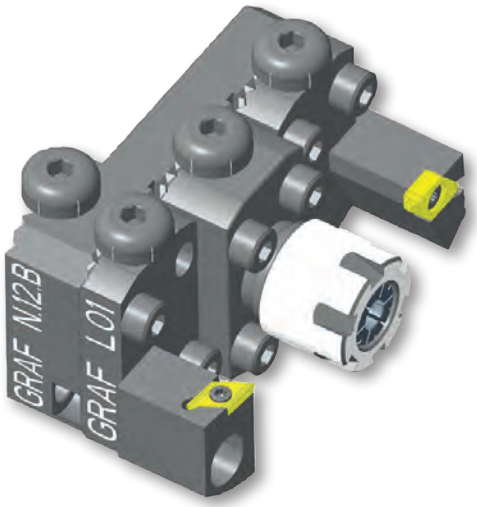
適用 ベーシックホルダー For basic holder	G.022.025.S3
	G.022.025.SR32
	G.025.060
	G.028.006
	G.032.25.H5
	G.033.035.H3
	G.016.021.SR10
	G.025.040
	G.032.040.H5
	G.032.030
	G.022.020.SR10
	G.022.024.S2
	G.023.030.H2
	G.028.015
	G.025.020



N.12.A
注文No. /Order-Number 12-0509

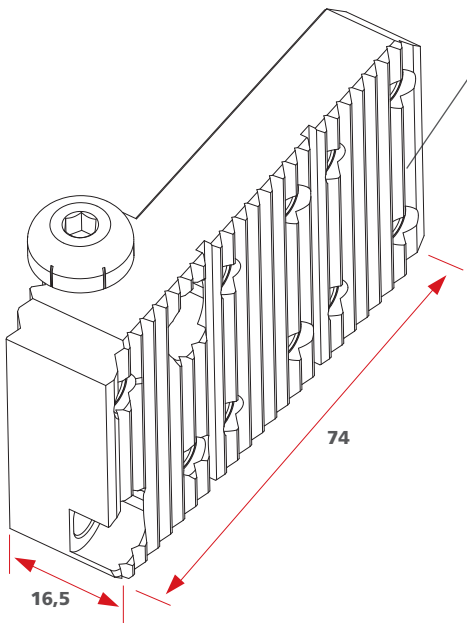
加工用途：**背面加工**
Range of application **back working**





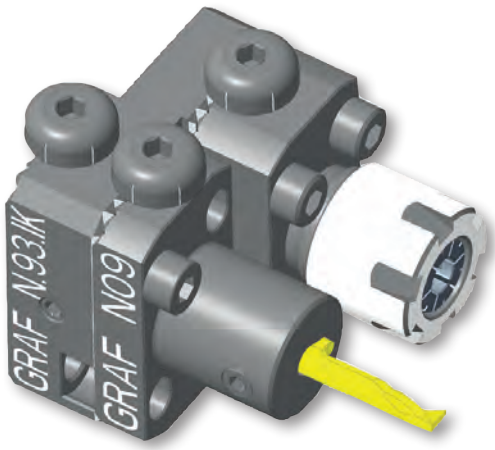
N.12.B
注文No. /Order-Number 12-0510

加工用途：**背面加工**
Range of application **back working**



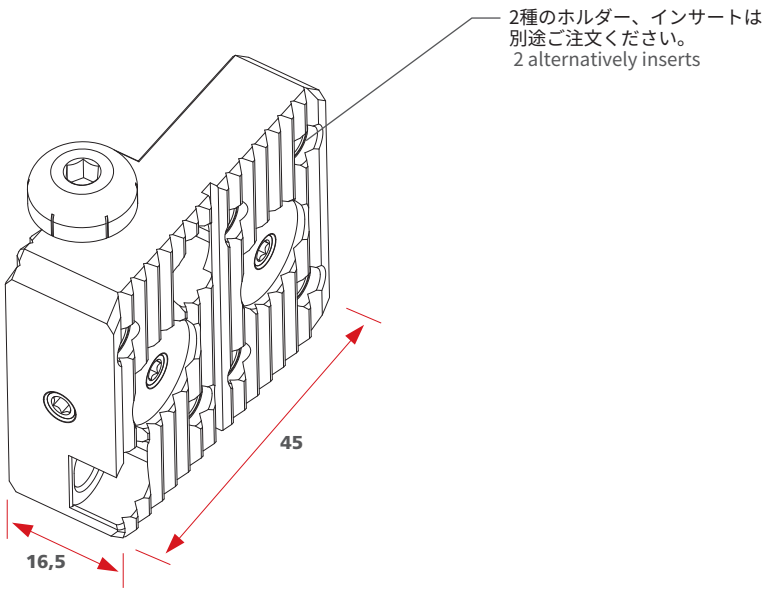
3種のホルダー、インサートは
別途ご注文ください。
3 alternatively inserts

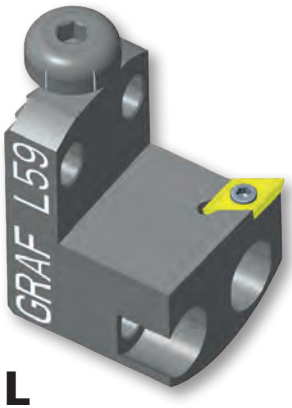
適用 ベーシックホルダー For basic holder	G.022.025.S3
	G.022.025.SR32
	G.025.060
	G.028.006
	G.032.25.H5
	G.033.35.H3
	G.016.021.SR10
	G.025.040
	G.032.040.H5
	G.032.030
	G.022.020.SR10
	G.022.024.S2
	G.023.030.H2
	G.028.015
	G.025.020



N.93.IK
注文No. /Order-Number 12-0528

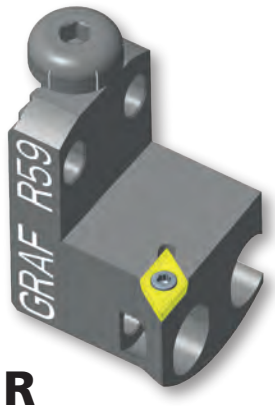
加工用途：**背面加工**
Range of application **back working**





L
左勝手
cutting left

L.59
注文No. /Order-Number 12-0477

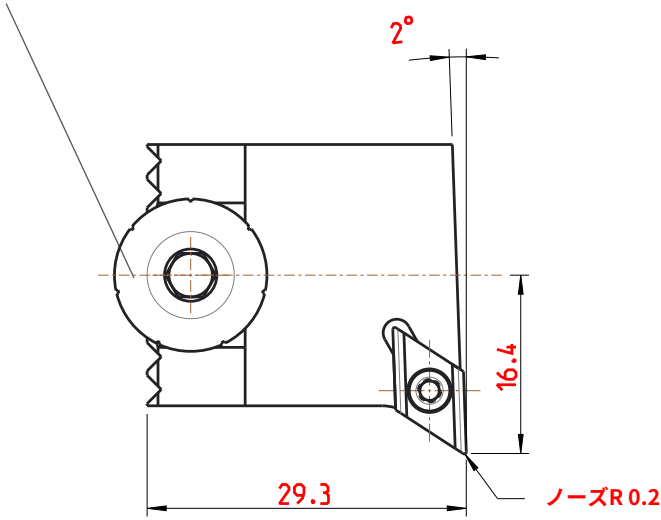


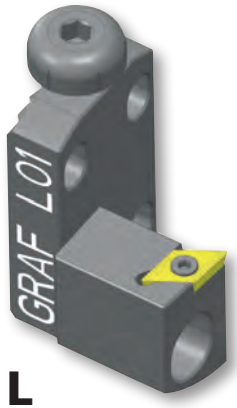
R
右勝手
cutting right

R.59
注文No. /Order-Number 12-0476

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC..07 02..**	**001.01.01**



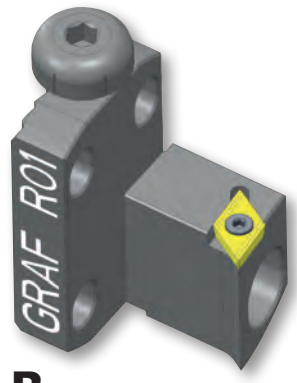


L

左勝手
cutting left

L.01

注文No. /Order-Number **12-0023**



R

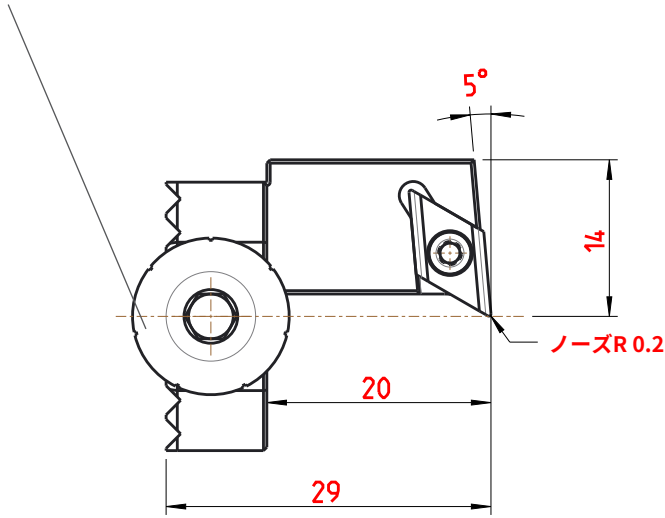
右勝手
cutting right

R.01

注文No. /Order-Number **12-0022**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 07 02..**	**001.01.01**



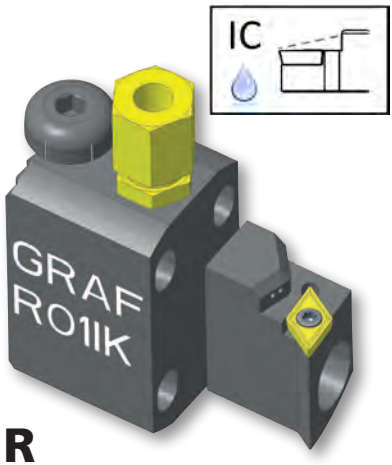


L

左勝手
cutting left

L.01.IK

注文No. /Order-Number **12-0161**



R

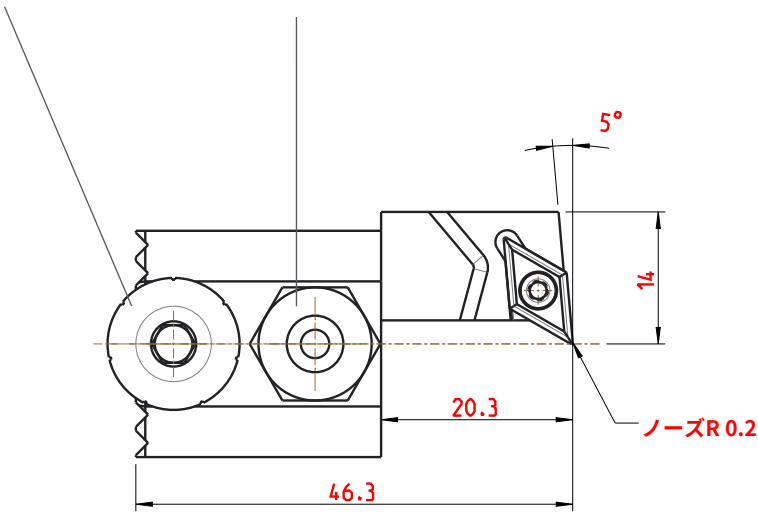
右勝手
cutting right

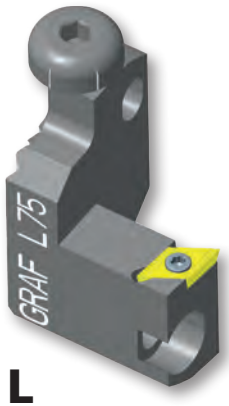
R.01.IK

注文No. /Order-Number **12-0160**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**DC.. 07 02 ..**	**001.01.01**



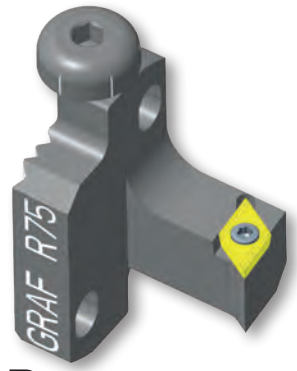


L

左勝手
cutting left

L.75

注文No. /Order-Number **12-0067**



R

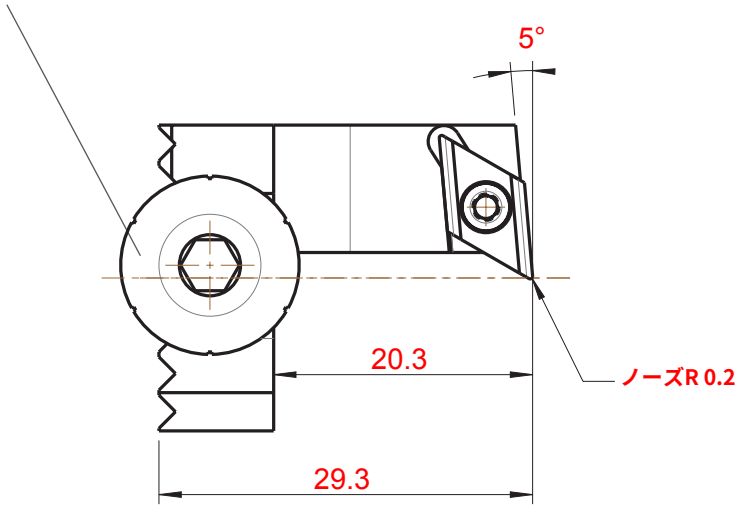
右勝手
cutting right

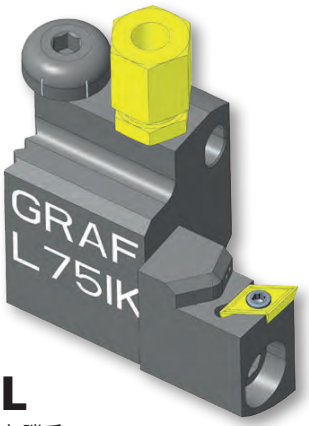
R.75

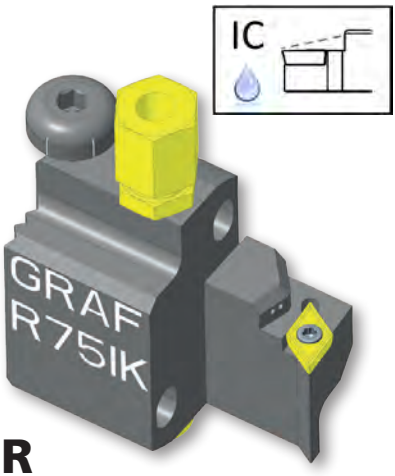
注文No. /Order-Number **12-0066**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 07 02 ..**	**001.01.01**







L
左勝手
cutting left

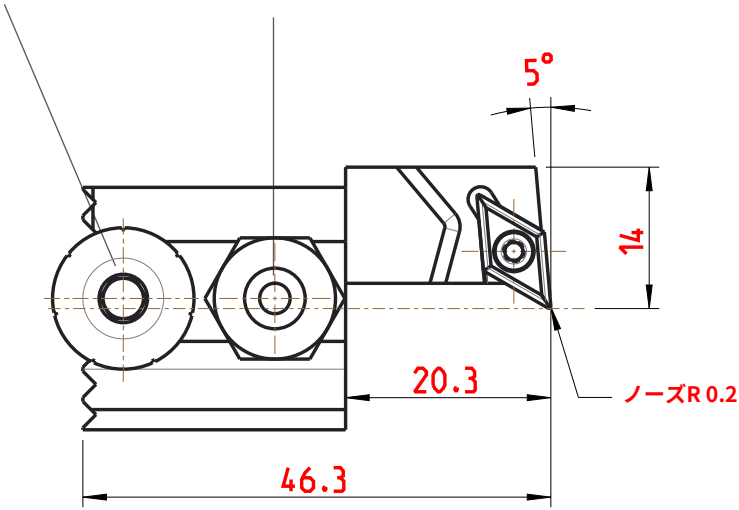
R
右勝手
cutting right

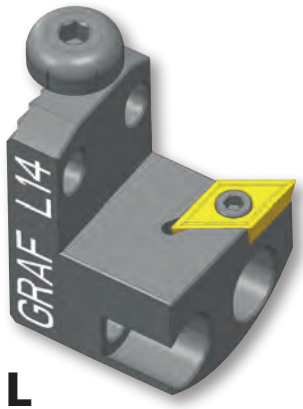
L.75.IK
注文No. /Order-Number 12-1381

R.75.IK
注文No. /Order-Number 12-1380

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**DC.. 07 02 ..**	**001.01.01**



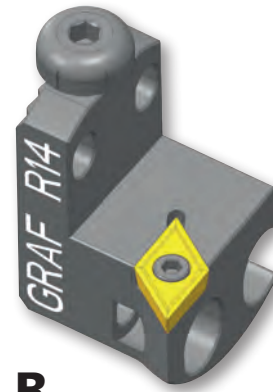


L

左勝手
cutting left

L.14

注文No. /Order-Number **12-0042**



R

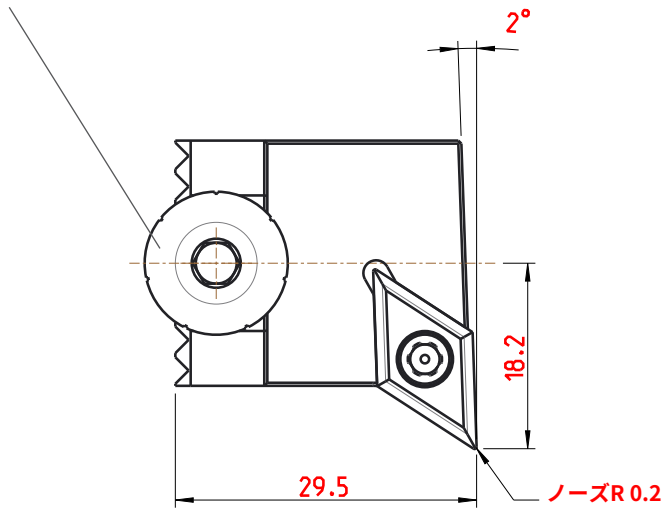
右勝手
cutting right

R.14

注文No. /Order-Number **12-0041**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 11 T3 ..**	**001.01.13**







L
左勝手
cutting left

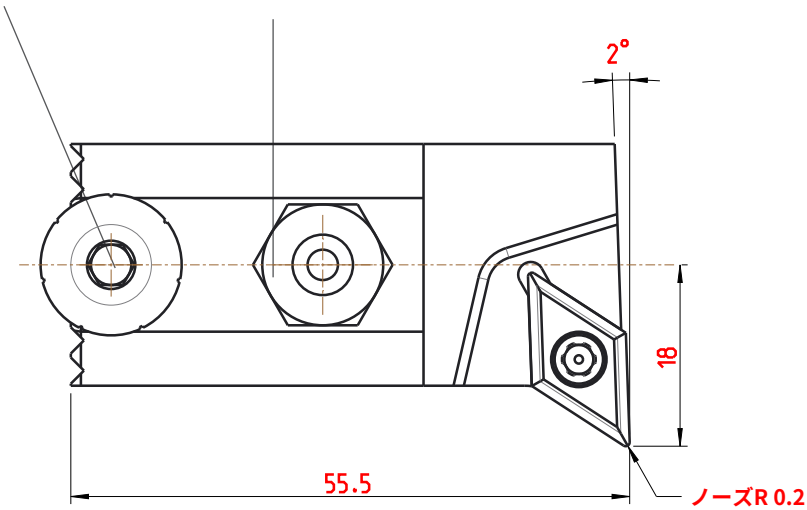
R
右勝手
cutting right

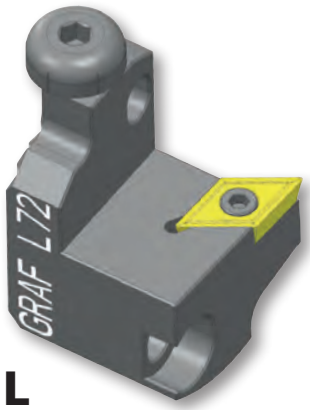
L.14.IK
注文No. /Order-Number **12-0143**

R.14.IK
注文No. /Order-Number **12-0142**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	004.00.19	DC.. 11 T3 ..	001.01.13



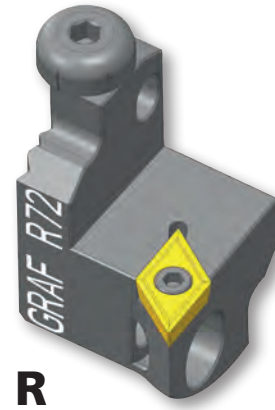


L

左勝手
cutting left

L.72

注文No. /Order-Number **12-0064**



R

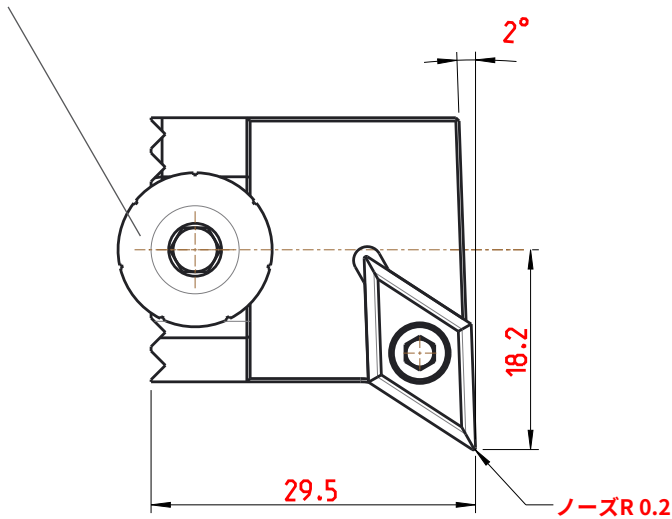
右勝手
cutting right

R.72

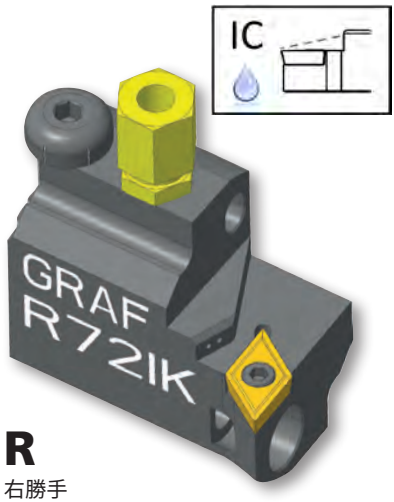
注文No. /Order-Number **12-0063**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 11 T3 ..**	**001.01.13**







L
左勝手
cutting left

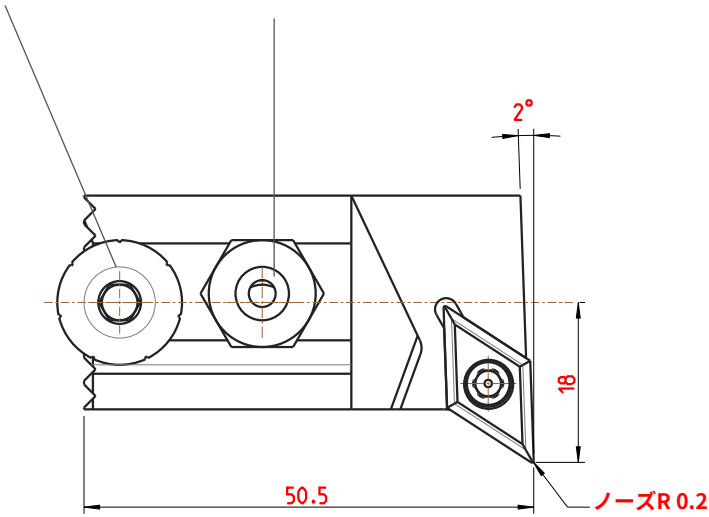
R
右勝手
cutting right

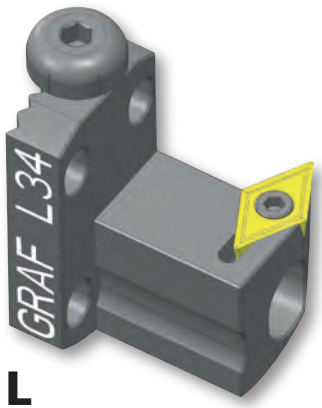
L.72.IK
注文No. /Order-Number **12-1167**

R.72.IK
注文No. /Order-Number **12-1166**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**DC.. 11 T3 ..**	**001.01.13**



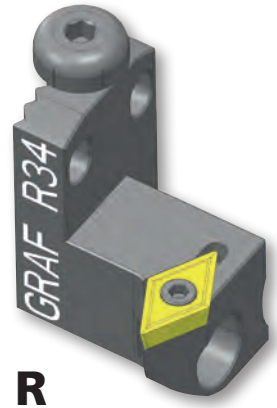


L

左勝手
cutting left

L.34

注文No. /Order-Number **12-1017**



R

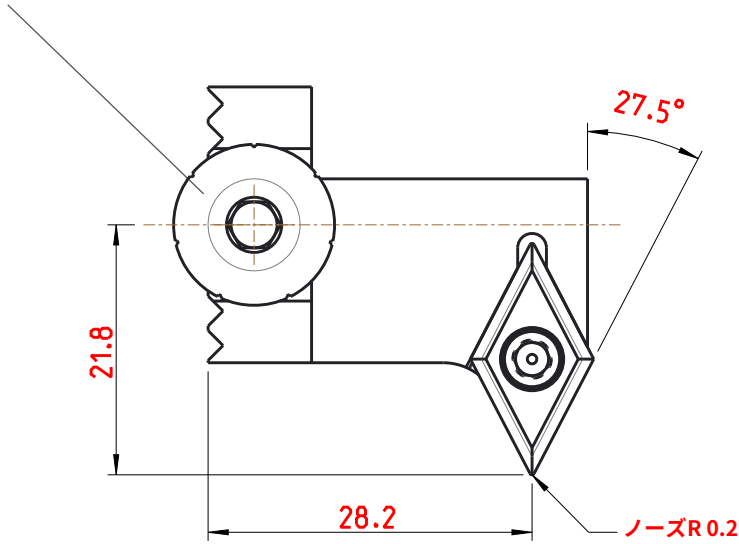
右勝手
cutting right

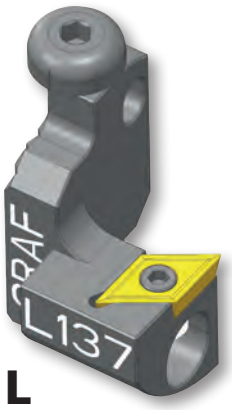
R.34

注文No. /Order-Number **12-1016**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 11 T3 ..**	**001.01.15**



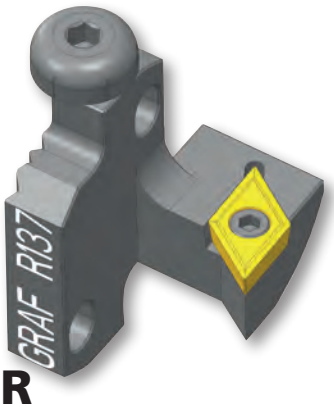


L

左勝手
cutting left

L.137

注文No. /Order-Number 12-1161



R

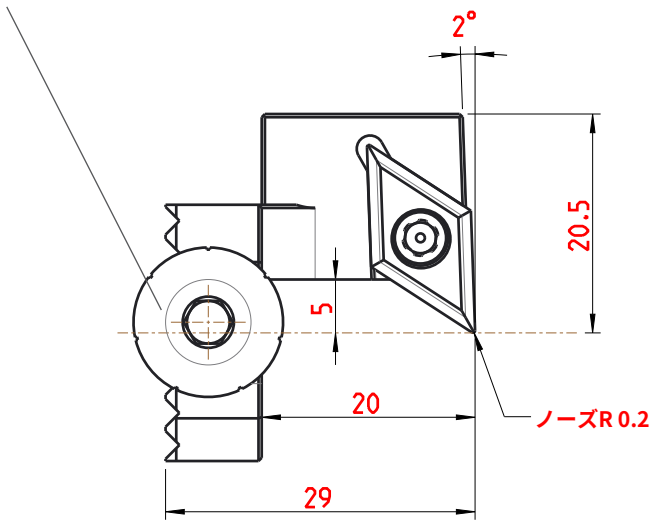
右勝手
cutting right

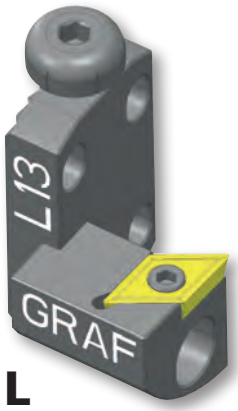
R.137

注文No. /Order-Number 12-1160

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC..11 T3..**	**001.01.15**



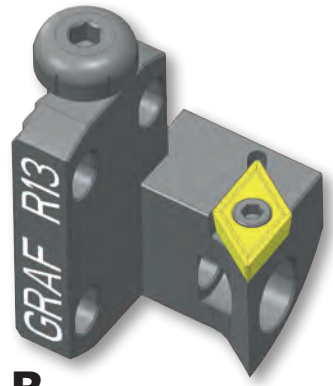


L

左勝手
cutting left

L.13

注文No. /Order-Number **12-0040**



R

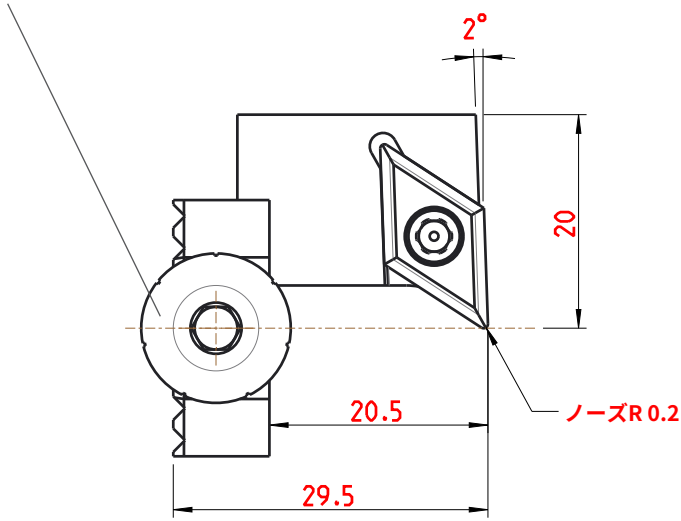
右勝手
cutting right

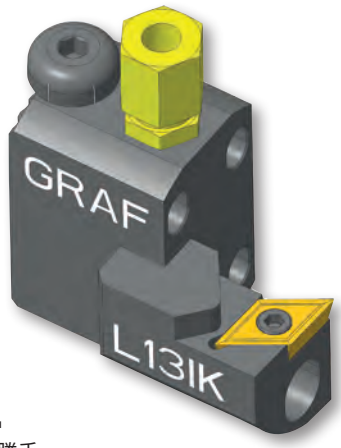
R.13

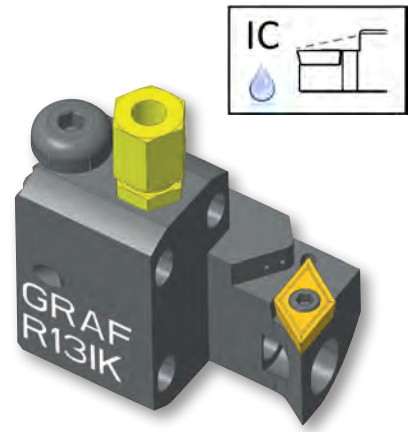
注文No. /Order-Number **12-0039**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 11 T3 ..**	**001.01.13**







L
左勝手
cutting left

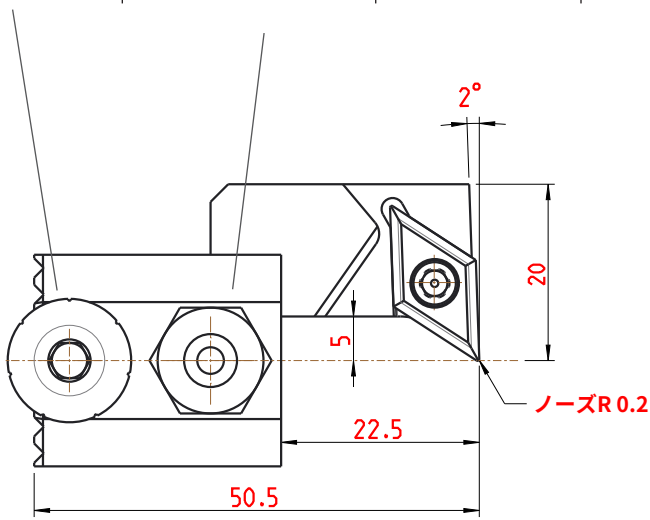
L.13.IK
注文No./Order-Number 12-1213

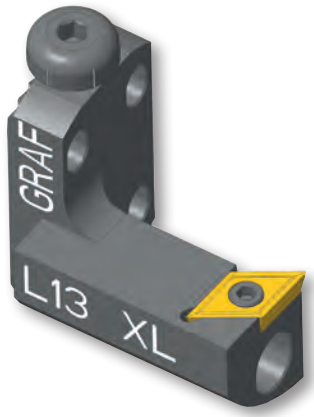
R
右勝手
cutting right

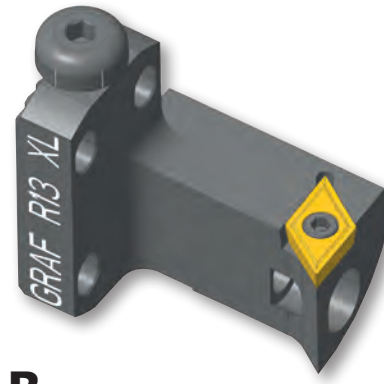
R.13.IK
注文No./Order-Number 12-1212

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**DC.. 11 T3 ..**	**001.01.13**







L
左勝手
cutting left

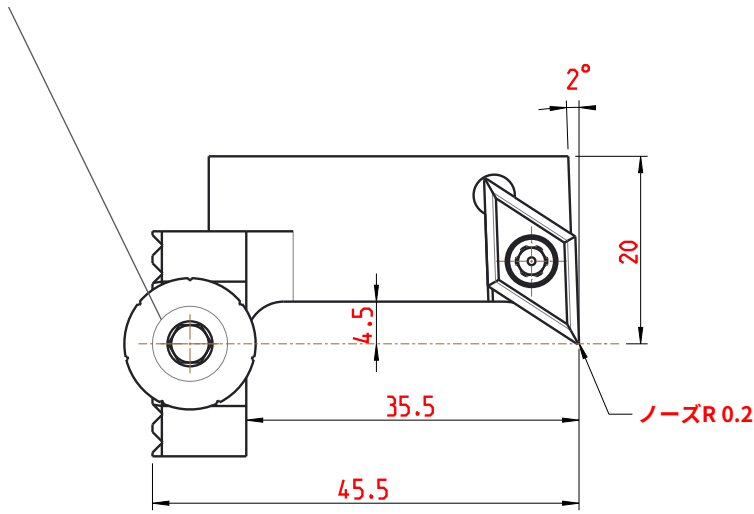
L.13.XL
注文No./Order-Number **12-1308**

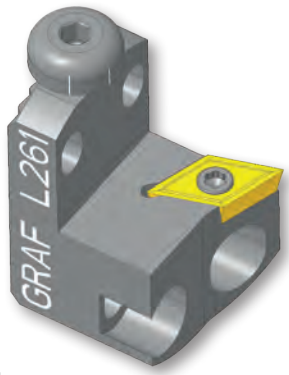
R
右勝手
cutting right

R.13.XL
注文No./Order-Number **12-1307**

加工用途： **倣い加工**
Range of application **copy turning**

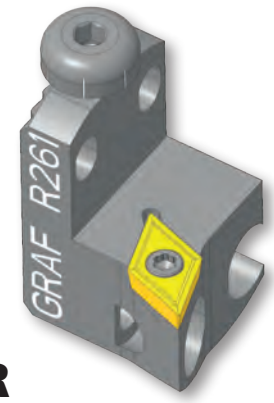
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 11 T3 ..**	**001.01.13**





L
左勝手
cutting left

L.261
注文No./Order-Number 12-1510

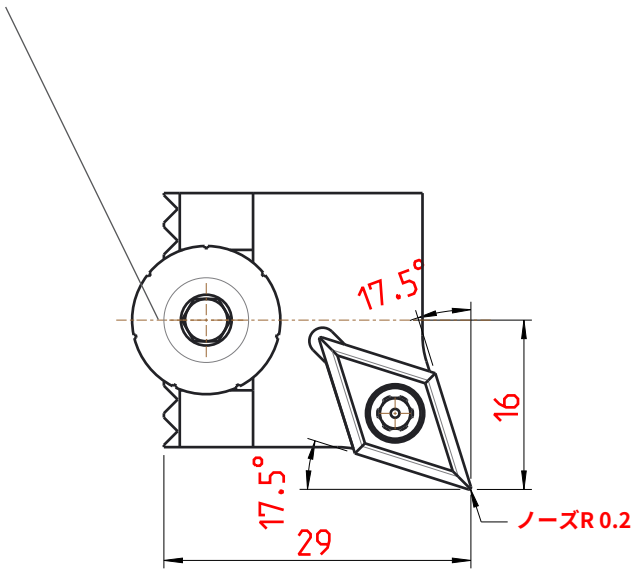


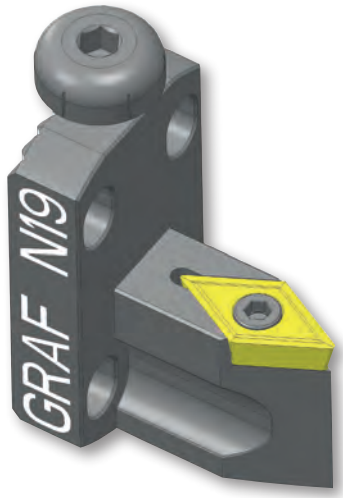
R
右勝手
cutting right

R.261
注文No./Order-Number 12-1509

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 11 T3 ..**	**001.01.13**



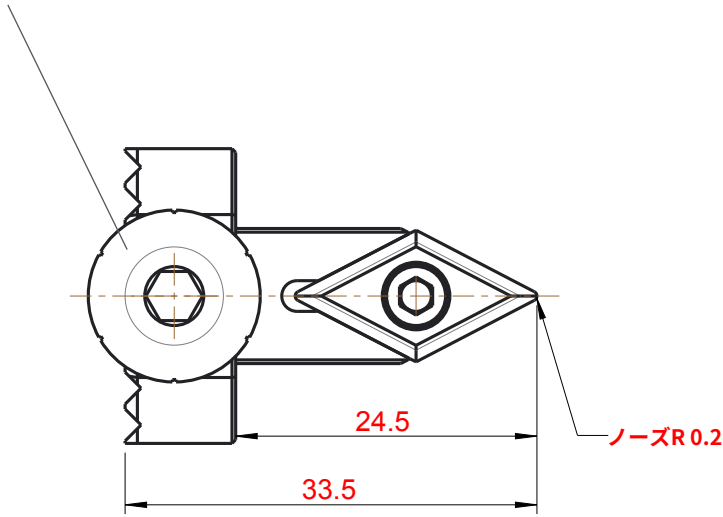


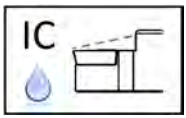
N.19

注文No. /Order-Number **12-0049**

加工用途： **端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**DC.. 11 T3 ..**	**001.01.15**





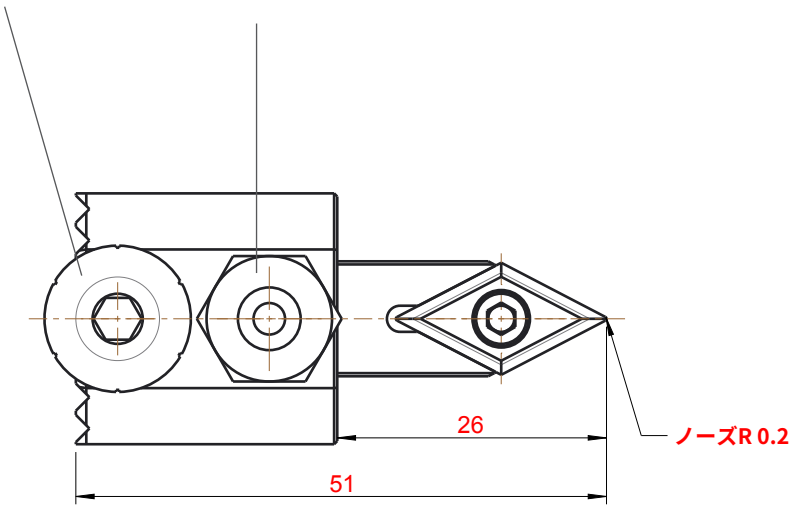


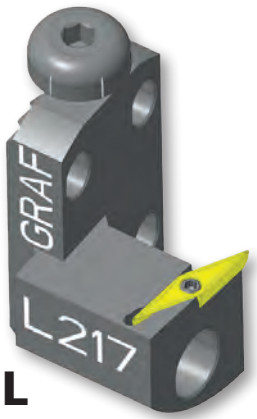
N.19.IK

注文No. /Order-Number **12-0052**

加工用途： **倣い加工**
Range of application **face grooving**

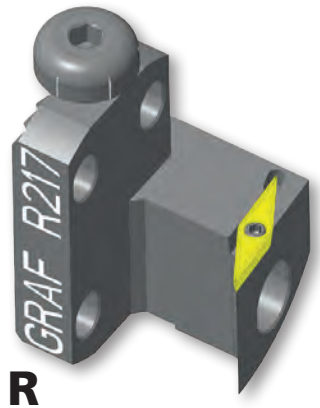
芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**DC.. 11 T3 ..**	**001.01.15**





L

左勝手
cutting left



R

右勝手
cutting left

L.217

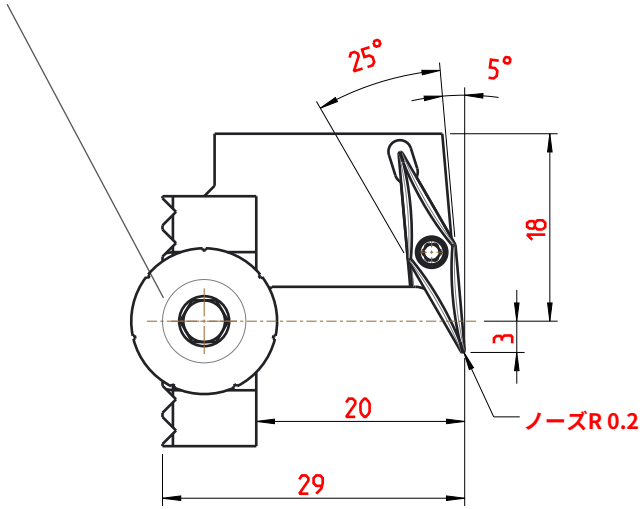
注文No./Order-Number **12-1357**

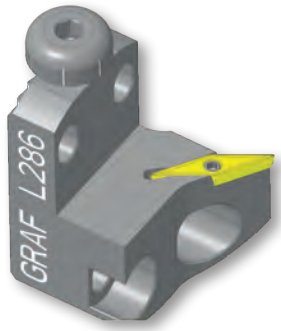
R.217

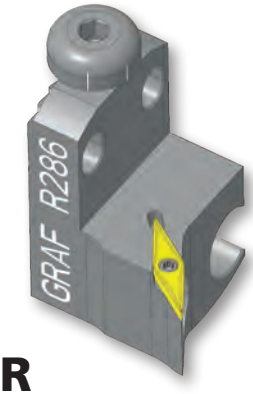
注文No./Order-Number **12-1356**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**YW.. 11 T2 ..**	**001.01.25**







L
左勝手
cutting left

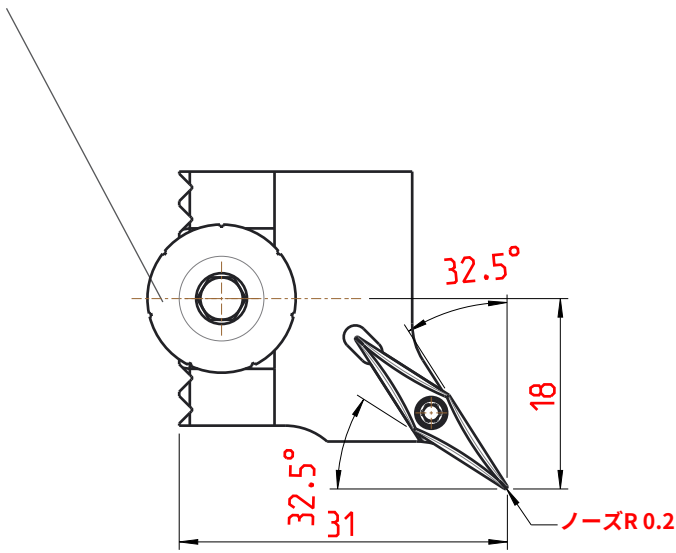
R
右勝手
cutting left

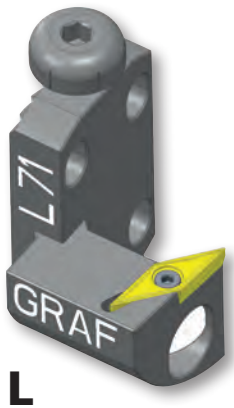
L.286
注文No./Order-Number **12-1689**

R.286
注文No./Order-Number **12-1596**

加工用途： **倣い加工**
Range of application **copy turning**

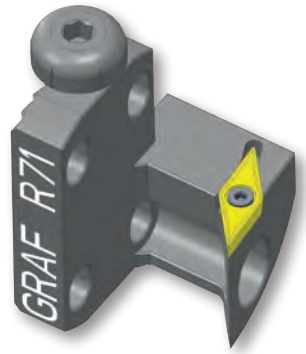
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**YW.. 11 T2 ..**	**001.01.25**





L

左勝手
cutting left



R

右勝手
cutting left

L.71

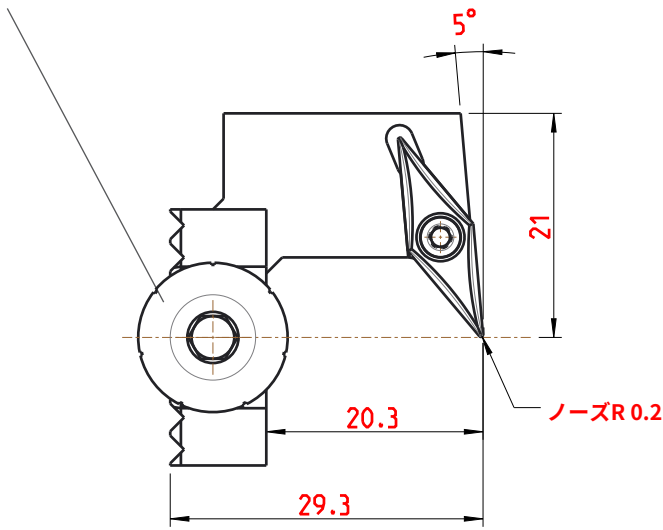
注文No./Order-Number **12-0061**

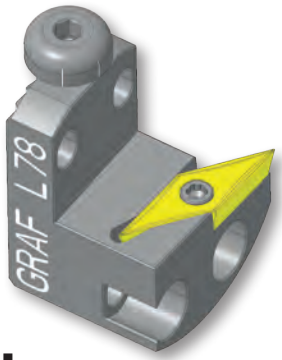
R.71

注文No./Order-Number **12-0060**

加工用途： **倣い加工**
Range of application **copy turning**

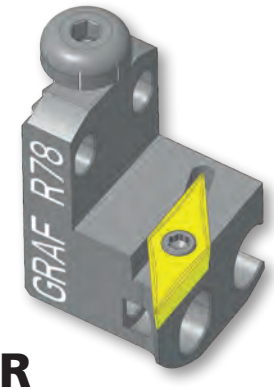
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VB.. 11 03..**	**001.01.01**





L
左勝手
cutting left

L.78
注文No./Order-Number **12-1210**

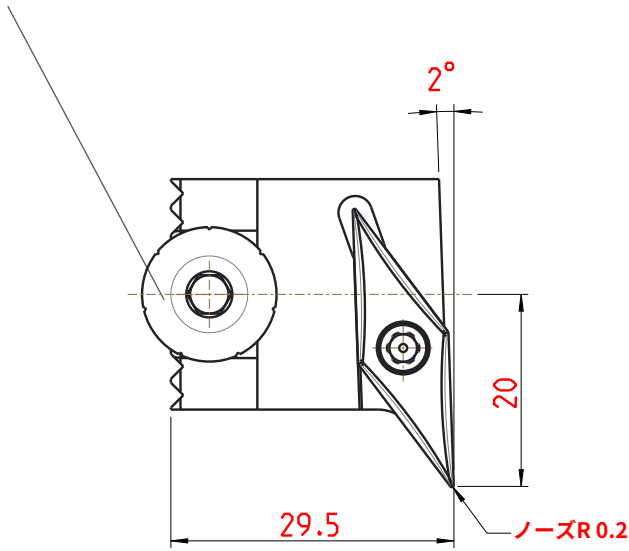


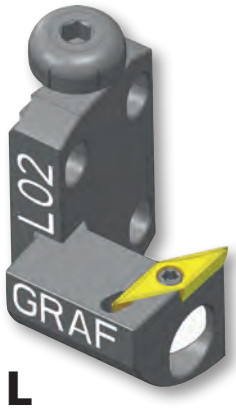
R
右勝手
cutting left

R.78
注文No./Order-Number **12-1247**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VB.. 16 04..**	**001.01.15**





L

左勝手
cutting left

L.02

注文No./Order-Number **12-0025**



R

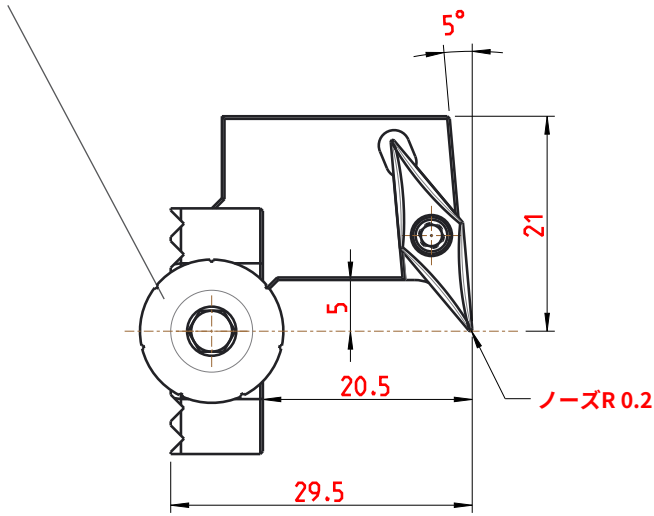
右勝手
cutting right

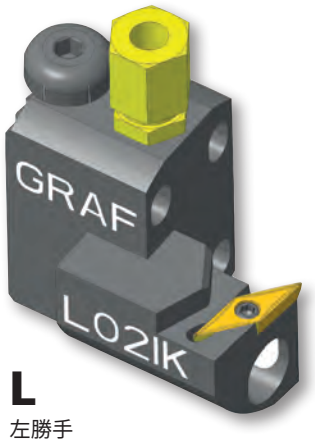
R.02

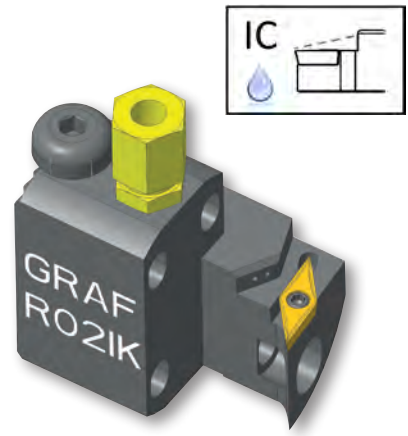
注文No./Order-Number **12-0024**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**







L
左勝手
cutting left

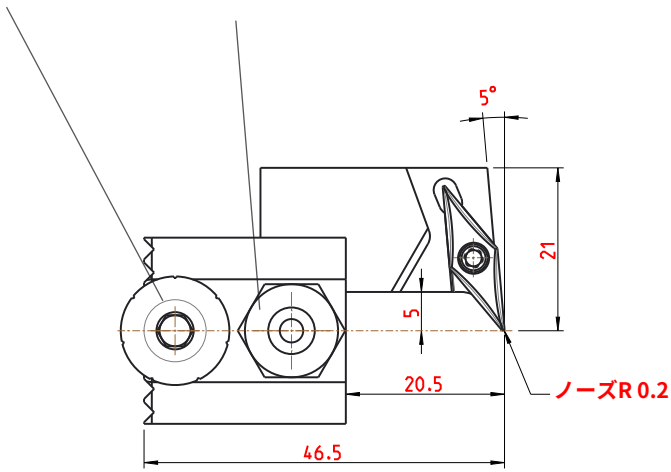
R
右勝手
cutting right

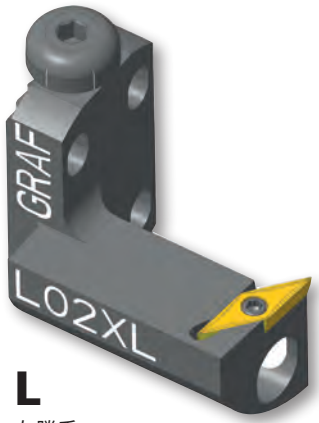
L.02.IK
注文No./Order-Number **12-1310**

R.02.IK
注文No./Order-Number **12-1309**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	004.00.19	VC.. 11 03..	001.01.08



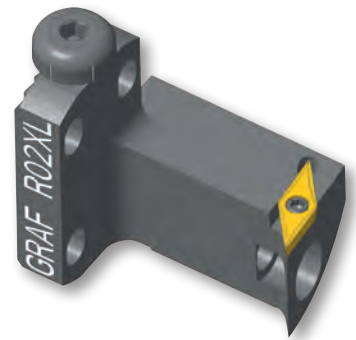


L

左勝手
cutting left

L.02.XL

注文No./Order-Number 12-1312



R

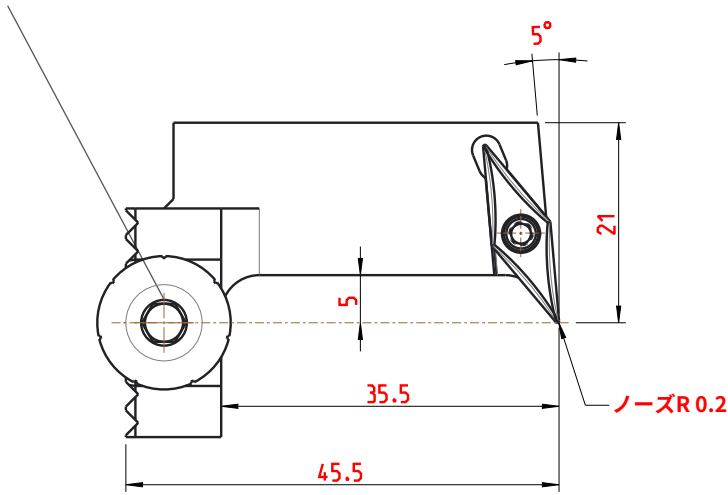
右勝手
cutting right

R.02.XL

注文No./Order-Number 12-1311

加工用途： **倣い加工**
Range of application **copy turning**

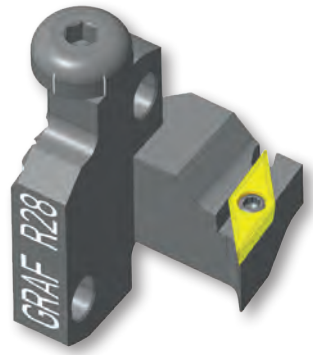
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**





L
左勝手
cutting left

L.28
注文No./Order-Number 12-1383

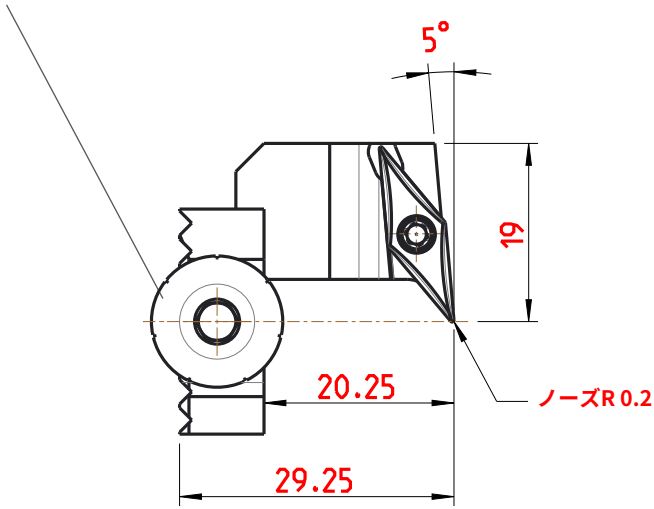


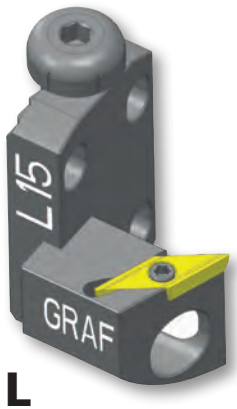
R
右勝手
cutting right

R.28
注文No./Order-Number 12-1382

加工用途： 倣い加工
Range of application **copy turning**

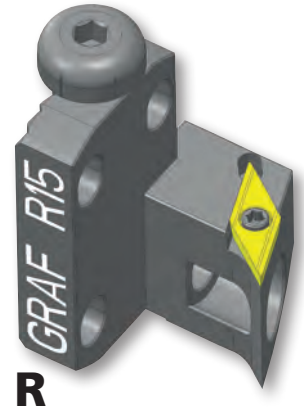
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**





L

左勝手
cutting left



R

右勝手
cutting right

L.15

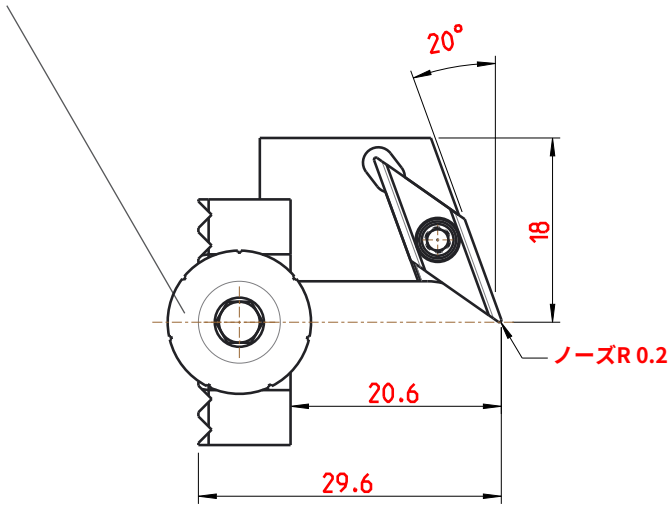
注文No./Order-Number **12-0044**

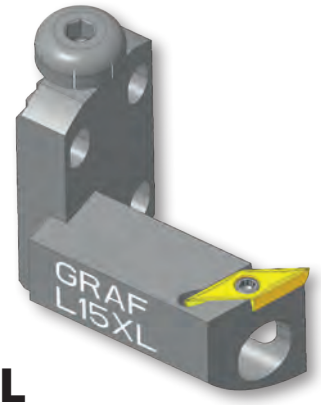
R.15

注文No./Order-Number **12-0043**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**



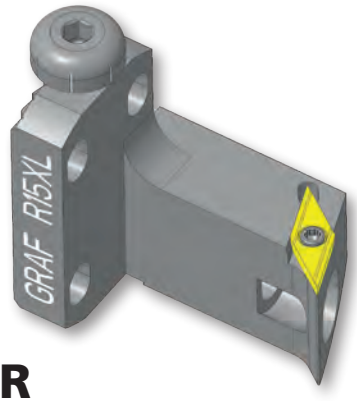


L

左勝手
cutting left

L.15.XL

注文No./Order-Number 12-1486



R

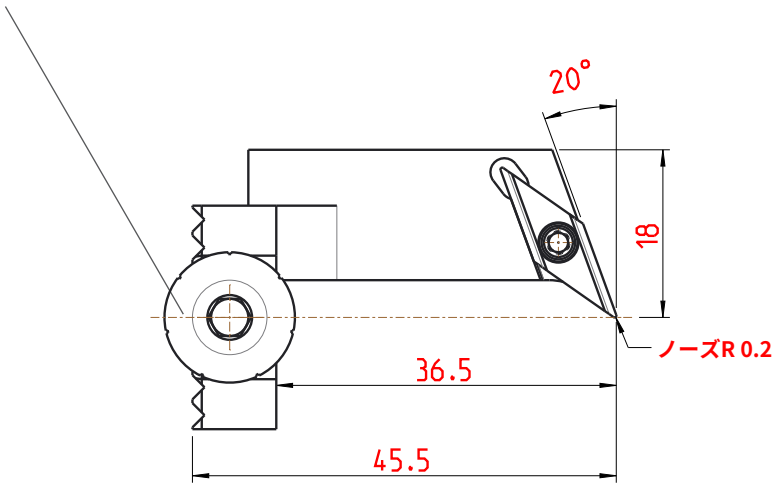
右勝手
cutting right

R.15.XL

注文No./Order-Number 12-1485

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**



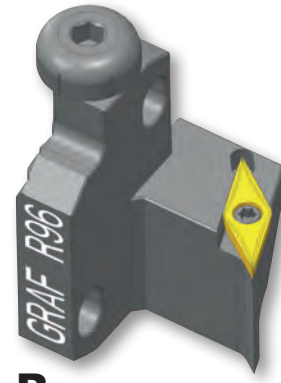


L

左勝手
cutting left

L.96

注文No./Order-Number **12-0092**



R

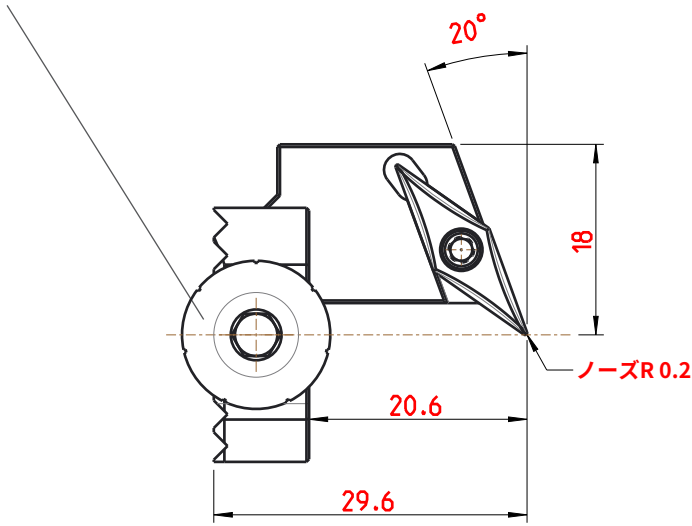
右勝手
cutting right

R.96

注文No./Order-Number **12-0082**

加工用途： **倣い加工**
Range of application **copy turning**

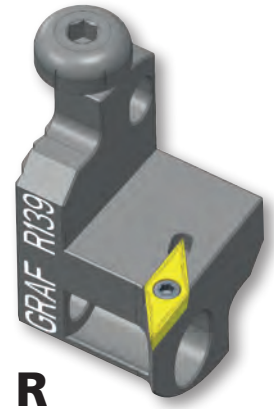
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**





L
左勝手
cutting left

L.139
注文No./Order-Number **12-1165**

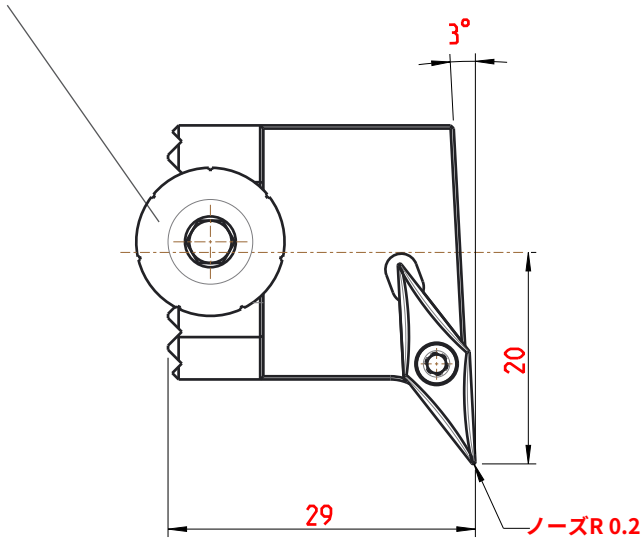


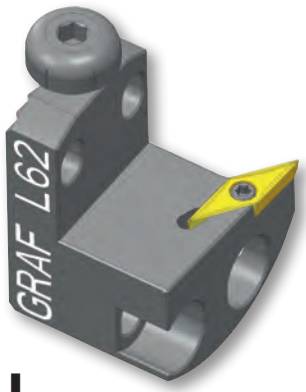
R
右勝手
cutting right

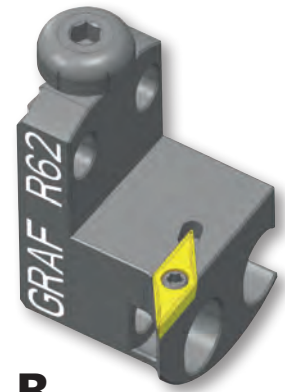
R.139
注文No./Order-Number **12-1164**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**







L

左勝手
cutting left

L.62

注文No./Order-Number **12-0500**

R

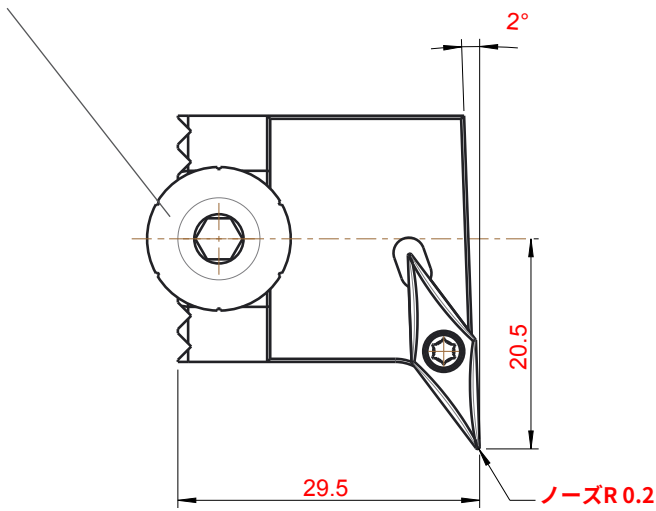
右勝手
cutting right

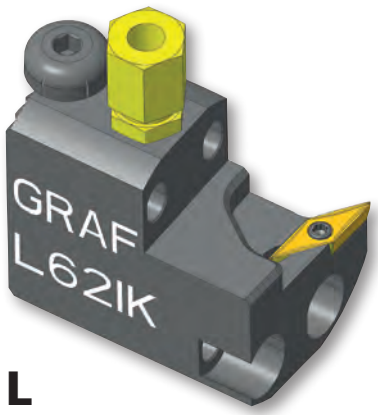
R.62

注文No./Order-Number **12-0484**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03..**	**001.01.08**





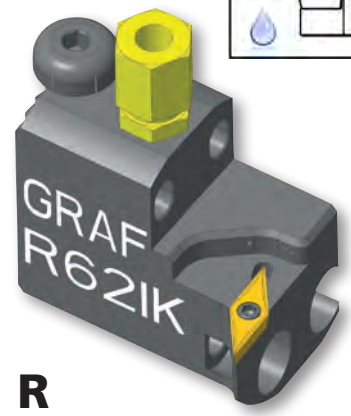
L

左勝手
cutting left

L.62.IK

注文No./Order-Number **12-0530**





R

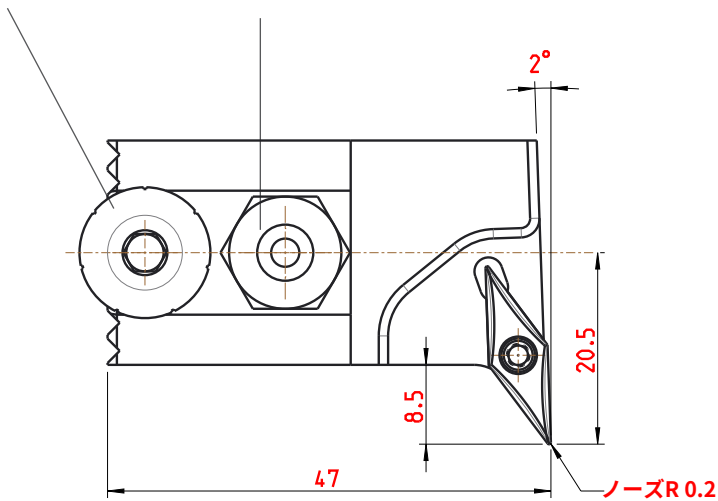
右勝手
cutting right

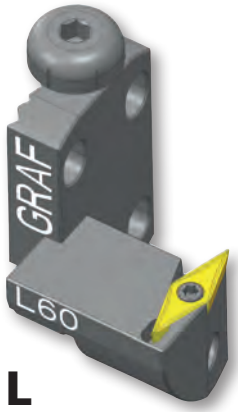
R.62.IK

注文No./Order-Number **12-0529**

加工用途： **倣い加工**
Range of application **copy turning**

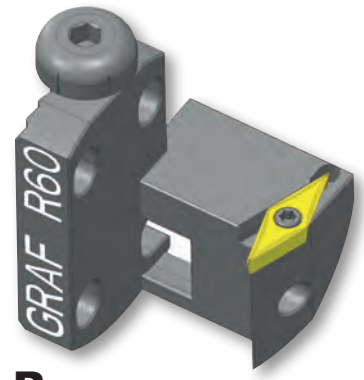
芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**VC.. 11 03 ..**	**001.01.08**





L
左勝手
cutting left

L.60
注文No./Order-Number **12-1149**

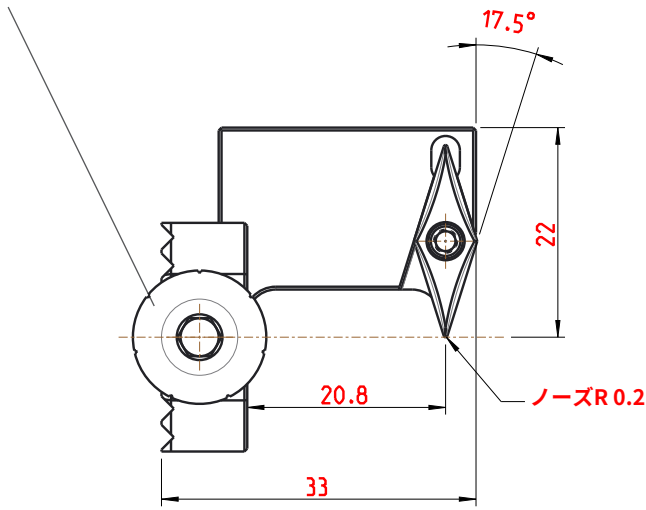


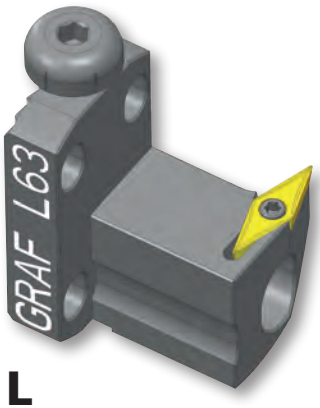
R
右勝手
cutting right

R.60
注文No./Order-Number **12-0482**

加工用途： **倣い加工**
Range of application **copy turning**

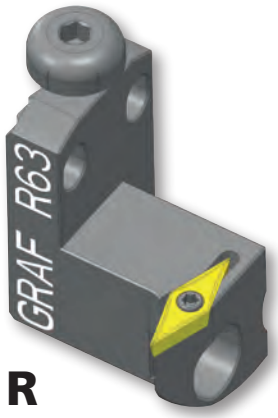
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03 ..**	**001.01.08**





L
左勝手
cutting left

L.63
注文No./Order-Number **12-0086**

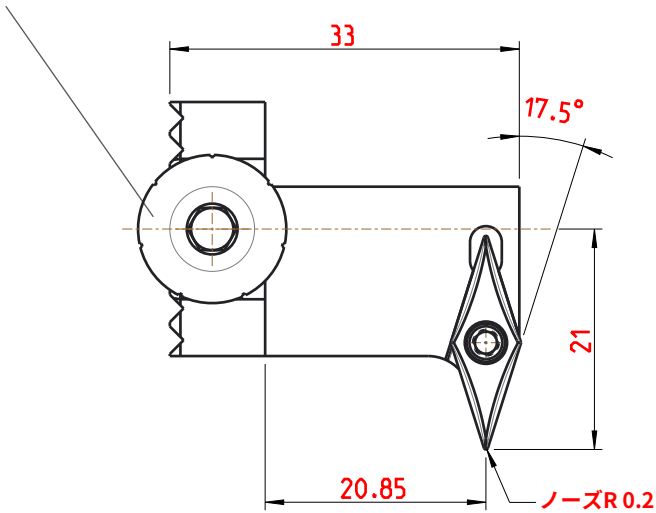


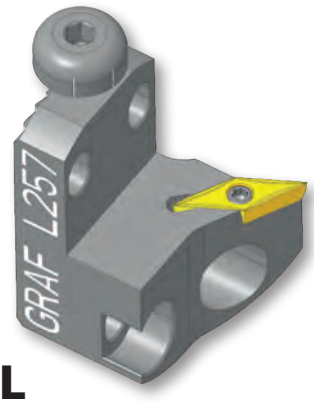
R
右勝手
cutting right

R.63
注文No./Order-Number **12-0485**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03 ..**	**001.01.08**



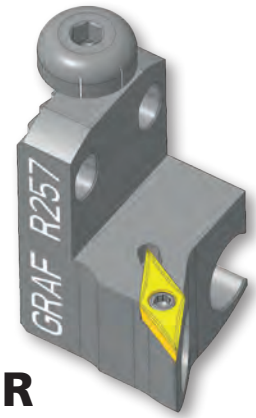


L

左勝手
cutting left

L.257

注文No./Order-Number **12-1499**



R

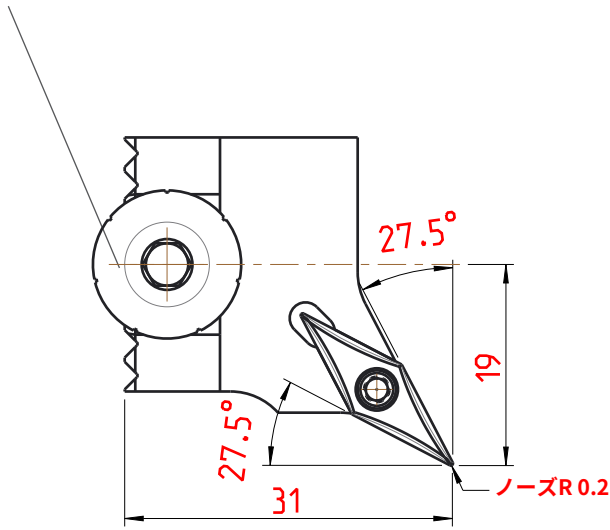
右勝手
cutting right

R.257

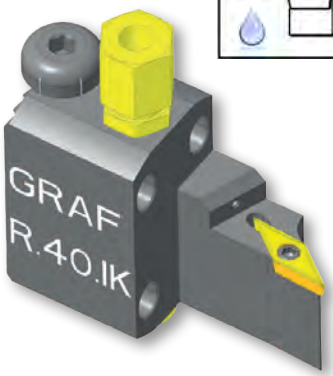
注文No./Order-Number **12-1498**

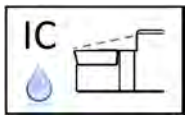
加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 11 03 ..**	**001.01.08**









L
左勝手
cutting left

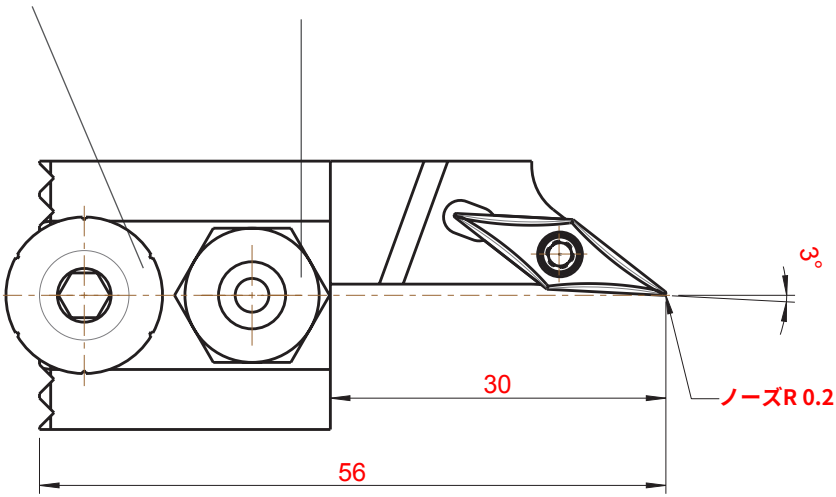
L.40.IK
注文No./Order-Number **12-1431**

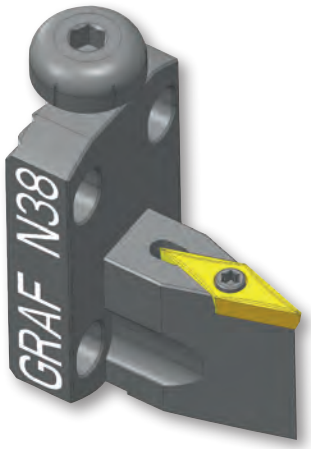
R
右勝手
cutting right

R.40.IK
注文No./Order-Number **12-1430**

加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**VC.. 11 03 ..**	**001.01.08**



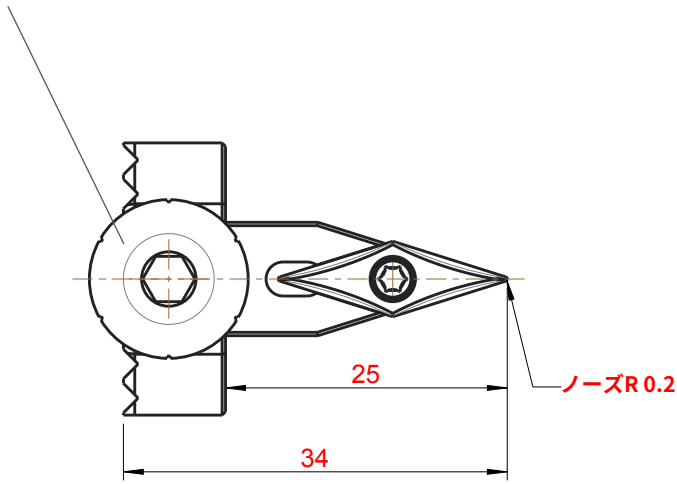


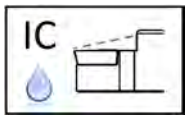
N.38

注文No./Order-Number 12-0478

加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC..11 03..**	**001.01.08**





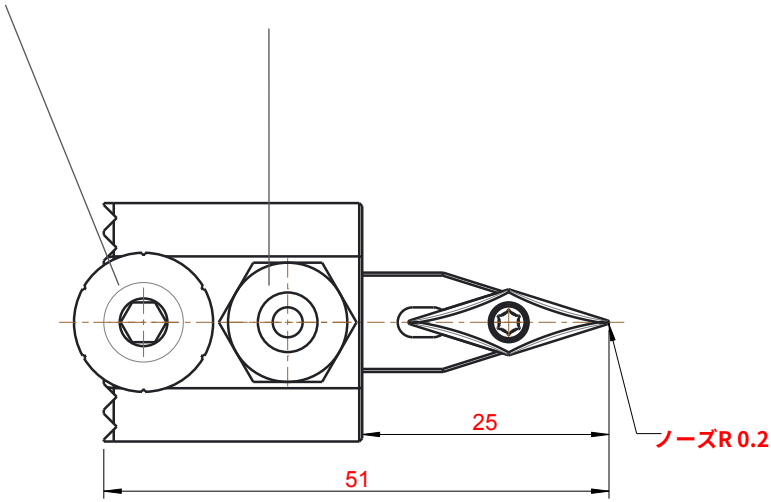


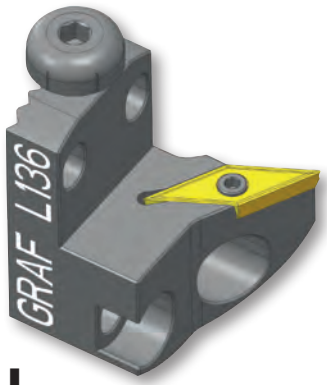
N.38.IK

注文No./Order-Number 12-0480

加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**VC.. 11 03 ..**	**001.01.08**





L

左勝手
cutting left

L.136

注文No./Order-Number **12-1159**



R

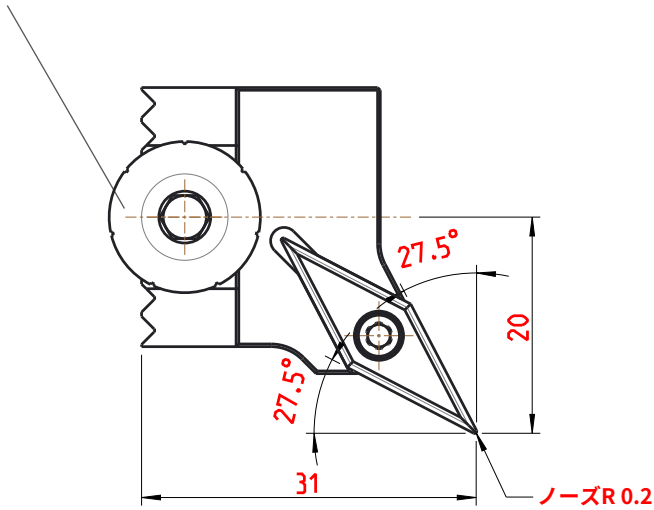
右勝手
cutting right

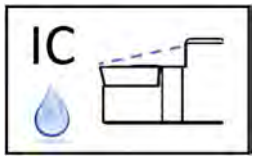
R.136

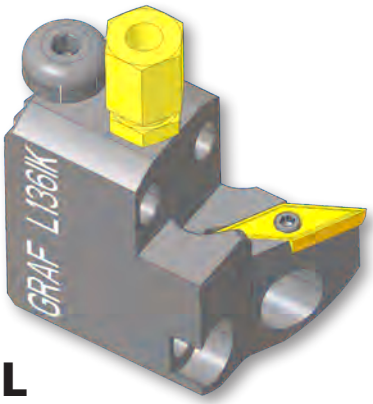
注文No./Order-Number **12-1074**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 13 03..**	**001.01.07**

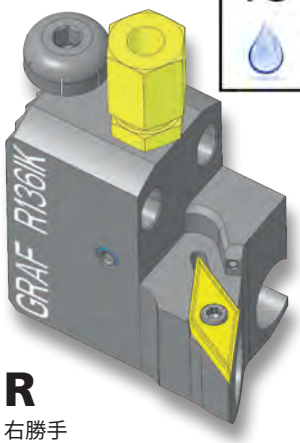






L
左勝手
cutting left

L.136.IK
注文No./Order-Number **12-1504**

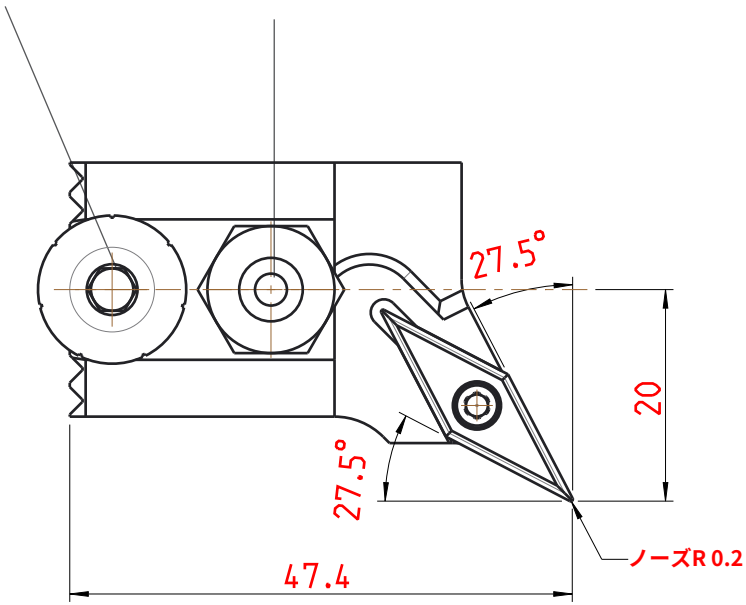


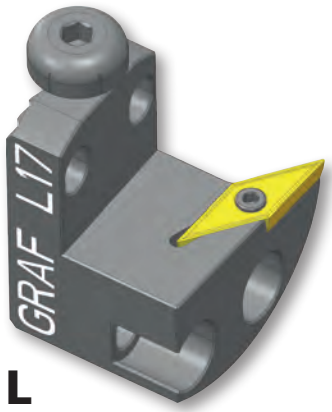
R
右勝手
cutting right

R.136.IK
注文No./Order-Number **12-1503**

加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**VC.. 13 03 ..**	**001.01.07**



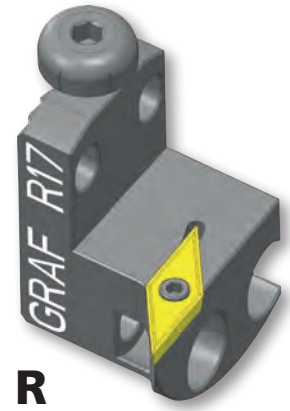


L

左勝手
cutting left

L.17

注文No./Order-Number **12-0378**



R

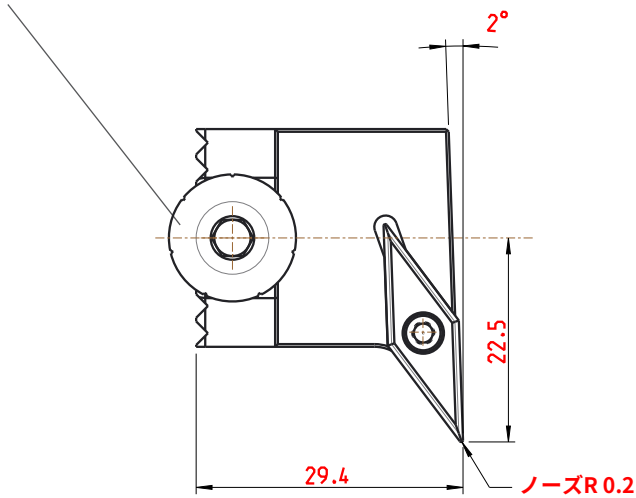
右勝手
cutting right

R.17

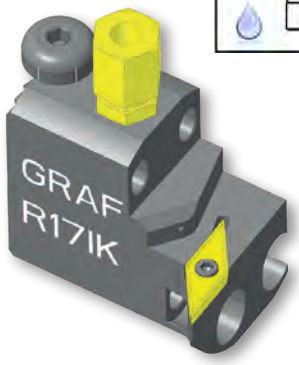
注文No./Order-Number **12-0377**

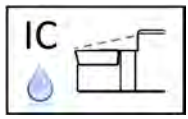
加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 13 03 ..**	**001.01.07**









L
左勝手
cutting left

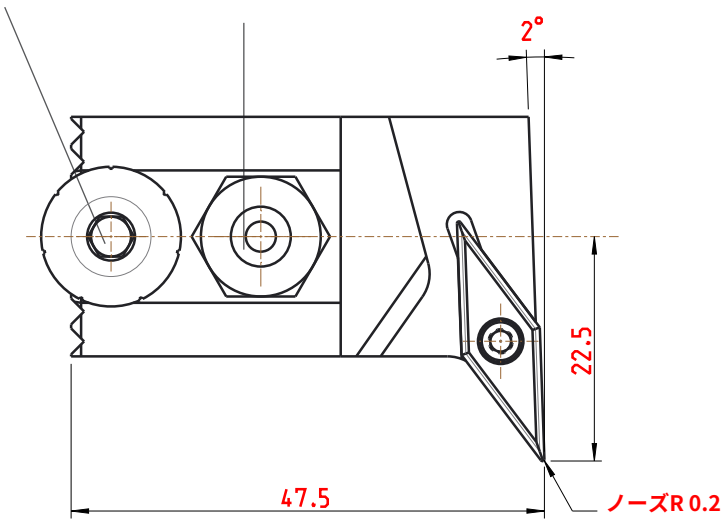
L.17.IK
注文No./Order-Number 12-0146

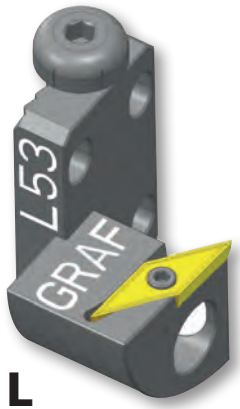
R
右勝手
cutting right

R.17.IK
注文No./Order-Number 12-0145

加工用途： **倣い加工**
Range of application **copy turning**

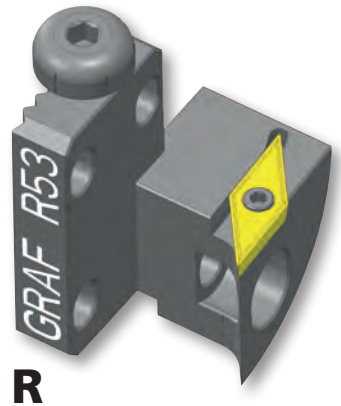
芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**VC.. 13 03..**	**001.01.07**





L

左勝手
cutting left



R

右勝手
cutting right

L.53

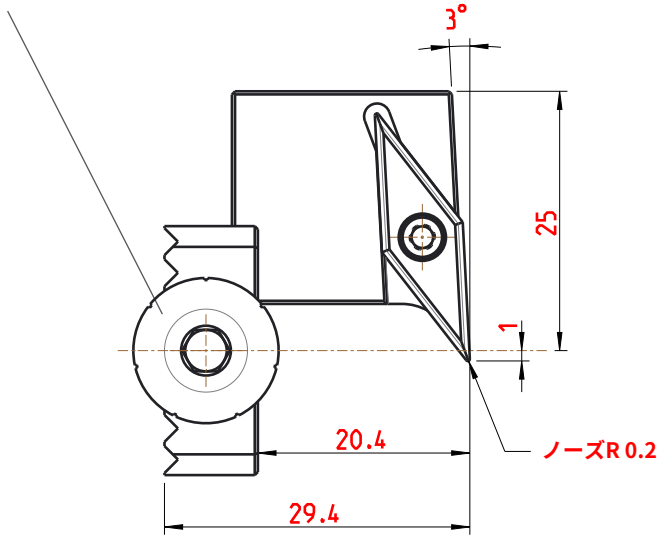
注文No./Order-Number **12-0335**

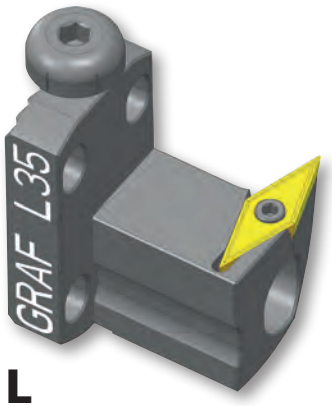
R.53

注文No./Order-Number **12-0333**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 13 03..**	**001.01.07**



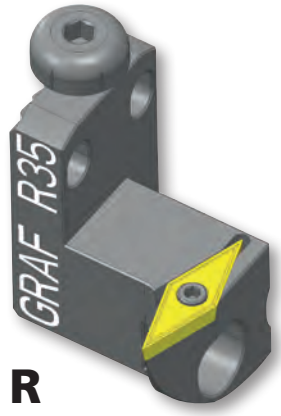


L

左勝手
cutting left

L.35

注文No./Order-Number **12-0344**



R

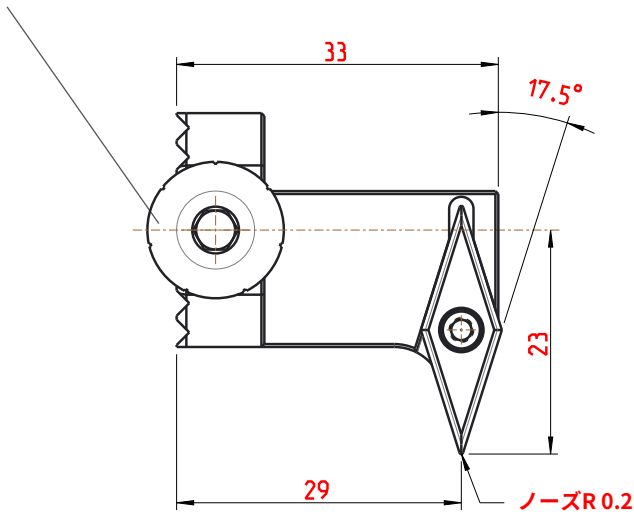
右勝手
cutting right

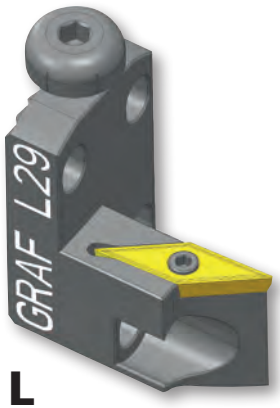
R.35

注文No./Order-Number **12-0330**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 13 03 ..**	**001.01.07**



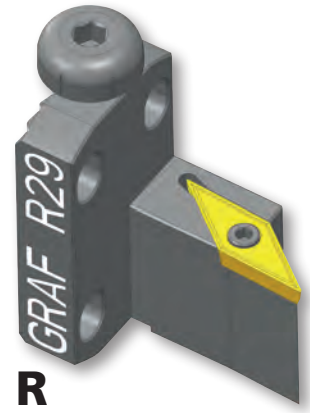


L

左勝手
cutting left

L.29

注文No./Order-Number **12-0262**



R

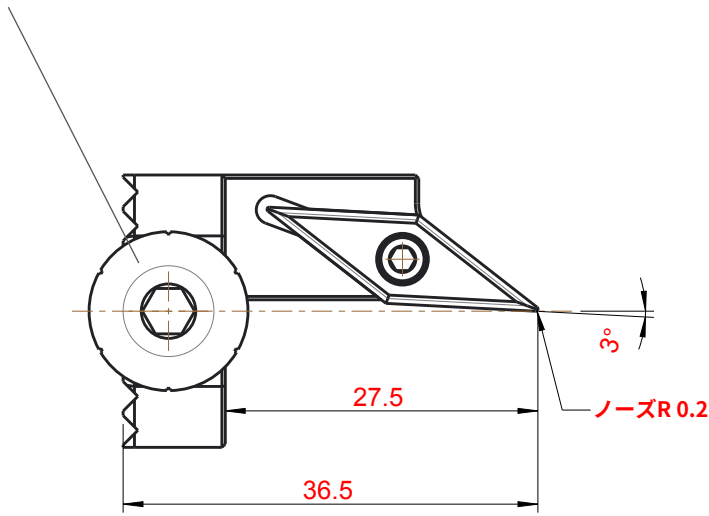
右勝手
cutting right

R.29

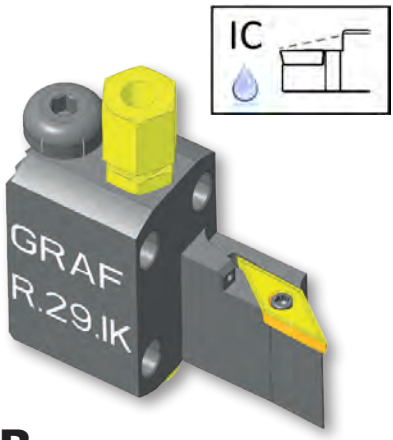
注文No./Order-Number **12-0261**

加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 13 03 ..**	**001.01.07**







L
左勝手
cutting left

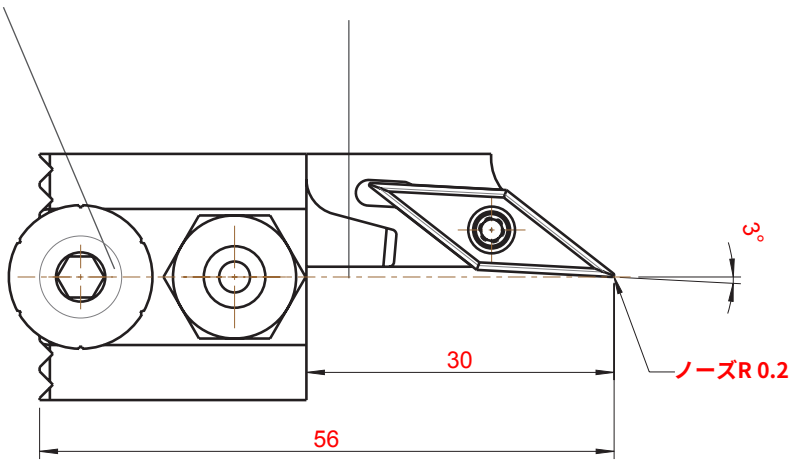
R
右勝手
cutting right

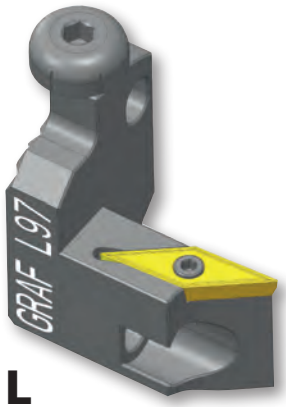
L.29.IK
注文No./Order-Number **12-1067**

R.29.IK
注文No./Order-Number **12-1066**

加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**VC.. 13 03 ..**	**001.01.07**



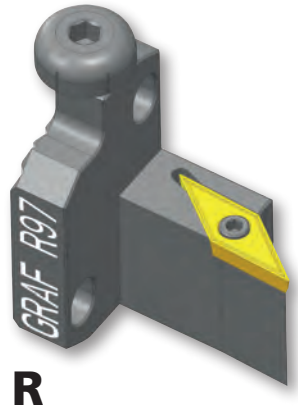


L

左勝手
cutting left

L.97

注文No./Order-Number **12-1070**



R

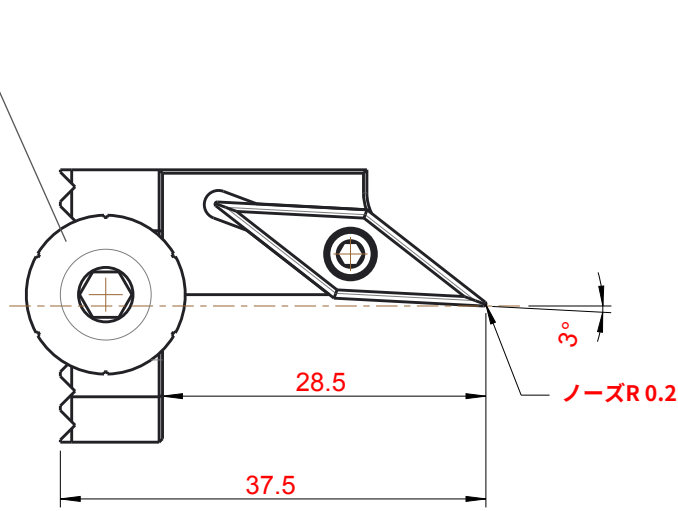
右勝手
cutting right

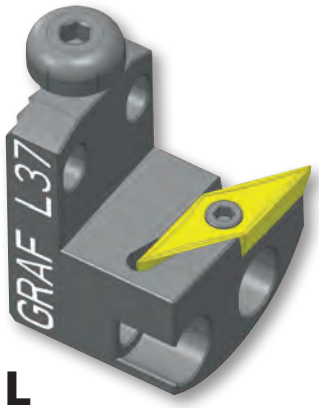
R.97

注文No./Order-Number **12-0083**

加工用途：**端面溝入れ加工**
Range of application **face grooving**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 13 03 ..**	**001.01.07**



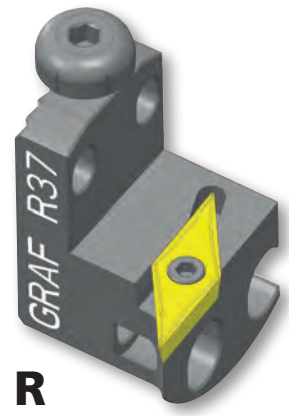


L

左勝手
cutting left

L.37

注文No./Order-Number **12-0452**



R

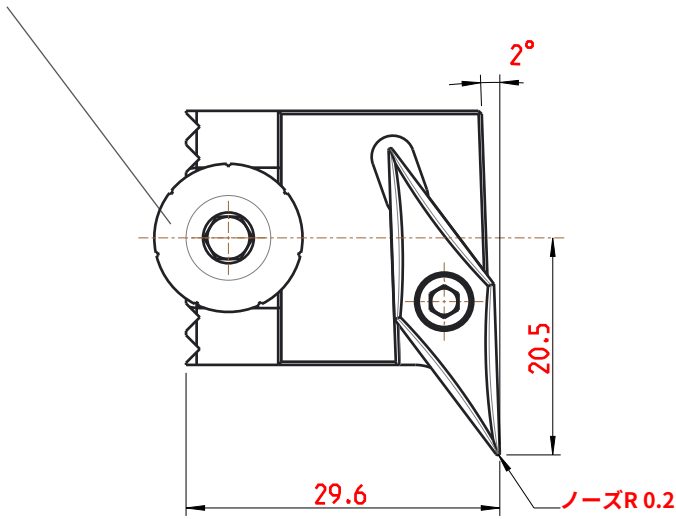
右勝手
cutting right

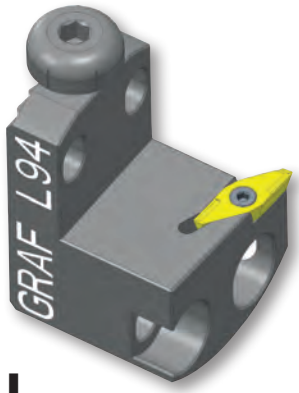
R.37

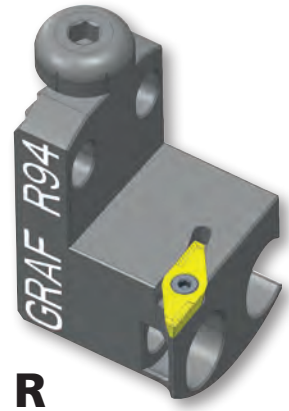
注文No./Order-Number **12-0449**

加工用途： **倣い加工**
Range of application **copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VC.. 16 04 ..**	**001.01.15**







L

左勝手
cutting left

L.94

注文No./Order-Number 12-1151

R

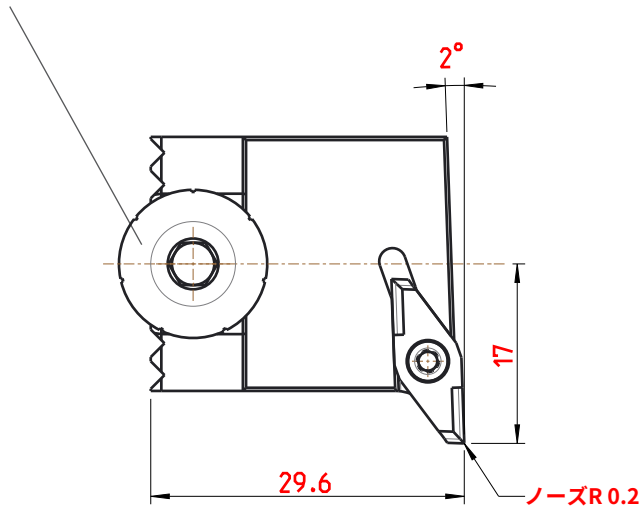
右勝手
cutting right

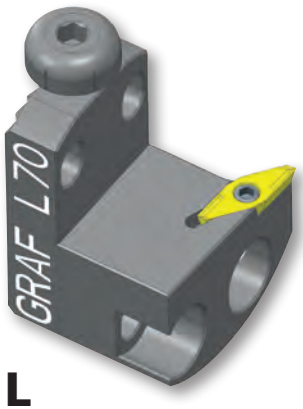
R.94

注文No./Order-Number 12-0532

加工用途：**旋削加工**
Range of application **turning**

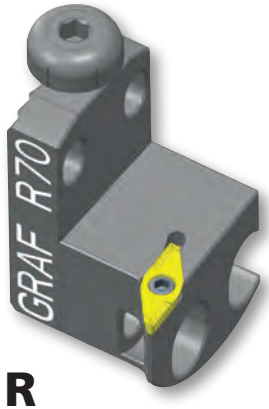
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**VP.. 10 03 .. UTILIS**	**001.01.33**





L
左勝手
cutting left

L.70
注文No./Order-Number **12-1043**

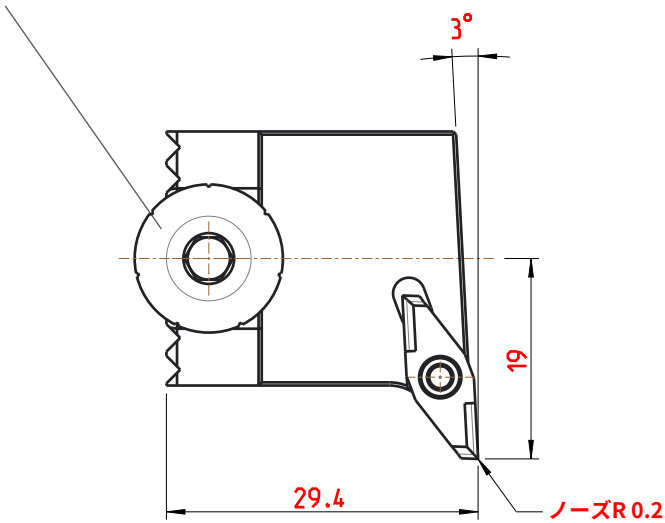


R
右勝手
cutting right

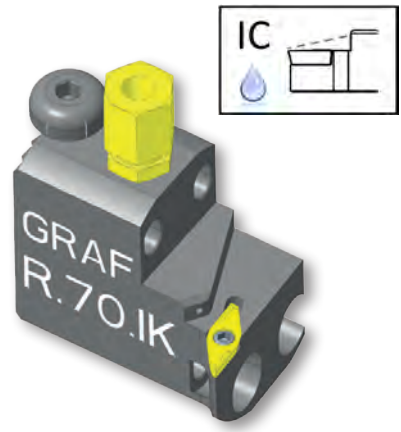
R.70
注文No./Order-Number **12-0514**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**Applitec Typ 300**	**001.01.33**







L

左勝手
cutting left

L.70.IK

注文No./Order-Number **12-0520**

R

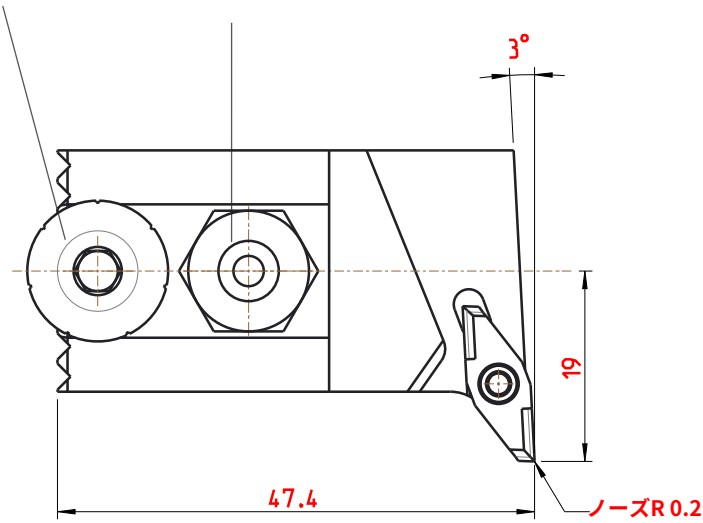
右勝手
cutting right

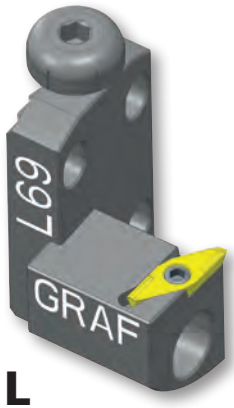
R.70.IK

注文No./Order-Number **12-0515**

加工用途：**旋削加工**
Range of application **turning**

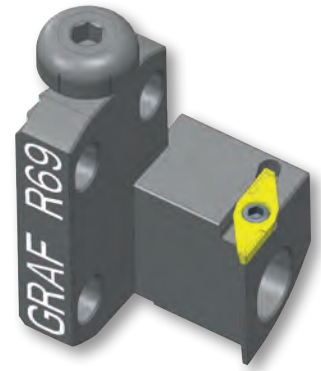
芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**Applitec Typ 300**	**001.01.33**





L
左勝手
cutting left

L.69
注文No./Order-Number **12-1036**

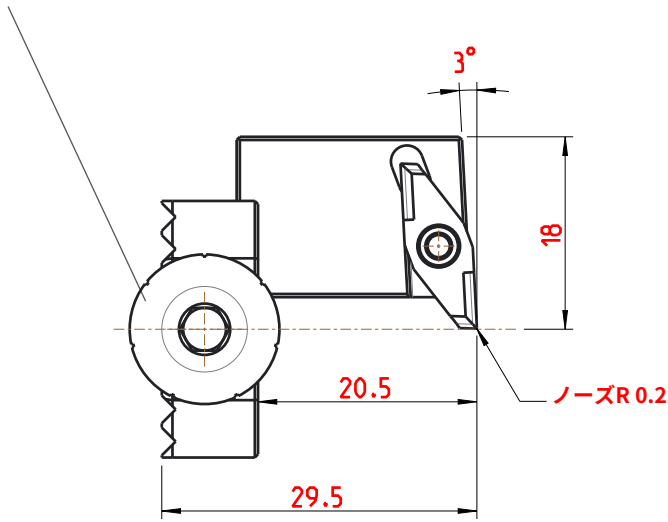


R
右勝手
cutting right

R.69
注文No./Order-Number **12-0513**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**Applitec Typ 300**	**001.01.33**



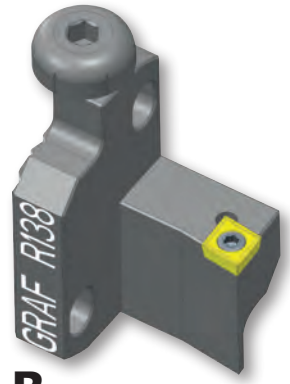


L

左勝手
cutting left

L.138

注文No./Order-Number **12-1163**



R

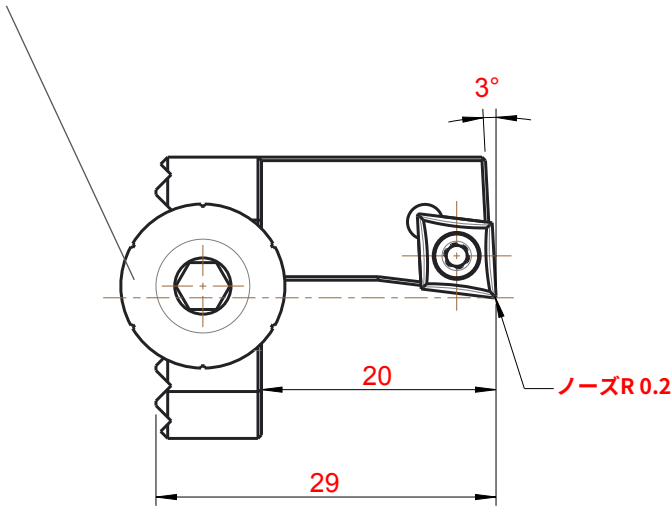
右勝手
cutting right

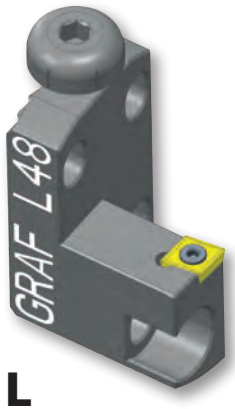
R.138

注文No./Order-Number **12-1162**

加工用途：**旋削加工**
Range of application **turning**

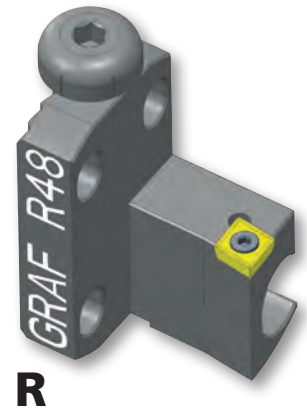
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**CC.. 06 02..**	**001.01.01**





L
左勝手
cutting left

L.48
注文No./Order-Number **12-0483**

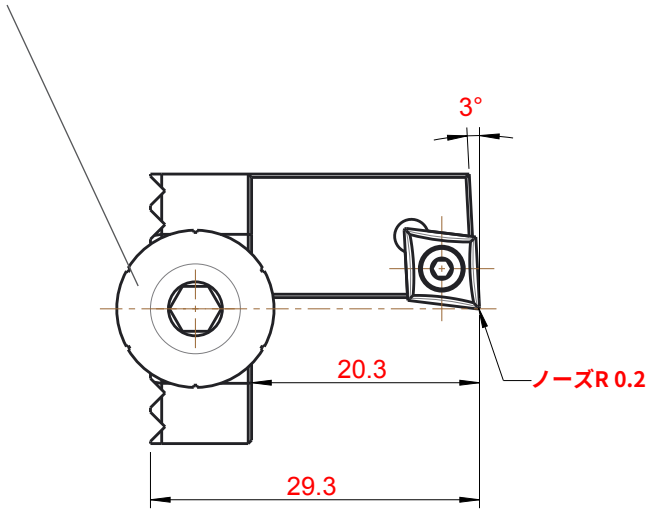


R
右勝手
cutting right

R.48
注文No./Order-Number **12-0467**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**CC.. 06 02 ..**	**001.01.01**



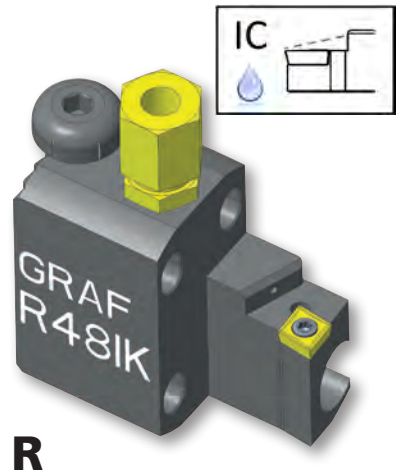


L

左勝手
cutting left

L.48.IK

注文No./Order-Number **12-1152**



R

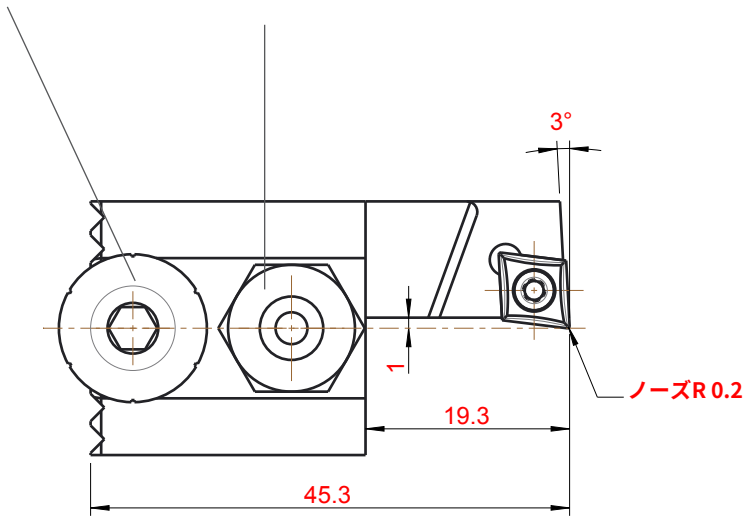
右勝手
cutting right

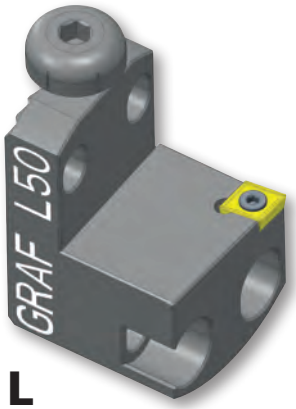
R.48.IK

注文No./Order-Number **12-0549**

加工用途：**旋削加工**
Range of application **turning**

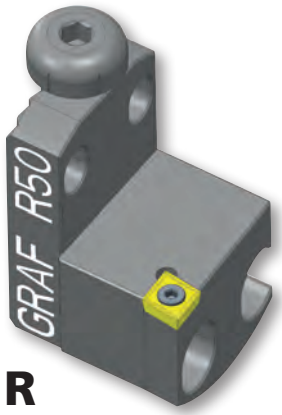
芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**CC.. 06 02..**	**001.01.01**





L
左勝手
cutting left

L.50
注文No./Order-Number 12-0516

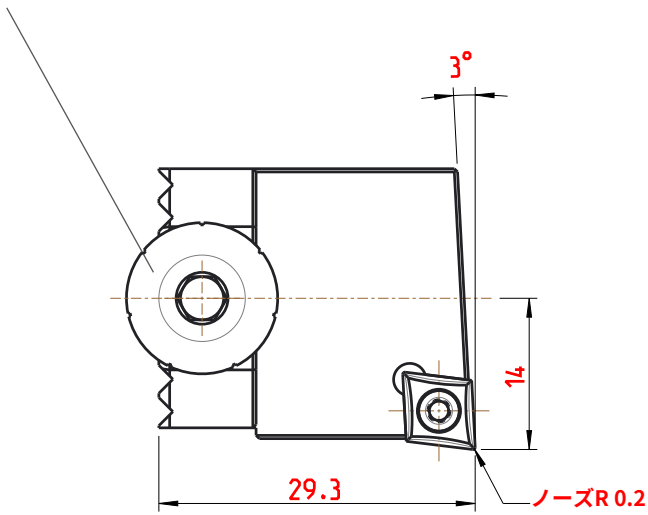


R
右勝手
cutting right

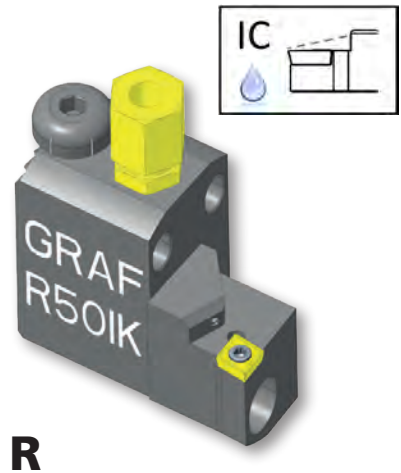
R.50
注文No./Order-Number 12-0499

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**CC.. 06 02..**	**001.01.01**







L

左勝手
cutting left

L.50.IK

注文No./Order-Number **12-1154**

R

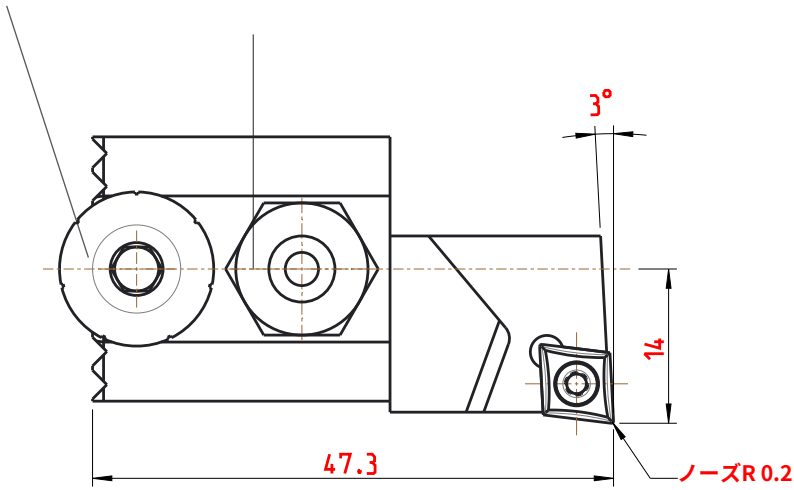
右勝手
cutting right

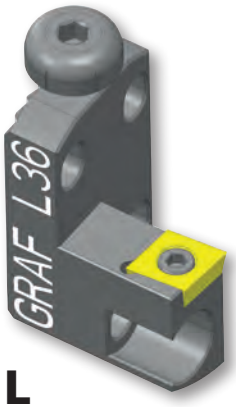
R.50.IK

注文No./Order-Number **12-1153**

加工用途：**旋削加工**
Range of application **turning**

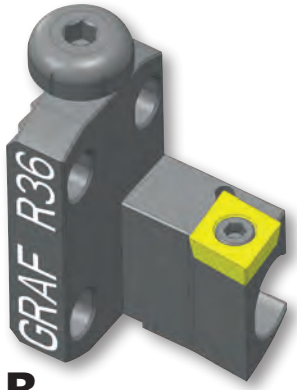
芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**CC.. 06 02..**	**001.01.01**





L
左勝手
cutting left

L.36
注文No./Order-Number **12-0407**

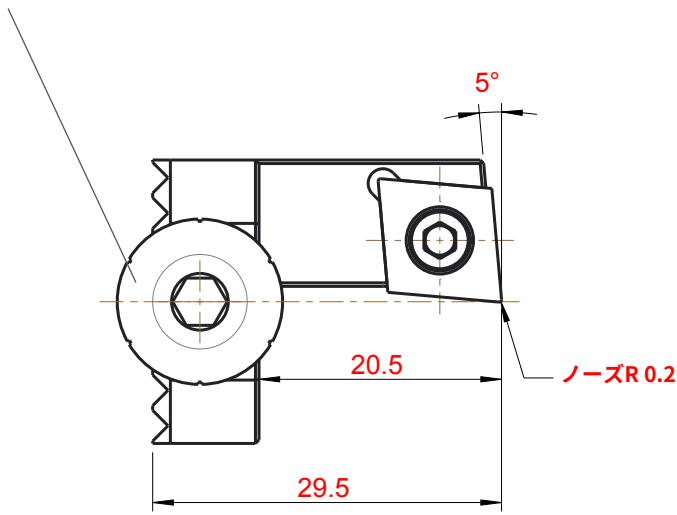


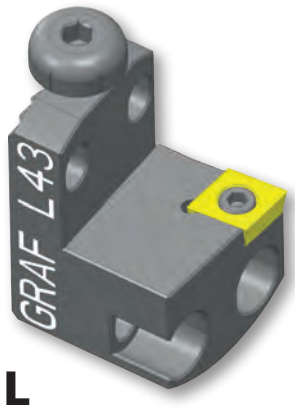
R
右勝手
cutting right

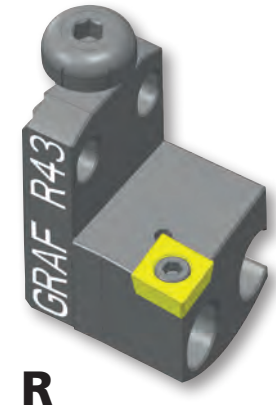
R.36
注文No./Order-Number **12-0359**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**CC.. 09 T3..**	**001.01.13**







L

左勝手
cutting left

L.43

注文No./Order-Number **12-0465**

R

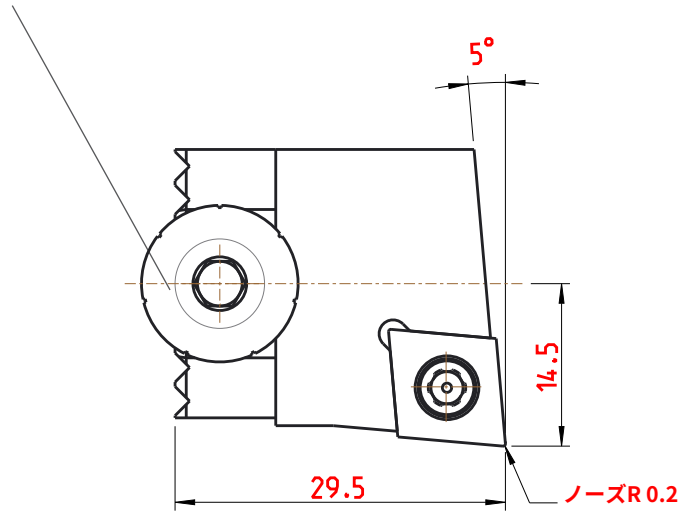
右勝手
cutting right

R.43

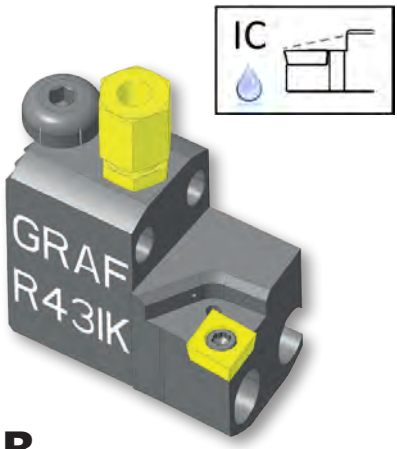
注文No./Order-Number **12-0453**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**CC.. 09 T3..**	**001.01.13**







L
左勝手
cutting left

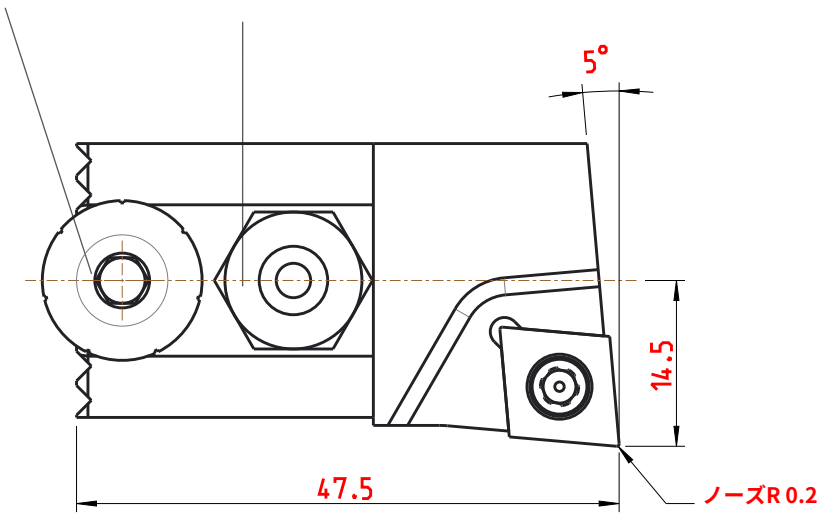
L.43.IK
注文No./Order-Number **12-0503**

R
右勝手
cutting right

R.43.IK
注文No./Order-Number **12-0490**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**CC.. 09 T3..**	**001.01.13**



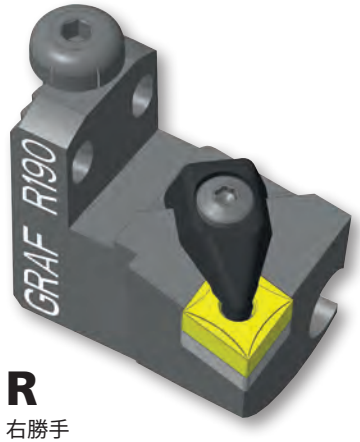


L

左勝手
cutting left

L.190

注文No./Order-Number **12-1285**



R

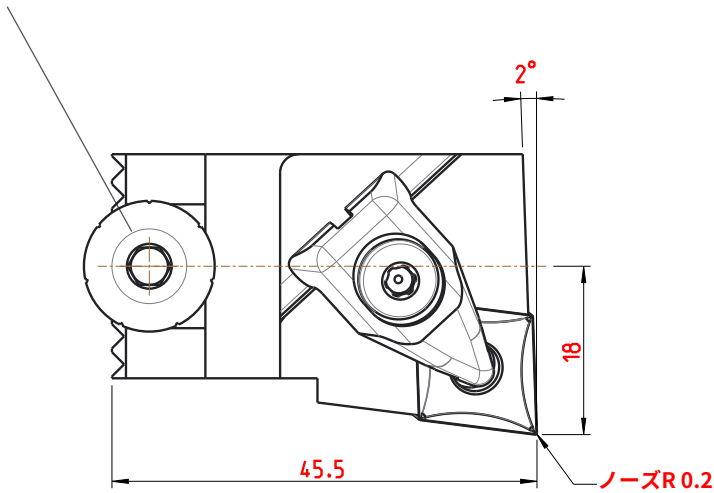
右勝手
cutting right

R.190

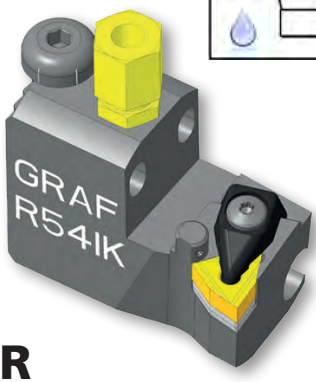
注文No./Order-Number **12-1284**

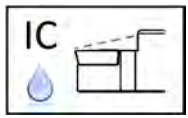
加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	セットねじ set screw	ベースプレート base plate
002.00.69	CN.. 12 04..	001.01.597	001.01.599	001.01.598









L
左勝手
cutting left

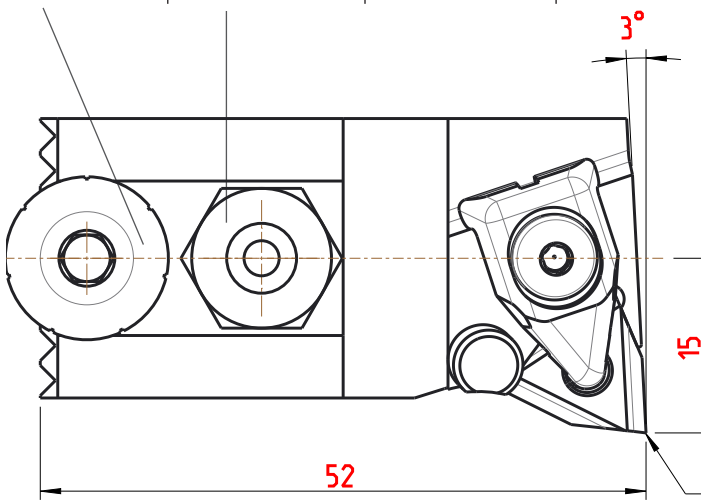
R
右勝手
cutting right

L.54.IK
注文No./Order-Number **12-1314**

R.54.IK
注文No./Order-Number **12-1313**

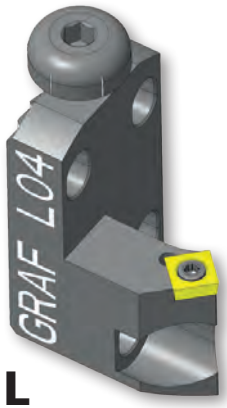
加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	クランプ部品 clamping element	セットねじ set screw
002.00.69	004.00.19	WN.. 06 04..	001.01.600	001.01.599



ベースプレート
base plate
001.01.601

皿ねじ
counter sunk-head screw
001.01.602

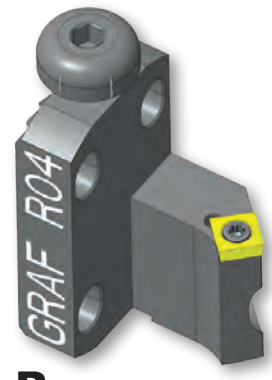


L

左勝手
cutting left

L.04

注文No./Order-Number **12-0029**



R

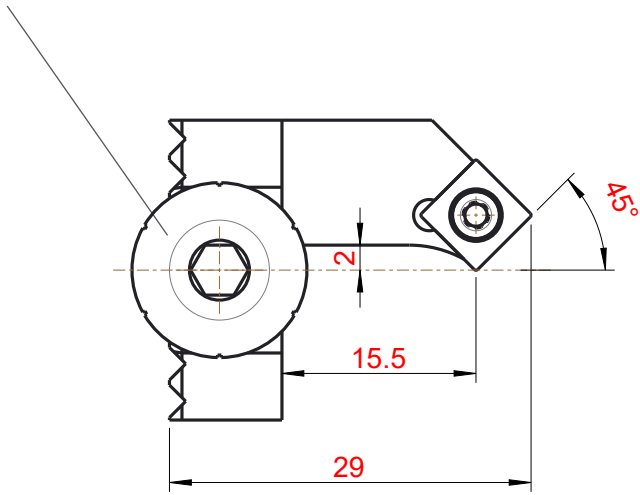
右勝手
cutting right

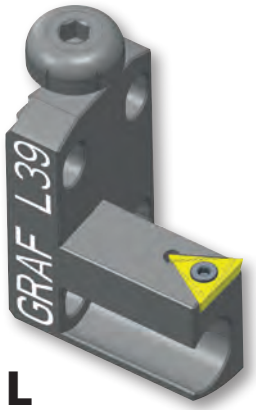
R.04

注文No./Order-Number **12-0028**

加工用途：**端面溝入れ加工**
Range of application **face grooving**

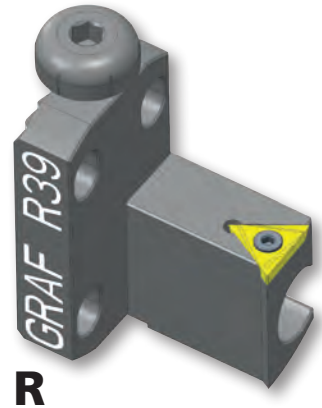
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**SC.. 06 02..**	**001.01.01**





L
左勝手
cutting left

L.39
注文No./Order-Number **12-0479**

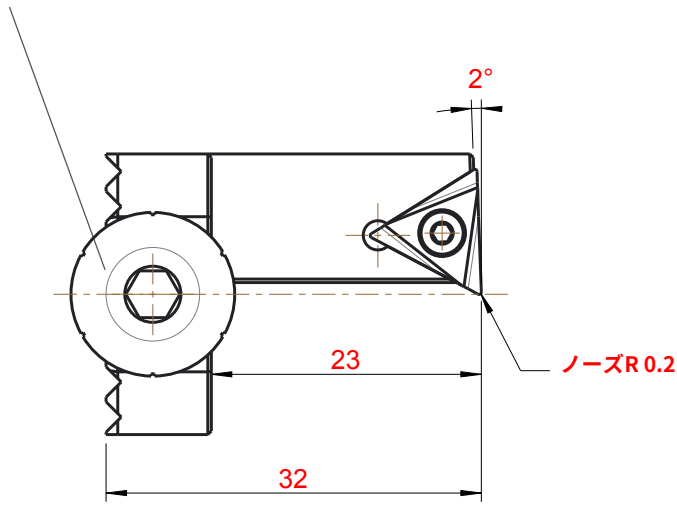


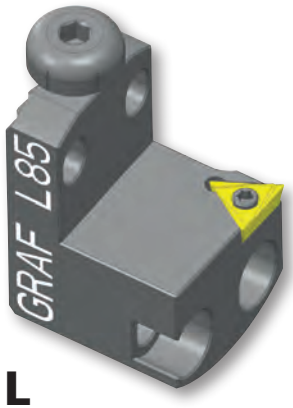
R
右勝手
cutting right

R.39
注文No./Order-Number **12-0451**

加工用途：**旋削加工**
Range of application **turning**

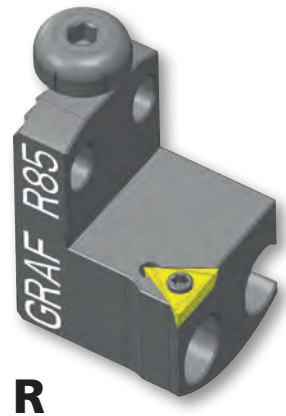
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**TC.. 11 02..**	**001.01.01**





L
左勝手
cutting left

L.85
注文No./Order-Number **12-0075**

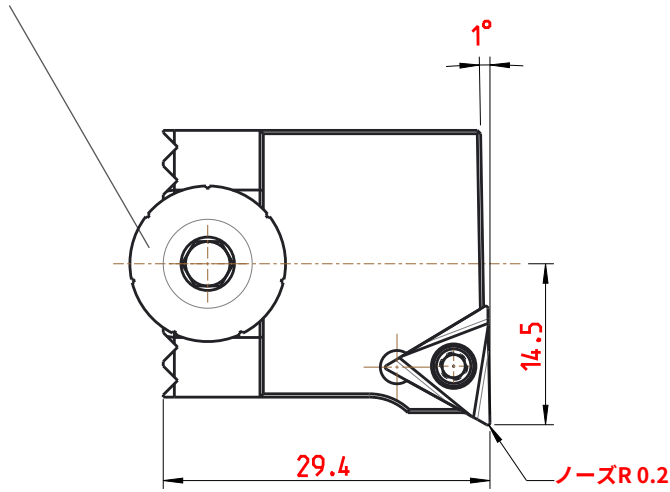


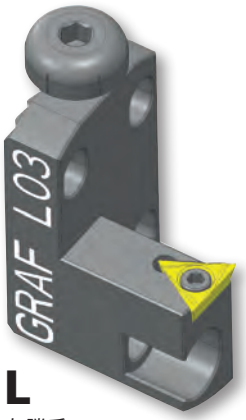
R
右勝手
cutting right

R.85
注文No./Order-Number **12-0073**

加工用途：**旋削加工**
Range of application **turning**

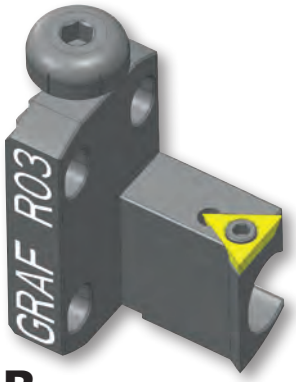
芯高調整用ねじ screw to adjust the height		インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69		**TC.. 11 03..**	**001.01.01**





L
左勝手
cutting left

L.03
注文No./Order-Number **12-0027**

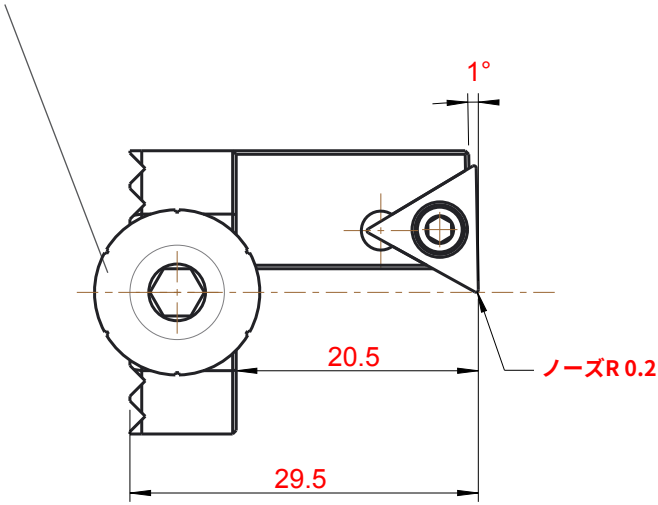


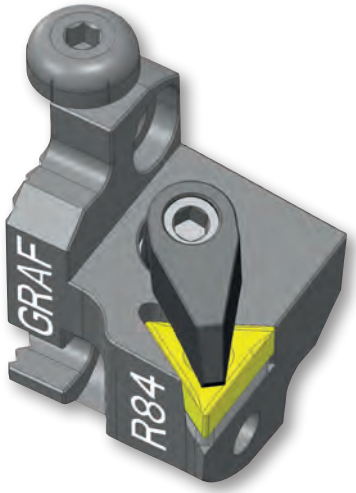
R
右勝手
cutting right

R.03
注文No./Order-Number **12-0026**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**TP.. 11 03..**	**001.01.07**



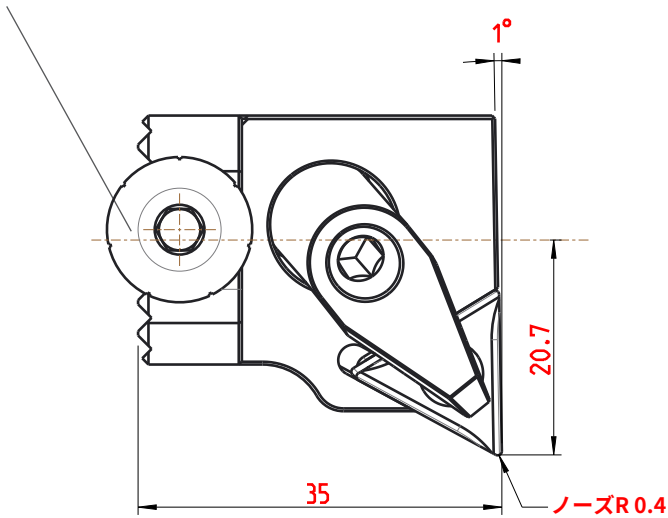


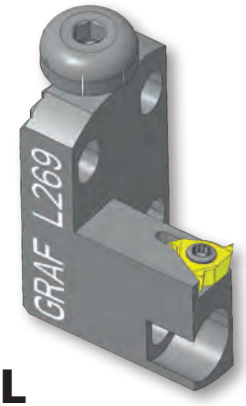
R.84

注文No./Order-Number **12-0074**

加工用途：**旋削加工**
Range of application **turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	セットねじ set screw	ベースプレート base plate
002.00.69	**TN.. 16 04..**	**001.01.41**	**001.01.42**	**001.01.43**



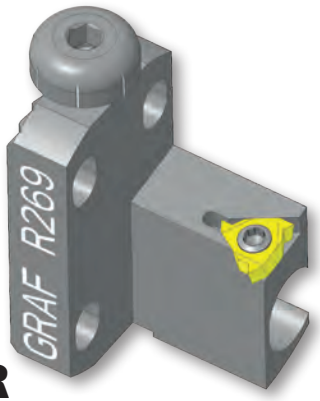


L

左勝手
cutting left

L.269

注文No./Order-Number **12-1688**



R

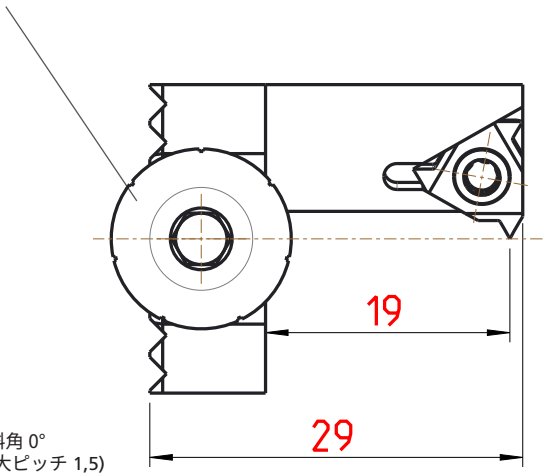
右勝手
cutting right

R.269

注文No./Order-Number **12-1539**

加工用途：**ねじ切り加工**
Range of application **threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**11ER.. /11EL..**	**001.01.86**



傾斜角 0°
(最大ピッチ 1,5)
gradient angel 0°
(pitch max 1,5)

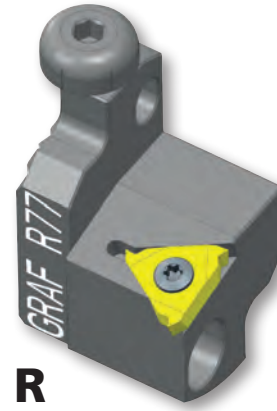


L

左勝手
cutting left

L.77

注文No./Order-Number **12-0070**



R

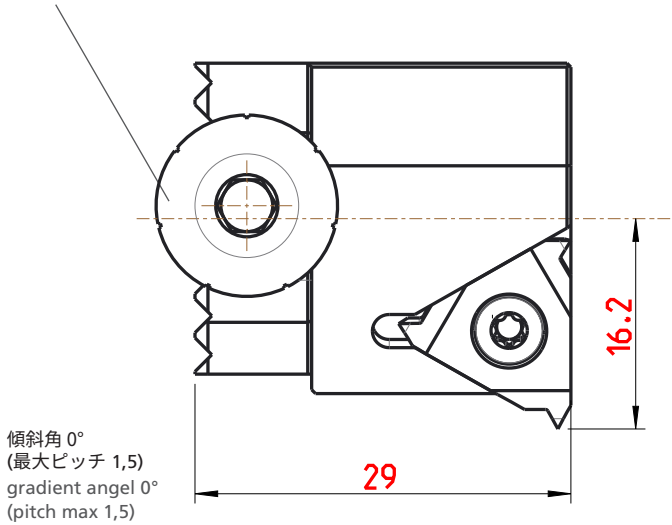
右勝手
cutting right

R.77

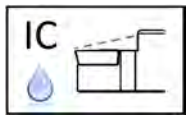
注文No./Order-Number **12-0071**

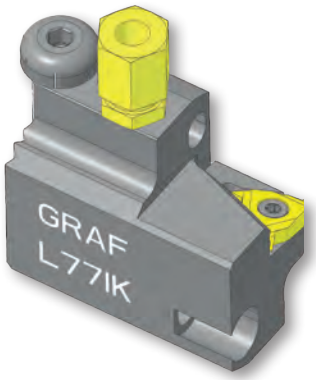
加工用途：**ねじ切り加工**
Range of application **threading**

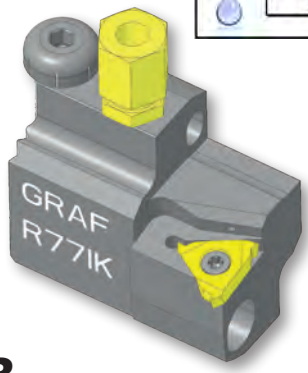
芯高調整用ねじ screw to adjust the height		インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69		**16ER.. /16EL..**	**001.01.65**



傾斜角 0°
(最大ピッチ 1,5)
gradient angel 0°
(pitch max 1,5)







L
左勝手
cutting left

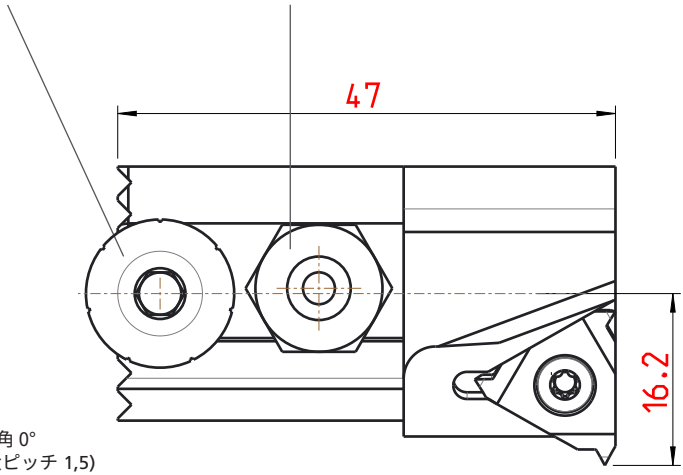
L.77.IK
注文No./Order-Number **12-1501**

R
右勝手
cutting right

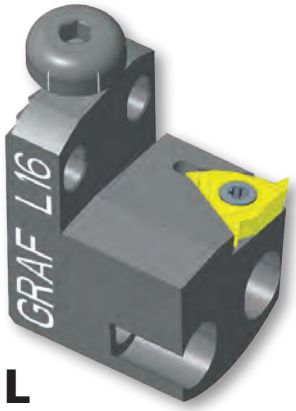
R.77.IK
注文No./Order-Number **12-1458**

加工用途：**ねじ切り加工**
Range of application **threading**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**16ER.. /16EL..**	**001.01.86**



傾斜角 0°
(最大ピッチ 1,5)
gradient angel 0°
(pitch max 1,5)

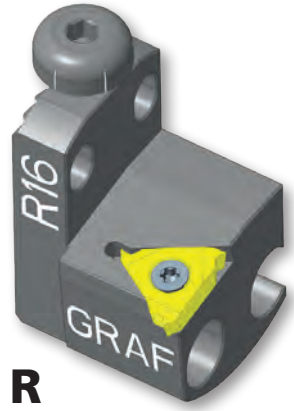


L

左勝手
cutting left

L.16

注文No./Order-Number **12-0046**



R

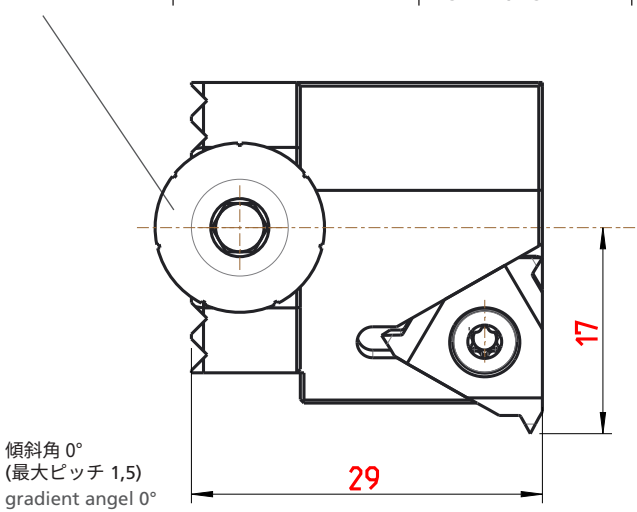
右勝手
cutting right

R.16

注文No./Order-Number **12-0045**

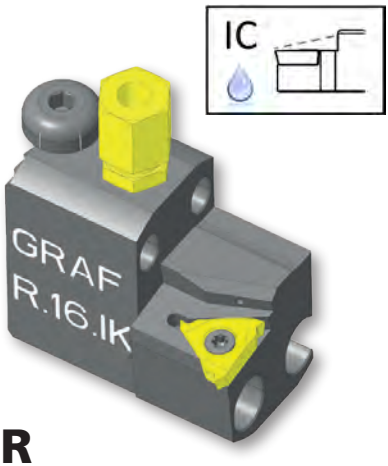
加工用途：**ねじ切り加工**
Range of application **threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**16ER.. /16EL..**	**001.01.65**



傾斜角 0°
(最大ピッチ 1,5)
gradient angel 0°
(pitch max 1,5)





L
左勝手
cutting left

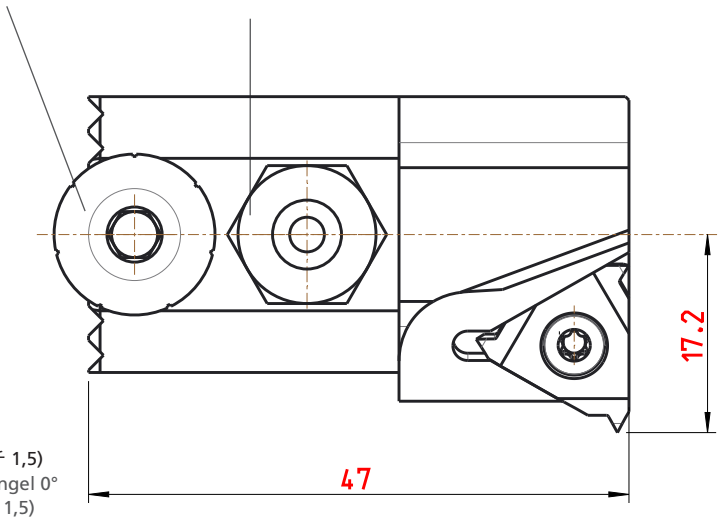
R
右勝手
cutting right

L.16.IK
注文No./Order-Number 12-0148

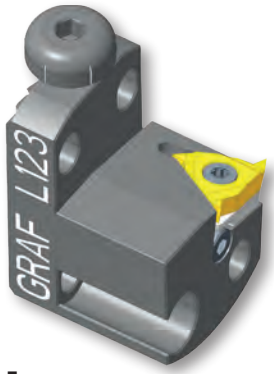
R.16.IK
注文No./Order-Number 12-0147

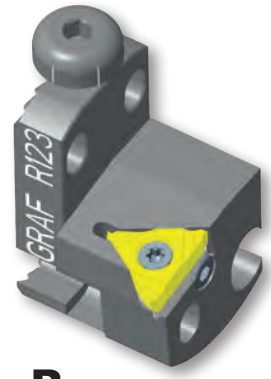
加工用途：**ねじ切り加工**
Range of application **threading**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**16ER.. /16EL..**	**001.01.65**



傾斜角 0°
(最大ピッチ 1,5)
gradient angel 0°
(pitch max 1,5)





L
左勝手
cutting left

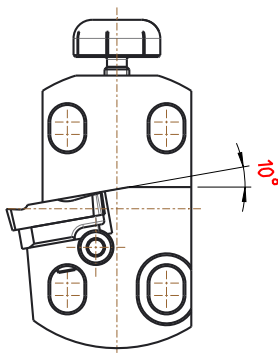
R
右勝手
cutting right

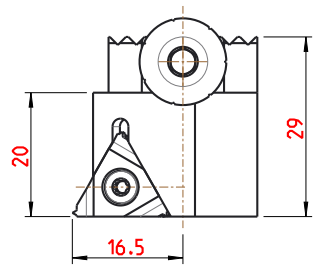
L.123
注文No./Order-Number **12-1147**

R.123
注文No./Order-Number **12-1146**

加工用途：**ねじ切り加工**
Range of application **threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw	ねじ screw
002.00.69	**16ER.. /16EL..**	**001.01.65**	**001.00.75**

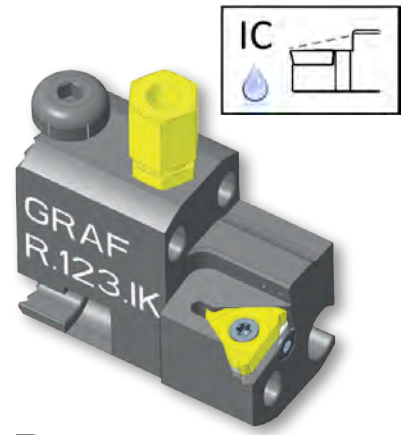




シム / Shim						
	3° N	**2° N**	**1° N**	**0°**	**1° P**	**2° P**
Art. Nr. R	00200185	00200184	00200183	00200180	00200182	00200181
Art. Nr. L	00200195	00200194	00200193	00200190	00200192	00200191

傾斜角の計算は 4.97 - 4.98.ページをご参照ください。
calculation gradient angle see page 4.97 - 4.98.





L
左勝手
cutting left

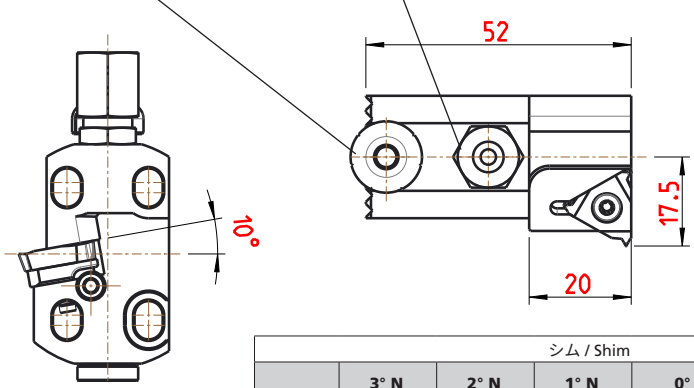
R
右勝手
cutting right

L.123.IK
注文No./Order-Number 12-1326

R.123.IK
注文No./Order-Number 12-1325

加工用途：**ねじ切り加工**
Range of application **threading**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**16ER.. /16EL..**	**001.01.65**

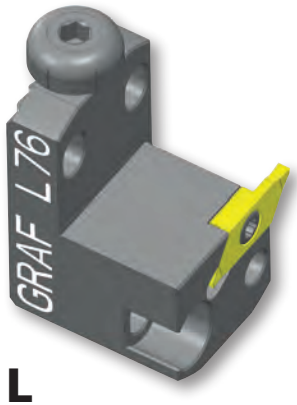


シム / Shim						
	3° N	**2° N**	**1° N**	**0°**	**1° P**	**2° P**
Art. Nr. R	00200185	00200184	00200183	00200180	00200182	00200181
Art. Nr. L	00200195	00200194	00200193	00200190	00200192	00200191

ねじ
screw

001.00.75

傾斜角の計算は 4.97 - 4.98.ページをご参照ください。
calculation gradient angle see page 4.97 - 4.98.

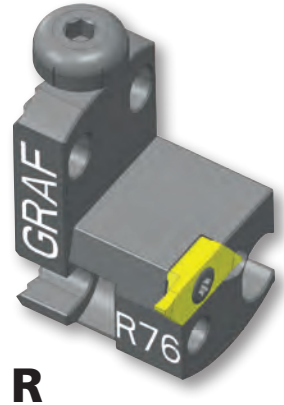


L

左勝手
cutting left

L.76

注文No./Order-Number **12-1104**



R

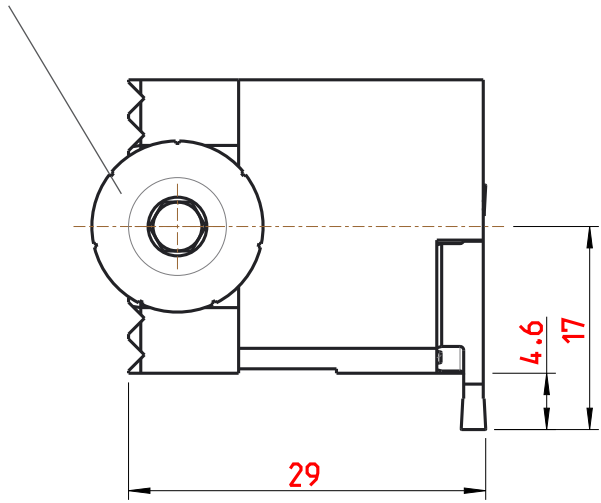
右勝手
cutting right

R.76

注文No./Order-Number **12-0096**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

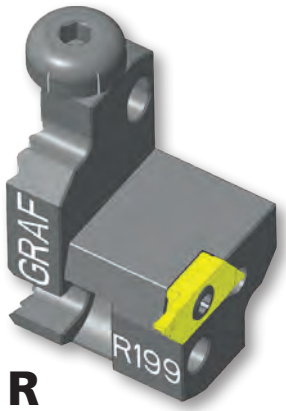
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**Horn Typ S274..**	**001.01.39**





L
左勝手
cutting left

L.199
注文No./Order-Number **12-1317**

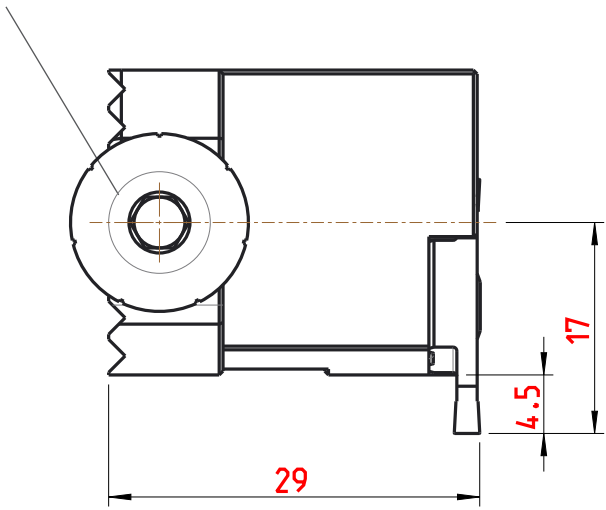


R
右勝手
cutting right

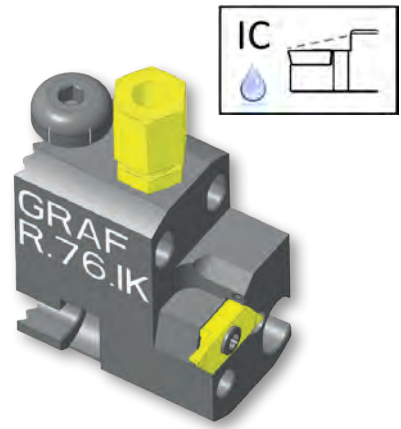
R.199
注文No./Order-Number **12-1316**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height		インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69		**Horn Typ S274..**	**001.01.39**







L
左勝手
cutting left

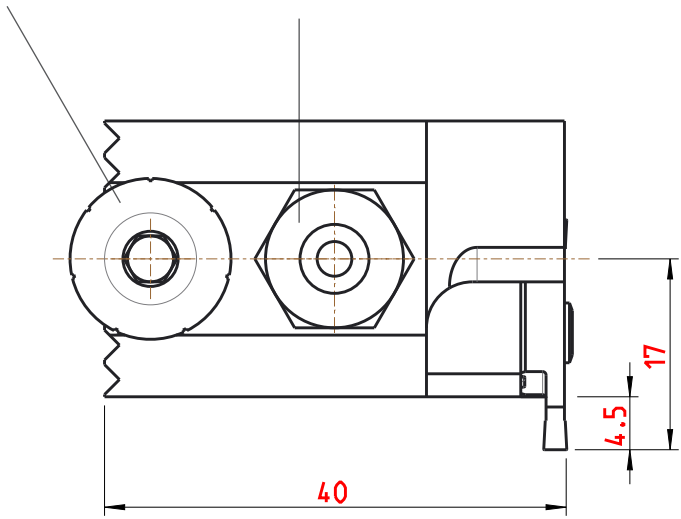
L.76.IK
注文No./Order-Number **12-1075**

R
右勝手
cutting right

R.76.IK
注文No./Order-Number **12-0072**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**Horn Typ S274..**	**001.01.39**



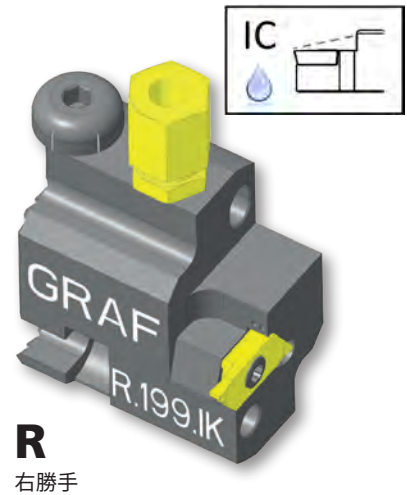


L

左勝手
cutting left

L.199.IK

注文No./Order-Number **12-1390**



R

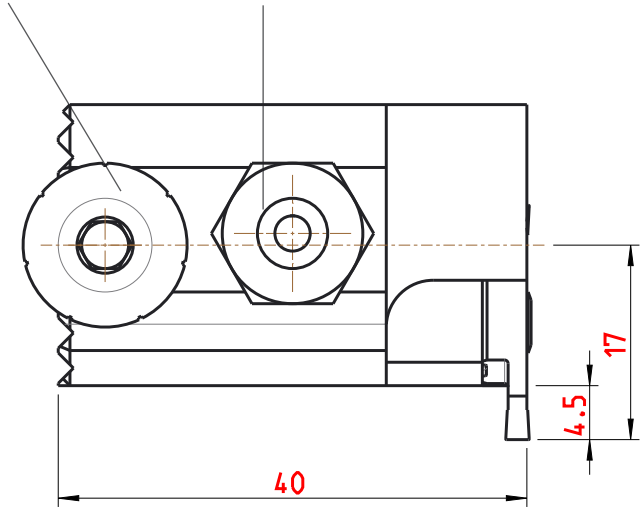
右勝手
cutting right

R.199.IK

注文No./Order-Number **12-1389**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**004.00.19**	**Horn Typ S274..**	**001.01.39**





L

左勝手
cutting left

L.49

注文No./Order-Number **12-1158**



R

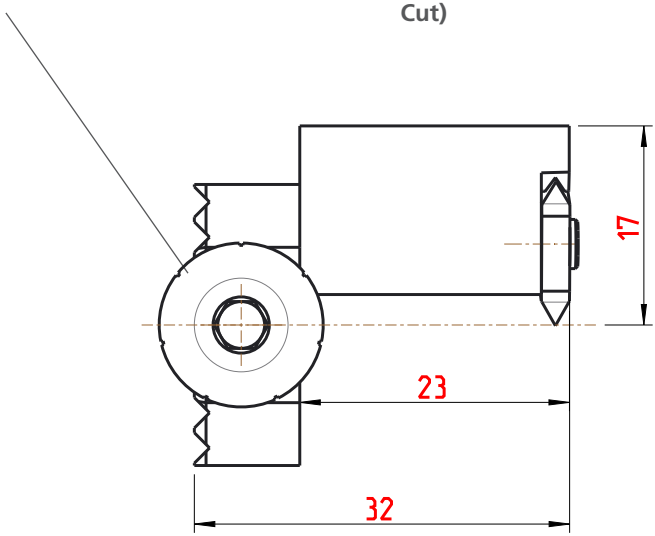
右勝手
cutting right

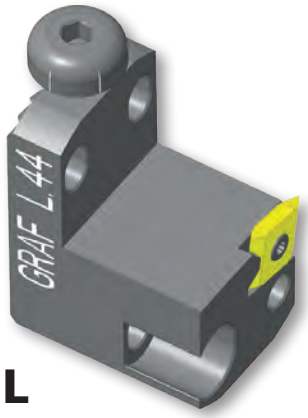
R.49

注文No./Order-Number **12-0468**

加工用途：**ねじ切り加工**
Range of application **threading**

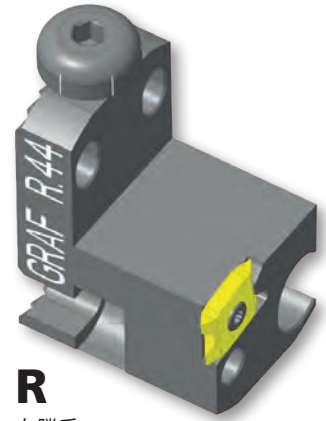
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**QER-12.. (Quad-Cut)**	**001.01.07**





L
左勝手
cutting left

L.44
注文No./Order-Number **12-0512**

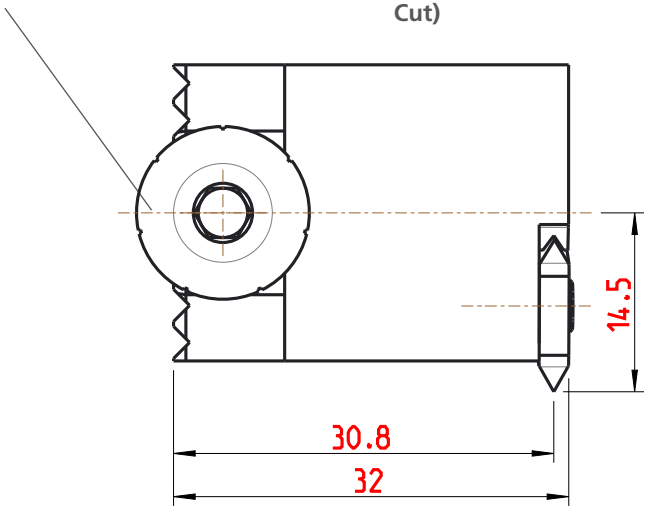


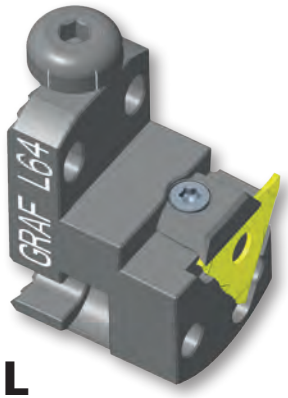
R
右勝手
cutting right

R.44
注文No./Order-Number **12-0454**

加工用途：**ねじ切り加工**
Range of application **threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**QER-12.. (Quad-Cut)**	**001.01.07**



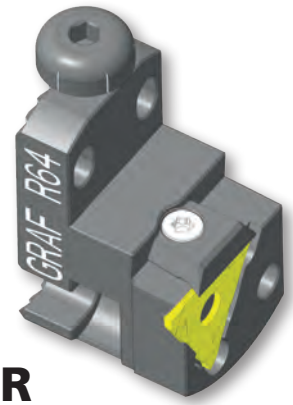


L

左勝手
cutting left

L.64

注文No./Order-Number **12-0496**



R

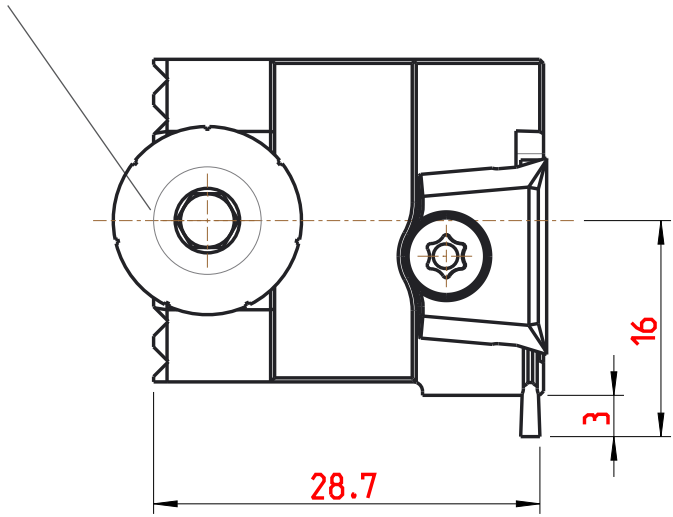
右勝手
cutting right

R.64

注文No./Order-Number **12-0486**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	幅 0,5 ー 1,9 用 width 0,5 - 1,9
002.00.69	**Horn Typ 312**	**4.078**	



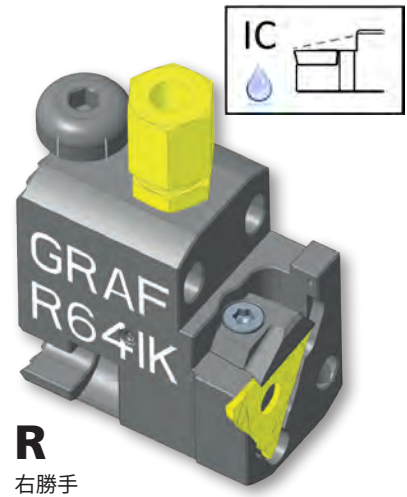


L

左勝手
cutting left

L.64.IK

注文No./Order-Number **12-0504**



R

右勝手
cutting right

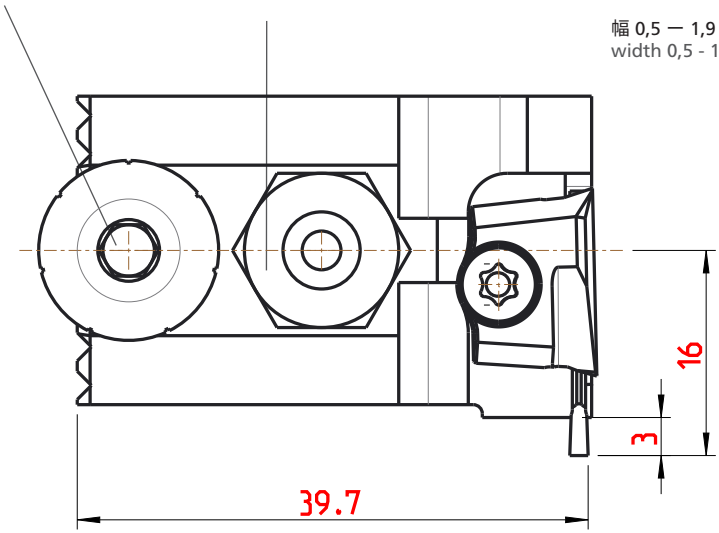
R.64.IK

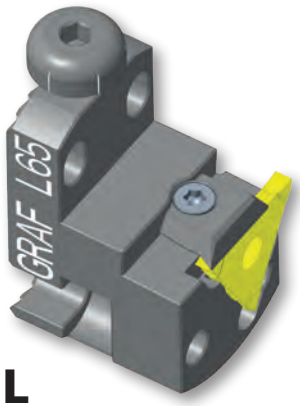
注文No./Order-Number **12-0501**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	クランプ部品 clamping element
002.00.69	**004.00.19**	**Horn Typ 312..**	**4.081 (R) / 4.082 (L)**

幅 0,5 – 1,9 用
width 0,5 - 1,9



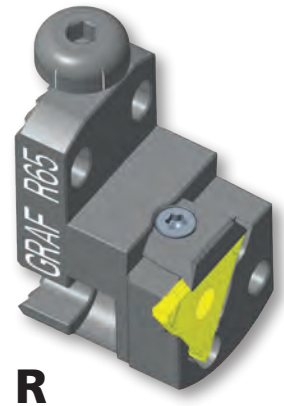


L

左勝手
cutting left

L.65

注文No./Order-Number **12-0497**



R

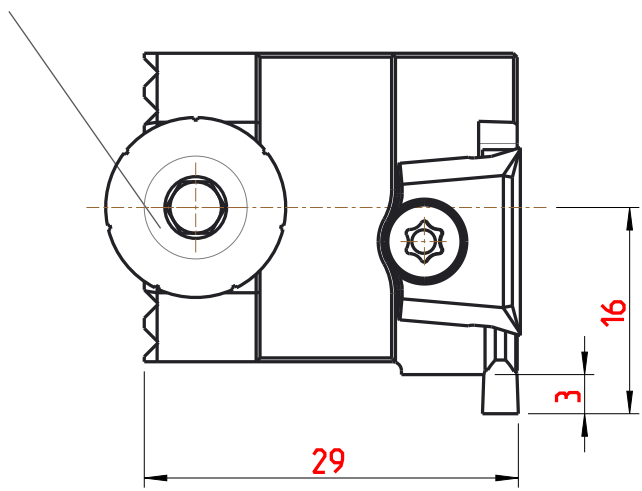
右勝手
cutting right

R.65

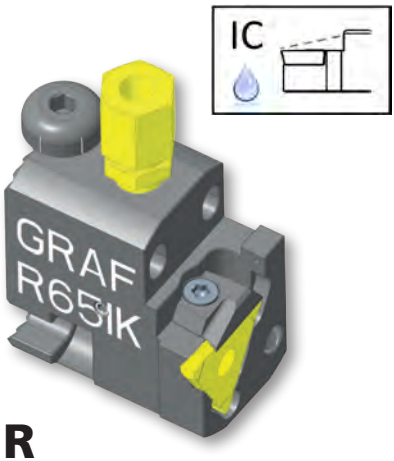
注文No./Order-Number **12-0487**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	幅 1,9 ー 2,9 用 for width 1,9 - 2,9
002.00.69	**Horn Typ 312**	**4.078**	







L
左勝手
cutting left

L.65.IK
注文No./Order-Number 12-0505

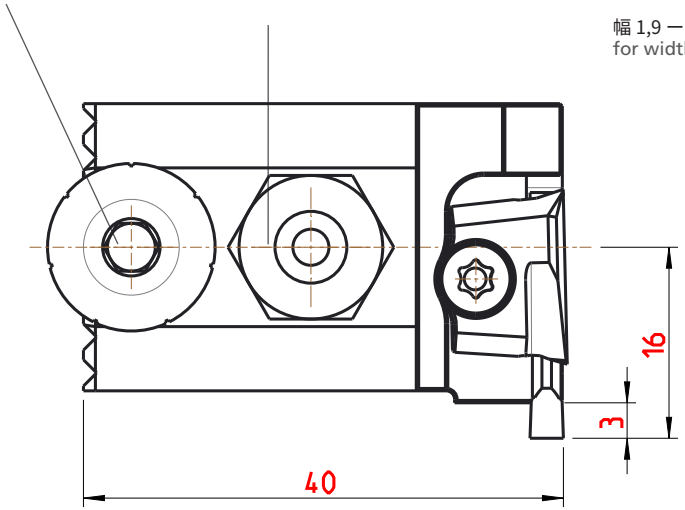
R
右勝手
cutting right

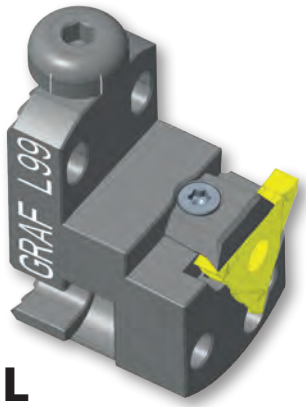
R.65.IK
注文No./Order-Number 12-0502

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert	クランプ部品 clamping element
002.00.69	**004.00.19**	**Horn Typ 312..**	**4.081 (R) / 4.082 (L)**

幅 1,9 ー 2,9 用
for width 1,9 - 2,9



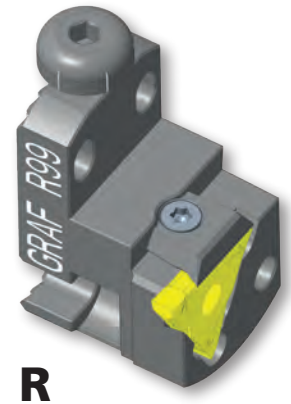


L

左勝手
cutting left

L.99

注文No./Order-Number **12-1048**



R

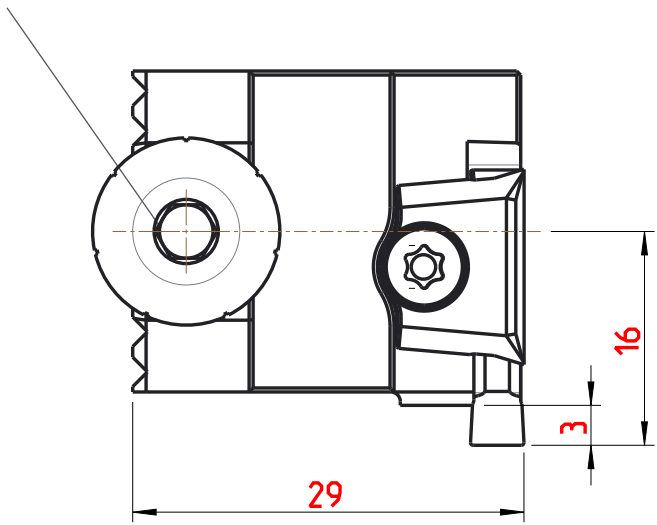
右勝手
cutting right

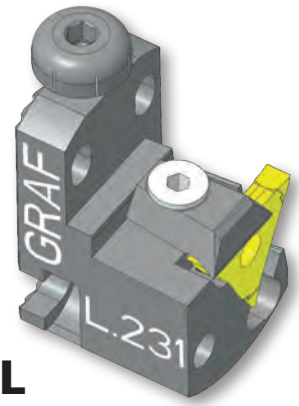
R.99

注文No./Order-Number **12-0547**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

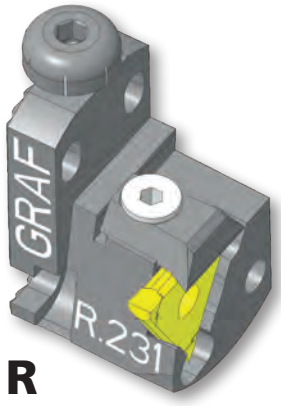
芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	幅 2,9ー3,9 用 for width 2,9 - 3,9
002.00.69	**Horn Typ 312**	**4.078**	





L

左勝手
cutting left



R

右勝手
cutting right

L.231

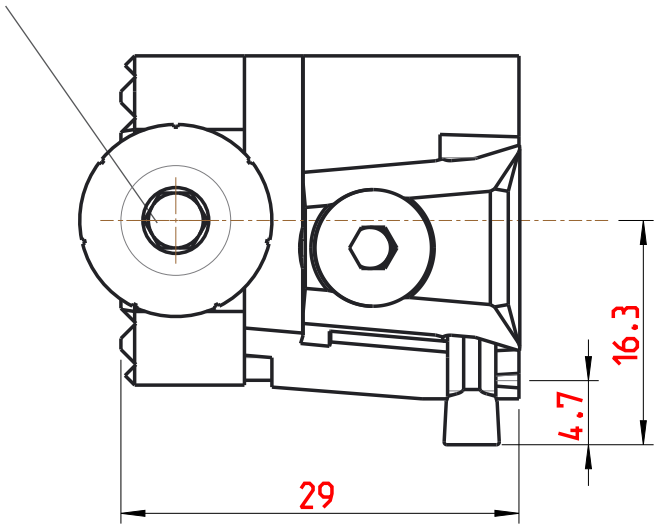
注文No./Order-Number **12-1403**

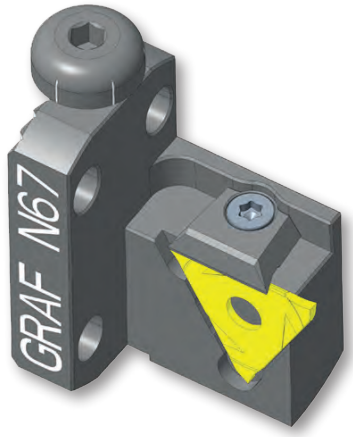
R.231

注文No./Order-Number **12-1402**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	幅 3,9 ー 4,9 用 for width 3,9 - 4,9
002.00.69	**Horn Typ 312**	**4.344**	



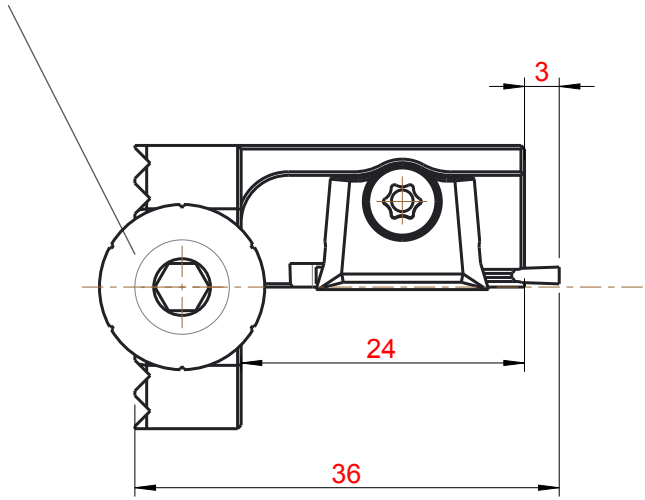


N.67

注文No./Order-Number **12-1061**

加工用途：**倣い加工、旋削加工**
Range of application **forming, turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	幅 0,5 ー 1,9 用 for width 0,5 - 1,9
002.00.69	**Horn Typ 312**	**4.078**	



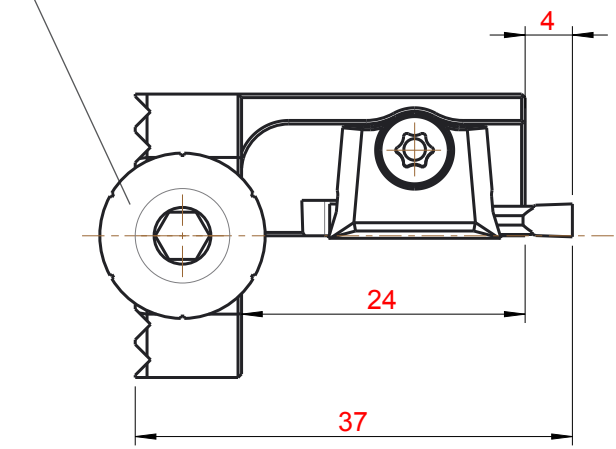


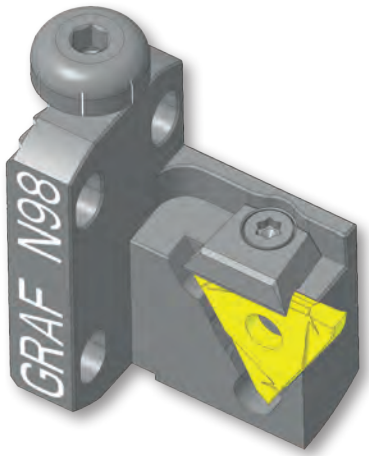
N.68

注文No./Order-Number **12-0498**

加工用途：**倣い加工、溝入れ加工、旋削加工**
Range of application **forming, grooving, turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	幅 1,9 ー 2,9 用 for width 1,9 - 2,9
002.00.69	**Horn Typ 312..**	**4.078**	



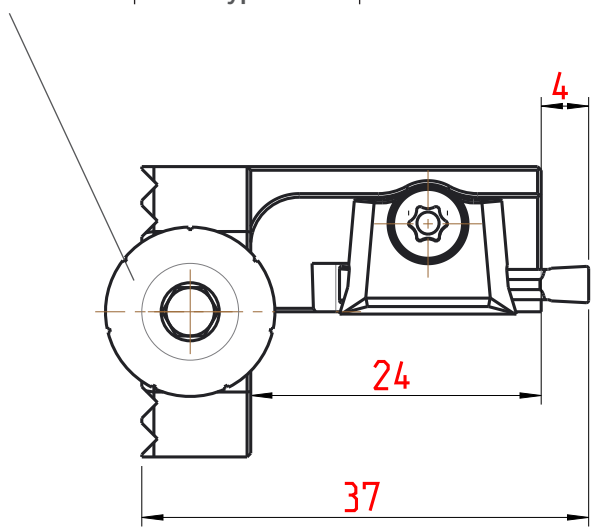


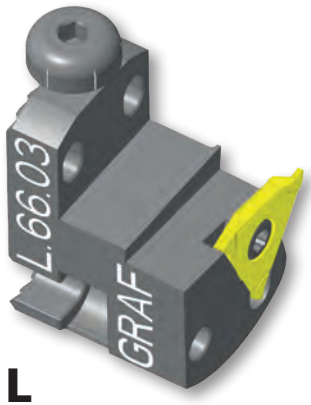
N.98

注文No./Order-Number **12-0084**

加工用途：**倣い加工、溝入れ加工、旋削加工**
Range of application **forming, grooving, turning**

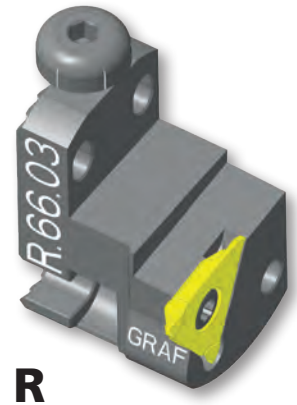
芯高調整用ねじ screw to adjust the height	インサート indexable insert	クランプ部品 clamping element	幅 2,9 - 3,9 用 for width 2,9 - 3,9
002.00.69	**Horn Typ 312..**	**4.078**	





L
左勝手
cutting left

L.66.03
注文No./Order-Number **12-1436**

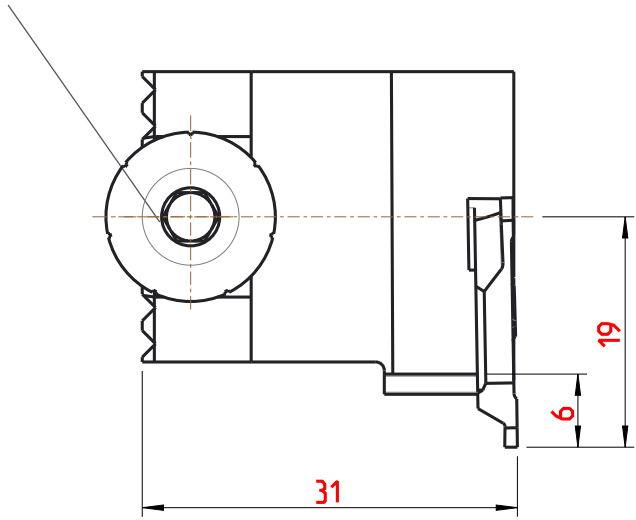


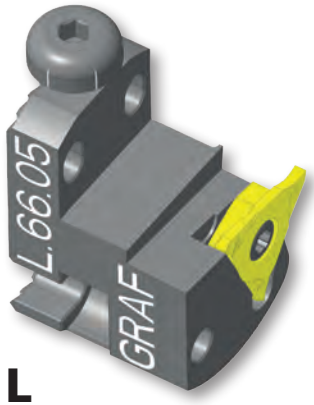
R
右勝手
cutting right

R.66.03
注文No./Order-Number **12-1435**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw	幅 03 for width 03
002.00.69	**Horn Typ 315**	**001.01.70**	



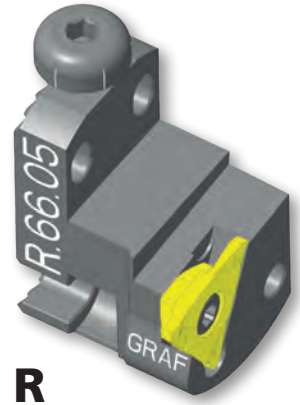


L

左勝手
cutting left

L.66.05

注文No./Order-Number **12-1438**



R

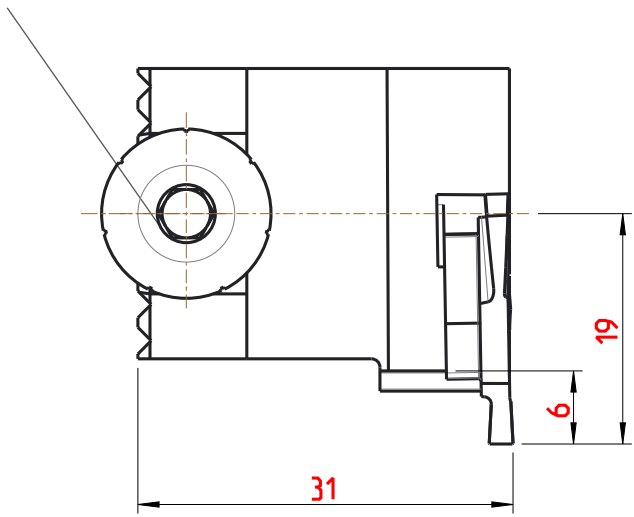
右勝手
cutting right

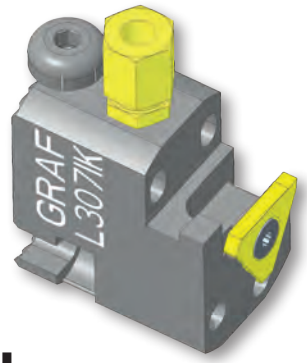
R.66.05

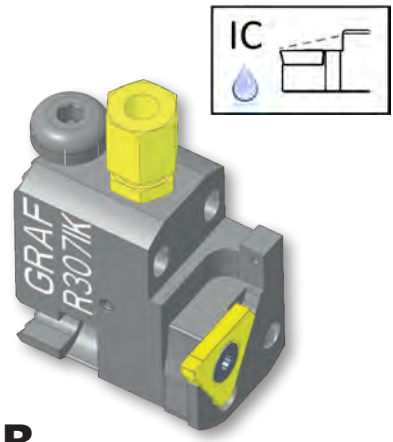
注文No./Order-Number **12-1437**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw	幅 05 for width 05
002.00.69	**Horn Typ 315**	**001.01.70**	







L
左勝手
cutting left

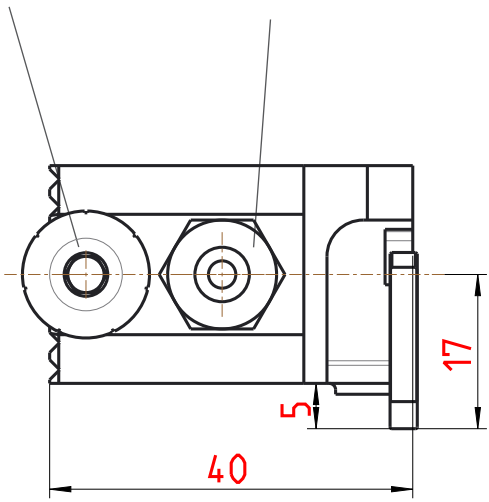
L.307.IK

R
右勝手
cutting right

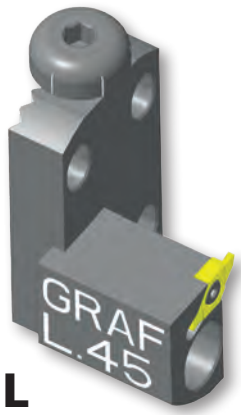
R.307.IK

加工用途：**倣い加工、旋削加工**
Range of application **forming, turning,**

芯高調整用ねじ screw to adjust the height	クーラント部品 Coolant supply	インサート indexable insert
002.00.69	**004.00.19**	**Horn Typ S34T**



型式 Description	注文No. Order-Number	サイズ Size	ねじ Screw
R.307.00.IK	12-1660	0	001.01.205
L.307.00.IK	12-1661	0	001.01.205
R.307.01.IK	12-1657	1	001.01.205
L.307.01.IK	12-1658	1	001.01.205
R.307.02.IK	12-1662	2	001.01.206
L.307.02.IK	12-1663	2	001.01.206
R.307.03.IK	12-1664	3	001.01.207
L.307.03.IK	12-1665	3	001.01.207
R.307.04.IK	12-1666	4	001.01.207
L.307.04.IK	12-1667	4	001.01.207

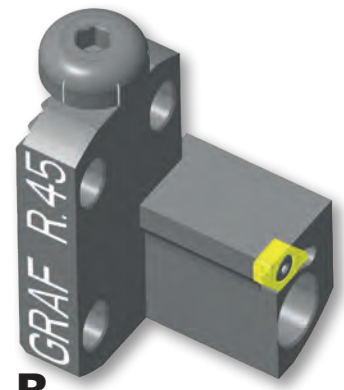


L

左勝手
cutting left

L.45

注文No./Order-Number **12-1433**



R

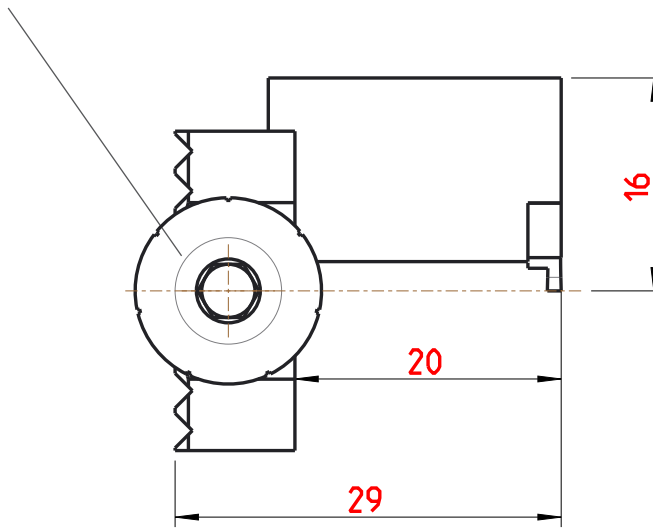
右勝手
cutting right

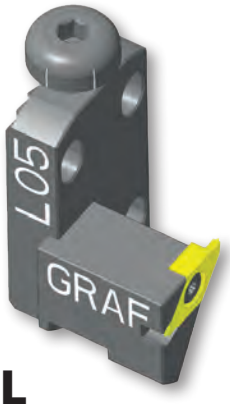
R.45

注文No./Order-Number **12-1432**

加工用途：**総形加工、ねじ切り加工、溝入れ加工**
Range of application **profiling, threading, grooving**

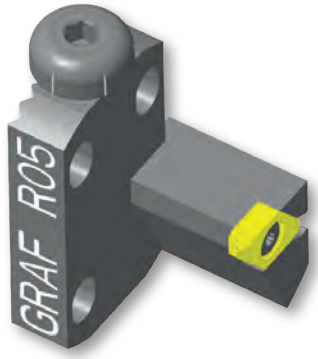
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**Typ CS06.., SCD06..**	**001.01.03**





L
左勝手
cutting left

L.05
注文No./Order-Number **12-0031**

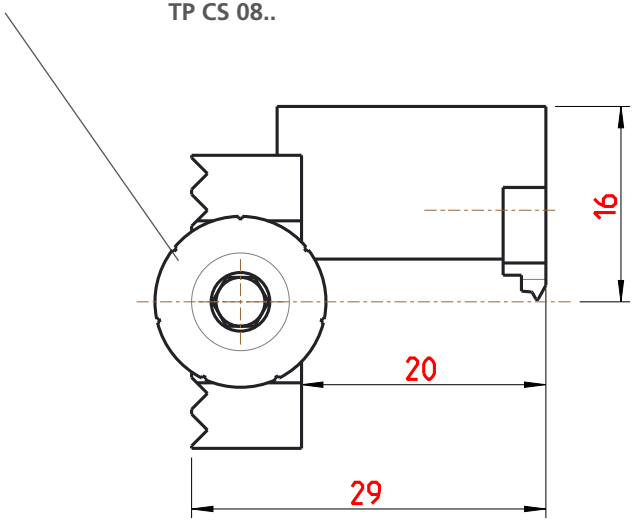


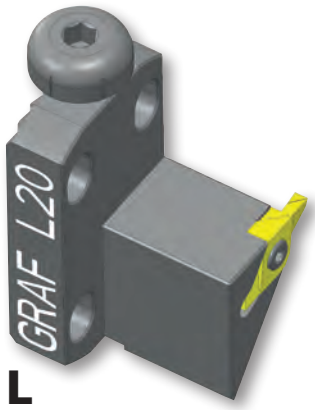
R
右勝手
cutting right

R.05
注文No./Order-Number **12-0030**

加工用途：**総形加工、ねじ切り加工、溝入れ加工**
Range of application **profiling, threading, grooving**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**SCD 08.., CSX 08.., CS 08.., VP CS 08.., TP CS 08..**	**001.01.04**



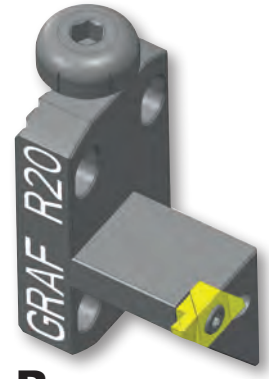


L

左勝手
cutting left

L.20

注文No./Order-Number **12-0821**



R

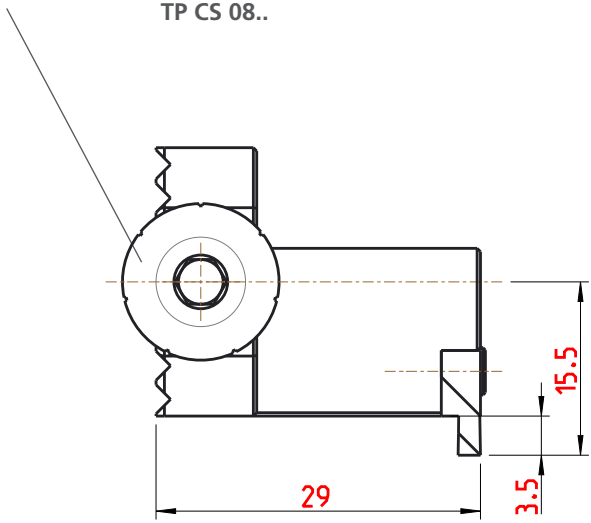
右勝手
cutting right

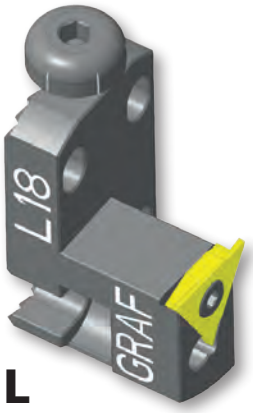
R.20

注文No./Order-Number **12-0820**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

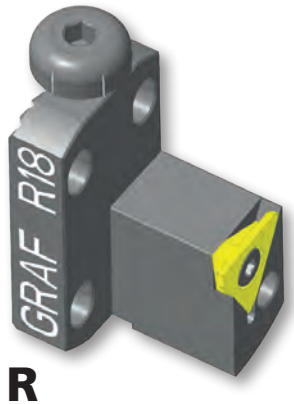
芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**SCD 08.., CSX 08.., CS 08.., VP CS 08.., TP CS 08..**	**001.01.04**





L
左勝手
cutting left

L.18
注文No./Order-Number **12-0048**

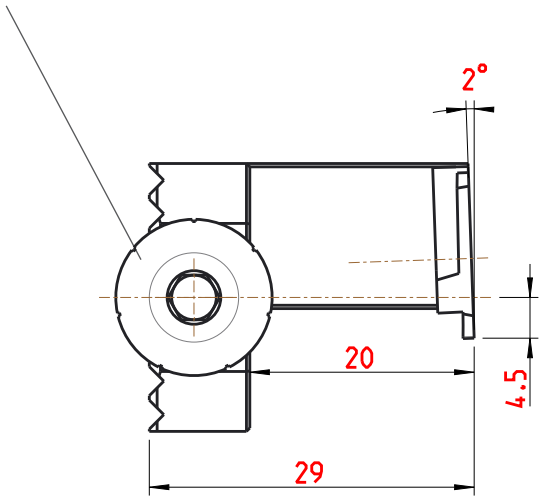


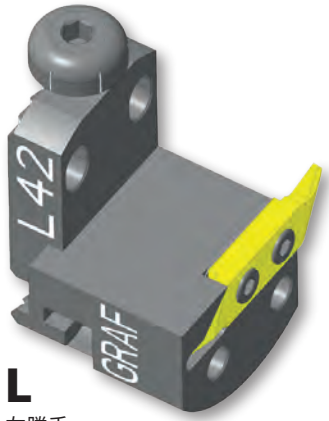
R
右勝手
cutting right

R.18
注文No./Order-Number **12-0047**

加工用途：**総形加工、ねじ切り加工、溝入れ加工、倣い加工**
Range of application **profiling, threading, grooving, copy turning**

芯高調整用ねじ screw to adjust the height	インサート indexable insert	皿ねじ counter sunk-head screw
002.00.69	**GTMH 32**	**001.01.27**



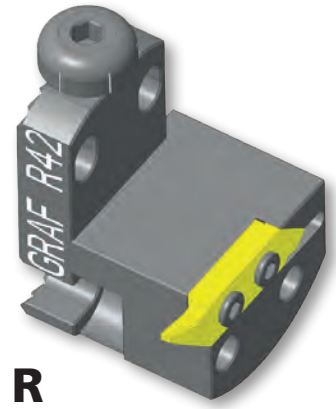


L

左勝手
cutting left

L.42

注文No./Order-Number **12-0466**



R

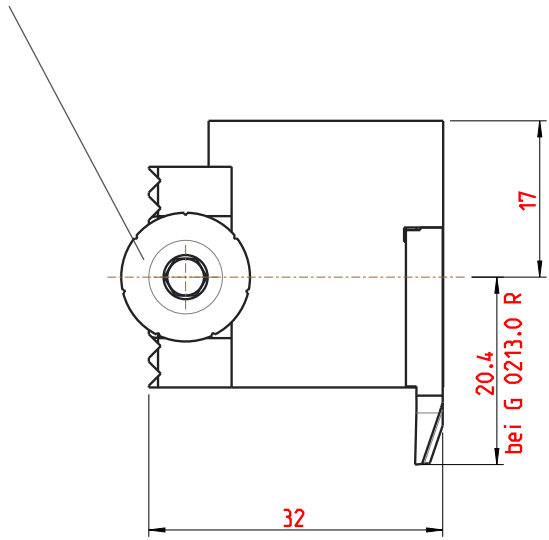
右勝手
cutting right

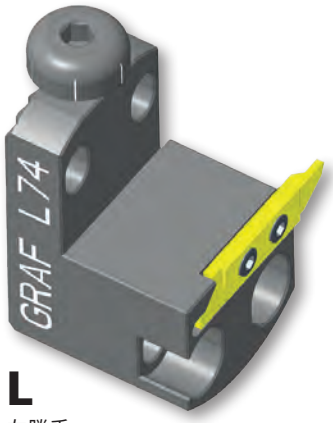
R.42

注文No./Order-Number **12-0461**

加工用途：**総形加工、ねじ切り加工、溝入れ加工、倣い加工**
Range of application **profiling, threading, grooving, copy turning**

芯高調整用ねじ screw to adjust the height	GRAF インサート GRAF indexable insert	皿ねじ counter sunk-head screw
002.00.69	**G 02.., G 03.., G 04.., TP G 05/VP G 05**	**001.01.15**



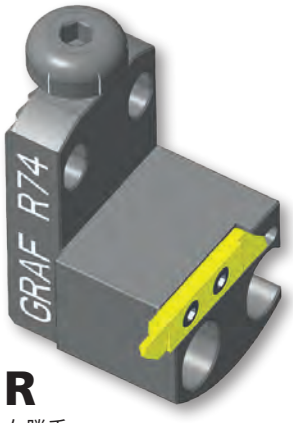


L

左勝手
cutting left

L.74

注文No./Order-Number **12-0519**



R

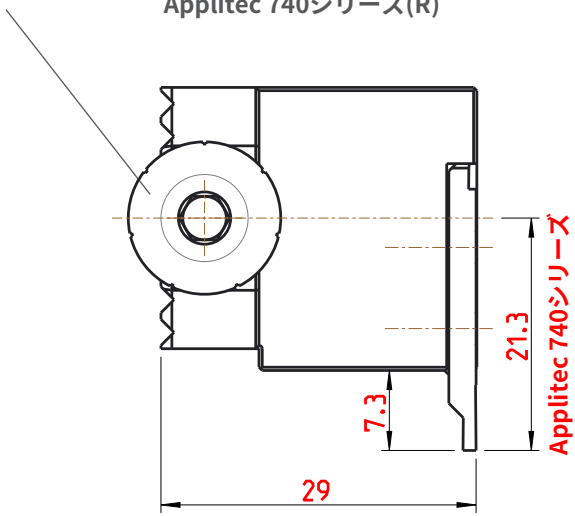
右勝手
cutting right

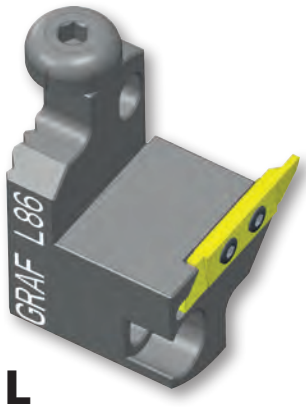
R.74

注文No./Order-Number **12-0518**

加工用途：**総形加工, ねじ切り加工, 溝入れ加工**
Range of application **profiling, threading, grooving**

芯高調整用ねじ screw to adjust the height	Applitec インサート Applitec indexable insert	皿ねじ counter sunk-head screw
002.00.69	**Applitec 730シリーズ(L)** **Applitec 740シリーズ(R)**	**001.01.45**





L

左勝手
cutting left

L.86

注文No./Order-Number **12-0522**



R

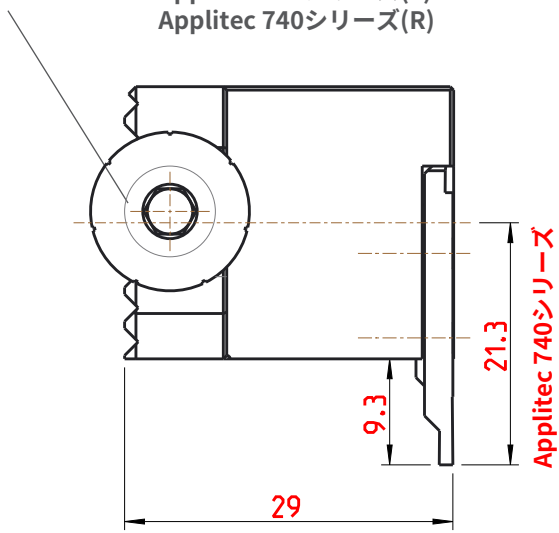
右勝手
cutting right

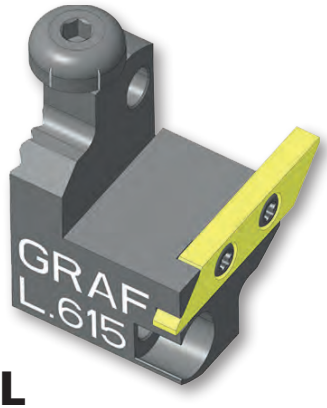
R.86

注文No./Order-Number **12-0521**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

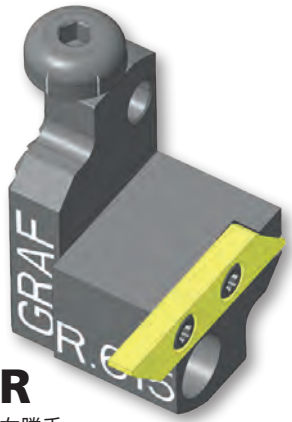
芯高調整用ねじ screw to adjust the height	Applitecインサート Applitec indexable insert	皿ねじ counter sunk-head screw
002.00.69	**Applitec 730シリーズ(L)** **Applitec 740シリーズ(R)**	**001.01.45**





L
左勝手
cutting left

L.615
注文No./Order-Number **12-1132**

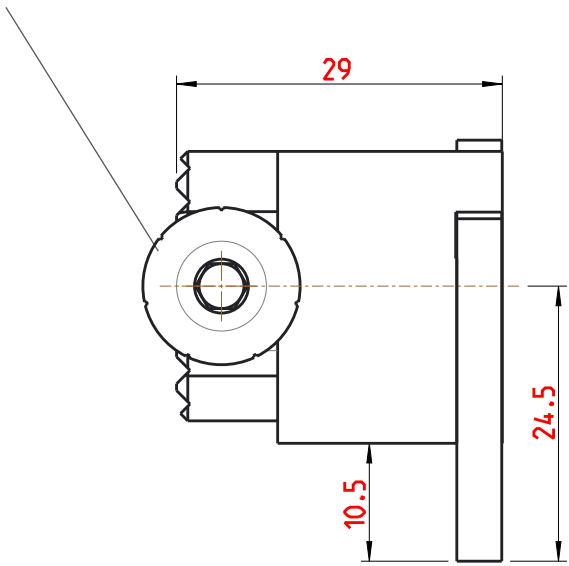


R
右勝手
cutting right

R.615
注文No./Order-Number **12-1131**

加工用途：**倣い加工、溝入れ加工、旋削加工、ねじ切り加工**
Range of application **forming, grooving, turning, threading**

芯高調整用ねじ screw to adjust the height	Precitool インサート precitool indexable insert	皿ねじ counter sunk-head screw
002.00.69	**Typ 615**	**628V**



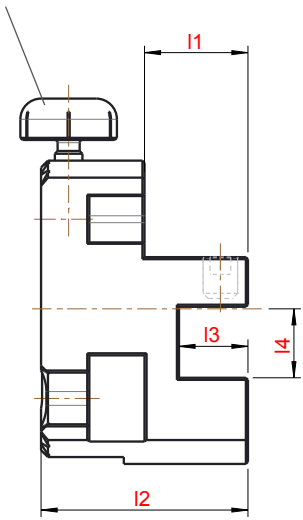


N.06

3

加工用途：**背面加工　角シャンク用**
Range of application **back working for square shank**

芯高調整用ねじ screw to adjust the height	セットねじ set screw
002.00.69	**002.00.11**



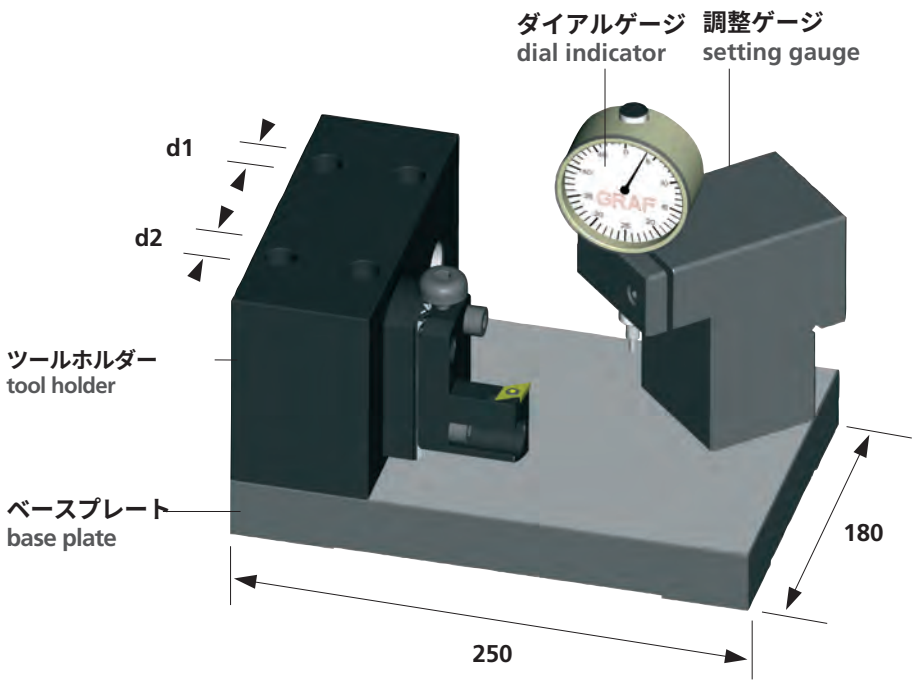
型式 Description	注文No. Order-Number	l1	l2	l3	l4
N.06.08	12-0902	15	30	8	8
N.06.10	12-0032	15	30	10	10
N.06.12	12-1080	15	30	12	12

背面加工用工具 HVR 40用　芯高調整装置

Device for height adjusting for back working holder HVR 40

	d1	d2	注文No. Order-Number	型式 Description
STAR	16	22	12-0506	HVR.40.16.22
	20	22	12-1106	HVR.40.20.22
CITIZEN	25	1"	12-0556	HVR.40.25.10.C1
	3/4"	1"	12-0507	HVR.40.34.10
HANWHA	20 25	28 33	12-0523 12-0511	HVR.40.20.28 HVR.40.25.23
	25 25	28 34	12-0548 12-0546	HVR.40.25.28 HVR.40.25.34
MAIER	30	34	12-1218	HVR.40.30.34
TORNOS	20	25	12-1488	HVR.40.20.25

他の寸法はお問い合わせください。
Please ask us for other dimensions


ダイアルゲージ
dial indicator
調整ゲージ
setting gauge
d1
d2
ツールホルダー
tool holder
ベースプレート
base plate
180
250

GRAF®
WERKZEUGSYSTEME

www.graf-werkzeugsysteme.de

Ernst Graf GmbH
Rosenstraße 1
D – 78661 Böhringen
☎ +49 7404 9305-0
✉ info@graf-werkzeugsysteme.de