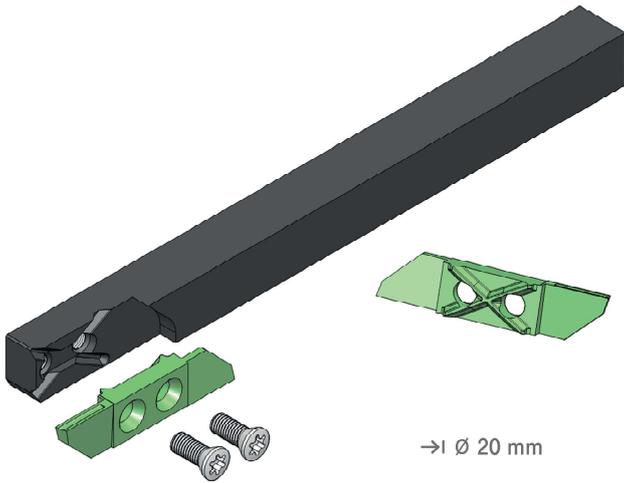


OXoline 1000

Very high rigidity inserts 1000

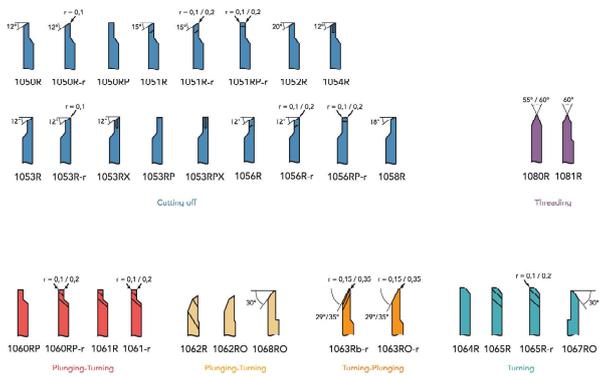
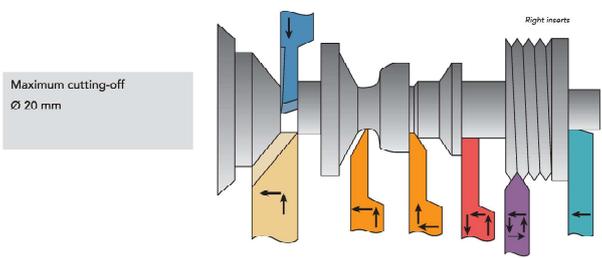


Coating of inserts / 코팅의 종류

√ = Available(재고 보유)

Designation(명칭)	Description(설명)
K20	Without coating K20 carbide(비코팅 / K20 계열의 초경)
D140	AlTi(C)N-based • Universal coating(대표적인 코팅) • High hardness(높은 강성) • Very smooth surface finish(매우 매끈한 표면 처리) • Suitable for steel and stainless steel(강 및 스테인리스 작업에 적합)
BI90	AlTiN-based • Universal coating(대표적인 코팅) • Good oxidation resistance(내산화성이 좋음) • High heat resistance(높은 내열성) • Suitable for steel and stainless steel(강 및 스테인리스 작업에 적합)
BI100	AlCrN-based • Very high heat resistance(매우 높은 내열성) • High wear resistance(높은 내마모성) • Ideal for high speed machining of stainless steel(서스의 고속가공에 적합)
TiN	TiN • Universal coating(대표적인 코팅)

Field of application of OXoline 1000



10xxR	Right tool holder	Section C	Length L	Article nr.
		10 x 10	120	1010R
		12 x 12	120	1012R
		14 x 14	120	1014R
		16 x 16	120	1016R
		20 x 20	120	1020R
		25 x 25	100	1025R
		12,7 x 12,7 (1/2")	120	10127R

10xxR4	«Pick-up» tool holder	Section C	Length L	Article nr.
		10 x 10	120	1010R4
		12 x 12	120	1012R4
		16 x 16	120	1016R4
		Use with 1053R, 1053RP, 1053RX, 1054K, 1054RP-r and 1058R inserts		

10xxL	Left tool holder	Section C	Length L	Article nr.
		10 x 10	120	1010L
		12 x 12	120	1012L
		14 x 14	120	1014L
		16 x 16	120	1016L
		20 x 20	120	1020L
		25 x 25	100	1025L
		12,7 x 12,7 (1/2")	120	10127L

10xxL4	«Pick-up» tool holder	Section C	Length L	Article nr.
		10 x 10	120	1010L4
		12 x 12	120	1012L4
		16 x 16	120	1016L4
		Use with 1053L inserts		

	<p>Tool holders with internal coolant</p> <p>See the «Tool holders with internal coolant» documentation for further information.</p>
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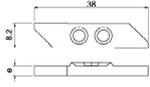
	<p>Cylindrical turning tool holders for counter operation</p> <p>See the «Cylindrical turning tool holders» documentation for further information.</p>
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100-1	Key	Article nr.
	Torx 15	100-1

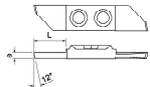
001-8	Screw for standard tool holder	Article nr.
	M3,5 x 9	001-8

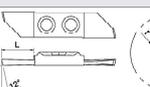
100-2c	Screw for «Pick up» tool holder	Article nr.
	M3,5 x 7	100-2c

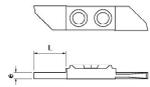
Blank R : Right machining

1040R	Blank insert	e	Article nr.	K20	BH40	BP90
		3,3	1040R3,3	✓	✓	✓

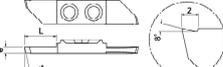
Guide bush cut off Ø 20 mm R : Right machining

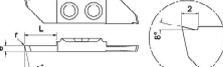
1050R	Cutting Insert 12°	e	L	Article nr.	BH40	BP90	BP100
		1,0	5,0	1050R1,0	✓	✓	✓
		1,2	6,0	1050R1,2	✓	✓	✓
		1,5	7,5	1050R1,5	✓	✓	✓
		1,8	9,0	1050R1,8	✓	✓	✓
		2,0	10,5	1050R2,0	✓	✓	✓
		2,2	10,5	1050R2,2	✓	✓	✓
		2,5	10,5	1050R2,5	✓	✓	✓
		3,0	10,5	1050R3,0	✓	✓	✓

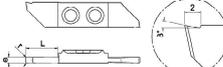
1050R - r	Cutting insert 12° with radius	e	L	r	Article nr.	BH40
		1,5	7,5	0,1	1050R1,5 - r 0,1 -	✓
		2,0	10,5	0,1	1050R2,0 - r 0,1 -	✓

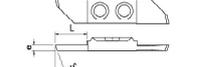
1050RP	Cutting insert 0°	e	L	Article nr.	BH40	BP90
		1,0	5,0	1050RP1,0	✓	✓
		1,5	7,5	1050RP1,5	✓	✓
		2,0	10,5	1050RP2,0	✓	✓
		2,5	10,5	1050RP2,5	✓	✓
		3,0	10,5	1050RP3,0	✓	✓

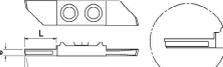
 Guide bush cut off Ø 20 mm R : Right machining

1051R	Cutting insert 15° with chip breaker	e	L	Article nr.	BH40	BP90
		1,0	5,0	1051R1,0	✓	✓
		1,2	6,0	1051R1,2	✓	✓
		1,5	7,5	1051R1,5	✓	✓
		2,0	10,5	1051R2,0	✓	✓
		2,5	10,5	1051R2,5	✓	✓

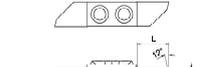
1051R - r	Cutting insert 15° with chip breaker and radius	e	L	r	Article nr.	BH40	BP90	BI100
		1,0	5,0	0,1	1051R1,0 - r 0,1 -	✓	✓	
		1,0	5,0	0,2	1051R1,0 - r 0,2 -	✓	✓	
		1,2	6,0	0,1	1051R1,2 - r 0,1 -	✓	✓	
		1,5	7,5	0,1	1051R1,5 - r 0,1 -	✓	✓	
		2,0	10,5	0,1	1051R2,0 - r 0,1 -	✓	✓	✓
		2,0	10,5	0,2	1051R2,0 - r 0,2 -	✓	✓	✓
		2,5	10,5	0,2	1051R2,5 - r 0,2 -	✓	✓	

1051RP - r	Cutting insert 0° with chip breaker and radius	e	L	r	Article nr.	BH40	BP90
		1,5	7,5	0,1	1051RP1,5 - r 0,1 -	✓	✓
		1,5	7,5	0,2	1051RP1,5 - r 0,2 -	✓	✓
		2,0	10,5	0,1	1051RP2,0 - r 0,1 -	✓	✓
		2,0	10,5	0,2	1051RP2,0 - r 0,2 -	✓	✓

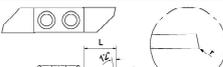
1052R	Cutting insert 20°	e	L	Article nr.	BH40	BP90
		1,0	5,0	1052R1,0	✓	✓
		1,2	6,0	1052R1,2	✓	✓
		1,5	7,5	1052R1,5	✓	✓
		2,0	10,5	1052R2,0	✓	✓
		2,5	10,5	1052R2,5	✓	✓

1054R	Cutting insert with chip roller	e	L	Article nr.	BH40	BP90
		1,0	5,0	1054R1,0	✓	✓
		1,2	6,0	1054R1,2	✓	✓
		1,5	7,5	1054R1,5	✓	✓
		2,0	10,5	1054R2,0	✓	✓
		2,5	10,5	1054R2,5	✓	✓

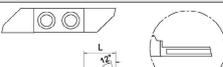
 Sub spindle cut off Ø 20 mm R : Right machining

1053R	Opposite cutting insert 12°	e	L	Article nr.	BH40	BP90	BI100
		1,0	5,0	1053R1,0	✓	✓	✓
		1,2	6,0	1053R1,2	✓	✓	✓
		1,5	7,5	1053R1,5	✓	✓	✓
		1,8	9,0	1053R1,8	✓	✓	✓
		2,0	10,5	1053R2,0	✓	✓	✓
		2,5	10,5	1053R2,5	✓	✓	✓
		3,0	10,5	1053R3,0	✓	✓	✓

Use with 10axL tool holders

1053R - r	Opposite cutting insert 12° with radius	e	L	r	Article nr.	BH40
		1,5	7,5	0,1	1053R1,5 - r 0,1	✓
		2,0	10,5	0,1	1053R2,0 - r 0,1 -	✓

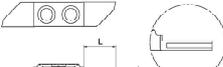
Use with 10axL tool holders

1053RX	Opposite cutting insert with chip roller	e	L	Article nr.	BH40	BP90
		1,0	5,0	1053RX1,0	✓	✓
		1,2	6,0	1053RX1,2	✓	✓
		1,5	7,5	1053RX1,5	✓	✓
		2,0	10,5	1053RX2,0	✓	✓

Use with 10axL tool holders

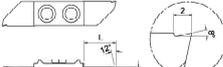
1053RP	Opposite cutting insert 0°	e	L	Article nr.	BH40	BP90
		1,0	5,0	1053RP1,0	✓	✓
		1,2	6,0	1053RP1,2	✓	✓
		1,5	7,5	1053RP1,5	✓	✓
		2,0	10,5	1053RP2,0	✓	✓
		2,5	10,5	1053RP2,5	✓	✓
		3,0	10,5	1053RP3,0	✓	✓

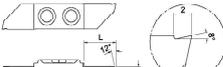
Use with 10axL tool holders

1053RPX	Opposite cutting insert 0° with chip roller	e	L	Article nr.	BH40
		1,5	7,5	1053RPX1,5	✓
		2,0	10,5	1053RPX2,0	✓

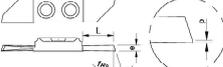
Use with 10axL tool holders

 Sub spindle cut off Ø 20 mm R : Right machining

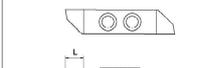
1056R	Opposite turning insert with chip breaker	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90
		1,5	7,5	1056R1,5	✓	✓
		2,0	10,5	1056R2,0	✓	✓
		2,5	10,5	1056R2,5	✓	✓
Use with 10axL tool holders						

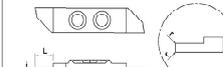
1056R - r	Opposite cutting insert with chip breaker and radius	e	L	r	Article nr.	BI40	BI90	BI100
		1,0	5,0	0,1	1056R1,0 - r 0,1 -	✓	✓	✓
		1,0	5,0	0,2	1056R1,0 - r 0,2 -	✓	✓	✓
		1,5	7,5	0,1	1056R1,5 - r 0,1 -	✓	✓	✓
		1,5	7,5	0,2	1056R1,5 - r 0,2 -	✓	✓	✓
		2,0	10,5	0,1	1056R2,0 - r 0,1 -	✓	✓	✓
		2,0	10,5	0,2	1056R2,0 - r 0,2 -	✓	✓	✓
		2,5	10,5	0,2	1056R2,5 - r 0,2 -	✓	✓	✓
Use with 10axL tool holders								

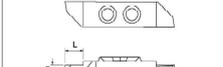
1056RP - r	Opposite cutting insert 0° with chip breaker and radius	e	L	r	Article nr.	BI40	BI90	
		1,5	7,5	0,1	1056RP1,5 - r 0,1 -	✓	✓	
		1,5	7,5	0,2	1056RP1,5 - r 0,2 -	✓	✓	
		2,0	10,5	0,1	1056RP2,0 - r 0,1 -	✓	✓	
		2,0	10,5	0,2	1056RP2,0 - r 0,2 -	✓	✓	
Use with 10axL tool holders								

1058R	Opposite cutting insert	e	L	p	Article nr.	BI40
		1,5	7,5	0,15	1058R1,5	✓
		2,0	10,5	0,20	1058R2,0	✓
Use with 10axL tool holders						

 Back turning R : Right machining

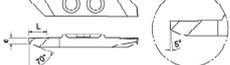
1060RP	Back turning insert 0°	e	L	Article nr.	BI40	BI90
		0,5	2,0	1060RP0,5	✓	✓
		0,6	2,0	1060RP0,6	✓	✓
		0,8	2,0	1060RP0,8	✓	✓
		1,0	3,0	1060RP1,0	✓	✓
		1,2	3,0	1060RP1,2	✓	✓
		1,5	4,0	1060RP1,5	✓	✓
		1,8	4,0	1060RP1,8	✓	✓
		2,0	5,0	1060RP2,0	✓	✓
		2,5	6,0	1060RP2,5	✓	✓
		3,0	6,0	1060RP3,0	✓	✓

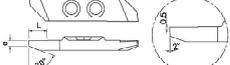
1060RP - r	Back turning insert 0° with radii	e	L	r	Article nr.	BI40	BI90
		1,0	3,0	0,1	1060RP1,0 - r 0,1 -	✓	✓
		1,0	3,0	0,2	1060RP1,0 - r 0,2 -	✓	✓
		1,5	4,0	0,1	1060RP1,5 - r 0,1 -	✓	✓
		1,5	4,0	0,2	1060RP1,5 - r 0,2 -	✓	✓
		2,0	5,0	0,1	1060RP2,0 - r 0,1 -	✓	✓
		2,0	5,0	0,2	1060RP2,0 - r 0,2 -	✓	✓
		2,5	6,0	0,1	1060RP2,5 - r 0,1 -	✓	✓

1061R	Back turning insert with «parisian cut»	e	L	Article nr.	BI40	BI90
		0,8	2,0	1061R0,8	✓	✓
		1,0	3,0	1061R1,0	✓	✓
		1,2	3,0	1061R1,2	✓	✓
		1,5	4,0	1061R1,5	✓	✓
		2,0	5,0	1061R2,0	✓	✓
		2,5	6,0	1061R2,5	✓	✓
		3,0	7,5	1061R3,0	✓	✓

1061R - r	Back turning insert with «parisian cut» and radii	e	L	r	Article nr.	BI40	BI90
		1,0	3,0	0,1	1061R1,0 - r 0,1 -	✓	✓
		1,0	3,0	0,2	1061R1,0 - r 0,2 -	✓	✓
		1,2	3,0	0,1	1061R1,2 - r 0,1 -	✓	✓
		1,2	3,0	0,2	1061R1,2 - r 0,2 -	✓	✓
		1,5	4,0	0,1	1061R1,5 - r 0,1 -	✓	✓
		1,5	4,0	0,2	1061R1,5 - r 0,2 -	✓	✓
		2,0	5,0	0,1	1061R2,0 - r 0,1 -	✓	✓
		2,0	5,0	0,2	1061R2,0 - r 0,2 -	✓	✓
		2,5	6,0	0,1	1061R2,5 - r 0,1 -	✓	✓
		2,5	6,0	0,2	1061R2,5 - r 0,2 -	✓	✓
		3,0	7,5	0,1	1061R3,0 - r 0,1 -	✓	✓
		3,0	7,5	0,2	1061R3,0 - r 0,2 -	✓	✓

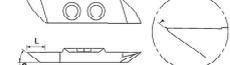
Back turning R : Right machining

1062R	Back turning Insert with «parisian cut»	e	L	Article nr.	BH40	BP90
					✓	✓
		1,0	6,0	1062R1,0	✓	✓
		1,5	6,0	1062R1,5	✓	✓
		2,0	6,0	1062R2,0	✓	✓

1062RO	Back turning insert	e	L	Article nr.	BH40	BP90	BI100
					✓	✓	✓
		1,0	5,0	1062RO1,0	✓	✓	✓
		1,5	6,0	1062RO1,5	✓	✓	✓
		2,0	7,5	1062RO2,0	✓	✓	✓

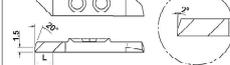
1068RO	Back turning insert	e	L	Article nr.	BH90
					✓
		0,5	8,0	1068RO0,5	✓

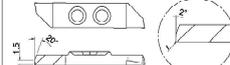
1063Rb - r	Back turning insert with chip roller end radius	L	α	r	Article nr.	BP90
						✓
		6,0	29°	0,15	1063Rb - 29° - r 0,15 -	✓
		6,0	29°	0,35	1063Rb - 29° - r 0,35 -	✓
		6,0	35°	0,15	1063Rb - 35° - r 0,15 -	✓
		6,0	35°	0,35	1063Rb - 35° - r 0,35 -	✓

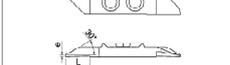
1063RO - r	Back turning insert with chip roller and radius	L	α	r	Article nr.	BP90
						✓
		6,0	29°	0,15	1063RO - 29° - r 0,15 -	✓
		6,0	29°	0,35	1063RO - 29° - r 0,35 -	✓
		6,0	35°	0,15	1063RO - 35° - r 0,15 -	✓
		6,0	35°	0,35	1063RO - 35° - r 0,35 -	✓

Front turning R : Right machining

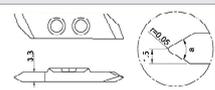
1064R	Front turning insert	L	Article nr.	BH40	BP90	BI100
				✓	✓	✓
		6,0	1064R	✓	✓	✓

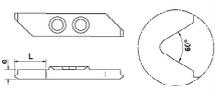
1065R	Front turning insert with chip breaker	L	Article nr.	BH40	BP90
				✓	✓
		6,0	1065R	✓	✓

1065R - r	Front turning insert with chip breaker and radius	L	r	Article nr.	BH40
					✓
		6,0	0,1	1065R - r 0,1 -	✓
		6,0	0,2	1065R - r 0,2 -	✓

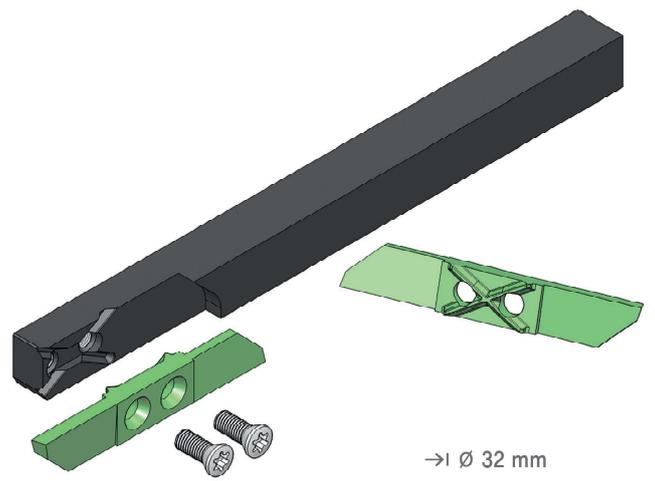
1067RO	Front turning insert	e	L	Article nr.	BP90
					✓
		0,5	8,0	1067RO0,5	✓

 Threading R : Right machining

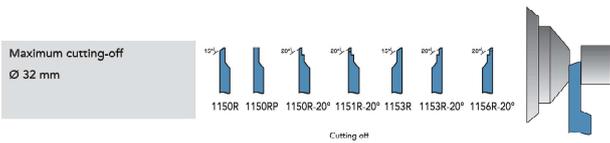
1080R	Threading insert with partial profile	a	Article nr.	BH40	BP90
		55°	1080R - 55° -	✓	✓
		60°	1080R - 60° -	✓	✓

1081R	Threading insert with full profile	e	L	Pitch	M	Article nr.	BH40
		1,0	3,0	0,45	2,5	1081R0,45	✓
		1,0	3,0	0,50	3	1081R0,5	✓
		1,0	3,0	0,60	-	1081R0,6	✓
		1,0	3,0	0,70	4	1081R0,7	✓
		1,5	4,5	0,80	5	1081R0,8	✓
		1,5	4,5	1,00	6	1081R1,0	✓
		1,5	4,5	1,25	4,5	1081R1,25	✓
		2,0	5,0	1,50	10	1081R1,5	✓
		2,0	5,0	1,75	12	1081R1,75	✓
		2,5	5,0	2,00	16	1081R2,0	✓

OXoline 1100
Very high rigidity inserts 1100



Field of application of OXoline 1100



11xxR	Right tool holder	Section C	Length L	Article nr.
		10 x 10	120	1110R
		12 x 12	120	1112R
		16 x 16	120	1116R
		20 x 20	120	1120R
		25 x 25	100	1125R

11xxL	Left tool holder	Section C	Length L	Article nr.
		10 x 10	120	1110L
		12 x 12	120	1112L
		16 x 16	120	1116L
		20 x 20	120	1120L
		25 x 25	100	1125L

11xxR4	«Pick-up» tool holder	Section C	Length L	Article nr.
		10 x 10	120	1110R4
		12 x 12	120	1112R4
Use with 1153R, 1156R - 20°, 1153R-20° inserts				

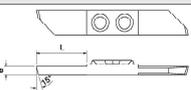
11xxRP7,5	Right «Pick-up» tool holder	Section C	Length L	Article nr.
		12 x 12	120	1112RP7,5
		Use with 1150R, 1150R-20° inserts		

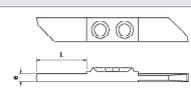
100-1	Key	Article nr.
	Torx 15	100-1

001-B	Screw for standard tool holder	Article nr.
	M3,5 x 9	001-8

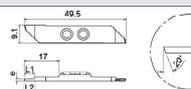
100-2c	Screw for tool holder	Article nr.
	M3,5 x 7	100-2c

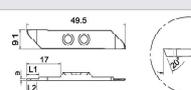
 Guide bush cut off Ø 32 mm R : Right machining

1150R	Cutting Insert 15°	e	L	Article nr.	BB80
		1,5	15,0	1150R1,5	✓
		2,0	17,0	1150R2,0	✓
		2,5	17,0	1150R2,5	✓
		3,0	17,0	1150R3,0	✓

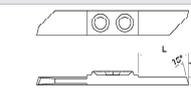
1150RP	Cutting insert 0°	e	L	Article nr.	BB80
		2,0	17,0	1150RP2,0	✓
		2,5	17,0	1150RP2,5	✓
		3,0	17,0	1150RP3,0	✓

 Guide bush cut off Ø 10 mm R : Right machining

1150R - 20°	Cutting Insert 20°	e	L1	L2	Article nr.	BB80
		0,8	6,0	5,0	1150R0,8 - 20° -	✓
		1,0	6,0	5,0	1150R1,0 - 20° -	✓
		1,2	6,0	5,0	1150R1,2 - 20° -	✓

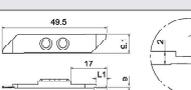
1151R - 20°	Cutting Insert 20° with chip breaker	e	L1	L2	Article nr.	BB80
		0,8	6,0	5,0	1151R0,8 - 20° -	✓
		1,0	6,0	5,0	1151R1,0 - 20° -	✓
		1,2	6,0	5,0	1151R1,2 - 20° -	✓

 Sub spindle cut off Ø 32 mm R : Right machining

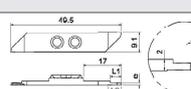
1153R	Opposite cutting insert 15°	e	L	Article nr.	BB80
		1,5	15,0	1153R1,5	✓
		2,0	17,0	1153R2,0	✓
		2,5	17,0	1153R2,5	✓
		3,0	17,0	1153R3,0	✓

Use with 11xxL tool holders

 Sub spindle cut off Ø 10 mm R : Right machining

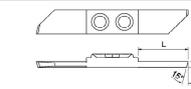
1153R - 20°	Opposite cutting insert 20°	e	L1	L2	Article nr.	BB80
		0,8	5,0	6,0	1153R0,8 - 20° -	✓
		1,0	5,0	6,0	1153R1,0 - 20° -	✓
		1,2	5,0	6,0	1153R1,2 - 20° -	✓

Use with 11xxL tool holders

1156R - 20°	Opposite cutting insert 20° with chip breaker	e	L1	L2	Article nr.	BB80
		0,8	5,0	6,0	1156R0,8 - 20° -	✓
		1,0	5,0	6,0	1156R1,0 - 20° -	✓
		1,2	5,0	6,0	1156R1,2 - 20° -	✓

Use with 11xxL tool holders

 Guide bush cut off Ø 32 mm L : Left machining

1150L	Cutting insert 15°	e	L	Article nr.	BB80
		2,0	17,0	1150L2,0	✓
		2,5	17,0	1150L2,5	✓
		3,0	17,0	1150L3,0	✓