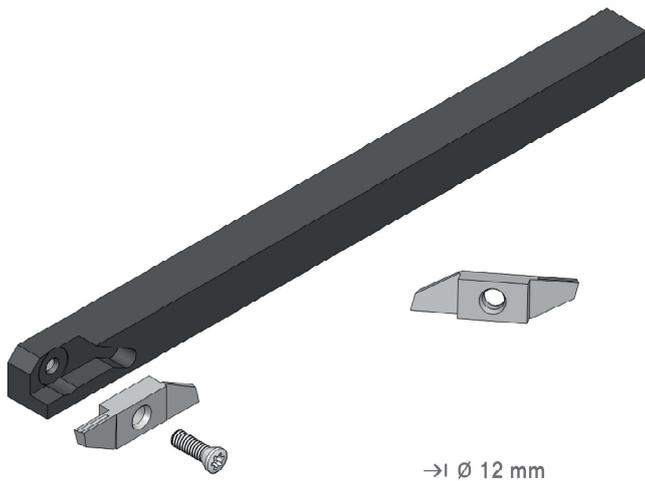


I 040 line

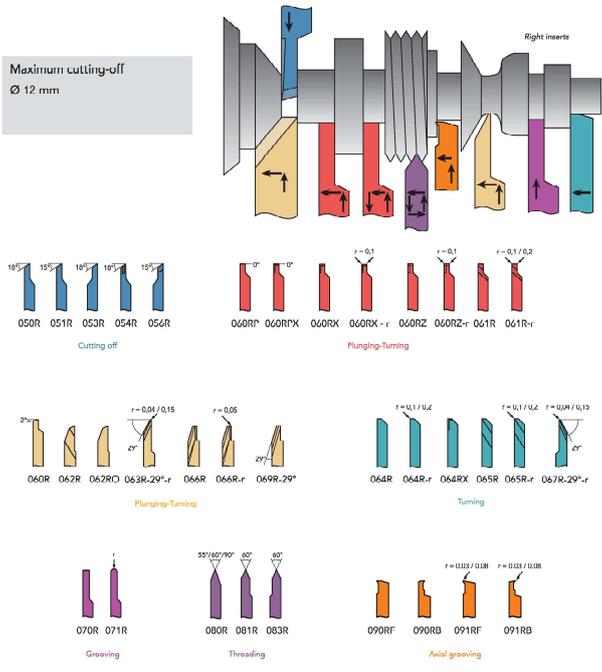


Coating of inserts / 코팅의 종류

√ = Available(재고 보유)

Designation(명칭)	Description(설명)
K18	Without coating K18 carbide(비코팅 K18 계열의 초경)
BI20	AlTi(Cr)N based • Very smooth surface finish(매우 매끈한 표면 처리) • For the machining of sticky materials(점성이 높은 소재 작업시 적합)
BI30	AlTiN-based + Micro finish • Very sharp cutting edges(매우 날카로운 철삭날) • Very smooth surface finish, ideal for non-ferrous materials (매끈한 표면 처리를 통해 비철소재 작업에 추천)
BI40	AlTi(Cr)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 스테인리스강에 적합)
BI70	AlTiSiN-based • Very smooth surface finish(매우 매끈한 표면 처리) • High wear resistance(높은 내마모성) • Ideal for hard machining(경질/공예 적합) • Perfect for stainless steels and high-temperature alloys (스테인리스강 및 고온합금 작업에 탁월)
BI71	AlCrN-based • Ultra thin layer(초박막 코팅) • Very smooth surface finish(매우 매끈한 표면 처리) • High heat resistance(높은 내열성) • High wear resistance(높은 내마모성)
BI80	AlTiN-based • Ultra-thin layer version of BI90(BI90 코팅의 초박막 처리 버전) • Perfect for small tools with sharp cutting edges (날카로운 가공면과 함께 소형 가공물에 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 스테인리스강에 적합)
BI100	AlCrN-based • Very high heat resistance(매우 높은 내열성) • High wear resistance(높은 내마모성) • Ideal for high speed machining of stainless steel(스테인리스강의 고속가공에 적합)
BI110	AlTiCrN-based • Very smooth surface finish(매우 매끈한 표면 처리) • High heat resistance(높은 내열성) • High wear resistance(높은 내마모성) • Especially suitable for machining pure copper, CuBe, CoCr and aluminium (그림코발트, 알루미늄, 순동, 이종소재 작업에 매우 적합)
TiN	TiN • Universal coating(대표적인 코팅)

Field of application of 040 line

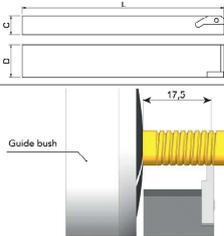


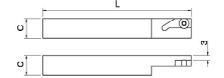
OxxR	Right tool holder	Section C	Length L	Article nr.
		7 x 7	120	007R
		8 x 8	120	008R
		10 x 10	120	010R
		12 x 12	120	012R
		16 x 16	100	016R
		20 x 20	100	020R
		9,52 x 9,52 (3/8")	120	0952R
		12,7 x 12,7 (1/2")	120	0127R

OxxL	Left tool holder	Section C	Length L	Article nr.
		7 x 7	140	007L
		8 x 8	140	008L
		10 x 10	120	010L
		12 x 12	120	012L
		16 x 16	100	016L
		20 x 20	100	020L
		12,7 x 12,7 (1/2")	120	0127L

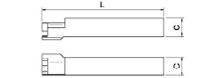
Oxx-12R	Reinforced right tool holder	Section C	Section D	Length L	Article nr.
		0	12	120	006-12R
		10	12	120	010-12R

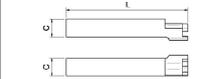
Oxx-12L	Reinforced left tool holder	Section C	Section D	Length L	Article nr.
		10	12	120	010-12L

Oxx-2xL	Left offset threading tool holder	Section C	Section D	Length L	Article nr.
		8	20	120	008-20L
		10	20	120	010-20L
		12	20	120	012-20L
		16	25	120	016-25L
Use with UB0R, UB1R and UB2R inserts					

OxxR3	«Pick-up» tool holder	Section C	Length L	Article nr.
		12 x 12	98	012R3
		9,52 x 9,52 (3/8")	98	0952R3
		12,7 x 12,7 (1/2")	98	0127R3
		Use with 053R and 056R inserts		

OxxRP6	Right «Pick-up» tool holder	Section C	Length L	Article nr.
		8 x 8	120	008RP6
		10 x 10	120	010RP6
		12 x 12	120	012RP6
		Use with R inserts		

OxxRF	Right tool holder for frontal machining	Section C	Length L	Article nr.
		12 x 12	80	012RF

OxxLF	Left tool holder for frontal machining	Section C	Length L	Article nr.
		12 x 12	80	012LF

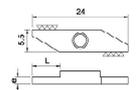
Cylindrical turning tool holders for counter-operation				
	See the «Cylindrical turning tool holders» documentation for further information			

Tool holders with internal coolant				
	See the «Tool holders with internal coolant» documentation for further information.			

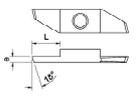
001-1	Key	Article nr.
	Torx 8	001-1

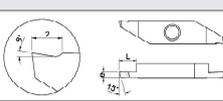
001-2	Screw for standard tool holder	Article nr.
	M2,5 x 7,5	001-2

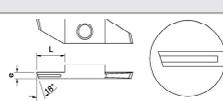
Blank R : Right machining

040R	Blank insert	e	L	Article nr.	KT8	BH0	BP0	BP1	BP0	BH00	BH10	TIN
 	1,2	5,0	040R1,2	✓								
	1,4	6,0	040R1,4	✓								
	1,5	6,0	040R1,5	✓								
	1,7	6,0	040R1,7	✓								
	2,0	6,0	040R2,0	✓								
	2,2	6,0	040R2,2	✓								
	2,7	6,0	040R2,7	✓								
	3,5	—	040R3,5	✓	✓	✓	✓	✓	✓	✓	✓	✓

Guide bush cut off Ø 12 mm R : Right machining

050R	Cutting insert 18°	e	L	Article nr.	BH0	BP0	BH10	TIN
 	0,5	2,5	050R0,5	✓	✓			
	0,7	2,5	050R0,7	✓	✓			✓
	0,8	4,0	050R0,8	✓	✓			✓
	1,0	4,0	050R1,0	✓	✓			✓
	1,2	5,0	050R1,2	✓	✓			✓
	1,5	6,5	050R1,5	✓	✓			✓
	1,8	6,5	050R1,8	✓	✓			✓
	2,0	6,5	050R2,0	✓	✓			✓

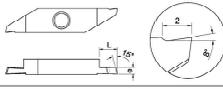
051R	Cutting insert 15° with chip roller	e	L	Article nr.	BH0	BP0	BH10	TIN
 	0,8	4,0	051R0,8	✓	✓			✓
	1,0	4,0	051R1,0	✓	✓			✓
	1,2	3,0	051R1,2	✓	✓			✓
	1,5	6,5	051R1,5	✓	✓			✓
	2,0	6,5	051R2,0	✓	✓			✓

054R	Cutting insert with chip roller	e	L	Article nr.	BH0	BP0	TIN
 	1,0	4,0	054R1,0	✓	✓		✓
	1,2	5,0	054R1,2	✓	✓		✓
	1,5	6,5	054R1,5	✓	✓		✓
	1,0	6,5	054R1,0	✓	✓		✓
	2,0	6,5	054R2,0	✓	✓		✓

Sub spindle cut off Ø 12 mm R : Right machining

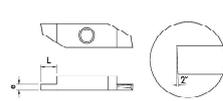
053R	Opposite cutting insert 18°	e	L	Article nr.	BH0	BP0	BH10
 	0,5	3,0	053R0,5	✓	✓		
	0,8	3,0	053R0,8	✓	✓		
	1,0	4,0	053R1,0	✓	✓		✓
	1,2	5,0	053R1,2	✓	✓		✓
	1,5	6,5	053R1,5	✓	✓		✓
	1,8	6,5	053R1,8	✓	✓		✓
	2,0	6,5	053R2,0	✓	✓		✓

Use with DoxL tool holders

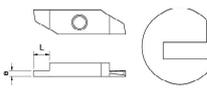
056R	Opposite cutting insert 15° with chip breaker	e	L	Article nr.	BH0	BP0	BH10
 	1,0	4,0	056R1,0	✓	✓		✓
	1,2	5,0	056R1,2	✓	✓		✓
	1,5	6,5	056R1,5	✓	✓		✓
	2,0	6,5	056R2,0	✓	✓		✓

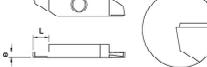
Use with DoxL tool holders

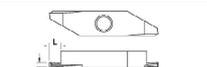
Back turning R : Right machining

060R	Back turning insert 2°	e	L	Article nr.	BH0	BP0	BH10	TIN
 	0,5	2,5	060R0,5	✓	✓			✓
	0,6	2,5	060R0,6	✓	✓			✓
	0,7	2,5	060R0,7	✓	✓			✓
	1,0	2,5	060R1,0	✓	✓			✓
	1,2	3,0	060R1,2	✓	✓			✓
	1,5	3,0	060R1,5	✓	✓			✓
	1,8	4,5	060R1,8	✓	✓			✓
	2,0	4,5	060R2,0	✓	✓			✓

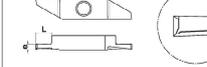
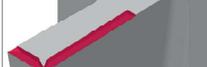
Back turning R : Right machining

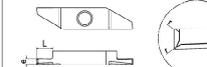
060RP	Back turning insert 0°	e	L	Article nr.	BP20	BP40	BP60	BP100	BP110	TIN
		0,45	2,5	060RP0,45						✓
		0,5	2,5	060RP0,5		✓				✓
		0,6	2,5	060RP0,6			✓			✓
		0,75	2,5	060RP0,75	✓					✓
		0,8	2,5	060RP0,8	✓	✓				✓
		0,9	2,5	060RP0,9	✓	✓				✓
		1,0	2,5	060RP1,0	✓	✓			✓	✓
		1,2	3,0	060RP1,2	✓	✓			✓	✓
		1,5	3,0	060RP1,5	✓	✓			✓	✓
		1,8	4,5	060RP1,8	✓	✓			✓	✓
		2,0	4,5	060RP2,0	✓	✓			✓	✓
2,5	4,5	060RP2,5	✓	✓			✓	✓		

060RPX	Back turning insert 0° with chip breaker	e	L	Article nr.	BP20	BP40
		1,0	2,5	060RPX1,0		✓
		1,2	3,0	060RPX1,2		✓
		1,5	3,0	060RPX1,5		✓
		1,8	4,5	060RPX1,8		✓

060RX	Back turning insert with chip breaker	e	L	Article nr.	BP110
		1,0	2,5	060RX1,0	✓
		1,5	4,0	060RX1,5	✓
		2,0	4,0	060RX2,0	✓

060RX - r	Back turning insert with chip breaker and radii	e	L	Article nr.	BP110
		1,0	2,5	060RX1,0 - r 0,1 -	✓
		1,5	4,0	060RX1,5 - r 0,1 -	✓
		2,0	4,0	060RX2,0 - r 0,1 -	✓

060RZ	Back turning insert with chip breaker	e	L	Article nr.	BP40	BP110
		1,0	2,5	060RZ1,0	✓	✓
		1,5	4,0	060RZ1,5	✓	✓
		2,0	4,0	060RZ2,0	✓	✓
						

060RZ - r	Back turning insert with chip breaker and radii	e	L	r	Article nr.	BP40	BP110
		1,0	2,5	0,1	060RZ1,0 - r 0,1 -	✓	✓
		1,2	3,0	0,1	060RZ1,2 - r 0,1 -	✓	✓
		1,5	4,0	0,1	060RZ1,5 - r 0,1 -	✓	✓
		2,0	4,0	0,1	060RZ2,0 - r 0,1 -	✓	✓
							

Back turning R : Right machining

061R	Back turning Insert with «parisian cut»	e	L	Article nr.				
					BP20	BP40	BP100	TIN
		0,7	1,5	061R0,7	✓	✓	✓	✓
		0,8	2,0	061R0,8	✓	✓	✓	✓
		1,0	2,5	061R1,0	✓	✓	✓	✓
		1,2	3,0	061R1,2	✓	✓	✓	✓
		1,5	3,0	061R1,5	✓	✓	✓	✓
		1,8	4,5	061R1,8	✓	✓	✓	✓
		2,0	4,5	061R2,0	✓	✓	✓	✓

061R - r	Back turning Insert with «parisian cut»	e	L	r	Article nr.				
						BP20	BP40	BP100	TIN
		0,7	1,5	0,05	061R0,7 - r 0,05	✓	✓	✓	✓
		0,8	2,0	0,05	061R0,8 - r 0,05	✓	✓	✓	✓
		1,0	2,5	0,05	061R1,0 - r 0,05	✓	✓	✓	✓
		1,0	2,5	0,1	061R1,0 - r 0,1	✓	✓	✓	✓
		1,0	2,5	0,15	061R1,0 - r 0,15	✓	✓	✓	✓
		1,2	3,0	0,1	061R1,2 - r 0,1	✓	✓	✓	✓
		1,2	3,0	0,2	061R1,2 - r 0,2	✓	✓	✓	✓
		1,5	3,0	0,1	061R1,5 - r 0,1	✓	✓	✓	✓
		1,5	3,0	0,2	061R1,5 - r 0,2	✓	✓	✓	✓
		2,0	4,5	0,1	061R2,0 - r 0,1	✓	✓	✓	✓

062R	Back turning Insert with «parisian cut»	e	L	D	α	Article nr.				
							BP20	BP40	BP100	TIN
		0,5	4,5	3,0	2°	062R0,5	✓	✓	✓	✓
		1,5	4,5	3,0	2°	062R1,5	✓	✓	✓	✓
		0,5	4,5	1,6	5°	062R1,6	✓	✓	✓	✓

062RO	Back turning insert	e	L	Article nr.				
					BP20	BP40	BP100	TIN
		0,5	4,5	062RO0,5	✓	✓	✓	✓
		0,8	4,5	062RO0,8	✓	✓	✓	✓
		1,0	4,5	062RO1,0	✓	✓	✓	✓
		1,5	4,5	062RO1,5	✓	✓	✓	✓
		2,0	4,5	062RO2,0	✓	✓	✓	✓

063R - 25°	Back turning insert 25° with chip breaker	e	p	L	B	α	Article nr.			
								BP71	BP15C	BP11C
		0,5	0,1	6,0	2,4	25°	063R0,5 - 0,1 - 25° -	✓	✓	✓
		0,5	0,1	6,0	2,4	25°	063R0,5 - 0,1 - 25° - r 0,08 -	✓	✓	✓

063R - 25° - r	Back turning insert 25° with chip breaker and radius	e	p	L	B	α	r	Article nr.			
									BP71	BP15C	BP11C
		0,5	0,1	6,0	2,4	25°	0,04	063R0,5 - 0,1 - 25° - r 0,04 -	✓	✓	✓
		0,5	0,1	6,0	2,4	25°	0,08	063R0,5 - 0,1 - 25° - r 0,08 -	✓	✓	✓

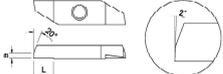
063R - 29° - r	Back turning insert 29° with chip breaker and radius	L	α	r	Article nr.				
						BP20	BP40	BP100	TIN
		5,0	29°	0,04	063R - 29° - r 0,04 -	✓	✓	✓	✓
		5,0	29°	0,08	063R - 29° - r 0,08 -	✓	✓	✓	✓
		5,0	29°	0,1	063R - 29° - r 0,1 -	✓	✓	✓	✓
		5,0	29°	0,15	063R - 29° - r 0,15 -	✓	✓	✓	✓
		5,0	29°	0,2	063R - 29° - r 0,2 -	✓	✓	✓	✓

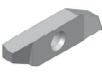
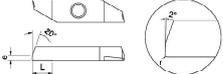
066R	Back turning insert with «W» chip roller	A	B	L	Article nr.				
						KT8	BP40	BP90	BP100
		0,5	1,3	2,5	066R2,5	✓	✓	✓	✓
		0,5	1,3	2,5	066R2,5	✓	✓	✓	✓

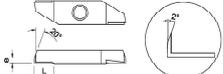
066R - r	Back turning insert with «W» chip roller and radius	A	B	L	r	Article nr.			
							KT8	BP40	BP90
		0,5	1,3	2,5	0,05	066R2,5 - r 0,05 -	✓	✓	✓
		0,5	1,3	2,5	0,1	066R2,5 - r 0,1 -	✓	✓	✓
		0,7	2,0	3,5	0,05	066R3,5 - r 0,05 -	✓	✓	✓

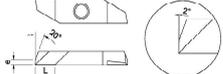
069R - 29°	Insert 29° for fine back turning	e	L	E	Article nr.		
						BP71	BP80
		0,1	0,9	0,6	069R0,1 - 29° - 0,6 -	✓	✓
		0,1	1,6	1,0	069R0,1 - 29° - 1,0 -	✓	✓
		0,1	4,3	2,5	069R0,1 - 29° - 2,5 -	✓	✓

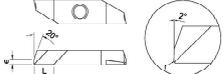
Front turning R : Right machining

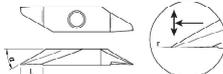
064R	Front turning insert	e	L	Article nr.	BI20	BI40	BI90	BI100	BI110	TIN
		1,5	5,0	064R3,5	✓	✓	✓	✓	✓	✓

064R - r	Front turning insert with radius	e	L	r	Article nr.	BI20	BI40
		1,5	5,0	0,1	064R3,5 - r 0,1 -	✓	✓
		1,5	5,0	0,2	064R3,5 - r 0,2 -	✓	✓

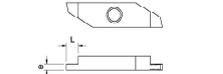
064RX	Front turning insert with chip breaker	e	L	Article nr.	BI20	BI40	BI90	BI100	BI110
		1,5	5,0	064RX3,5	✓	✓	✓	✓	✓

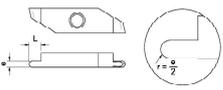
065R	Front turning insert with «parisian cut»	e	L	Article nr.	BI20	BI40	BI90	BI100	BI110	TIN
		1,5	5,0	065R3,5	✓	✓	✓	✓	✓	✓

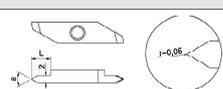
065R - r	Front turning insert with «parisian cut» and radius	e	L	r	Article nr.	BI20	BI40
		1,5	5,0	0,1	065R3,5 - r 0,1 -	✓	✓
		1,5	5,0	0,2	065R3,5 - r 0,2 -	✓	✓

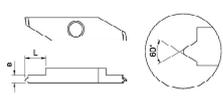
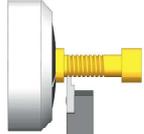
067R - 29° - r	Front turning insert 29° with chip breaker and radius	L	α	r	Article nr.	BI20	BI90	BI100	BI110
		5,0	29°	0,04	067R - 29° - r 0,04 -	✓	✓	✓	✓
		5,0	29°	0,08	067R - 29° - r 0,08 -	✓	✓	✓	✓
		5,0	29°	0,1	067R - 29° - r 0,1 -	✓	✓	✓	✓
		5,0	29°	0,15	067R - 29° - r 0,15 -	✓	✓	✓	✓
		5,0	29°	0,2	067R - 29° - r 0,2 -	✓	✓	✓	✓

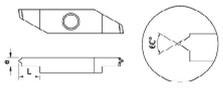
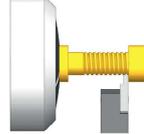
Grooving R : Right machining

070R	Grooving insert	e	L	Article nr.	BI20	BI40	BI100
		0,2	1,0	070R0,2	✓	✓	✓
		0,25	1,0	070R0,25	✓	✓	✓
		0,3	1,0	070R0,3	✓	✓	✓
		0,35	1,0	070R0,35	✓	✓	✓
		0,4	2,0	070R0,4	✓	✓	✓
		0,45	2,0	070R0,45	✓	✓	✓
		0,5	2,0	070R0,5	✓	✓	✓
		0,6	2,0	070R0,6	✓	✓	✓
		0,7	2,5	070R0,7	✓	✓	✓
		0,8	2,0	070R0,8	✓	✓	✓
		0,85	2,0	070R0,85	✓	✓	✓
		0,9	2,5	070R0,9	✓	✓	✓
		0,95	2,5	070R0,95	✓	✓	✓
		1,0	3,0	070R1,0	✓	✓	✓
		1,1	3,0	070R1,1	✓	✓	✓
		1,2	3,0	070R1,2	✓	✓	✓
		1,3	3,0	070R1,3	✓	✓	✓
		1,4	3,0	070R1,4	✓	✓	✓
		1,5	3,0	070R1,5	✓	✓	✓
		1,6	3,0	070R1,6	✓	✓	✓
		1,7	3,0	070R1,7	✓	✓	✓
		1,8	3,0	070R1,8	✓	✓	✓
		2,0	3,0	070R2,0	✓	✓	✓
		2,1	3,0	070R2,1	✓	✓	✓

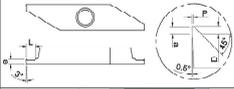
Grooving						R : Right machining			
		e	L	r	Article nr.	B100	B110	B120	B130
		0,3	1,5	0,15	071R0,3 - r 0,15 -	✓			
		0,4	1,5	0,2	071R0,4 - r 0,2 -	✓			
		0,5	2,0	0,25	071R0,5 - r 0,25 -	✓			
		0,6	2,0	0,3	071R0,6 - r 0,3 -	✓			
		0,7	2,0	0,35	071R0,7 - r 0,35 -	✓			
		0,8	2,0	0,4	071R0,8 - r 0,4 -	✓			
		1,0	3,0	0,5	071R1,0 - r 0,5 -	✓			
		1,1	3,0	0,55	071R1,1 - r 0,55 -	✓			
		1,2	3,0	0,6	071R1,2 - r 0,6 -	✓			
		1,3	3,0	0,65	071R1,3 - r 0,65 -	✓			
		1,4	3,0	0,7	071R1,4 - r 0,7 -	✓			
		1,5	3,0	0,75	071R1,5 - r 0,75 -	✓			
		1,6	3,0	0,8	071R1,6 - r 0,8 -	✓			
		2,0	3,0	1,0	071R2,0 - r 1,0 -	✓			
2,5	3,0	1,25	071R2,5 - r 1,25 -	✓					
3,0	3,5	1,5	071R3,0 - r 1,5 -	✓					

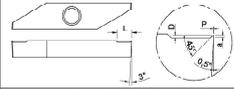
Threading						R : Right machining			
		L	a	Article nr.	B100	B110	B120	B130	
		5,0	55°	080R - 55° -	✓				
		5,0	60°	080R - 60° -	✓				
		5,0	90°	080R - 90° -	✓				
					✓				

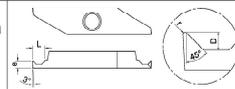
081R		Threading insert with full profile							
		e	L	Pitch	M	Article nr.	B100	B110	
		1,0	3,0	0,20	-	081R0,2	✓		
		1,0	3,0	0,25	1/12	081R0,25	✓		
		1,0	3,0	0,30	1,4	081R0,3	✓		
		1,0	3,0	0,35	1,6	081R0,35	✓		
		1,0	3,0	0,40	2,0	081R0,4	✓		
		1,0	3,0	0,45	2,5	081R0,45	✓		
		1,0	3,0	0,50	3,0	081R0,5	✓		
		1,0	3,0	0,60	3,5	081R0,6	✓		
		1,0	3,0	0,70	4,0	081R0,7	✓		
		1,0	3,0	0,75	4,5	081R0,75	✓		
		1,5	4,5	0,80	5,0	081R0,8	✓		
		1,5	4,5	1,00	6,0	081R1,0	✓		
		1,5	4,5	1,25	8,0	081R1,25	✓		
		2,0	5,0	1,50	10	081R1,5	✓		
						Threading on side = screw point Use with Ooxil tool holders			

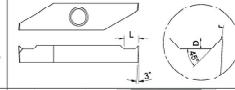
083R		Threading insert with full profile									
		e	L	Pitch	M	Article nr.	B100	B110			
		1,0	3,0	0,25	1/12	083R0,25	✓				
		1,0	3,0	0,30	1,4	083R0,3	✓				
		1,0	3,0	0,35	1,6	083R0,35	✓				
		1,0	3,0	0,40	2,0	083R0,4	✓				
		1,0	3,0	0,45	2,5	083R0,45	✓				
		1,0	3,0	0,50	3,0	083R0,5	✓				
		1,0	3,0	0,60	3,5	083R0,6	✓				
		1,0	3,0	0,70	4,0	083R0,7	✓				
		1,0	3,0	0,75	4,5	083R0,75	✓				
		1,5	4,5	0,80	5,0	083R0,8	✓				
		1,5	4,5	1,00	6,0	083R1,0	✓				
		1,5	4,5	1,25	8,0	083R1,25	✓				
								Threading on side = screw head Use with Ooxil tool holders			

Axial grooving R : Right machining

090RB		Back axial grooving insert with flat plan	e	L	P	D	a	Article nr.	BI71
			1,0	2,0	0,03	0,2	0,15	090RB - 45° - 0,03 - 0,2 -	✓
			1,2	2,0	0,05	0,4	0	U90RB - 45° - 0,05 - 0,4 -	✓
			1,4	3,0	0,1	0,6	0	090RB - 45° - 0,1 - 0,6 -	✓
									

090RF		Front axial grooving insert with flat plan	e	L	P	D	a	Article nr.	BI71
			-	2,0	0,03	0,1	0,15	090RF - 45° - 0,03 - 0,2 -	✓
			-	2,0	0,05	0,4	0	090RF - 45° - 0,05 - 0,4 -	✓
			-	3,0	0,1	0,6	0	090RF - 45° - 0,1 - 0,6 -	✓
									

091RB		Back axial grooving insert with radius	e	L	r	D	Article nr.	BI71
			1,2	1,9	0,03	0,4	091RB - 45° - r 0,03 - 0,4 -	✓
			1,5	2,6	0,08	0,7	091RB - 45° - r 0,08 - 0,7 -	✓
								

091RF		Front axial grooving insert with radius	e	L	r	D	Article nr.	BI71
			-	3,0	0,03	0,7	091RF - 45° - r 0,03 - 0,7 -	✓
			-	3,0	0,08	0,7	091RF - 45° - r 0,08 - 0,7 -	✓
								