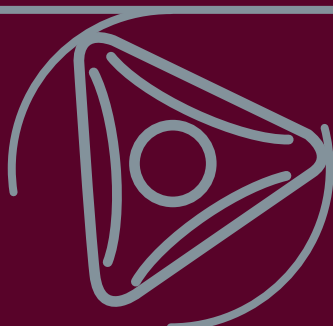
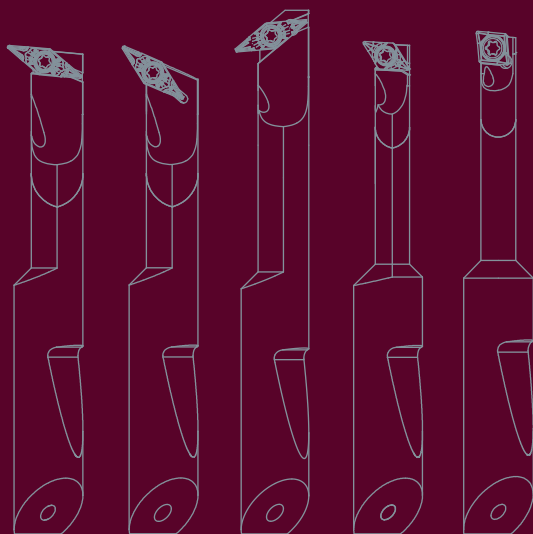


EVO®



| Mini boring tools for internal turning
with indexable inserts

| Mini bareni per tornitura interna
con inserti intercambiabili



EVO[®]



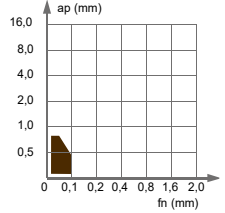
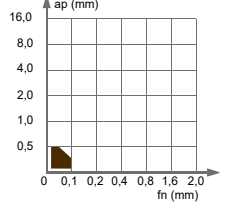
| **Mini boring tools for internal turning
with indexable inserts**

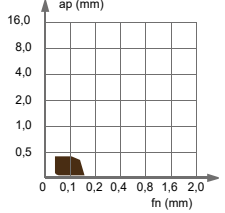
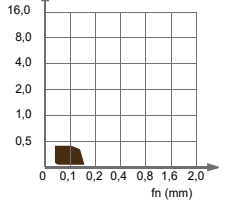
| **Mini barenì per tornitura interna
con inserti intercambiabili**



EVO	DIN ISO 513		Material Materiale	Toughness Tenacità	Application Applicazione
NU0020	Uncoated carbide Metallo duro non rivestito	N15-25			- micrograin grade with good wear resistance and low sticking tendency - suitable for low-medium cutting speeds on cast iron and high cutting speeds on non-ferrous materials - qualità micrograno con buona resistenza all'usura e bassa tendenza all'incollamento - indicata per medio-basse velocità di taglio per ghisa ed alte per materiali non ferrosi
N0010	Coated carbide Metallo duro rivestito	N10-20			- grade with good toughness and wear resistance - suitable for medium-high cutting speeds and medium-high feedrate - qualità con buona tenacità e resistenza all'usura - qualità indicata per medio-alte velocità di taglio e medio-alti avanzamenti
N4025	Coated carbide Metallo duro rivestito	P30-40 M15-35			- grade with good toughness and hardness - excellent wear resistance at low and high cutting speeds - innovative PVD coating with high thermal protection - qualità con buona tenacità e durezza a caldo - ottima resistenza all'usura sia a basse che alte velocità di taglio - rivestimento PVD di ultima generazione ad alta protezione termica
N4035	Coated carbide Metallo duro rivestito	P35-45 M25-45			- excellent behavior in difficult situations - innovative PVD coating with high thermal protection - ottimo comportamento nelle situazioni difficili - rivestimento PVD di ultima generazione ad alta protezione termica

EVO	DIN ISO 513		Material Materiale	Toughness Tenacità	Application Applicazione
P1000	Uncoated PCD PCD non rivestito	N10-20			- PCD quality suitable for machining on aluminum alloys - Qualità PCD idonea alla lavorazione delle leghe d'alluminio
P1020	Uncoated PCD PCD non rivestito	N15-25			- Excellent PCD quality in the machining of aluminum alloys - Qualità PCD eccellente nella lavorazione delle leghe d'alluminio
BU9005	Uncoated CBN CBN non rivestito	K05-15 H10-30			- High hardness uncoated CBN for high speed cutting on hardened steel and cast iron with stable cutting conditions - CBN non rivestito con elevata durezza per la lavorazione ad elevata velocità di taglio di acciaio temprato e ghisa in condizioni di taglio stabili

EVO	Material Materiale	Machining Lavorazione	Strenght Robustezza	ap/f	Application Applicazione
MS05					Sharp geometry with main application for finishing stainless steel and superalloys and secondary application to finish aluminum alloys and cast iron. Geometria affilata con principale applicazione nella finitura dell'acciaio inossidabile e delle superleghe e con applicazione secondaria nella finitura di leghe d'alluminio e ghisa.
					
NN05					Sharp geometry with main application for light machining of aluminum. It can also be used for finishing on aluminum and for light machining and finishing on superalloys. Geometria affilata con principale applicazione nella lavorazione leggera di alluminio. Può anche essere impiegata nella finitura di alluminio e nella lavorazione leggera e di finitura di superleghe.
					

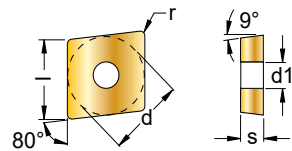
EVO	Material Materiale	Machining Lavorazione	Strenght Robustezza	ap/f	Application Applicazione
F45*					Flat geometry suitable for general application Geometria piatta per applicazioni generali.
					
F50					Flat geometry suitable for general application Geometria piatta per applicazioni generali.
					

* Also available in the Full Face version (FF45)

* Disponibile anche nella versione Full Face (FF45)

ENK.CCGT

Indexable inserts for internal **turning** mini boring tools
Inserti per mini bareni di **tornitura** interna



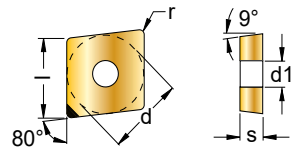
Insert / Inserto		l	d	s	d1
CCGT	0301	3,52	3,52	1,40	2,00

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . CCGT 030101 . BKMS05 . N4025	19,60	0,1								
ENK . CCGT 030102 . BKMS05 . N4025	19,60	0,2								

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . CCGT 030101 . BKNN05 . NU0110	16,40	0,1								
ENK . CCGT 030102 . BKNN05 . NU0110	16,40	0,2								

ENK.CCGW

PCD and CBN indexable inserts for internal **turning** mini boring tools
Inserti PCD e CBN per mini bareni di **tornitura** interna



Insert / Inserto		l	d	s	d1
CCGW	0301	3,52	3,52	1,40	2,00

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . CCGW 030101 . BK11F45 . P1000	98,50	0,1								
ENK . CCGW 030102 . BK11F45 . P1000	98,50	0,2								

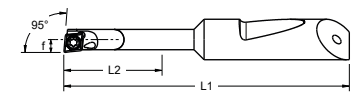
art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	H
ENK . CCGW 030101 . BK1FF50 . BU9005	129,30	0,1								
ENK . CCGW 030102 . BK1FF50 . BU9005	129,30	0,2								

Mini boring tools for internal **turning** with indexable inserts
Mini bareni per **tornitura** interna con inserti intercambiabili

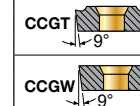
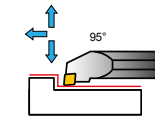
CCGT
CCGW

ENH.E_SCLCR/L

ENH. E_SCLCR/L 95°



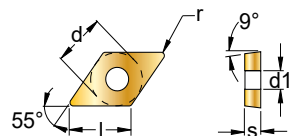
Right-hand shown
In figura utensile destro



art.	D min	D1	L1	L2	f	h	1	0301	€
ENH . E0408 SCLCR/L 03	5	8	57	26	2,5	-	1	0301	453,00

ENK.DCGT

Indexable inserts for internal **turning** mini boring tools
Inserti per mini bareni di **tornitura** interna



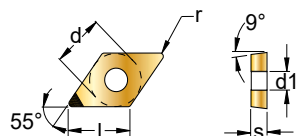
Insert / Inserto	l	d	s	d1
DCGT 04T0	3,52	3,10	1,20	1,70

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . DCGT 04T002 . BKMS05 . N4025	19,60	0,2								
			M							
			S							
			K							
			N							

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	N
ENK . DCGT 04T002 . BKNN05 . NU0110	16,90	0,2				NU0110	
ENK . DCGT 04T002 . BKNN05 . N0010	20,20	0,2					N0010
						N1.1 120 - 280	N1.1 180 - 350
						N1.2 100 - 240	N1.2 140 - 300
						N1.3 90 - 220	N1.3 120 - 280

ENK.DCGW

PCD and CBN indexable inserts for internal **turning** mini boring tools
Inserti PCD e CBN per mini bareni di **tornitura** interna



Insert / Inserto	l	d	s	d1
DCGW 04T0	3,52	3,10	1,20	1,70

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	N
ENK . DCGW 04T001 . BK11F45 . P1000	98,50	0,1				P1000	
ENK . DCGW 04T002 . BK11F45 . P1000	98,50	0,2					P1020
						N1.1 600 - 1200	N1.1 500 - 1000
						N1.2 400 - 800	N1.2 300 - 700
						N1.3 250 - 600	N1.3 200 - 400

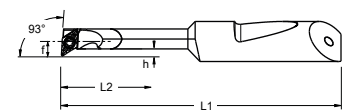
art.	€	r	geometry	toughness	ap/f	Vt (m/min)	K	H
ENK . DCGW 04T001 . BK1FF50 . BU9005	129,30	0,1						
ENK . DCGW 04T002 . BK1FF50 . BU9005	129,30	0,2						
						H1.1 180 - 220	K1.1 300 - 400	
						H1.2 130 - 160	K1.2 220 - 320	
						H1.3 80 - 120	K2.1 110	

Mini boring tools for internal **turning** with indexable inserts
Mini bareni per **tornitura** interna con inserti intercambiabili

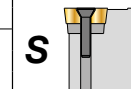
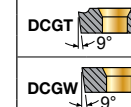
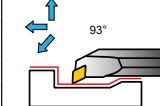
DCGT
DCGW

ENH.E_SDUCR/L

ENH. E_SDUCR/L 93°



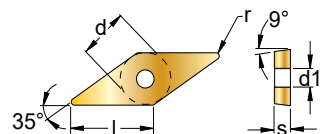
Right-hand shown
In figura utensile destro



art.	D min	D1	L1	L2	f	h	ap	€
ENH. E0408 SDUCR/L 04	5,6	8	57	26	3	1,5	04T0	453,00

ENK.VCGT

Indexable inserts for internal **turning** mini boring tools
Inserti per mini baren di **tornitura** interna



Insert / Inserto		l	d	s	d1
VCGT	0501	5,40	3,10	1,59	1,70

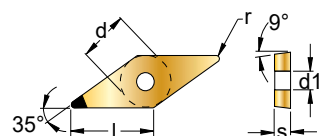
art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . VCGT 050102 . BKMS05 . N4025	20,20	0,2								

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . VCGT 050102 . BKMS05 . N4035	20,20	0,2								

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . VCGT 050102 . BKNN05 . NU0110	19,60	0,2								
ENK . VCGT 050102 . BKNN05 . N0010	20,20	0,2								

ENK.VCGW

PCD and CBN indexable inserts for internal **turning** mini boring tools
Inserti PCD e CBN per mini baren di **tornitura** interna



Insert / Inserto		l	d	s	d1
VCGW	0501	5,40	3,10	1,59	1,70

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	N
ENK . VCGW 050102 . BK11F45 . P1000	98,50	0,2								
ENK . VCGW 050102 . BK11F45 . P1020	129,30	0,2								

art.	€	r	geometry	toughness	ap/f	Vt (m/min)	M	S	K	H
ENK . VCGW 050101 . BK11F50 . BU9005	129,30	0,1								
ENK . VCGW 050102 . BK11F50 . BU9005	129,30	0,2								

Mini boring tools for internal **turning** with indexable inserts
Mini baren per **tornitura** interna con inserti intercambiabili

VCGT
VCGW

ENH.E_SVLCR/L
ENH.E_SV95CR/L
ENH.E_SVXCR/L

ENH. E_SVLCR/L 95°

Right-hand shown
In figura utensile destro

VCGT 9°
VCGW 9°

S

art.	D min	D1	L1	L2	f	h	1	0501	€
ENH. E0408 SVLCR/L 05	9,2	8	57	26	5	3	1	0501	453,00

ENH. E_SV95CR/L 5°

Right-hand shown
In figura utensile destro

VCGT 9°
VCGW 9°

S

art.	D min	D1	L1	L2	f	h	1	0501	€
ENH. E0408 SV95CR/L 05	9,2	8	57	26	5	3	1	0501	453,00

ENH. E_SVXCR/L 113°

Right-hand shown
In figura utensile destro

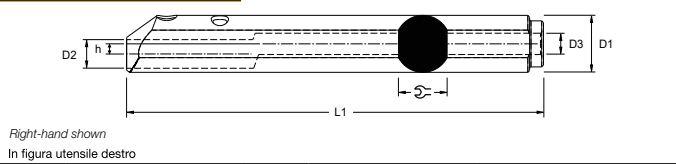
VCGT 9°
VCGW 9°

S

art.	D min	D1	L1	L2	f	h	1	0501	€
ENH. E0408 SVXCR/L 05	9,2	8	57	26	5	3	1	0501	453,00

1	SP-IV.BKDC04VC05	A-W.BL.B030
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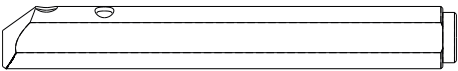
ENH. MRBK
ENH. MLBK



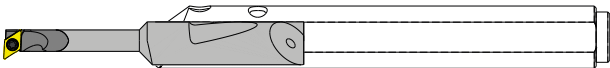
art.	D1	D2	D3	L1	h			€
ENH. MRBK-08 . 120 . 160	16	8	6	120	2,8	14	1	586,00
ENH. MLBK-08 . 120 . 160	16	8	6	120	2,8	14	1	586,00

1	SP-DV.M060.103.BK	A-W.BL.B030

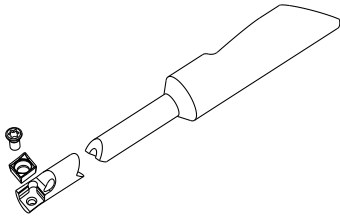
Montaggio fisso del porta utensile sul lato macchina
Fixed mounting of the tool holder on the machine side



Mini barenò sostituibile separatamente
Mini boring tool separately exchangeable



Gambo in metallo duro con testa in acciaio saldobrasato
Carbide shank with brazed steel head





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