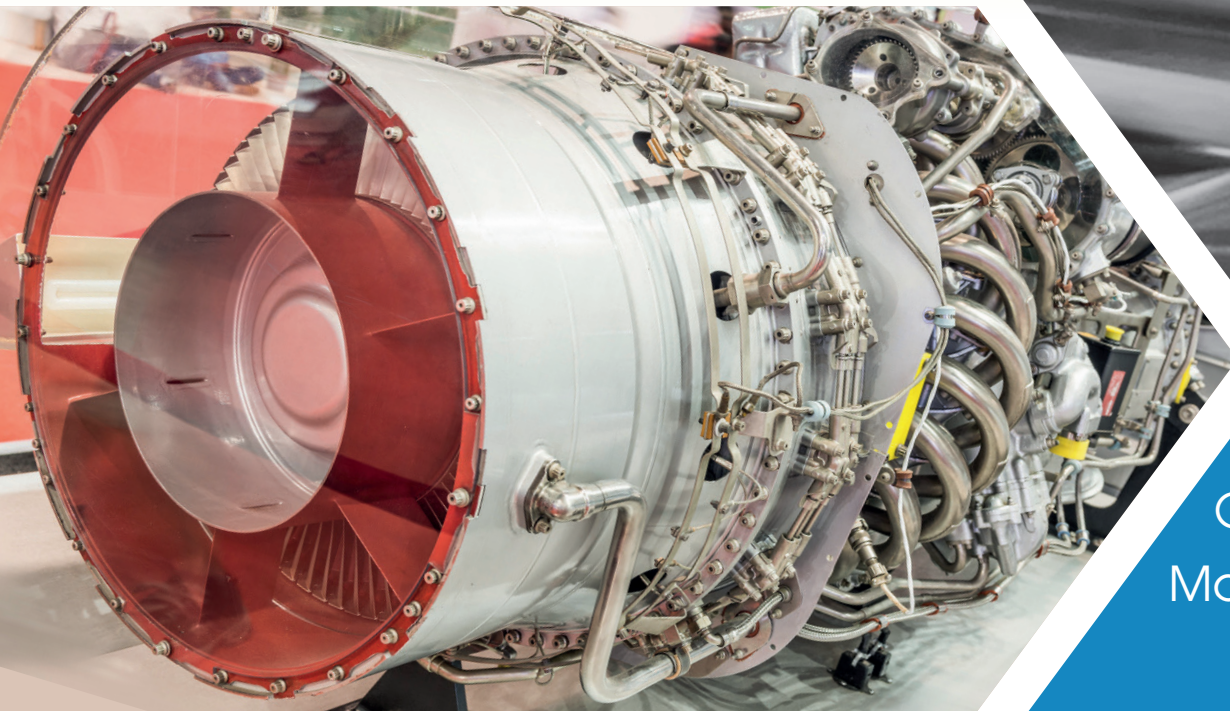


Cerini[®]
CUTTING TOOLS MANUFACTURING



AEROSPACE



Composite
Material

Complete product range for composite machining



MADE IN ITALY



We've been shaping the future for over 45 years

Since 1971 CERIN S.p.A. has supplied the industry with **innovative solid carbide precision cutting tools**.

The engineers and employees have worked to push the limit of innovation allowing us to become one of the world leader in the design and manufacture of solid carbide precision cutting tools thanks to a high technological profile and the ability to offer standard and tailor-made solutions to satisfy the most sophisticated requests of the market. The standard range is one of the widest and most complete.

Our tools are suitable to work any kind of material even newly developed ones.

We are up to the challenge and ready to develop new products and processes to find you a terrific solution

The product range is focused on:

Multiple composite/metal stack panels (CFRP/titanium and CFRP/aluminum) drilling with diamond coated carbide tools;

CFRP and GFRP milling with diamond coated carbide end mills;

Honeycomb panels milling and cut with multi-flute tools;

Nickel-based alloy machining with roughing and finishing cylindrical tools, with and without internal cooling;

HSC end mills for aluminum high material removal;

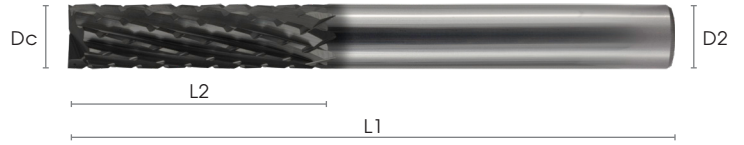
High performance cylindrical end mills with cutting edge preparation for low and high alloy steel.



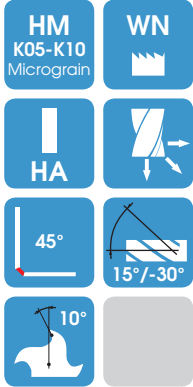
ADVANCED CFRP MILLING LINE

Right helix CFRP milling

CVD Diamond Cer-DM



68DX

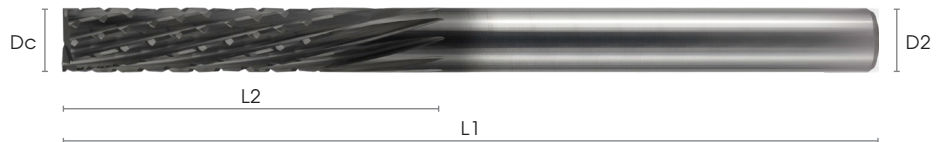


Cod.	Dc	Dc tol.	L2	L1	D2
68DX.040061660DM	4	e9	16	60	6
68DX.060062060DM	6	e9	20	60	6
68DX.060063575DM	6	e9	35	75	6
68DX.080083275DM	8	e9	32	75	8
68DX.0800840100DM	8	e9	40	100	8
68DX.100103272DM	10	e9	32	72	10
68DX.1001050100DM	10	e9	50	100	10
68DX.120123283DM	12	e9	32	83	12
68DX.1201260120DM	12	e9	60	120	12

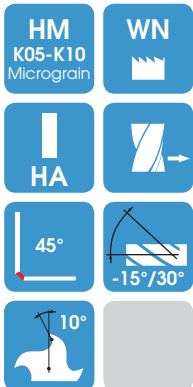
ADVANCED CFRP MILLING LINE

Left helix CFRP milling

CVD Diamond Cer-DM



68SX

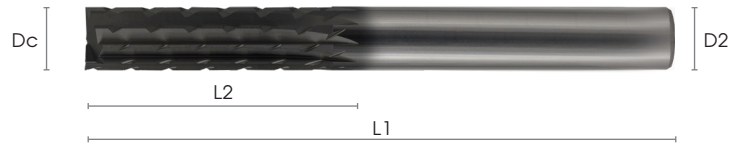


Cod.	Dc	Dc tol.	L2	L1	D2
68SX.040061680DM	4	e9	16	80	6
68SX.060062080DM	6	e9	20	80	6
68SX.0600635100DM	6	e9	35	100	6
68SX.0800832100DM	8	e9	32	100	8
68SX.0800840120DM	8	e9	40	120	8
68SX.1001032100DM	10	e9	32	100	10
68SX.1001050120DM	10	e9	50	120	10
68SX.1201232100DM	12	e9	32	100	12
68SX.1201260150DM	12	e9	60	150	12

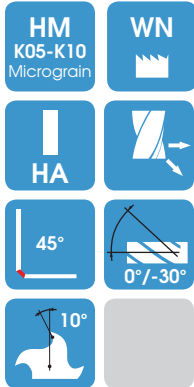
ADVANCED CFRP MILLING LINE

Straight flute CFRP milling

CVD Diamond Cer-DM



68TD

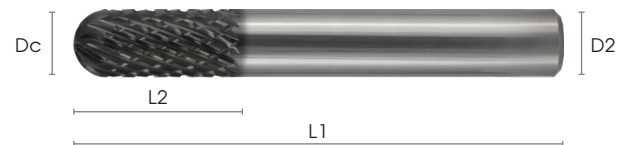


Cod.	Dc	Dc tol.	L2	L1	D2
68TD.040061680DM	4	e9	16	80	6
68TD.060062080DM	6	e9	20	80	6
68TD.0600635100DM	6	e9	35	100	6
68TD.0800832100DM	8	e9	32	100	8
68TD.0800840120DM	8	e9	40	120	8
68TD.1001032100DM	10	e9	32	100	10
68TD.1001050120DM	10	e9	50	120	10
68TD.1201232100DM	12	e9	32	100	12
68TD.1201260150DM	12	e9	60	150	12

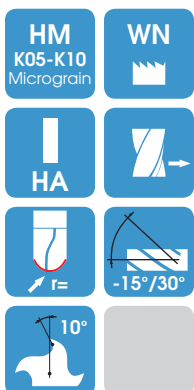
ADVANCED CFRP MILLING LINE

Ball nose right helix CFRP milling

CVD Diamond Cer-DM



68RDX



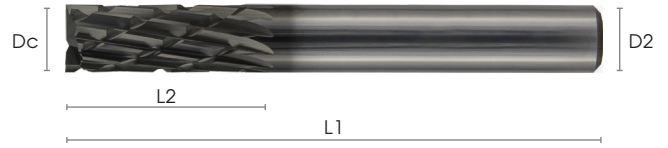
Cod.	Dc	tol.	L2	L1	D2
68RDX.040061960DM	4	+0 / -0,02	19	60	6
68RDX.060062360DM	6	+0 / -0,02	23	60	6
68RDX.080083675DM	8	+0 / -0,02	36	75	8
68RDX.100103772DM	10	+0 / -0,02	37	72	10
68RDX.120123883DM	12	+0 / -0,02	38	83	12



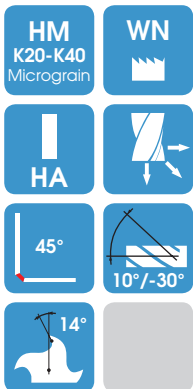
STANDARD CFRP MILLING LINE

Right helix CFRP milling

CVD Diamond Cer-D
Also available without diamond coating



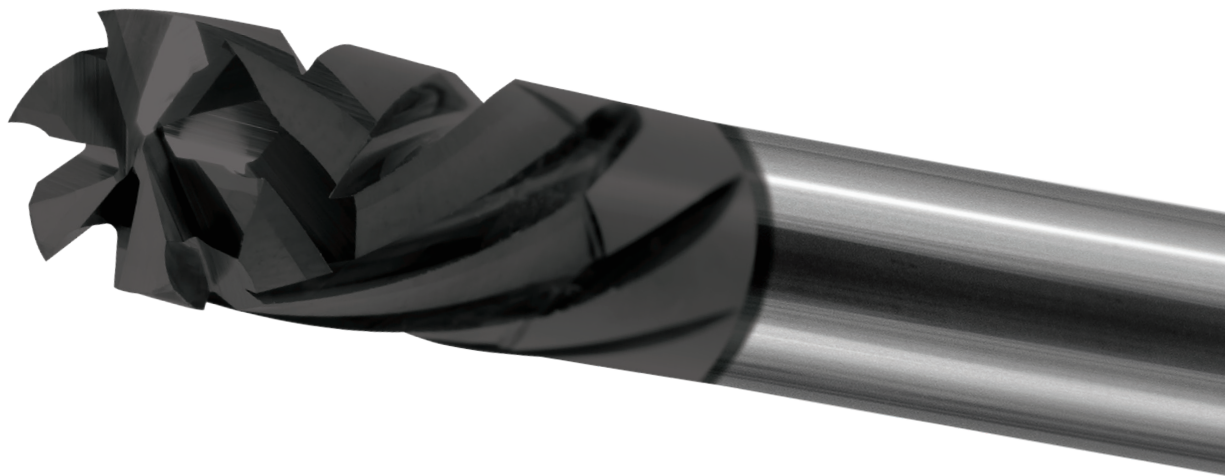
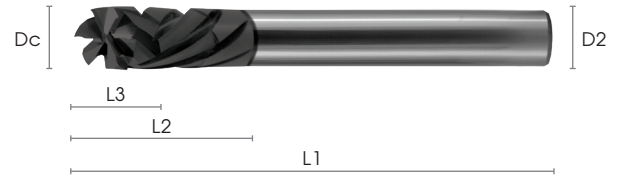
68SU



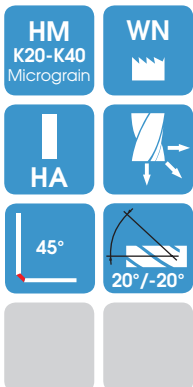
Cod.	Dc	Dc tol.	L2	L1	D2
68SU.050061660D	5	e9	16	60	6
68SU.050062875D	5	e9	28	75	6
68SU.060062060D	6	e9	20	60	6
68SU.060063575D	6	e9	35	75	6
68SU.080082263D	8	e9	22	63	8
68SU.0800840100D	8	e9	40	100	8
68SU.100102572D	10	e9	25	72	10
68SU.1001050100D	10	e9	50	100	10
68SU.120123083D	12	e9	30	83	12
68SU.1201250100D	12	e9	50	100	12
68SU.160163592D	16	e9	35	92	16
68SU.1601660125D	16	e9	60	125	16

ADVANCED CFRP MILLING LINE Up&Down Cutter

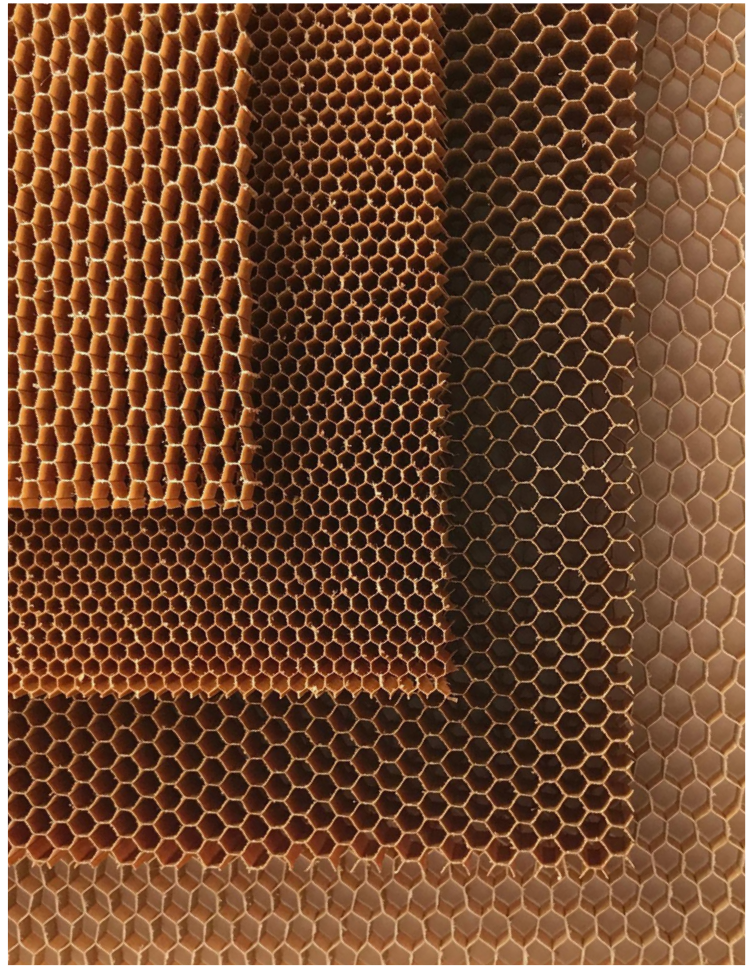
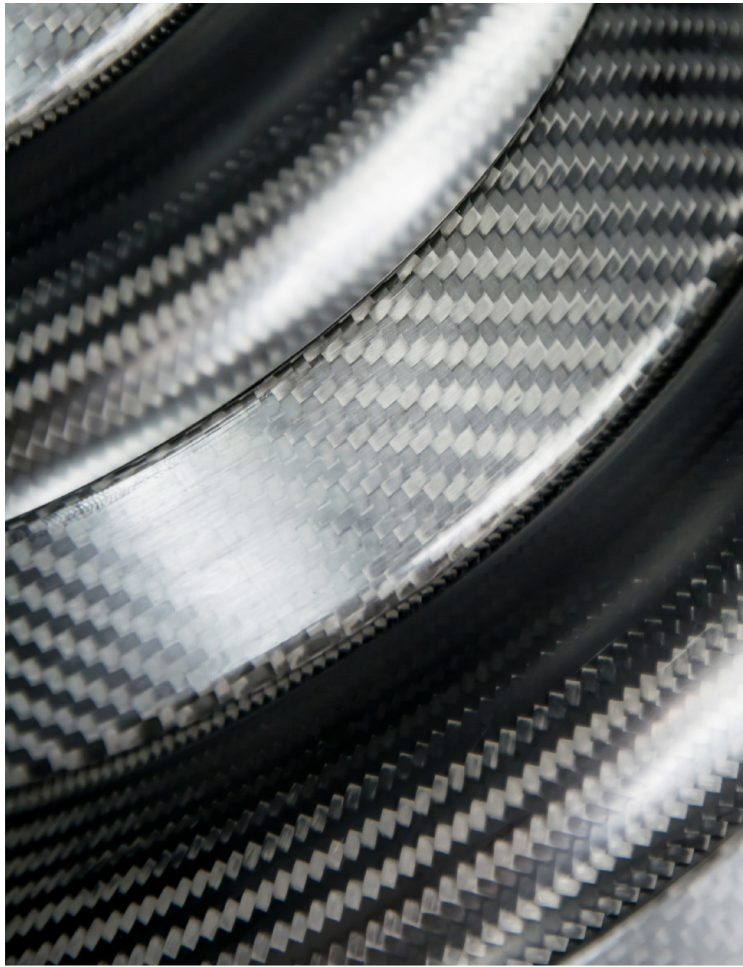
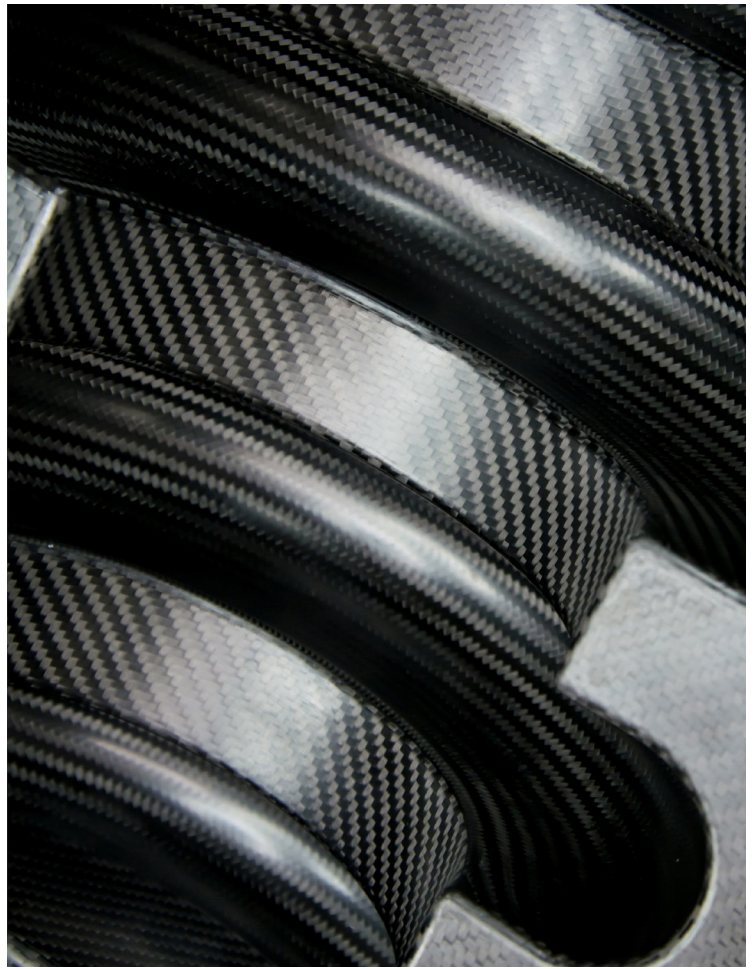
CVD Diamond Cer-DM



104PH

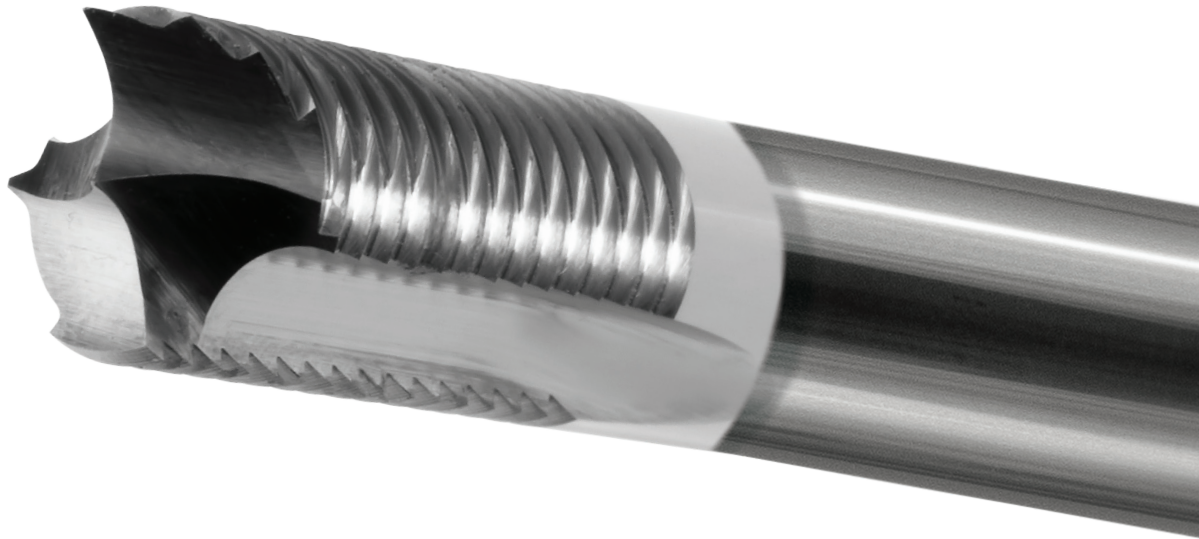
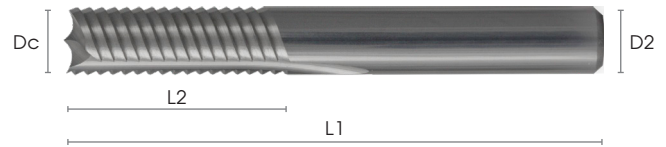


Cod.	Dc	Dc tol.	L2	L1	L3	D2
104PH.060061575DM	6	h10	15	75	7,5	6
104PH.080082075DM	8	h10	20	75	10	8
104PH.1001025100DM	10	h10	25	100	12,5	10
104PH.1201230100DM	12	h10	30	100	15	12

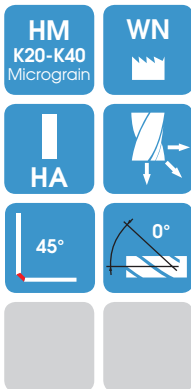


STANDARD KEVLAR MILLING LINE

2 Flutes cutter Up&Down chip breaker



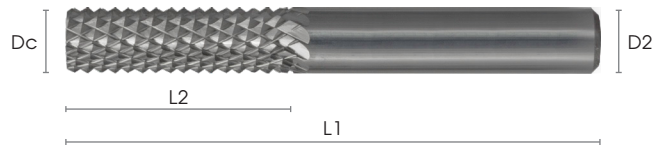
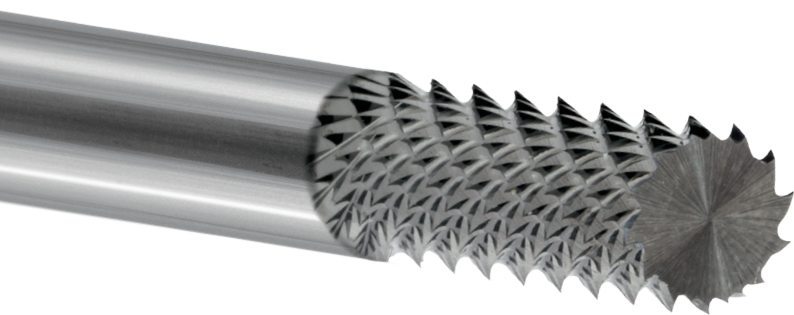
119P



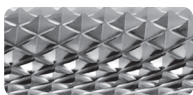
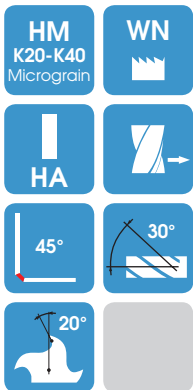
Cod.	Dc	Dc tol.	L2	L1	D2
119P.030031250	3	h10	12	50	3
119P.030061875	3	h10	18	75	6
119P.040041450	4	h10	14	50	4
119P.040062075	4	h10	20	75	6
119P.050051650	5	h10	16	50	5
119P.050062575	5	h10	25	75	6
119P.060062060	6	h10	20	60	6
119P.0600635100	6	h10	35	100	6
119P.080082263	8	h10	22	63	8
119P.0800840100	8	h10	40	100	8
119P.100102572	10	h10	25	72	10
119P.1001050125	10	h10	50	125	10
119P.120123083	12	h10	30	83	12
119P.1201260125	12	h10	60	125	12
119P.160163592	16	h10	35	92	16
119P.1601675150	16	h10	75	150	16
119P.2002045104	20	h10	45	104	20
119P.2002075150	20	h10	75	150	20

106 F, M, G

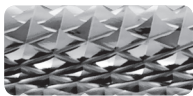
STANDARD GLASS FIBER MILLING LINE
No front cut



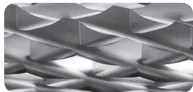
106 F, M, G



F



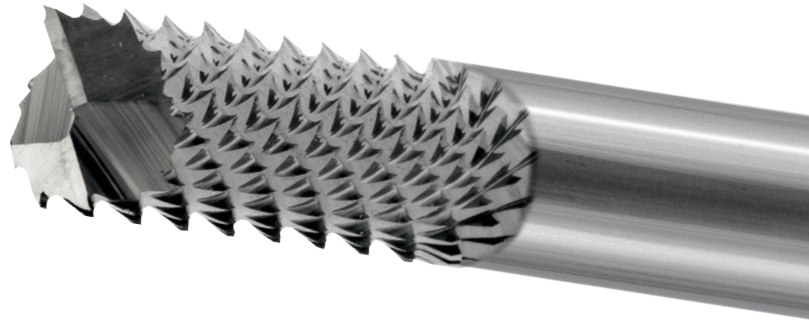
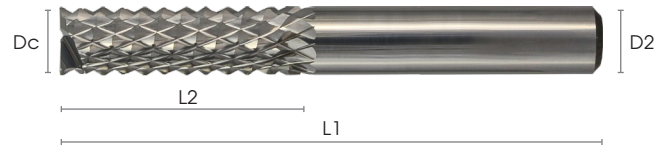
M



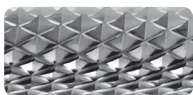
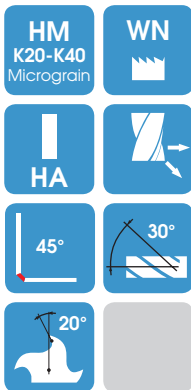
G

Cod.	Dc	Dc tol.	L2	L1	D2
106F.020060750	2	e9	7	50	6
106F.030061250	3	e9	12	50	6
106F.040062050	4	e9	20	50	6
106F.060061850	6	e9	18	50	6
106F.060063575	6	e9	35	75	6
106F.080082563	8	e9	25	63	8
106F.0800840100	8	e9	40	100	8
106F.100103072	10	e9	30	72	10
106F.120123283	12	e9	32	83	12
106M.020060750	2	e9	7	50	6
106M.030061250	3	e9	12	50	6
106M.040062050	4	e9	20	50	6
106M.060061850	6	e9	18	50	6
106M.060063575	6	e9	35	75	6
106M.080082563	8	e9	25	63	8
106M.0800840100	8	e9	40	100	8
106M.100103072	10	e9	30	72	10
106M.120123283	12	e9	32	83	12
106G.020060750	2	e9	7	50	6
106G.030061250	3	e9	12	50	6
106G.040062050	4	e9	20	50	6
106G.060061850	6	e9	18	50	6
106G.060063575	6	e9	35	75	6
106G.080082563	8	e9	25	63	8
106G.0800840100	8	e9	40	100	8
106G.100103072	10	e9	30	72	10
106G.120123283	12	e9	32	83	12

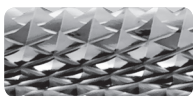
STANDARD GLASS FIBER MILLING LINE With front cut



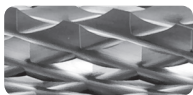
108 F, M, G



F



M

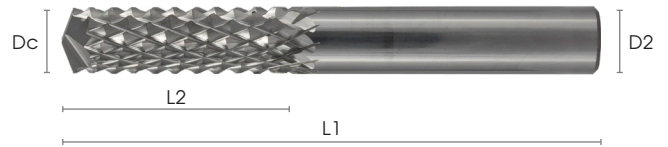
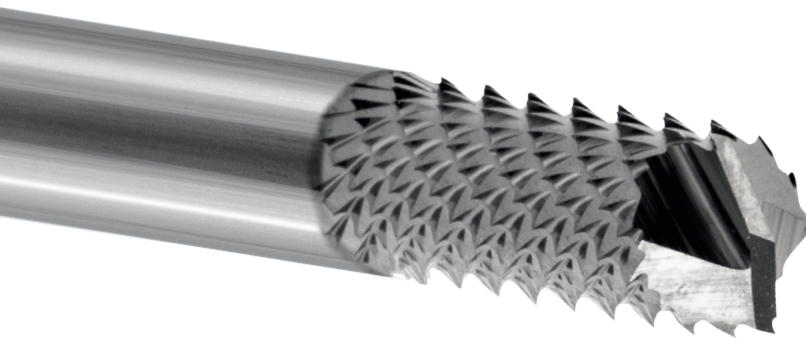


G

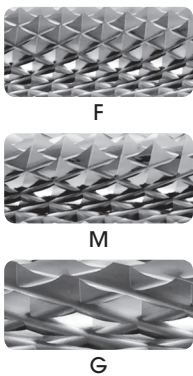
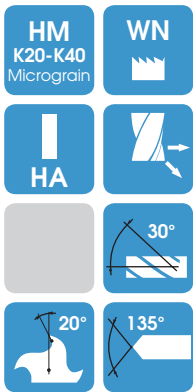
Cod.	Dc	Dc tol.	L2	L1	D2
108F.020060750	2	e9	7	50	6
108F.030061250	3	e9	12	50	6
108F.040062050	4	e9	20	50	6
108F.060061850	6	e9	18	50	6
108F.060063575	6	e9	35	75	6
108F.080082563	8	e9	25	63	8
108F.0800840100	8	e9	40	100	8
108F.100103072	10	e9	30	72	10
108F.120123283	12	e9	32	83	12
108M.020060750	2	e9	7	50	6
108M.030061250	3	e9	12	50	6
108M.040062050	4	e9	20	50	6
108M.060061850	6	e9	18	50	6
108M.060063575	6	e9	35	75	6
108M.080082563	8	e9	25	63	8
108M.0800840100	8	e9	40	100	8
108M.100103072	10	e9	30	72	10
108M.120123283	12	e9	32	83	12
108G.020060750	2	e9	7	50	6
108G.030061250	3	e9	12	50	6
108G.040062050	4	e9	20	50	6
108G.060061850	6	e9	18	50	6
108G.060063575	6	e9	35	75	6
108G.080082563	8	e9	25	63	8
108G.0800840100	8	e9	40	100	8
108G.100103072	10	e9	30	72	10
108G.120123283	12	e9	32	83	12

109 F, M, G

STANDARD GLASS FIBER MILLING LINE
With drill point



109 F, M, G



Cod.	Dc	Dc tol.	L2	L1	D2
109F.020060750	2	e9	7	50	6
109F.030061250	3	e9	12	50	6
109F.040062050	4	e9	20	50	6
109F.060061850	6	e9	18	50	6
109F.060063575	6	e9	35	75	6
109F.080082563	8	e9	25	63	8
109F.0800840100	8	e9	40	100	8
109F.100103072	10	e9	30	72	10
109F.120123283	12	e9	32	83	12
109M.020060750	2	e9	7	50	6
109M.030061250	3	e9	12	50	6
109M.040062050	4	e9	20	50	6
109M.060061850	6	e9	18	50	6
109M.060063575	6	e9	35	75	6
109M.080082563	8	e9	25	63	8
109M.0800840100	8	e9	40	100	8
109M.100103072	10	e9	30	72	10
109M.120123283	12	e9	32	83	12
109G.020060750	2	e9	7	50	6
109G.030061250	3	e9	12	50	6
109G.040062050	4	e9	20	50	6
109G.060061850	6	e9	18	50	6
109G.060063575	6	e9	35	75	6
109G.080082563	8	e9	25	63	8
109G.0800840100	8	e9	40	100	8
109G.100103072	10	e9	30	72	10
109G.120123283	12	e9	32	83	12

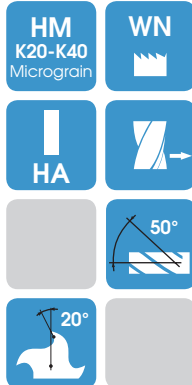
HONEYCOMB CUT AND DEBURRING

multiflute with chipbraker

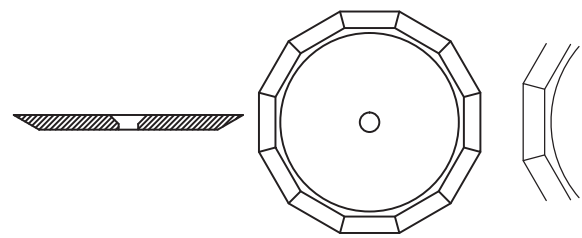
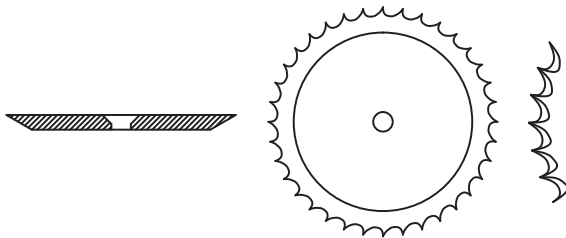
Also available without front plate



77SUP



Cod.	Dc	Dc tol.	L2	L1	D2
77SUP.120122683	12	e9	26	83	12
77SUP.2001220100	20	e9	20	100	12
77SUP.2401217100	24	e9	17	100	12
77SUP.4401217100	44	e9	17	100	12



Cod.	Dc	Dc tol.
0GD130390°D	13	+/- 0,1
0GD2103120°D	21	+/- 0,1
0GD2503120°D	25	+/- 0,1
0GD4703120°D	47	+/- 0,1

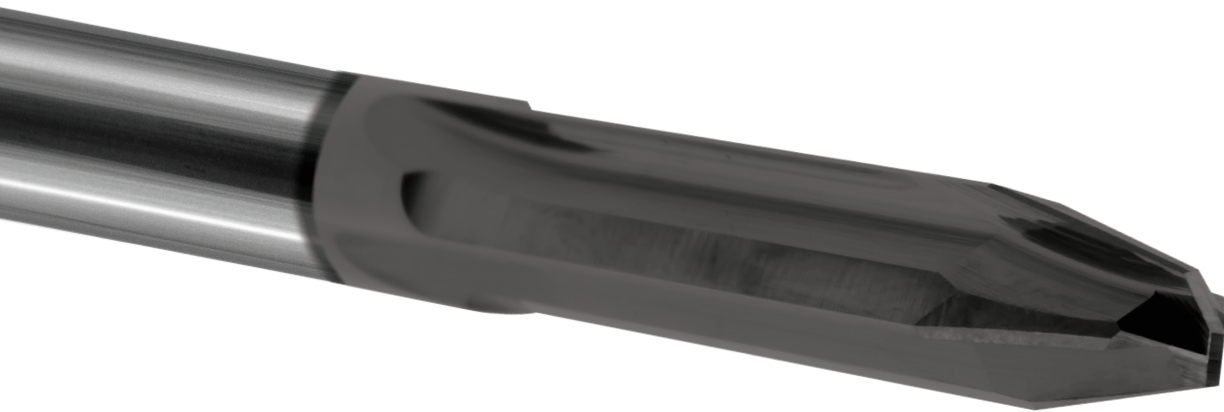
Cod.	Dc	Dc tol.
0GD130390°P	13	+/- 0,1
0GD2103120°P	21	+/- 0,1
0GD2503120°P	25	+/- 0,1
0GD4703120°P	47	+/- 0,1



STANDARD CFRP DRILLING LINE

Straight flute manual drill

Also available with DLC coating



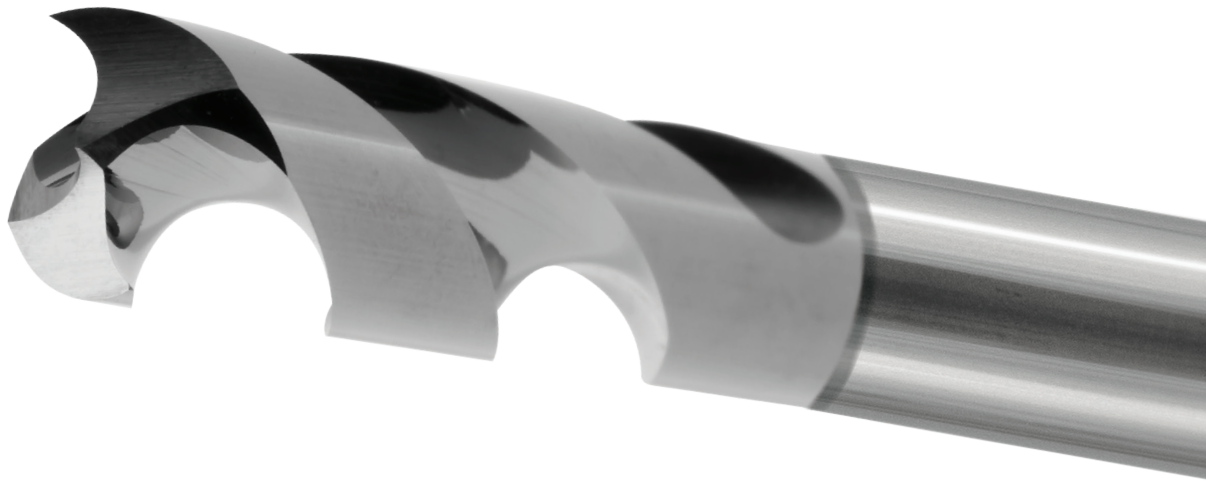
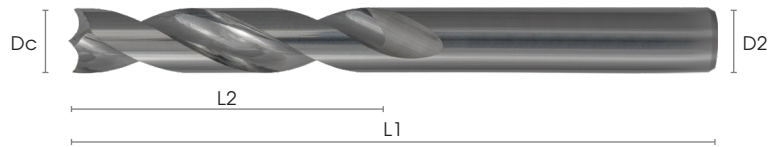
217



Cod.	Dc	Dc tol.	L2	L1	D2
217.020	2,00	H7	50	100	2
217.0248	2,48	H7	50	100	2,48
217.030	3,00	H7	50	100	3
217.0317	3,17	H7	50	100	3,17
217.040	4,00	H7	50	100	4
217.0421	4,21	H7	50	100	4,21
217.0482	4,82	H7	50	100	4,82
217.0505	5,05	H7	50	100	5,05
217.0553	5,53	H7	50	100	5,53
217.060	6,00	H7	50	100	6
217.0635	6,35	H7	50	100	6,35
217.660	6,60	H7	50	100	6,6
217.070	7,00	H7	50	100	7
217.0792	7,92	H7	50	100	7,92
217.080	8,00	H7	50	100	8
217.0863	8,63	H7	50	100	8,63
217.090	9,00	H7	50	100	9
217.100	10,00	H7	50	100	10
217.120	12,00	H7	50	100	12

STANDARD KEVLAR DRILLING LINE

Twist drill for manual and CNC application



118



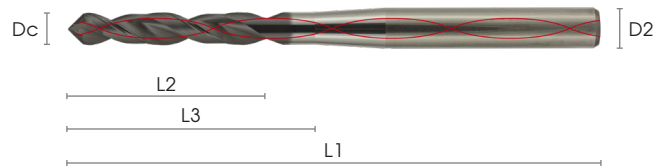
Cod.	Dc	Dc tol.	L2	L1	D2
118.030	3,00	h6	12	40	3
118.0317	3,17	h6	12	40	3,17
118.040	4,00	h6	18	55	4
118.050	5,00	h6	26	62	5
118.060	6,00	h6	28	66	6
118.0635	6,35	h6	31	70	6,35
118.065	6,50	h6	31	70	6,5
118.070	7,00	h6	34	74	7
118.0793	7,93	h6	37	79	7,93
118.080	8,00	h6	37	79	8
118.085	8,50	h6	37	79	8,5
118.090	9,00	h6	40	84	9
118.100	10,00	h6	48	89	10
118.120	12,00	h6	50	102	12

165C

ADVANCED CFRP DRILLING LINE

Twist drill for CNC application on CFRP

CVD Diamond Cer-DA
Internal cooling



165C

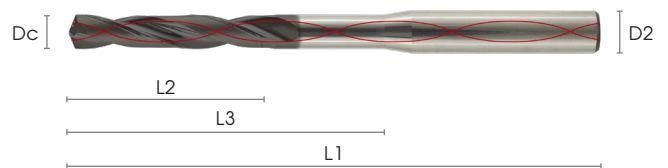


Cod.	Dc	Dc tol.	L2	L3	L1	D2
165C.0248062366DA	2,48	h6	23	28	66	6
165C.030062366DA	3	h6	23	28	66	6
165C.03175062366DA	3,175	h6	23	28	66	6
165C.040062974DA	4	h6	29	36	74	6
165C.04826063682DA	4,826	h6	36	44	82	6
165C.060063582DA	6	h6	35	44	82	6
165C.0635084391DA	6,35	h6	43	53	91	8
165C.0793084391DA	7,93	h6	43	53	91	8
165C.080084391DA	8	h6	43	53	91	8
165C.09521049103DA	9,52	h6	49	61	103	10
165C.1001049103DA	10	h6	49	61	103	10

ADVANCED CFRP DRILLING LINE

Twist drill for CNC application on CFRP + Ti or CFRP + Al

CVD Diamond Cer-DA
Internal cooling



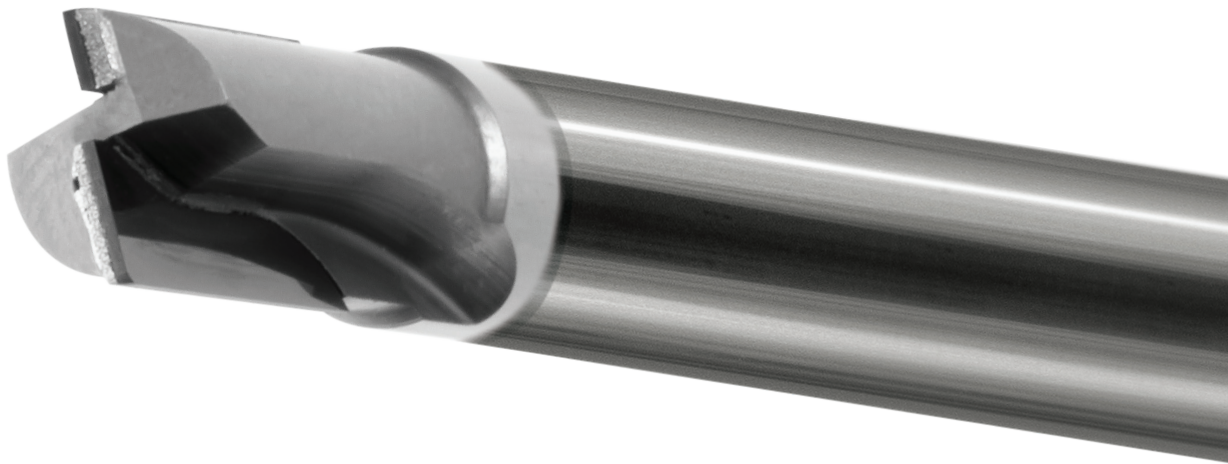
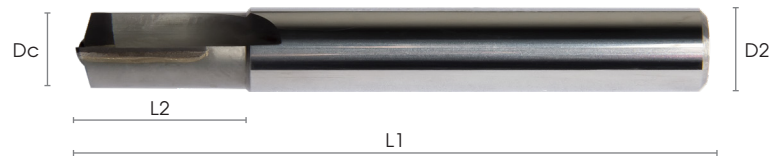
165ST



Cod.	Dc	Dc tol.	L2	L3	L1	D2
165ST.0248062366DA	2,48	h6	23	28	66	6
165ST.030062366DA	3	h6	23	28	66	6
165ST.03175062366DA	3,175	h6	23	28	66	6
165ST.040062974DA	4	h6	29	36	74	6
165ST.04826063682DA	4,826	h6	36	44	82	6
165ST.060063582DA	6	h6	35	44	82	6
165ST.0635084391DA	6,35	h6	43	53	91	8
165ST.0793084391DA	7,93	h6	43	53	91	8
165ST.080084391DA	8	h6	43	53	91	8
165ST.09521049103DA	9,52	h6	49	61	103	10
165ST.1001049103DA	10	h6	49	61	103	10

PKD MILLING LINE

Straight flute PCD endmill with torus radius



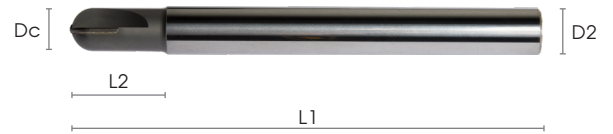
PK62TDT



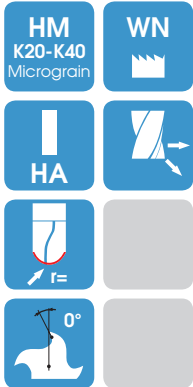
Cod.	Dc	Dc tol.	L2	L1	D2
PK62TDT.060060660	6	h10	6	60	6
PK62TDT.0600612100	6	h10	12	100	6
PK62TDT.080080863	8	h10	8	63	8
PK62TDT.0800816100	8	h10	16	100	8
PK62TDT.100101072	10	h10	10	72	10
PK62TDT.1001020100	10	h10	20	100	10
PK.62TDT120121283	12	h10	12	83	12
PK.62TDT1201224100	12	h10	24	100	12

PKD MILLING LINE

Straight flute PCD ball nose end mill



PK62TDR



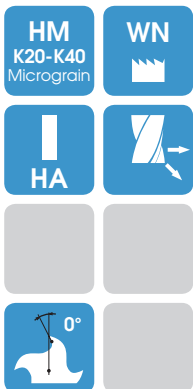
Cod.	Dc	Dc tol.	L2	L1	D2
PK62TDR.0600606100	6	h10	6	100	6
PK62TDR.0800808100	8	h10	8	100	8
PK62TDR.1001010100	10	h10	10	100	10
PK62TDR.1201212100	12	h10	12	100	12

PKD MILLING LINE

Straight multiflute PCD end mill



PK66TD



Cod.	Dc	Dc tol.	L2	L1	D2
PK66TD.080081063	8	h10	10	63	8
PK66TD.100101272	10	h10	12	72	10
PK66TD.120121583	12	h10	15	83	12

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