

# DIA

## TECNOLOGIA DI FRESATURA E FORATURA PCD-CBN-CVD-MCD

MILLING AND DRILLING TECHNOLOGY  
PCD-CBN-CVD-MCD



Con la gamma di utensili DIA di IGUTENSILI le lavorazioni di fresatura e foratura vengono eseguite rapidamente e in modo produttivo senza rinunciare alla qualità della lavorazione.

Questi utensili sono impiegabili su di una vastissima gamma di macchinari a controllo numerico come CENTRI di LAVORO, CENTRI di TORNITURA, TRANSFER ed anche su LINEE DI PRODUZIONE AVANZATA ove è necessario abbattere sia i tempi di lavorazione che di attrezzaggio, in alcuni casi è stato possibile eliminare intere stazioni di lavoro.

L'utensile DIA-Frese e Punta è una conseguenza di questo impegno nel realizzare lavorazioni di asportazione truciolo in modo VELOCE e con la massima EFFICACIA. DIA è dotato di REFRIGERAZIONE forzata INTERNA alla TESTA e RADIALE, garantendo in questo modo un'ottima lubrificazione nel punto di taglio ed una eccellente evacuazione del truciolo, DIA è in grado di lavorare grazie all'elevata durezza materiali strutturati leggeri come alluminio, magnesio e plastica rinforzata con fibre, garantendo finiture superficiali di altissima qualità ed una vita utensile inarrivabile con utensili standard in HM o HSS. DIA assicurano rugosità ridotte (Ra 0,3), massima precisione dimensionale.

Gli utensili DIA-Frese e Punta, raggiungono alti valori di taglio e lunga durata, garantendo sempre la massima stabilità del ciclo produttivo, inoltre DIA nonostante la complessa tecnologia costruttiva, permette le operazioni di affilatura, donando all'utensile stesso nuova vita con rendimenti eccellenti.

Da non sottovalutare la possibilità di produrre DIA speciali a disegno, con lo stesso utensile potremo eseguire foratura di cavità a gradini, non solo si potranno eliminare gli alesatori ma anche altri utensili di preforatura in sagoma.

With the range of DIA tools by IGUTENSILI, milling and drilling operations are performed quickly and productively without sacrificing the quality of the work.

These tools can be used on a very wide range of CNC machines such as WORK CENTRES, TURNING CENTRES, TRANSFER and even ADVANCED PRODUCTION LINES where it is possible to reduce both processing and tooling times, in some cases it was possible to eliminate entire workstations.

The DIA-Cutters and Drills tool is a consequence of this commitment in carrying out machining operations where the chip is evacuated QUICKLY and with the maximum EFFECTIVENESS. DIA is equipped with INTERNAL HEAD AND RADIAL forced COOLANT, thus ensuring excellent lubrication at the cutting point and excellent chip evacuation, DIA is able to work thanks to its high hardness, light structured materials such as aluminium, magnesium and fiber-reinforced plastic, ensuring very high quality surface finishes and an unattainable tool life with standard HM or HSS tools. DIA ensure reduced roughness (Ra 0.3), maximum dimensional accuracy.

The DIA-Cutters and Drills, reach high cutting values and long life, always guaranteeing the maximum stability of the production cycle, moreover DIA despite the complex construction technology, allows the sharpening operations, giving the tool itself new life with excellent yields.

Not to underestimate the possibility of producing special customised DIA tools, with the same tool we will be able to drill stepped holes, not only can reamers be eliminated but also other pre-drilling shaping tools.

I valori di velocità di taglio / periferica (vc in m/min) qui elencati sono puramente  
indicativi e devono essere adattati alle condizioni d'impiego (materiale,  
lubrorefrigerazione, macchina utensile ecc.). Confronto internazionale dei  
materiali, vedere pagina Z • 21

The cutting speeds (vc in m/min) listed in the respective columns are standard  
values which have to be adjusted to individual work conditions (material,  
lubrication, machine etc.). International comparison of materials, see page Z • 21

Vc = Velocità di taglio (m/min)                      Vc = Cutting speed (m/min)

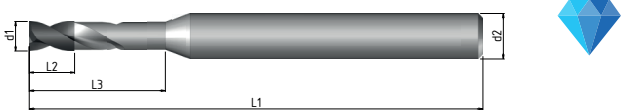
|   | Materiale                                                     | Material                                                         | Material examples                    | Mat. numbers |
|---|---------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|--------------|
| P | Acciai                                                        | Steel materials                                                  |                                      |              |
|   | 1.1 Acciai estrusi a freddo                                   | Cold-extrusion steel                                             | Cq15                                 | 1.1132       |
|   | Acciai da costruzione                                         | Costruction steels                                               | S235JR (St37-2)                      | 1.0037       |
|   | Acciai alta velocità                                          | Free-cutting steel, etc.                                         | 10SPb20                              | 1.0722       |
|   | 2.1 Acciai da costruzione                                     | Costruction steels                                               | E360 (St70-2)                        | 1.0070       |
|   | Acciai da cementazione                                        | Cementation steel                                                | 16MnCr5                              | 1.7131       |
|   | Fusione d'acciaio, ecc.                                       | Steel casting, etc.                                              | GS-25CrMo4                           | 1.7218       |
|   | Acciai da cementazione                                        | Cementation steel                                                | 20MoCr3                              | 1.7320       |
|   | 3.1 Acciai da bonifica                                        | Heat-treatable steels                                            | 42CrMo4                              | 1.7225       |
|   | Acciai per lavorazioni a freddo, ecc.                         | Cold work steels, etc.                                           | 102Cr6                               | 1.2067       |
|   | Acciai da bonifica                                            | Heat-treatable steels                                            | 50CrMo4                              | 1.7228       |
|   | 4.1 Acciai per lavorazioni a freddo                           | Cold work steels                                                 | X45NiCrMo4                           | 1.2767       |
|   | Acciai da nitrurazione, ecc.                                  | Nitriding steels, etc.                                           | 31CrMo12                             | 1.8515       |
|   | Acciai fortemente legati                                      | High-alloyed steels                                              | X38CrMoV5-3                          | 1.2367       |
|   | 5.1 Acciai per lavorazioni a freddo                           | Cold work steels                                                 | X100CrMoV8-1-1                       | 1.2990       |
|   | Acciai per lavorazioni a caldo, ecc.                          | Hot work steels, etc.                                            | X40CrMoV5-1                          | 1.2344       |
|   | Acciai inossidabili                                           | Stainless steel materials                                        |                                      |              |
|   | 1.1 Ferritici, martensitici                                   | Ferritic, martensitic                                            | X2CrTi12                             | 1.4512       |
|   | 2.1 Austenitici                                               | Austenitic                                                       | X6CrNiMoTi17-12-2                    | 1.4571       |
| M | 3.1 Austenitici-ferritici (Duplex)                            | Austenitic-ferritic (Duplex)                                     | X2CrNiMoN22-5-3                      | 1.4462       |
|   | 4.1 Austenitici-ferritici resistenti al calore (Super Duplex) | Austenitic-ferritic heat-resistant (Super Duplex)                | X2CrNiMoN25-7-4                      | 1.4410       |
| K | Ghise                                                         | Cast materials                                                   |                                      |              |
|   | 1.1 Ghise con grafite lamellare (GJL)                         | Cast iron with lamellar graphite (GJL)                           | 100-250 N/mm2 EN-GJL-200 (GG20)      | EN-JL-1030   |
|   | 1.2 Ghise con grafite lamellare (GJL)                         | Cast iron with lamellar graphite (GJL)                           | 250-450 N/mm2 EN-GJL-300 (GG30)      | EN-JL-1050   |
|   | 2.1 Ghise con grafite nodulare (GJS)                          | Cast iron with nodular graphite (GJS)                            | 350-500 N/mm2 EN-GJS-400-15 (GGG40)  | EN-JS-1030   |
|   | 2.2 Ghise con grafite nodulare (GJS)                          | Cast iron with nodular graphite (GJS)                            | 500-900 N/mm2 EN-GJS-700-2 (GGG70)   | EN-JS-1070   |
|   | 3.1 Ghise con grafite vermicolare (GJV)                       | Cast iron with vermicular graphite (GJV)                         | 300-400 N/mm2 GJV 300                |              |
|   | 3.2 Ghise con grafite vermicolare (GJV)                       | Cast iron with vermicular graphite (GJV)                         | 400-500 N/mm2 GJV 450                |              |
|   | 4.1 Ghise malleabili (GTMW, GTMB)                             | Malleable cast iron (GTMW, GTMB)                                 | 250-500 N/mm2 EN-GJMW-350-4 (GTW-35) | EN-JM-1010   |
|   | 4.2 Ghise malleabili (GTMW, GTMB)                             | Malleable cast iron (GTMW, GTMB)                                 | 500-800 N/mm2 EN-GJMB-450-6 (GTS-45) | EN-JM-1140   |
| N | Materiali non ferrosi                                         | Non ferrous materials                                            |                                      |              |
|   | Leghe di alluminio                                            | Aluminium alloys                                                 |                                      |              |
|   | 1.1 Leghe di alluminio                                        | Aluminium alloys                                                 | ≤ 200 N/mm2 EN AW-AlMn1              | EN AW-3103   |
|   | 1.2 Leghe di alluminio malleabili                             | Aluminium wrought alloys                                         | ≤ 350 N/mm2 EN AW-AlMgSi             | EN AW-6060   |
|   | 1.3 Leghe di alluminio malleabili                             | Aluminium wrought alloys                                         | ≤ 550 N/mm2 EN AW-AlZn5Mg3Cu         | EN AW-7022   |
|   | 1.4 Leghe di alluminio malleabili                             | Aluminium wrought alloys                                         | Si ≤ 7% EN AC-AlMg5                  | EN AC-51300  |
|   | 1.5 Leghe fuse di alluminio                                   | Aluminium cast alloys                                            | 7% < Si ≤ 12% EN AC-ALSi9Cu3         | EN AC-46500  |
|   | 1.6 Leghe fuse di alluminio                                   | Aluminium cast alloys                                            | 12% < Si ≤ 17% GD-ALSi17Cu4FeMg      |              |
|   | Leghe di rame                                                 | Copper alloys                                                    |                                      |              |
|   | 2.1 Rame puro, Rame poco legato                               | Pure copper, low-alloyed copper                                  | ≤ 400 N/mm2 E-Cu 57                  | EN CW 004 A  |
|   | 2.2 Leghe rame-zinco (ottone, truciolo lungo)                 | Copper-zinc alloys (brass, long-chipping)                        | ≤ 550 N/mm2 CuZn37 (Ms63)            | EN CW 508 L  |
|   | 2.3 Leghe rame-zinco (ottone, truciolo corto)                 | Copper-zinc alloys (brass, short-chipping)                       | ≤ 550 N/mm2 CuZn36Pb3 (Ms58)         | EN CW 603 N  |
|   | 2.4 Leghe rame-alluminio (alubronzo, truciolo lungo)          | Copper-aluminium alloys (alu bronze, long-chipping)              | ≤ 800 N/mm2 CuAl10Ni5Fe4             | EN CW 307 G  |
|   | 2.5 Leghe rame-stagno (bronzo, truciolo lungo)                | Copper-tin alloys (tin bronze, long-chipping)                    | ≤ 700 N/mm2 CuSn8P                   | EN CW 459 K  |
|   | 2.6 Leghe rame-stagno (bronzo, truciolo corto)                | Copper-tin alloys (tin bronze, short-chipping)                   | ≤ 400 N/mm2 CuSn7 ZnPb (Rg7)         | 2.1090       |
|   | 2.7 Leghe di rame speciali                                    | Special copper alloys                                            | ≤ 600 N/mm2 (AMPCO® 8)               |              |
|   | 2.8 Leghe di rame speciali                                    | Special copper alloys                                            | ≤ 1400 N/mm2 (AMPCO® 45)             |              |
|   | Leghe di magnesio                                             | Magnesium alloys                                                 |                                      |              |
|   | 3.1 Leghe di magnesio malleabili                              | Magnesium wrought alloys                                         | ≤ 500 N/mm2 MgAl6Zn                  | 3.5612       |
|   | 3.2 Leghe per getti di magnesio                               | Magnesium cast alloys                                            | ≤ 500 N/mm2 EN-MCMgAl9Zn1            | EN-MC21120   |
|   | Materie plastiche                                             | Synthetics                                                       |                                      |              |
|   | 4.1 Materie plastiche termoindurenti (truciolo corto)         | Duroplastics (short-chipping)                                    |                                      |              |
|   | 4.2 Resine termoplastiche (truciolo lungo)                    | Thermoplastics (long-chipping)                                   |                                      |              |
|   | 4.3 Resine epossidiche (percentuale di fibre ≤ 30%)           | Fibre-reinforced synthetics (fibre content ≤ 30%)                |                                      |              |
|   | 4.4 Resine epossidiche (percentuale di fibre > 30%)           | Fibre-reinforced synthetics (fibre content > 30%)                |                                      |              |
|   | Materiali speciali                                            | Special materials                                                |                                      |              |
|   | 5.1 Grafite                                                   | Graphite                                                         | C 8000                               |              |
|   | 5.2 Leghe tungsteno-rame                                      | Tungsten-copper alloys                                           | W-Cu 80/20                           |              |
|   | 5.3 Materiali compositi                                       | Composite materials                                              | Hylite, Alucobond                    |              |
| S | Materiali speciali                                            | Special materials                                                |                                      |              |
|   | Leghe di titanio                                              | Titanium alloys                                                  |                                      |              |
|   | 1.1 Titanio puro                                              | Pure titanium                                                    | ≤ 450 N/mm2 Ti1                      | 3.7025       |
|   | 1.2 Leghe di titanio                                          | Titanium alloys                                                  | ≤ 900 N/mm2 TiAl6V4                  | 3.7165       |
|   | 1.3 Leghe di titanio                                          | Titanium alloys                                                  | ≤ 1250 N/mm2 TiAl4Mo4Sn2             | 3.7185       |
|   | Leghe di nichel, cobalto e ferro                              | Nickel alloys, cobalt alloys and iron alloys                     |                                      |              |
|   | 2.1 Nichel puro                                               | Pure nickel                                                      | ≤ 600 N/mm2 Ni 99.6                  | 2.4060       |
|   | 2.2 Leghe base nichel                                         | Nickel-base alloys                                               | ≤ 1000 N/mm2 Monel 400               | 2.4360       |
|   | 2.3 Leghe base nichel                                         | Nickel-base alloys                                               | ≤ 1600 N/mm2 Inconel 718             | 2.4668       |
|   | 2.4 Leghe base cobalto                                        | Cobalt-base alloys                                               | ≤ 1000 N/mm2 Udimet 605              |              |
|   | 2.5 Leghe base cobalto                                        | Cobalt-base alloys                                               | ≤ 1600 N/mm2 Haynes 25               | 2.4964       |
| H | 2.6 Leghe base ferro                                          | Iron-base alloys                                                 | ≤ 1500 N/mm2 Incoloy 800             | 1.4958       |
|   | Materiali duri                                                | Hard materials                                                   |                                      |              |
|   | 1.1                                                           |                                                                  | 44 - 50 HRC Weldox 1100              |              |
|   | 1.2                                                           |                                                                  | 50 - 55 HRC Hardox 550               |              |
|   | 1.3                                                           | "Acciai ad alta resistenza, Acciai temprati, Ghise in conchiglia | 55 - 60 HRC Armox 600T               |              |
|   | 1.4                                                           |                                                                  | 60 - 63 HRC Ferro-Titanit            |              |
|   | 1.5                                                           |                                                                  | 63 - 66 HRC HSSE                     |              |

| Vc Uncoated | Vc Coated NFS | F = 3 to 5 mm | F =5 to 8 mm | F =8 to 12 mm | F =12 to 16 mm |     |
|-------------|---------------|---------------|--------------|---------------|----------------|-----|
|             |               |               |              |               |                | P   |
|             |               |               |              |               |                | 1.1 |
|             |               |               |              |               |                | 2.1 |
|             |               |               |              |               |                | 3.1 |
|             |               |               |              |               |                | 4.1 |
|             |               |               |              |               |                | 5.1 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | M   |
|             |               |               |              |               |                | 1.1 |
|             |               |               |              |               |                | 2.1 |
|             |               |               |              |               |                | 3.1 |
|             |               |               |              |               |                | 4.1 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | K   |
|             |               |               |              |               |                | 1.1 |
|             |               |               |              |               |                | 1.2 |
|             |               |               |              |               |                | 2.1 |
|             |               |               |              |               |                | 2.2 |
|             |               |               |              |               |                | 3.1 |
|             |               |               |              |               |                | 3.2 |
|             |               |               |              |               |                | 4.1 |
|             |               |               |              |               |                | 4.2 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | N   |
|             |               |               |              |               |                | 1.1 |
|             |               |               |              |               |                | 1.2 |
|             |               |               |              |               |                | 1.3 |
|             |               |               |              |               |                | 1.4 |
|             |               |               |              |               |                | 1.5 |
|             |               |               |              |               |                | 1.6 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | 2.1 |
|             |               |               |              |               |                | 2.2 |
|             |               |               |              |               |                | 2.3 |
|             |               |               |              |               |                | 2.4 |
|             |               |               |              |               |                | 2.5 |
|             |               |               |              |               |                | 2.6 |
|             |               |               |              |               |                | 2.7 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | 3.1 |
|             |               |               |              |               |                | 3.2 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | 4.1 |
|             |               |               |              |               |                | 4.2 |
|             |               |               |              |               |                | 4.3 |
|             |               |               |              |               |                | 4.4 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | 5.1 |
|             |               |               |              |               |                | 5.2 |
|             |               |               |              |               |                | 5.3 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | S   |
|             |               |               |              |               |                | 1.1 |
|             |               |               |              |               |                | 1.2 |
|             |               |               |              |               |                | 1.3 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | 2.1 |
|             |               |               |              |               |                | 2.2 |
|             |               |               |              |               |                | 2.3 |
|             |               |               |              |               |                | 2.4 |
|             |               |               |              |               |                | 2.5 |
|             |               |               |              |               |                | 2.6 |
|             |               |               |              |               |                |     |
|             |               |               |              |               |                | H   |
|             |               |               |              |               |                | 1.1 |
|             |               |               |              |               |                | 1.2 |
|             |               |               |              |               |                | 1.3 |
|             |               |               |              |               |                | 1.4 |
|             |               |               |              |               |                | 1.5 |



A01-A02-A03

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



|                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PCD                                                      | ON REQUEST                                                                          |  | ON REQUEST                                                                          |  |
|                                                          |                                                                                     | R 30°- RR                                                                           |                                                                                     | R 30°- RR                                                                           |
|                                                          |  |                                                                                     |  |                                                                                     |
| TRATTAMENTO SUPERFICIALE<br>SURFACE TREATMENT            | Uncoated                                                                            |                                                                                     | Uncoated                                                                            |                                                                                     |
| MATERIALI LAVORABILI<br>WORKING MATERIALS<br>page 7G + 3 | N1.1-N1.6                                                                           |                                                                                     | N1.1-N1.6                                                                           |                                                                                     |
|                                                          | N4.1-N4.2                                                                           |                                                                                     | N4.1-N4.2                                                                           |                                                                                     |
|                                                          |  | PCD                                                                                 |  | PCD                                                                                 |

| d1  | L1 | L2  | L3   | d2  | Z   |                 |                     |
|-----|----|-----|------|-----|-----|-----------------|---------------------|
| 1,0 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0100_xx_x_x | A02_0100_xx_x_xxx_x |
| 1,1 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0110_xx_x_x | A02_0110_xx_x_xxx_x |
| 1,2 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0120_xx_x_x | A02_0120_xx_x_xxx_x |
| 1,3 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0130_xx_x_x | A02_0130_xx_x_xxx_x |
| 1,4 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0140_xx_x_x | A02_0140_xx_x_xxx_x |
| 1,5 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0150_xx_x_x | A02_0150_xx_x_xxx_x |
| 1,6 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0160_xx_x_x | A02_0160_xx_x_xxx_x |
| 1,7 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0170_xx_x_x | A02_0170_xx_x_xxx_x |
| 1,8 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0180_xx_x_x | A02_0180_xx_x_xxx_x |
| 1,9 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0190_xx_x_x | A02_0190_xx_x_xxx_x |
| 2,0 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0200_xx_x_x | A02_0200_xx_x_xxx_x |
| 2,1 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0210_xx_x_x | A02_0210_xx_x_xxx_x |
| 2,2 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0220_xx_x_x | A02_0220_xx_x_xxx_x |
| 2,3 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0230_xx_x_x | A02_0230_xx_x_xxx_x |
| 2,4 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0240_xx_x_x | A02_0240_xx_x_xxx_x |
| 2,5 | 60 | 2,5 | 3÷16 | 4/6 | 2÷4 | A01_0250_xx_x_x | A02_0250_xx_x_xxx_x |

Esempio ordine  
Order example

art. d1 L3 d2 Z  
A01\_0200\_10\_4\_4

Esempio ordine  
Order example

art. d1 L3 d2 R Z  
A02\_0200\_10\_4\_050\_4

ON REQUEST



R 30°- RR



Uncoated

N1.1-N1.6

N4.1-N4.2

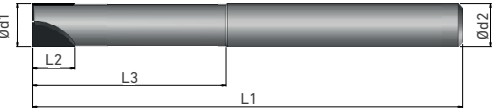


PCD

|                 |
|-----------------|
| A03_0100_xx_x_x |
| A03_0110_xx_x_x |
| A03_0120_xx_x_x |
| A03_0130_xx_x_x |
| A03_0140_xx_x_x |
| A03_0150_xx_x_x |
| A03_0160_xx_x_x |
| A03_0170_xx_x_x |
| A03_0180_xx_x_x |
| A03_0190_xx_x_x |
| A03_0200_xx_x_x |
| A03_0210_xx_x_x |
| A03_0220_xx_x_x |
| A03_0230_xx_x_x |
| A03_0240_xx_x_x |
| A03_0250_xx_x_x |

B01 - B02

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



- PCD
- CVD
- M
- CBN

ON REQUEST



ON REQUEST



R 0°- RR



R 0°- RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 7G • 3

N1.1-N1.6

N4.1-N4.2

N1.1-N1.6

N4.1-N4.2

S1.2-S1.3



PCD



CVD

ON REQUEST



R 0°- RR



Uncoated

K1.1-K4.2

H1.1-H1.5



CBN

| d1   | L1  | L2  | L3 | d2   | Z |                     |                     |
|------|-----|-----|----|------|---|---------------------|---------------------|
| 2,0  | 60  | 5   | 10 | 6,0  | 1 | B01_0200_10_060_PCD | B01_0200_10_060_CVD |
| 3,0  | 60  | 5   | 15 | 6,0  | 2 | B01_0300_15_060_PCD | B01_0300_15_060_CVD |
| 4,0  | 75  | 5,5 | 20 | 6,0  | 2 | B01_0400_20_075_PCD | B01_0400_20_075_CVD |
| 6,0  | 100 | 6   | 30 | 6,0  | 2 | B01_0600_30_100_PCD | B01_0600_30_100_CVD |
| 8,0  | 100 | 8   | 30 | 8,0  | 2 | B01_0800_30_100_PCD | B01_0800_30_100_CVD |
| 10,0 | 100 | 10  | 45 | 10,0 | 2 | B01_1000_45_100_PCD | B01_1000_45_100_CVD |
| 12,0 | 100 | 12  | 45 | 12,0 | 2 | B01_1200_45_100_PCD | B01_1200_45_100_CVD |
| 16,0 | 100 | 14  | 45 | 16,0 | 2 | B01_1600_45_100_PCD | B01_1600_45_100_CVD |
| 20,0 | 100 | 16  | 45 | 20,0 | 2 | B01_2000_45_100_PCD | B01_2000_45_100_CVD |
| 20,0 | 120 | 16  | 45 | 20,0 | 4 | B02_2000_45_120_PCD | B02_2000_45_120_CVD |
| 25,0 | 120 | 18  | 45 | 25,0 | 4 | B02_2500_45_120_PCD | B02_2500_45_120_CVD |

|                     |
|---------------------|
| B01_0200_10_060_CBN |
| B01_0300_15_060_CBN |
| B01_0400_20_075_CBN |
| B01_0600_30_100_CBN |
| B01_0800_30_100_CBN |
| B01_1000_45_100_CBN |
| B01_1200_45_100_CBN |
| B01_1600_45_100_CBN |
| B01_2000_45_100_CBN |
| B02_2000_45_120_CBN |
| B02_2500_45_120_CBN |

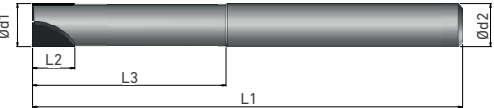
Esempio ordine  
Order example

art. d1 L3 L1  
B01\_0800\_30\_100\_PCD



B11 - B12

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



- PCD
- CVD
- XL
- CBN

ON REQUEST



ON REQUEST



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 7G • 3

N1.1-N1.6

N4.1-N4.2

N1.1-N1.6

N4.1-N4.2

S1.2-S1.3



PCD



CVD

| d1   | L1  | L2  | L3 | d2   | Z |                     |                     |
|------|-----|-----|----|------|---|---------------------|---------------------|
| 2,0  | 100 | 5   | 20 | 6,0  | 1 | B11_0200_20_100_PCD | B11_0200_20_100_CVD |
| 3,0  | 100 | 5   | 30 | 6,0  | 2 | B11_0300_30_100_PCD | B11_0300_30_100_CVD |
| 4,0  | 100 | 5,5 | 40 | 6,0  | 2 | B11_0400_40_100_PCD | B11_0400_40_100_CVD |
| 6,0  | 120 | 6   | 45 | 6,0  | 2 | B11_0600_45_120_PCD | B11_0600_45_120_CVD |
| 8,0  | 120 | 8   | 45 | 8,0  | 2 | B11_0800_45_120_PCD | B11_0800_45_120_CVD |
| 10,0 | 150 | 10  | 55 | 10,0 | 2 | B11_1000_55_150_PCD | B11_1000_55_150_CVD |
| 12,0 | 150 | 12  | 55 | 12,0 | 2 | B11_1200_55_150_PCD | B11_1200_55_150_CVD |
| 16,0 | 150 | 14  | 55 | 16,0 | 2 | B11_1600_55_150_PCD | B11_1600_55_150_CVD |
| 20,0 | 150 | 16  | 55 | 20,0 | 2 | B11_2000_55_150_PCD | B11_2000_55_150_CVD |
| 20,0 | 150 | 16  | 55 | 20,0 | 4 | B12_2000_55_150_PCD | B12_2000_55_150_CVD |
| 25,0 | 150 | 18  | 55 | 25,0 | 4 | B12_2500_55_150_PCD | B12_2500_55_150_CVD |

ON REQUEST



Uncoated

K1.1-K4.2

H1.1-H1.5



CBN

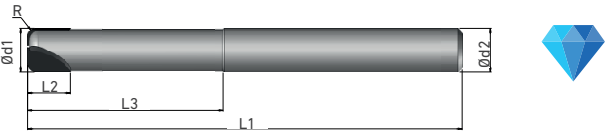
|                     |
|---------------------|
| B11_0200_20_100_CBN |
| B11_0300_30_100_CBN |
| B11_0400_40_100_CBN |
| B11_0600_45_120_CBN |
| B11_0800_45_120_CBN |
| B11_1000_55_150_CBN |
| B11_1200_55_150_CBN |
| B11_1600_55_150_CBN |
| B11_2000_55_150_CBN |
| B12_2000_55_150_CBN |
| B12_2500_55_150_CBN |

Esempio ordine  
Order example

art. d1 L3 L1  
B11\_0800\_45\_120\_PCD

B21 - B22

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



PCD

CVD

M

CBN

ON REQUEST



ON REQUEST



R 0°- RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 7G • 3

N1.1-N1.6

N4.1-N4.2

S1.2-S1.3

PCD

CVD

| d1   | L1  | L2  | L3 | d2   | R  | Z |                      |                      |
|------|-----|-----|----|------|----|---|----------------------|----------------------|
| 2,0  | 60  | 5   | 10 | 6,0  | ** | 1 | B21_0200_10_xxxx_PCD | B21_0200_10_xxxx_CVD |
| 3,0  | 60  | 5   | 15 | 6,0  | ** | 2 | B21_0300_15_xxxx_PCD | B21_0300_15_xxxx_CVD |
| 4,0  | 75  | 5,5 | 20 | 6,0  | ** | 2 | B21_0400_20_xxxx_PCD | B21_0400_20_xxxx_CVD |
| 6,0  | 100 | 6   | 30 | 6,0  | ** | 2 | B21_0600_30_xxxx_PCD | B21_0600_30_xxxx_CVD |
| 8,0  | 100 | 8   | 30 | 8,0  | ** | 2 | B21_0800_30_xxxx_PCD | B21_0800_30_xxxx_CVD |
| 10,0 | 100 | 10  | 45 | 10,0 | ** | 2 | B21_1000_45_xxxx_PCD | B21_1000_45_xxxx_CVD |
| 12,0 | 100 | 12  | 45 | 12,0 | ** | 2 | B21_1200_45_xxxx_PCD | B21_1200_45_xxxx_CVD |
| 16,0 | 100 | 14  | 45 | 16,0 | ** | 2 | B21_1600_45_xxxx_PCD | B21_1600_45_xxxx_CVD |
| 20,0 | 100 | 16  | 45 | 20,0 | ** | 2 | B21_2000_45_xxxx_PCD | B21_2000_45_xxxx_CVD |
| 20,0 | 120 | 16  | 45 | 20,0 | ** | 4 | B22_2000_45_xxxx_PCD | B22_2000_45_xxxx_CVD |
| 25,0 | 120 | 18  | 45 | 25,0 | ** | 4 | B22_2500_45_xxxx_PCD | B22_2500_45_xxxx_CVD |

ON REQUEST



R 0°- RR



Uncoated

K1.1-K4.2

H1.1-H1.5

CBN

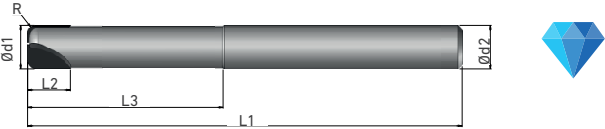
|                      |
|----------------------|
| B21_0200_10_xxxx_CBN |
| B21_0300_15_xxxx_CBN |
| B21_0400_20_xxxx_CBN |
| B21_0600_30_xxxx_CBN |
| B21_0800_30_xxxx_CBN |
| B21_1000_45_xxxx_CBN |
| B21_1200_45_xxxx_CBN |
| B21_1600_45_xxxx_CBN |
| B21_2000_45_xxxx_CBN |
| B22_2000_45_xxxx_CBN |
| B22_2500_45_xxxx_CBN |

Esempio ordine  
Order example

art. d1 L3 R  
B21\_0200\_10\_0050\_PCD

B31 - B32

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



| d1   | L1  | L2  | L3 | d2   | R  | Z |                      |                      |
|------|-----|-----|----|------|----|---|----------------------|----------------------|
| 2,0  | 100 | 5   | 20 | 6,0  | ** | 1 | B31_0200_20_xxxx_PCD | B31_0200_20_xxxx_CVD |
| 3,0  | 100 | 5   | 30 | 6,0  | ** | 2 | B31_0300_30_xxxx_PCD | B31_0300_30_xxxx_CVD |
| 4,0  | 100 | 5,5 | 40 | 6,0  | ** | 2 | B31_0400_40_xxxx_PCD | B31_0400_40_xxxx_CVD |
| 6,0  | 120 | 6   | 45 | 6,0  | ** | 2 | B31_0600_45_xxxx_PCD | B31_0600_45_xxxx_CVD |
| 8,0  | 120 | 8   | 45 | 8,0  | ** | 2 | B31_0800_45_xxxx_PCD | B31_0800_45_xxxx_CVD |
| 10,0 | 150 | 10  | 55 | 10,0 | ** | 2 | B31_1000_55_xxxx_PCD | B31_1000_55_xxxx_CVD |
| 12,0 | 150 | 12  | 55 | 12,0 | ** | 2 | B31_1200_55_xxxx_PCD | B31_1200_55_xxxx_CVD |
| 16,0 | 150 | 14  | 55 | 16,0 | ** | 2 | B31_1600_55_xxxx_PCD | B31_1600_55_xxxx_CVD |
| 20,0 | 150 | 16  | 55 | 20,0 | ** | 2 | B31_2000_55_xxxx_PCD | B31_2000_55_xxxx_CVD |
| 20,0 | 150 | 16  | 55 | 20,0 | ** | 4 | B32_2000_55_xxxx_PCD | B32_2000_55_xxxx_CVD |
| 25,0 | 150 | 18  | 55 | 25,0 | ** | 4 | B32_2500_55_xxxx_PCD | B32_2500_55_xxxx_CVD |

- PCD
- CVD
- XL
- CBN

ON REQUEST



ON REQUEST



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 7G • 3

N1.1-N1.6

N1.1-N1.6

N4.1-N4.2

N4.1-N4.2

S1.2-S1.3



PCD



CVD

ON REQUEST



Uncoated

K1.1-K4.2

H1.1-H1.5



CBN

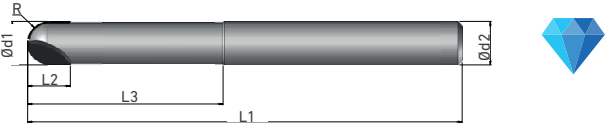
|                      |
|----------------------|
| B31_0200_20_xxxx_CBN |
| B31_0300_30_xxxx_CBN |
| B31_0400_40_xxxx_CBN |
| B31_0600_45_xxxx_CBN |
| B31_0800_45_xxxx_CBN |
| B31_1000_55_xxxx_CBN |
| B31_1200_55_xxxx_CBN |
| B31_1600_55_xxxx_CBN |
| B31_2000_55_xxxx_CBN |
| B32_2000_55_xxxx_CBN |
| B32_2500_55_xxxx_CBN |

Esempio ordine  
Order example

art. d1 L3 R  
B31\_0600\_45\_0050\_PCD

B41

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



- PCD
- CVD
- M
- CBN

ON REQUEST



ON REQUEST



R 0°- RR



R 0°- RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 7G • 3

N1.1-N1.6

N4.1-N4.2

N1.1-N1.6

N4.1-N4.2

S1.2-S1.3



PCD



CVD

| d1   | L1  | L2  | L3 | d2   | Z |                     |                     |
|------|-----|-----|----|------|---|---------------------|---------------------|
| 2,0  | 60  | 5   | 10 | 6,0  | 1 | B41_0200_10_060_PCD | B41_0200_10_060_CVD |
| 3,0  | 60  | 5   | 15 | 6,0  | 2 | B41_0300_15_060_PCD | B41_0300_15_060_CVD |
| 4,0  | 75  | 5,5 | 20 | 6,0  | 2 | B41_0400_20_075_PCD | B41_0400_20_075_CVD |
| 6,0  | 100 | 6   | 30 | 6,0  | 2 | B41_0600_30_100_PCD | B41_0600_30_100_CVD |
| 8,0  | 100 | 8   | 30 | 8,0  | 2 | B41_0800_30_100_PCD | B41_0800_30_100_CVD |
| 10,0 | 100 | 10  | 45 | 10,0 | 2 | B41_1000_45_100_PCD | B41_1000_45_100_CVD |
| 12,0 | 100 | 12  | 45 | 12,0 | 2 | B41_1200_45_100_PCD | B41_1200_45_100_CVD |
| 16,0 | 100 | 14  | 45 | 16,0 | 2 | B41_1600_45_100_PCD | B41_1600_45_100_CVD |
| 20,0 | 100 | 16  | 45 | 20,0 | 2 | B41_2000_45_100_PCD | B41_2000_45_100_CVD |

ON REQUEST



R 0°- RR



Uncoated

K1.1-K4.2

H1.1-H1.5



CBN

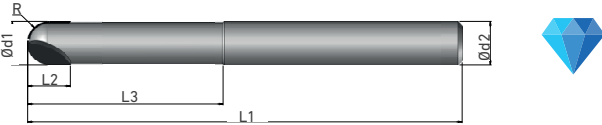
|                     |
|---------------------|
| B41_0200_10_060_CBN |
| B41_0300_15_060_CBN |
| B41_0400_20_075_CBN |
| B41_0600_30_100_CBN |
| B41_0800_30_100_CBN |
| B41_1000_45_100_CBN |
| B41_1200_45_100_CBN |
| B41_1600_45_100_CBN |
| B41_2000_45_100_CBN |

Esempio ordine  
Order example

art. d1 L3 L1  
B41\_0800\_30\_100\_PCD

B51

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



- PCD
- CVD
- XL
- CBN

ON REQUEST



ON REQUEST



R 0°- RR



R 0°- RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 7G • 3

N1.1-N1.6

N4.1-N4.2

N1.1-N1.6

N4.1-N4.2

S1.2-S1.3



PCD



CVD

| d1   | L1  | L2  | L3 | d2   | Z |                     |                     |
|------|-----|-----|----|------|---|---------------------|---------------------|
| 2,0  | 100 | 5   | 20 | 6,0  | 1 | B51_0200_20_100_PCD | B51_0200_20_100_CVD |
| 3,0  | 100 | 5   | 30 | 6,0  | 2 | B51_0300_30_100_PCD | B51_0300_30_100_CVD |
| 4,0  | 100 | 5,5 | 40 | 6,0  | 2 | B51_0400_40_100_PCD | B51_0400_40_100_CVD |
| 6,0  | 120 | 6   | 45 | 6,0  | 2 | B51_0600_45_100_PCD | B51_0600_45_100_CVD |
| 8,0  | 120 | 8   | 45 | 8,0  | 2 | B51_0800_45_120_PCD | B51_0800_45_120_CVD |
| 10,0 | 150 | 10  | 55 | 10,0 | 2 | B51_1000_55_150_PCD | B51_1000_55_150_CVD |
| 12,0 | 150 | 12  | 55 | 12,0 | 2 | B51_1200_55_150_PCD | B51_1200_55_150_CVD |
| 16,0 | 150 | 14  | 55 | 16,0 | 2 | B51_1600_55_150_PCD | B51_1600_55_150_CVD |
| 20,0 | 150 | 16  | 55 | 20,0 | 2 | B51_2000_55_150_PCD | B51_2000_55_150_CVD |

ON REQUEST



R 0°- RR



Uncoated

K1.1-K4.2

H1.1-H1.5



CBN

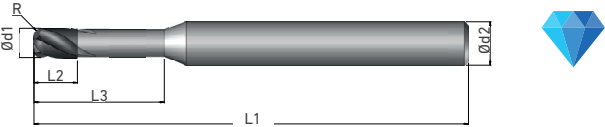
|                     |
|---------------------|
| B51_0200_20_100_CBN |
| B51_0300_30_100_CBN |
| B51_0400_40_100_CBN |
| B51_0600_45_100_CBN |
| B51_0800_45_120_CBN |
| B51_1000_55_150_CBN |
| B51_1200_55_150_CBN |
| B51_1600_55_150_CBN |
| B51_2000_55_150_CBN |

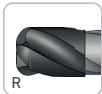
Esempio ordine  
Order example

art. d1 L3 L1  
B51\_0800\_45\_120\_PCD

C01 - C2

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



|                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PCD                                                      | ON REQUEST                                                                          |  | ON REQUEST                                                                          |  |
|                                                          | R 30°- RR                                                                           |                                                                                     | R 30°- RR                                                                           |                                                                                     |
|                                                          |  |                                                                                     |  |                                                                                     |
|                                                          | TRATTAMENTO SUPERFICIALE<br>SURFACE TREATMENT                                       |                                                                                     | Uncoated                                                                            |                                                                                     |
| MATERIALI LAVORABILI<br>WORKING MATERIALS<br>page 7G + 3 | N1.1-N1.6                                                                           |                                                                                     | N1.1-N1.6                                                                           |                                                                                     |
|                                                          | N4.1-N4.2                                                                           |                                                                                     | N4.1-N4.2                                                                           |                                                                                     |
|                                                          |  |                                                                                     |  |                                                                                     |
|                                                          | PCD                                                                                 |                                                                                     | PCD                                                                                 |                                                                                     |

| d1  | L1 | L2 | L3 | d2 | R  | Z   |                   |                      |
|-----|----|----|----|----|----|-----|-------------------|----------------------|
| 1,0 | ** | ** | ** | ** | ** | 2÷6 | C01_1_xx_x_xx_x_x | C2_1_xx_x_xx_x_xxx_x |
| 2,0 | ** | ** | ** | ** | ** | 2÷6 | C01_2_xx_x_xx_x_x | C2_2_xx_x_xx_x_xxx_x |
| 3,0 | ** | ** | ** | ** | ** | 2÷6 | C01_3_xx_x_xx_x_x | C2_3_xx_x_xx_x_xxx_x |
| 4,0 | ** | ** | ** | ** | ** | 2÷6 | C01_4_xx_x_xx_x_x | C2_4_xx_x_xx_x_xxx_x |
| 6,0 | ** | ** | ** | ** | ** | 2÷6 | C01_6_xx_x_xx_x_x | C2_6_xx_x_xx_x_xxx_x |
| 8,0 | ** | ** | ** | ** | ** | 2÷6 | C01_8_xx_x_xx_x_x | C2_8_xx_x_xx_x_xxx_x |

SU RICHIESTA  
ON REQUEST

Esempio ordine  
Order example

art. d1 L1 L2 L3 d2 Z  
C01\_6\_60\_5\_30\_6\_2

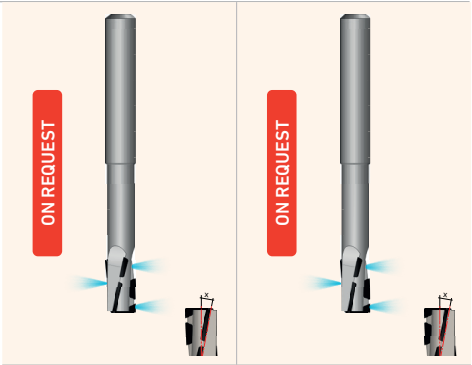
Esempio ordine  
Order example

art. d1 L1 L2 L3 d2 R Z  
C2\_6\_60\_5\_30\_6\_050\_2



D1 - D2 - D3

- PCD
- CVD
- CBN



R 30° - RR

R 30° - RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 7G • 3

N1.1-N1.6

N1.1-N1.6

N4.1-N4.2

N4.1-N4.2

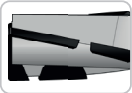
S1.2-S1.3



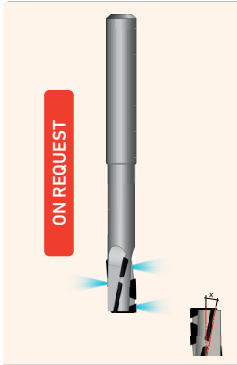
ELICA VARIABILE  
VARIABLE HELIX



PCD



CVD



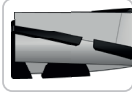
R 30° - RR



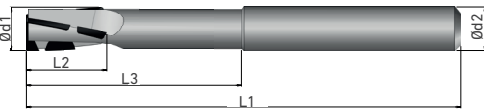
Uncoated

K1.1-K4.2

H1.1-H1.5



CBN



| d1   | L1 | L2 | L3 | d2 | Z |          |          |
|------|----|----|----|----|---|----------|----------|
| 10,0 | ** | ** | ** | ** | 2 | D1_1000_ | D2_1000_ |
| 12,0 | ** | ** | ** | ** | 3 | D1_1200_ | D2_1200_ |
| 14,0 | ** | ** | ** | ** | 3 | D1_1400_ | D2_1400_ |
| 16,0 | ** | ** | ** | ** | 3 | D1_1600_ | D2_1600_ |
| 18,0 | ** | ** | ** | ** | 3 | D1_1800_ | D2_1800_ |
| 20,0 | ** | ** | ** | ** | 3 | D1_2000_ | D2_2000_ |

|          |
|----------|
| D3_1000_ |
| D3_1200_ |
| D3_1400_ |
| D3_1600_ |
| D3_1800_ |
| D3_2000_ |

SU RICHIESTA  
ON REQUEST

Esempio ordine  
Order example

art.  
D1\_1000\_100\_10\_50\_10



E01

PCD

M

DIN 1897

140°



R 30° - RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
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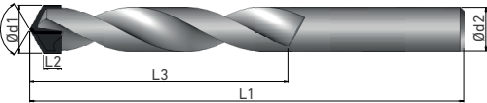
N1.1-N1.6

N4.1-N4.2



PCD

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



| d1    | L1 | L2  | L3 | d2    | Z |                      |
|-------|----|-----|----|-------|---|----------------------|
| 1,50  | 32 | 1   | 9  | 1,50  | 2 | E01_0150_032_009_PCD |
| 1,99  | 32 | 1   | 9  | 1,50  | 2 | E01_0199_032_009_PCD |
| 2,00  | 38 | 1   | 12 | 2,00  | 2 | E01_0200_038_012_PCD |
| 2,49  | 38 | 1   | 12 | 2,00  | 2 | E01_0249_038_012_PCD |
| 2,50  | 43 | 1   | 14 | 2,50  | 2 | E01_0250_043_014_PCD |
| 2,99  | 43 | 1   | 14 | 2,50  | 2 | E01_0299_043_014_PCD |
| 3,00  | 46 | 1,6 | 16 | 3,00  | 2 | E01_0300_046_013_PCD |
| 3,49  | 46 | 1,6 | 16 | 3,00  | 2 | E01_0349_046_013_PCD |
| 3,50  | 52 | 1,6 | 20 | 3,50  | 2 | E01_0350_052_020_PCD |
| 3,99  | 52 | 1,6 | 20 | 3,50  | 2 | E01_0399_052_020_PCD |
| 4,00  | 55 | 2   | 22 | 4,00  | 2 | E01_0400_055_022_PCD |
| 4,49  | 55 | 2   | 22 | 4,00  | 2 | E01_0449_055_022_PCD |
| 4,50  | 58 | 2   | 24 | 4,50  | 2 | E01_0450_058_024_PCD |
| 4,99  | 58 | 2   | 24 | 4,50  | 2 | E01_0499_058_024_PCD |
| 5,00  | 62 | 2   | 26 | 5,00  | 2 | E01_0500_062_026_PCD |
| 5,49  | 62 | 2   | 26 | 5,00  | 2 | E01_0549_062_026_PCD |
| 5,50  | 66 | 2   | 28 | 5,50  | 2 | E01_0550_066_028_PCD |
| 5,99  | 66 | 2   | 28 | 5,50  | 2 | E01_0599_066_028_PCD |
| 6,00  | 66 | 2,7 | 28 | 6,00  | 2 | E01_0600_066_028_PCD |
| 6,49  | 66 | 2,7 | 28 | 6,00  | 2 | E01_0649_066_028_PCD |
| 6,50  | 70 | 2,7 | 31 | 6,50  | 2 | E01_0650_070_031_PCD |
| 6,99  | 70 | 2,7 | 31 | 6,50  | 2 | E01_0699_070_031_PCD |
| 7,00  | 74 | 2,7 | 34 | 7,00  | 2 | E01_0700_074_034_PCD |
| 7,49  | 74 | 2,7 | 34 | 7,00  | 2 | E01_0749_074_034_PCD |
| 7,50  | 74 | 2,7 | 34 | 7,50  | 2 | E01_0750_074_034_PCD |
| 7,99  | 74 | 2,7 | 34 | 7,50  | 2 | E01_0799_074_034_PCD |
| 8,00  | 79 | 2,7 | 37 | 8,00  | 2 | E01_0800_079_037_PCD |
| 8,49  | 79 | 2,7 | 37 | 8,00  | 2 | E01_0849_079_037_PCD |
| 8,50  | 79 | 2,7 | 37 | 8,50  | 2 | E01_0850_079_037_PCD |
| 8,99  | 79 | 2,7 | 37 | 8,50  | 2 | E01_0899_079_037_PCD |
| 9,00  | 84 | 2,7 | 40 | 9,00  | 2 | E01_0900_084_040_PCD |
| 9,49  | 84 | 2,7 | 40 | 9,00  | 2 | E01_0949_084_040_PCD |
| 9,50  | 84 | 2,7 | 40 | 9,50  | 2 | E01_0950_084_040_PCD |
| 9,99  | 84 | 2,7 | 40 | 9,50  | 2 | E01_0999_084_040_PCD |
| 10,00 | 89 | 2,7 | 43 | 10,00 | 2 | E01_1000_089_043_PCD |
| 10,49 | 89 | 2,7 | 43 | 10,00 | 2 | E01_1049_089_043_PCD |
| 10,50 | 89 | 2,7 | 43 | 10,50 | 2 | E01_1050_089_043_PCD |
| 10,99 | 89 | 2,7 | 43 | 10,50 | 2 | E01_1099_089_043_PCD |
| 11,00 | 95 | 2,7 | 47 | 11,00 | 2 | E01_1100_095_047_PCD |
| 11,49 | 95 | 2,7 | 47 | 11,00 | 2 | E01_1149_095_047_PCD |



E01

PCD

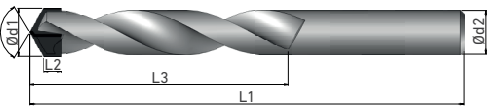
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DIN 1897

140°



ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



R 30° - RR

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 76 - 3

N1.1-N1.6

N4.1-N4.2

PCD

| d1    | L1  | L2  | L3 | d2    | Z |                      |
|-------|-----|-----|----|-------|---|----------------------|
| 11,50 | 95  | 2,7 | 47 | 11,50 | 2 | E01_1150_095_047_PCD |
| 11,99 | 95  | 2,7 | 47 | 11,50 | 2 | E01_1199_095_047_PCD |
| 12,00 | 102 | 2,7 | 51 | 12,00 | 2 | E01_1200_102_051_PCD |
| 12,49 | 102 | 2,7 | 51 | 12,00 | 2 | E01_1249_102_051_PCD |
| 14,00 | 107 | 3   | 54 | 14,00 | 2 | E01_1400_107_054_PCD |
| 14,50 | 107 | 3   | 54 | 14,00 | 2 | E01_1450_107_054_PCD |
| 16,00 | 115 | 3   | 58 | 16,00 | 2 | E01_1600_115_058_PCD |
| 16,50 | 115 | 3   | 58 | 16,00 | 2 | E01_1650_115_058_PCD |

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Esempio ordine  
Order example

art. d1 L1 L3  
E01\_1450\_107\_054\_PCD



E11

PCD

XL

DIN 338

140°



R 30° - RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
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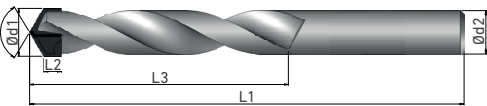
N1.1-N1.6

N4.1-N4.2



PCD

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



| d1    | L1  | L2  | L3 | d2    | Z |                      |
|-------|-----|-----|----|-------|---|----------------------|
| 1,50  | 40  | 1   | 18 | 1,50  | 2 | E11_0150_040_018_PCD |
| 1,99  | 40  | 1   | 18 | 1,50  | 2 | E11_0199_040_018_PCD |
| 2,00  | 49  | 1   | 24 | 2,00  | 2 | E11_0200_049_024_PCD |
| 2,49  | 49  | 1   | 24 | 2,00  | 2 | E11_0249_049_024_PCD |
| 2,50  | 57  | 1   | 30 | 2,50  | 2 | E11_0250_057_030_PCD |
| 2,99  | 57  | 1   | 30 | 2,50  | 2 | E11_0299_057_030_PCD |
| 3,00  | 61  | 1,6 | 33 | 3,00  | 2 | E11_0300_061_033_PCD |
| 3,49  | 61  | 1,6 | 33 | 3,00  | 2 | E11_0349_061_033_PCD |
| 3,50  | 70  | 1,6 | 39 | 3,50  | 2 | E11_0350_070_039_PCD |
| 3,99  | 70  | 1,6 | 39 | 3,50  | 2 | E11_0399_070_039_PCD |
| 4,00  | 75  | 2   | 43 | 4,00  | 2 | E11_0400_075_043_PCD |
| 4,49  | 75  | 2   | 43 | 4,00  | 2 | E11_0449_075_043_PCD |
| 4,50  | 80  | 2   | 47 | 4,50  | 2 | E11_0450_080_047_PCD |
| 4,99  | 80  | 2   | 47 | 4,50  | 2 | E11_0499_080_047_PCD |
| 5,00  | 86  | 2   | 52 | 5,00  | 2 | E11_0500_086_052_PCD |
| 5,49  | 86  | 2   | 52 | 5,00  | 2 | E11_0549_086_052_PCD |
| 5,50  | 93  | 2   | 57 | 5,50  | 2 | E11_0550_093_057_PCD |
| 5,99  | 93  | 2   | 57 | 5,50  | 2 | E11_0599_093_057_PCD |
| 6,00  | 93  | 2,7 | 57 | 6,00  | 2 | E11_0600_093_057_PCD |
| 6,49  | 93  | 2,7 | 57 | 6,00  | 2 | E11_0649_093_057_PCD |
| 6,50  | 101 | 2,7 | 63 | 6,50  | 2 | E11_0650_101_063_PCD |
| 6,99  | 101 | 2,7 | 63 | 6,50  | 2 | E11_0699_101_063_PCD |
| 7,00  | 109 | 2,7 | 69 | 7,00  | 2 | E11_0700_109_069_PCD |
| 7,49  | 109 | 2,7 | 69 | 7,00  | 2 | E11_0749_109_069_PCD |
| 7,50  | 109 | 2,7 | 69 | 7,50  | 2 | E11_0750_109_069_PCD |
| 7,99  | 109 | 2,7 | 69 | 7,50  | 2 | E11_0799_109_069_PCD |
| 8,00  | 117 | 2,7 | 75 | 8,00  | 2 | E11_0800_117_075_PCD |
| 8,49  | 117 | 2,7 | 75 | 8,00  | 2 | E11_0849_117_075_PCD |
| 8,50  | 117 | 2,7 | 75 | 8,50  | 2 | E11_0850_117_075_PCD |
| 8,99  | 117 | 2,7 | 75 | 8,50  | 2 | E11_0899_117_075_PCD |
| 9,00  | 125 | 2,7 | 81 | 9,00  | 2 | E11_0900_125_081_PCD |
| 9,49  | 125 | 2,7 | 81 | 9,00  | 2 | E11_0949_125_081_PCD |
| 9,50  | 125 | 2,7 | 81 | 9,50  | 2 | E11_0950_125_081_PCD |
| 9,99  | 125 | 2,7 | 81 | 9,50  | 2 | E11_0999_125_081_PCD |
| 10,00 | 133 | 2,7 | 87 | 10,00 | 2 | E11_1000_133_087_PCD |
| 10,49 | 133 | 2,7 | 87 | 10,00 | 2 | E11_1049_133_087_PCD |
| 10,50 | 133 | 2,7 | 87 | 10,50 | 2 | E11_1050_133_087_PCD |
| 10,99 | 133 | 2,7 | 87 | 10,50 | 2 | E11_1099_133_087_PCD |
| 11,00 | 142 | 2,7 | 94 | 11,00 | 2 | E11_1100_142_094_PCD |
| 11,49 | 142 | 2,7 | 94 | 11,00 | 2 | E11_1149_142_094_PCD |



E11

PCD

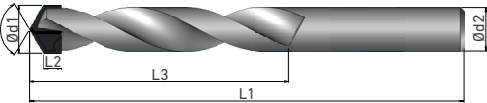
XL

DIN 338

140°



ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



R 30° - RR

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 76 - 3

N1.1-N1.6

N4.1-N4.2

PCD

| d1    | L1  | L2  | L3  | d2    | Z |                      |
|-------|-----|-----|-----|-------|---|----------------------|
| 11,50 | 142 | 2,7 | 94  | 11,50 | 2 | E11_1150_142_094_PCD |
| 11,99 | 142 | 2,7 | 94  | 11,50 | 2 | E11_1199_142_094_PCD |
| 12,00 | 151 | 2,7 | 101 | 12,00 | 2 | E11_1200_115_101_PCD |
| 12,49 | 151 | 2,7 | 101 | 12,00 | 2 | E11_1249_151_101_PCD |
| 14,00 | 160 | 3   | 108 | 14,00 | 2 | E11_1400_160_108_PCD |
| 14,50 | 160 | 3   | 108 | 14,00 | 2 | E11_1450_160_108_PCD |
| 16,00 | 178 | 3   | 120 | 16,00 | 2 | E11_1600_178_120_PCD |
| 16,50 | 178 | 3   | 120 | 16,00 | 2 | E11_1650_178_120_PCD |

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Esempio ordine  
Order example

art. d1 L1 L3  
E11\_1450\_160\_108\_PCD



## E21

PCD

XXL



ON REQUEST



R 30°- RR



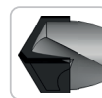
**TRATTAMENTO SUPERFICIALE**  
SURFACE TREATMENT

Uncoated

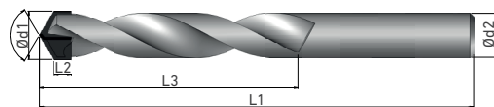
**MATERIALI LAVORABILI**  
WORKING MATERIALS  
page 76 • 3

N1.1-N1.6

N4.1-N4.2



PCD



| d1    | L1  | L2  | L3 | d2    | Z |                      |
|-------|-----|-----|----|-------|---|----------------------|
| 1,50  | 75  | 1   | 30 | 1,50  | 2 | E21_0150_075_030_PCD |
| 1,99  | 75  | 1   | 30 | 1,50  | 2 | E21_0199_075_030_PCD |
| 2,00  | 75  | 1   | 30 | 2,00  | 2 | E21_0200_075_030_PCD |
| 2,49  | 75  | 1   | 30 | 2,00  | 2 | E21_0249_075_030_PCD |
| 2,50  | 100 | 1   | 35 | 2,50  | 2 | E21_0250_100_035_PCD |
| 2,99  | 100 | 1   | 35 | 2,50  | 2 | E21_0299_100_035_PCD |
| 3,00  | 100 | 1,6 | 50 | 3,00  | 2 | E21_0300_100_050_PCD |
| 3,49  | 100 | 1,6 | 50 | 3,00  | 2 | E21_0349_100_050_PCD |
| 3,50  | 100 | 1,6 | 50 | 3,50  | 2 | E21_0350_100_050_PCD |
| 3,99  | 100 | 1,6 | 50 | 3,50  | 2 | E21_0399_100_050_PCD |
| 4,00  | 100 | 2   | 50 | 4,00  | 2 | E21_0400_100_050_PCD |
| 4,49  | 100 | 2   | 50 | 4,00  | 2 | E21_0449_100_050_PCD |
| 4,50  | 100 | 2   | 50 | 4,50  | 2 | E21_0450_100_050_PCD |
| 4,99  | 100 | 2   | 50 | 4,50  | 2 | E21_0499_100_047_PCD |
| 5,00  | 150 | 2   | 75 | 5,00  | 2 | E21_0500_086_052_PCD |
| 5,49  | 150 | 2   | 75 | 5,00  | 2 | E21_0549_086_052_PCD |
| 5,50  | 150 | 2   | 75 | 5,50  | 2 | E21_0550_093_057_PCD |
| 5,99  | 150 | 2   | 75 | 5,50  | 2 | E21_0599_093_057_PCD |
| 6,00  | 150 | 2,7 | 75 | 6,00  | 2 | E21_0600_093_057_PCD |
| 6,49  | 150 | 2,7 | 75 | 6,00  | 2 | E21_0649_093_057_PCD |
| 6,50  | 150 | 2,7 | 75 | 6,50  | 2 | E21_0650_101_063_PCD |
| 6,99  | 150 | 2,7 | 75 | 6,50  | 2 | E21_0699_101_063_PCD |
| 7,00  | 150 | 2,7 | 75 | 7,00  | 2 | E21_0700_109_069_PCD |
| 7,49  | 150 | 2,7 | 75 | 7,00  | 2 | E21_0749_109_069_PCD |
| 7,50  | 150 | 2,7 | 75 | 7,50  | 2 | E21_0750_109_069_PCD |
| 7,99  | 150 | 2,7 | 75 | 7,50  | 2 | E21_0799_109_069_PCD |
| 8,00  | 150 | 2,7 | 75 | 8,00  | 2 | E21_0800_117_075_PCD |
| 8,49  | 150 | 2,7 | 75 | 8,00  | 2 | E21_0849_117_075_PCD |
| 8,50  | 150 | 2,7 | 75 | 8,50  | 2 | E21_0850_117_075_PCD |
| 8,99  | 150 | 2,7 | 75 | 8,50  | 2 | E21_0899_117_075_PCD |
| 9,00  | 150 | 2,7 | 75 | 9,00  | 2 | E21_0900_125_081_PCD |
| 9,49  | 150 | 2,7 | 75 | 9,00  | 2 | E21_0949_125_081_PCD |
| 9,50  | 150 | 2,7 | 75 | 9,50  | 2 | E21_0950_125_081_PCD |
| 9,99  | 150 | 2,7 | 75 | 9,50  | 2 | E21_0999_125_081_PCD |
| 10,00 | 150 | 2,7 | 75 | 10,00 | 2 | E21_1000_133_087_PCD |
| 10,49 | 150 | 2,7 | 75 | 10,00 | 2 | E21_1049_133_087_PCD |
| 10,50 | 200 | 2,7 | 90 | 10,50 | 2 | E21_1050_133_087_PCD |
| 10,99 | 200 | 2,7 | 90 | 10,50 | 2 | E21_1099_133_087_PCD |
| 11,00 | 200 | 2,7 | 90 | 11,00 | 2 | E21_1100_142_094_PCD |
| 11,49 | 200 | 2,7 | 90 | 11,00 | 2 | E21_1149_142_094_PCD |

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E21

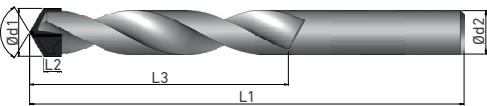
PCD

XXL

140°



ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



R 30° - RR

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 76 - 3

N1.1-N1.6

N4.1-N4.2

PCD

| d1    | L1  | L2  | L3 | d2    | Z |                      |
|-------|-----|-----|----|-------|---|----------------------|
| 11,50 | 200 | 2,7 | 90 | 11,50 | 2 | E21_1150_200_090_PCD |
| 11,99 | 200 | 2,7 | 90 | 11,50 | 2 | E21_1199_200_090_PCD |
| 12,00 | 200 | 2,7 | 90 | 12,00 | 2 | E21_1200_200_090_PCD |
| 12,49 | 200 | 2,7 | 90 | 12,00 | 2 | E21_1249_200_090_PCD |
| 12,50 | 200 | 2,7 | 90 | 12,50 | 2 | E21_1250_200_090_PCD |
| 12,99 | 200 | 2,7 | 90 | 12,50 | 2 | E21_1299_200_090_PCD |
| 13,00 | 200 | 2,7 | 90 | 13,00 | 2 | E21_1300_200_090_PCD |
| 13,50 | 200 | 2,7 | 90 | 13,00 | 2 | E21_1350_200_090_PCD |

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Esempio ordine  
Order example

art. d1 L1 L3  
E21\_1350\_200\_090\_PCD



## E31

PCD

### 3xD



ON REQUEST



R 30°- RR



**TRATTAMENTO SUPERFICIALE**  
SURFACE TREATMENT

Uncoated

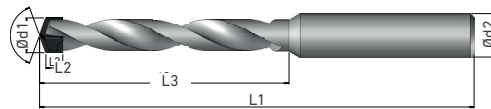
**MATERIALI LAVORABILI**  
WORKING MATERIALS  
page 76 • 3

N1.1-N1.6

N4.1-N4.2



PCD



| d1    | L1  | L2  | L3 | d2   | Z |                      |
|-------|-----|-----|----|------|---|----------------------|
| 2,50  | 62  | 1   | 20 | 6,0  | 2 | E31_0250_062_020_PCD |
| 3,79  | 62  | 1   | 20 | 6,0  | 2 | E31_0379_062_020_PCD |
| 3,80  | 66  | 1,6 | 24 | 6,0  | 2 | E31_0380_066_024_PCD |
| 4,79  | 66  | 1,6 | 24 | 6,0  | 2 | E31_0479_066_024_PCD |
| 4,80  | 66  | 2   | 28 | 6,0  | 2 | E31_0480_066_024_PCD |
| 6,29  | 66  | 2   | 28 | 6,0  | 2 | E31_0629_066_024_PCD |
| 6,30  | 79  | 2   | 34 | 8,0  | 2 | E31_0630_079_034_PCD |
| 8,49  | 79  | 2   | 34 | 8,0  | 2 | E31_0849_079_034_PCD |
| 8,50  | 89  | 2   | 47 | 10,0 | 2 | E31_0850_089_047_PCD |
| 10,19 | 89  | 2   | 47 | 10,0 | 2 | E31_1019_089_047_PCD |
| 10,20 | 102 | 2,7 | 55 | 12,0 | 2 | E31_1020_102_055_PCD |
| 12,49 | 102 | 2,7 | 55 | 12,0 | 2 | E31_1249_102_055_PCD |
| 12,50 | 107 | 2,7 | 60 | 14,0 | 2 | E31_1250_107_060_PCD |
| 14,00 | 107 | 2,7 | 60 | 14,0 | 2 | E31_1400_107_060_PCD |
| 14,50 | 115 | 3   | 65 | 16,0 | 2 | E31_1450_115_065_PCD |
| 16,50 | 115 | 3   | 65 | 16,0 | 2 | E31_1650_115_065_PCD |
| 18,00 | 123 | 3   | 73 | 18,0 | 2 | E31_1800_123_073_PCD |
| 18,50 | 123 | 3   | 73 | 18,0 | 2 | E31_1850_123_073_PCD |
| 20,00 | 131 | 3   | 79 | 20,0 | 2 | E31_2000_131_079_PCD |
| 20,50 | 131 | 3   | 79 | 20,0 | 2 | E31_2050_131_079_PCD |

### Esempio ordine

art. d1 L1 L3  
E31\_1450\_115\_065\_PCD

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E41

PCD

5xD

140°



R 30° - RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

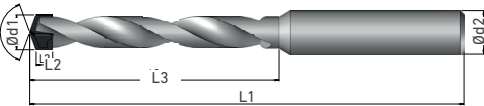
MATERIALI LAVORABILI  
WORKING MATERIALS  
page 76 • 3

N1.1-N1.6

N4.1-N4.2



PCD



| d1    | L1  | L2  | L3 | d2   | Z |                      |
|-------|-----|-----|----|------|---|----------------------|
| 5,80  | 66  | 2   | 28 | 6,0  | 2 | E41_0580_066_028_PCD |
| 6,29  | 66  | 2   | 28 | 6,0  | 2 | E41_0629_066_028_PCD |
| 6,30  | 79  | 2   | 34 | 8,0  | 2 | E41_0630_079_034_PCD |
| 8,49  | 79  | 2   | 34 | 8,0  | 2 | E41_0849_079_034_PCD |
| 8,50  | 89  | 2   | 47 | 10,0 | 2 | E41_0850_089_047_PCD |
| 10,19 | 89  | 2   | 47 | 10,0 | 2 | E41_1019_089_047_PCD |
| 10,20 | 102 | 2,7 | 55 | 12,0 | 2 | E41_1020_102_055_PCD |
| 12,49 | 102 | 2,7 | 55 | 12,0 | 2 | E41_1249_102_055_PCD |
| 12,50 | 107 | 2,7 | 60 | 14,0 | 2 | E41_1250_107_060_PCD |
| 14,00 | 107 | 2,7 | 60 | 14,0 | 2 | E41_1400_107_060_PCD |
| 14,50 | 115 | 3   | 65 | 16,0 | 2 | E41_1450_115_065_PCD |
| 16,50 | 115 | 3   | 65 | 16,0 | 2 | E41_1650_115_065_PCD |
| 18,00 | 123 | 3   | 73 | 18,0 | 2 | E41_1800_123_073_PCD |
| 18,50 | 123 | 3   | 73 | 18,0 | 2 | E41_1850_123_073_PCD |
| 20,00 | 131 | 3   | 79 | 20,0 | 2 | E41_2000_131_079_PCD |
| 20,50 | 131 | 3   | 79 | 20,0 | 2 | E41_2050_131_079_PCD |

Esempio ordine  
Order example

art. d1 L1 L3  
E41\_2000\_131\_079\_PCD

E51

PCD

8xD

140°



R 30° - RR



TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

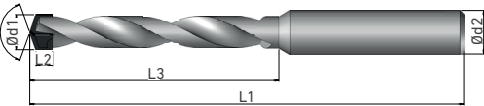
MATERIALI LAVORABILI  
WORKING MATERIALS  
page 76 - 3

N1.1-N1.6

N4.1-N4.2



PCD



| d1    | L1  | L2  | L3  | d2   | Z |                      |
|-------|-----|-----|-----|------|---|----------------------|
| 5,80  | 95  | 2   | 57  | 6,0  | 2 | E51_0580_095_057_PCD |
| 6,29  | 95  | 2   | 57  | 6,0  | 2 | E51_0629_095_057_PCD |
| 6,30  | 114 | 2   | 76  | 8,0  | 2 | E51_0630_114_076_PCD |
| 8,49  | 114 | 2   | 76  | 8,0  | 2 | E51_0849_114_076_PCD |
| 8,50  | 142 | 2   | 95  | 10,0 | 2 | E51_0850_142_095_PCD |
| 10,19 | 142 | 2   | 95  | 10,0 | 2 | E51_1019_142_095_PCD |
| 10,20 | 162 | 2,7 | 114 | 12,0 | 2 | E51_1020_162_114_PCD |
| 12,49 | 162 | 2,7 | 114 | 12,0 | 2 | E51_1249_162_114_PCD |
| 12,50 | 178 | 2,7 | 133 | 14,0 | 2 | E51_1250_178_133_PCD |
| 14,00 | 178 | 2,7 | 133 | 14,0 | 2 | E51_1400_178_133_PCD |
| 14,50 | 203 | 3   | 152 | 16,0 | 2 | E51_1450_203_152_PCD |
| 16,50 | 203 | 3   | 152 | 16,0 | 2 | E51_1650_203_152_PCD |

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|  |
|  |

Esempio ordine  
Order example

art. d1 L1 L3  
E51\_0850\_142\_095\_PCD



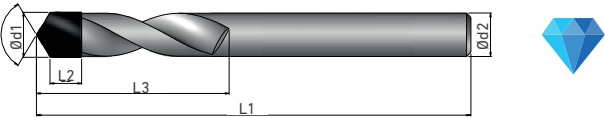
F01

PCD

140°



ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



R 30° - RR

TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 76 - 3

N1.1-N1.6

N4.1-N4.2

PCD

| d1        | L1 | L2 | L3 | d2    | Z |                    |
|-----------|----|----|----|-------|---|--------------------|
| 0,8 ÷ 1,8 | ** | 1  | ** | d1=d2 | 2 | F01_xxxx_xx_xx_PCD |



SU RICHIESTA  
ON REQUEST

Esempio ordine  
Order example

art.  
F01

d1  
\_0080

L1  
\_50

L3  
\_20

\_PCD



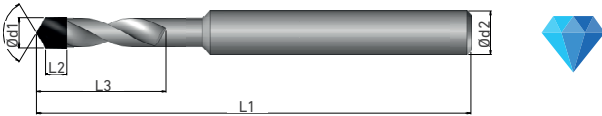
F11

PCD

140°



ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



R 30° - RR

TRATTAMENTO SUPERFICIALE  
SURFACE TREATMENT

Uncoated

MATERIALI LAVORABILI  
WORKING MATERIALS  
page 76 - 3

N1.1-N1.6

N4.1-N4.2

PCD

| d1        | L1 | L2 | L3 | d2    | Z |                     |
|-----------|----|----|----|-------|---|---------------------|
| 0,8 ÷ 1,8 | ** | 1  | ** | 3/4/6 | 2 | F11_xxx_xx_xx_x_PCD |



SU RICHIESTA  
ON REQUEST

Esempio ordine  
Order example

art.  
F11

d1  
\_080

L1  
\_50

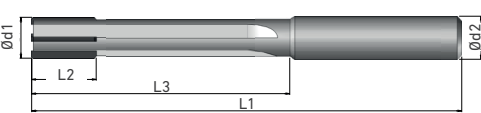
L3  
\_15

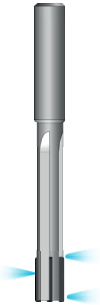
d2  
\_4

\_PCD

G01 - G02 - G03  
G04 - G05 - G06  
G07 - G08 - G09

ESECUZIONI SPECIALI A DISEGNO  
CUSTOMIZED DESIGN ON REQUEST



|                                                          |     |     |                                                                                     |                                                                                     |
|----------------------------------------------------------|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PCD                                                      | CVD | CBN |  |  |
|                                                          |     |     | ON REQUEST                                                                          | ON REQUEST                                                                          |
|                                                          |     |     | R 0° - RR                                                                           | R 0° - RR                                                                           |
| TRATTAMENTO SUPERFICIALE<br>SURFACE TREATMENT            |     |     |  |  |
|                                                          |     |     | Uncoated                                                                            | Uncoated                                                                            |
| MATERIALI LAVORABILI<br>WORKING MATERIALS<br>page 7G - 3 |     |     |  |  |
|                                                          |     |     | PCD                                                                                 | PCD                                                                                 |

| d1            | L1 | L2 | L3 | d2 | Z | G01                 | G02                 |
|---------------|----|----|----|----|---|---------------------|---------------------|
| 4,00 ÷ 6,50   | ** | 5  | ** | ** | 2 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 6,51 ÷ 8,50   | ** | 6  | ** | ** | 4 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 8,51 ÷ 10,50  | ** | 6  | ** | ** | 4 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 10,51 ÷ 13,00 | ** | 8  | ** | ** | 4 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 13,01 ÷ 15,00 | ** | 8  | ** | ** | 4 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 15,01 ÷ 17,00 | ** | 8  | ** | ** | 4 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 17,01 ÷ 19,00 | ** | 8  | ** | ** | 4 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 19,01 ÷ 23,00 | ** | 10 | ** | ** | 4 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |
| 23,01 ÷ 26,00 | ** | 10 | ** | ** | 6 | G01_xxxx_xxx_xxx_xx | G02_xxxx_xxx_xxx_xx |

|                                                                                                           |                                                                                                           |                                                                                                           |                                                                                                           |                                                                                                           |                                                                                                           |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  <div>ON REQUEST</div> |  <div>ON REQUEST</div> |  <div>ON REQUEST</div> |  <div>ON REQUEST</div> |  <div>ON REQUEST</div> |  <div>ON REQUEST</div> |  <div>ON REQUEST</div> |
| R 0° - RR                                                                                                 | R 0° - RR                                                                                                 | R 0° - RR                                                                                                 | R 0° - RR                                                                                                 | R 0° - RR                                                                                                 | R 0° - RR                                                                                                 | R 0° - RR                                                                                                 |
|                        |                        |                        |                        |                        |                        |                        |
| Uncoated                                                                                                  | Uncoated                                                                                                  | Uncoated                                                                                                  | Uncoated                                                                                                  | Uncoated                                                                                                  | Uncoated                                                                                                  | Uncoated                                                                                                  |
| N1.1-N1.6<br>N4.1-N4.2                                                                                    | N1.1-N1.6<br>N4.1-N4.2<br>S1.2-S1.3                                                                       | N1.1-N1.6<br>N4.1-N4.2<br>S1.2-S1.3                                                                       | N1.1-N1.6<br>N4.1-N4.2<br>S1.2-S1.3                                                                       | K1.1-K4.2<br>H1.1-H1.5                                                                                    | K1.1-K4.2<br>H1.1-H1.5                                                                                    | K1.1-K4.2<br>H1.1-H1.5                                                                                    |
|  <div>PCD</div>        |  <div>CVD</div>        |  <div>CVD</div>        |  <div>CVD</div>        |  <div>CBN</div>        |  <div>CBN</div>        |  <div>CBN</div>        |

|                     |                     |                     |                     |                     |                     |                     |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |
| G03_xxxx_xxx_xxx_xx | G04_xxxx_xxx_xxx_xx | G05_xxxx_xxx_xxx_xx | G06_xxxx_xxx_xxx_xx | G07_xxxx_xxx_xxx_xx | G08_xxxx_xxx_xxx_xx | G09_xxxx_xxx_xxx_xx |

Esempio ordine  
Order example

art. d1 L1 L3 d2  
G01\_0901\_100\_050\_10



DIA

DIA