

SU

Series twist drill
Versione universale [IT]

SUK

Twist drills for grey cast iron
Punta elicoidale per la foratura di ghisa [IT]



ZCC Cutting Tools Europe GmbH

your Partner | your Value

Solid carbide drills Code Key · Classificazione ISO per punte in metallo duro integrale

Description Denominazione	
Code	Description · Descrizione
1	DIN338
2	DIN1897
3	QJ/ZZQ(TO)01.001.002
4	DIN6537K
5	DIN6537K
6	DIN6537K
7	ZZC-C in QJ/ZZQ(TO)01.001.002
8	ZZC-D in QJ/ZZQ(TO)01.001.002
9	ZZC-E in QJ/ZZQ(TO)01.001.002

Application Applicazione	
Code	Description · Descrizione
SU	Twist drill for general universal machining Punta elicoidale per lavorazione generica.
SL	Twist drill for deep drilling Punta elicoidale per forature profonde
SP	Pilot drills Punta pilota
ST	Twist drill for soft steel, stainless steel Punta elicoidale per acciai dolci e acciaio inox
SH	Twist drill for high hardness steel Punta elicoidale per acciaio temprato
SC	Twist drill for aluminum, cast iron Punta elicoidale per alluminio e ghisa grigia
PA	Three-lips drill for aluminum, cast iron Punta a 3 taglienti per leghe di Al, ghisa grigia
PC	Straight flute drill for aluminum, cast iron Punta a scanalatura diritta per Al, ghisa grigia

Type of tools Tipologia utensile	
Code	Description · Descrizione
1	Drills · Punte

Mode of cooling Metodo di raffreddamento	
Code	Description · Descrizione
C	Internal Coolant Alimentazione Interna di refrigerante

1 5 3 6 SU 05 C -0850

Type of shank · Versione dello stello	
Code	Description · Descrizione
1	Straight shank Versione codolo cilindrico
2	Square head Straight shank DIN 10 Codolo DIN 10 a 4 spigoli (testa quadrata)
3	Double flattened Straight shank DIN1809 Codolo cilindrico DIN1809 a 2 superfici
5	Straight shank DIN6535HA Codolo cilindrico DIN6535HA
6	Weldon shank DIN6535HB Codolo Weldon DIN6535HB
7	Whistle notch shank DIN6535HE Codolo Whistle-Notch DIN6535HE
9	Tapered shank Codolo MK

Type of drill · Tipologia punta	
Code	Description · Descrizione
0	Twist drill Punta elicoidale
3	Multiple functions twist drill Punta elicoidale universale
4	Centering drill Bulino
5	Step drill Punta a gradino
6	Three-lips drill Punta a 3 taglienti
7	Straight flute drill Punta con scanalature diritte

Specification · Denominazione	
Code	Description · Descrizione
0850	Nominal cutting diameter of stepless drill Diametro della punta: 8,5mm
M6	Step drill for standard pitch Passo standard maschiatore
M8x1	Step drill for fine pitch Maschiatore per filettature di precisione

Identification of drilling depth and point angle · max. profondità di foratura

If the tool is not a centering drill, it indicate the drilling depth Se l'utensile non è un centrino, indicare la profondità di foratura		If the tool is a centering drill, it indicate the point angle Se l'utensile non è un centrino, indicare l'angolo di punto	
Code	Description · Descrizione	Code	Description · Descrizione
03	(2~3) d	90	Centering drill with 90° point angle Bulino con angolo di 90°
05	(4~5) d		
08	(7~8) d		
15	(15) d	120	Centering drill with 120° point angle Centrino con angolo di 120°

SU Series twist drill Versione universale

SU Universal series · Versione universale

The optimized chip-breaker, shape of the cutting edge and a proper change of the rake angle combined with a TiAlN nano coating for a wider application field. It is for the drilling of work piece materials of P(steel), M(stainless steel) and K(cast iron) with high performance.

La geometria ottimizzata del tagliente in combinazione con un rivestimento Nano TiAlN consente una lavorazione ad alte prestazioni per la foratura di materiali in acciaio, materiali inossidabili e ghise.



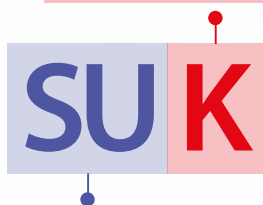
Specially designed drill point makes cutting smooth.

Geometria speciale per un taglio morbido

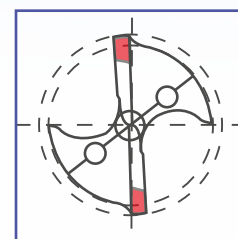
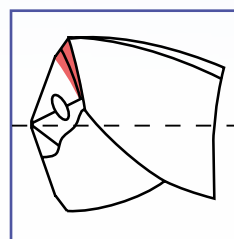
SUK **NEW** DIN 1412 D

Twist drills for grey cast iron Punta elicoidale per la foratura di ghisa

For grey cast iron
Per ghisa



Twist drill for deep drilling
Per foratura profonda



Form D - Double Angle for Cast Iron
Form D - Forma D - affilatura per ghisa

- **Applications / Anwendung:**
For drilling grey cast iron, malleable cast iron and forgings.
er foratura di ghise, ghisa malleabile, stampati
- **Advantages / Vorteile:**
Wear on cutting corners is reduced by extended major cutting edges, resistant to impact, good heat conductivity, all giving improved tool life.
Protezione dell'angolo esterno allungando il tagliente primario, maggiore resistenza alle scheggiature, maggiore assorbimento del calore. Aumento della vita utile della punta.

All articles SUK on demand, please add **K when ordering.**
Gli articoli SUK sono su richiesta, riportare la lettera K nella vostra richiesta.

1534SUK03-0100

Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

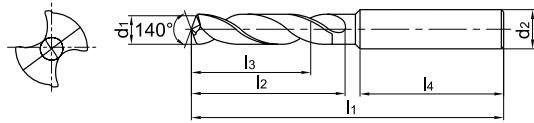
Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



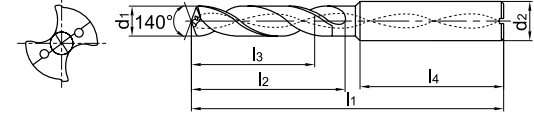
External Coolant
Raffreddamento esterno

Straight shank
Codolo cilindrico



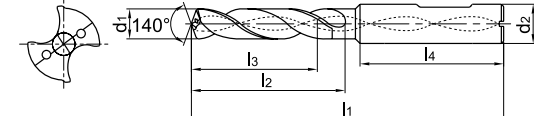
Internal Coolant
Raffreddamento interno

Straight shank
Codolo cilindrico



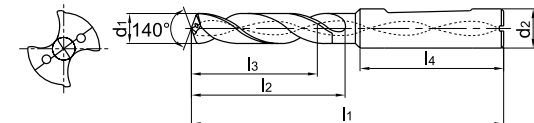
Internal Coolant
Raffreddamento interno

Weldon shank · Codolo



Internal Coolant
Raffreddamento interno

Whistle notch shank · Codolo



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄		
0.90	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0090	4	47	3.4	4.2	37.9	●	
1.00	3			1534SU03-0100	4	47	3.8	4.7	37.6	●	
1.05	3			1534SU03-0105	4	47	3.9	4.9	37.5	○	
1.10	3			1534SU03-0110	4	47	4.1	5.2	37.2	●	
1.15	3			1534SU03-0115	4	47	4.3	5.4	37.1	○	
1.20	3			1534SU03-0120	4	47	4.5	5.6	37	●	
1.25	3			1534SU03-0125	4	47	4.7	5.9	36.8	○	
1.30	3			1534SU03-0130	4	47	4.9	6.1	36.6	●	
1.35	3			1534SU03-0135	4	47	5.1	6.3	36.5	○	
1.40	3			1534SU03-0140	4	47	5.3	6.6	36.3	●	
1.45	3			1534SU03-0145	4	47	5.4	6.8	36.2	○	
1.47	3			1534SU03-0147	4	47	5.5	6.9	36.1	●	
1.50	3			1534SU03-0150	4	47	5.6	7.1	36	●	
1.55	3			1534SU03-0155	4	47	5.8	7.3	35.8	○	
1.60	3			1534SU03-0160	4	47	6.0	7.5	35.7	●	
1.65	3			1534SU03-0165	4	47	6.2	7.8	35.5	○	
1.70	3			1534SU03-0170	4	47	6.4	8	35.4	●	
1.75	3			1534SU03-0175	4	47	6.6	8.2	35.2	●	
1.80	3			1534SU03-0180	4	47	6.8	8.5	35	●	
1.85	3			1534SU03-0185	4	47	6.9	8.7	34.9	○	
1.90	3			1534SU03-0190	4	47	7.1	8.9	34.8	●	
1.95	3			1534SU03-0195	4	47	7.3	9.2	34.5	○	
2.0	3			1534SU03-0200	6	62	20	14	36	●	
	5			1536SU05-0200	6	66	28	23	36	●	
2.1	3			1534SU03-0210	6	62	20	14	36	●	
	5			1536SU05-0210	6	66	28	23	36	●	
2.2	3			1534SU03-0220	6	62	20	14	36	●	
	5			1536SU05-0220	6	66	28	23	36	●	
2.3	3	1534SU03-0230	6	62	20	14	36	●			
	5	1536SU05-0230	6	66	28	23	36	●			
2.33	3	1534SU03-0233	3	59	13.8	14	36	●			

Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303	
2.4	3	Esternoal Esterno	Straight shank	1534SU03-0240	6	62	20	14	36	●	
	5			1536SU05-0240	6	66	28	23	36	●	
2.5	3			1534SU03-0250	6	62	20	14	36	●	
	5			1536SU05-0250	6	66	28	23	36	●	
2.6	3			1534SU03-0260	6	62	20	14	36	●	
	5			1536SU05-0260	6	66	28	23	36	●	
2.7	3			1534SU03-0270	6	62	20	14	36	●	
	5			1536SU05-0270	6	66	28	23	36	●	
2.8	3		1534SU03-0280	6	62	20	14	36	●		
	5		1536SU05-0280	6	66	28	23	36	●		
2.9	3		1534SU03-0290	6	62	20	14	36	●		
	5		1536SU05-0290	6	66	28	23	36	●		
3.0	3		Internooal Interno	Codolo cilindrico	1534SU03-0300	6	62	20	14	36	●
	5				1536SU05-0300	6	66	28	23	36	●
	3				1534SU03C-0300	6	62	20	14	36	●
	5				1536SU05C-0300	6	66	28	23	36	●
	3	Weldon shank/Codolo		1634SU03C-0300	6	62	20	14	36	●	
	5	1636SU05C-0300		6	66	20	14	36	●		
	3	Whistle notch shank/Codolo		1734SU03C-0300	6	66	28	23	36	●	
	5	1736SU05C-0300		6	66	28	23	36	●		
3.1	8	Internooal Interno	straight shank Codolo cilindrico	1538SU08C-0300	6	72	34	29	36	●	
	3			Weldon shank/Codolo	1534SU03-0310	6	62	20	14	36	●
	5				1536SU05-0310	6	66	28	23	36	●
	3				1534SU03C-0310	6	62	20	14	36	●
	5		1536SU05C-0310		6	66	28	23	36	●	
	3		Internooal Interno	Weldon shank/Codolo	1634SU05C-0310	6	62	20	14	36	●
	5				1636SU05C-0310	6	66	28	23	36	●
	3				Whistle notch shank/Codolo	1734SU03C-0310	6	62	20	14	36
5	1736SU05C-0310	6			66	28	23	36	●		
3.2	8	Esternoal Esterno	Straight shank	1538SU08C-0310	6	72	34	29	36	●	
	3			Codolo cilindrico	1534SU03-0320	6	62	20	14	36	●
	5				1536SU05-0320	6	66	28	23	36	●
	3				1534SU03C-0320	6	62	20	14	36	●
	5		1536SU05C-0320		6	66	28	23	36	●	
	3		Internooal Interno	Weldon shank/Codolo	1634SU03C-0320	6	62	20	14	36	●
	5				1636SU05C-0320	6	66	28	23	36	●
	3				Whistle notch shank/Codolo	1734SU03C-0320	6	62	20	14	36
5	1736SU05C-0320	6			66	28	23	36	●		
3.25	8	Esternoal Esterno	Straight shank	1538SU08C-0320	6	72	34	29	36	●	
	3			Codolo cilindrico	1534SU03-0325	6	62	20	14	36	●
	5				1536SU05-0325	6	66	28	23	36	●
	3				1534SU03C-0325	6	62	20	14	36	●
	5		1536SU05C-0325		6	66	28	23	36	●	
	3		Internooal Interno	Weldon shank/ Codolo	1634SU03C-0325	6	62	20	14	36	○
	5				1636SU05C-0325	6	66	28	23	36	○
	3				Whistle notch shank/Codolo	1734SU03C-0325	6	62	20	14	36
5	1736SU05C-0325	6			66	28	23	36	○		

✓ = Very suitable · Molto consigliata

✓ = Suitable · Consigliata

Material Overview · Panoramica materiali

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

G

Solid Carbide drills
Punte in metallo duro integrale

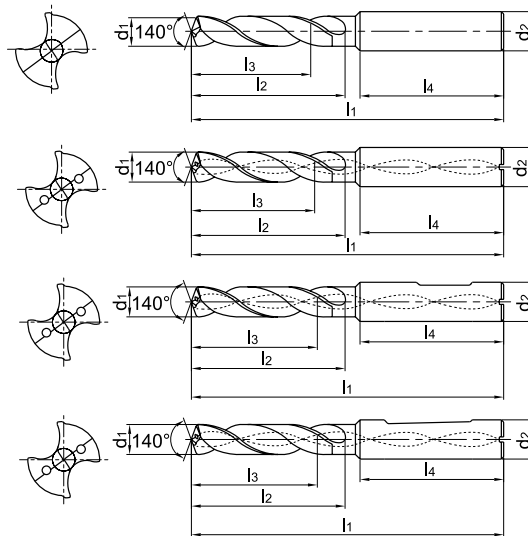
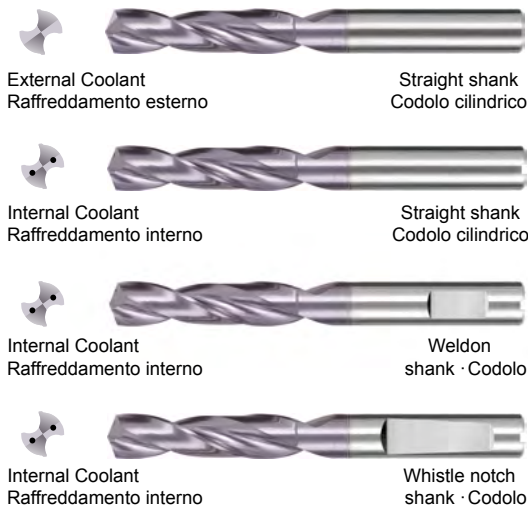
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
3.3	3	Esternoal Esterno	Straight shank	1534SU03-0330	6	62	20	14	36	●
	5			1536SU05-0330	6	66	28	23	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0330	6	62	20	14	36	●
	5			1536SU05C-0330	6	66	28	23	36	●
	3		Weldon shank/Codolo	1634SU03C-0330	6	62	20	14	36	●
	5			1636SU05C-0330	6	66	28	23	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0330	6	62	20	14	36	●
	5			1736SU05C-0330	6	66	28	23	36	●
8		1538SU08C-0330	6	72	34	29	36	●		
3.4	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0340	6	62	20	14	36	●
	5			1536SU05-0340	6	66	28	23	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0340	6	62	20	14	36	●
	5			1536SU05C-0340	6	66	28	23	36	●
	3		Weldon shank/Codolo	1634SU03C-0340	6	62	20	14	36	●
	5			1636SU05C-0340	6	66	28	23	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0340	6	62	20	14	36	●
	5			1736SU05C-0340	6	66	28	23	36	●
8		1538SU08C-0340	6	72	34	29	36	●		
3.5	3	Esternoal Esterno	Straight shank	1534SU03-0350	6	62	20	14	36	●
	5			1536SU05-0350	6	66	28	23	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0350	6	62	20	14	36	●
	5			1536SU05C-0350	6	66	28	23	36	●
	3		Weldon shank/Codolo	1634SU03C-0350	6	62	20	14	36	●
	5			1636SU05C-0350	6	66	28	23	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0350	6	62	20	14	36	●
	5			1736SU05C-0350	6	66	28	23	36	●
8		1538SU08C-0350	6	72	34	29	36	●		

C

Solid Carbide drills
Punte in metallo duro integrale

Drilling - Foratura

Solid Carbide drills - Punta in metallo duro integrale

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
3.6	3	Esternoal Esterno	Straight shank	1534SU03-0360	6	62	20	14	36	●
	5			1536SU05-0360	6	66	28	23	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0360	6	62	20	14	36	●
	5			1536SU05C-0360	6	66	28	23	36	●
	3		Weldon shank/Codolo	1634SU03C-0360	6	62	20	14	36	●
	5			1636SU05C-0360	6	66	28	23	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0360	6	62	20	14	36	●
	5			1736SU05C-0360	6	66	28	23	36	●
8		1538SU08C-0360	6	72	34	29	36	●		
3.7	3	Esternoal Esterno	Straight shank	1534SU03-0370	6	62	20	14	36	●
	5			1536SU05-0370	6	66	28	23	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0370	6	62	20	14	36	●
	5			1536SU05C-0370	6	66	28	23	36	●
	3		Weldon shank/Codolo	1634SU03C-0370	6	62	20	14	36	●
	5			1636SU05C-0370	6	66	28	23	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0370	6	62	20	14	36	●
	5			1736SU05C-0370	6	66	28	23	36	●
8		1538SU08C-0370	6	72	34	29	36	●		
3.8	3	Esternoal Esterno	Straight shank	1534SU03-0380	6	66	24	17	36	●
	5			1536SU05-0380	6	74	36	29	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0380	6	66	24	17	36	●
	5			1536SU05C-0380	6	74	36	29	36	●
	3		Weldon shank/Codolo	1634SU03C-0380	6	66	24	17	36	●
	5			1636SU05C-0380	6	74	36	29	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0380	6	66	24	17	36	●
	5			1736SU05C-0380	6	74	36	29	36	●
8		1538SU08C-0380	6	81	43	36	36	●		
3.9	3	Esternoal Esterno	Straight shank	1534SU03-0390	6	66	24	17	36	●
	5			1536SU05-0390	6	74	36	29	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0390	6	66	24	17	36	●
	5			1536SU05C-0390	6	74	36	29	36	●
	3		Weldon shank/Codolo	1634SU03C-0390	6	66	24	17	36	●
	5			1636SU05C-0390	6	74	36	29	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0390	6	66	24	17	36	●
	5			1736SU05C-0390	6	74	36	29	36	●
8		1538SU08C-0390	6	81	43	36	36	●		
4.0	3	Esternoal Esterno	Straight shank	1534SU03-0400	6	66	24	17	36	●
	5			1536SU05-0400	6	74	36	29	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0400	6	66	24	17	36	●
	5			1536SU05C-0400	6	74	36	29	36	●

✓ = Very suitable · Molto consigliata
 ✓ = Suitable · Consigliata

Material Overview · Panoramica materiali

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punta in metallo duro integrale

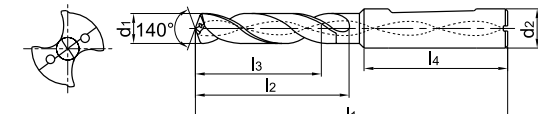
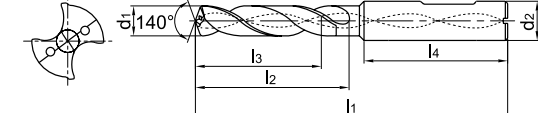
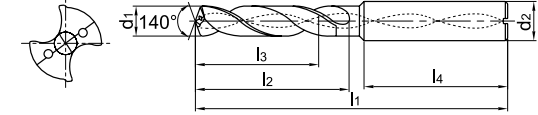
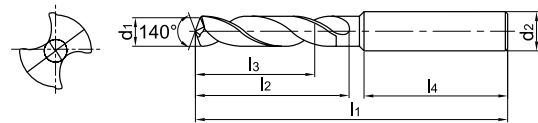
Drilling · Foratura

Solid Carbide drills · Punta in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄		
4.0	3	Internal Interno	Weldon shank/Codolo	1634SU03C-0400	6	66	24	17	36	●	
	5			1636SU05C-0400	6	74	36	29	36	●	
	3		Whistle notch shank/Codolo	1734SU03C-0400	6	66	24	17	36	●	
	5			1736SU05C-0400	6	74	36	29	36	●	
	8			1538SU08C-0400	6	81	43	36	36	●	
4.1	3	External Esterno	Straight shank	1534SU03-0410	6	66	24	17	36	●	
	5			1536SU05-0410	6	74	36	29	36	●	
	3		Codolo cilindrico	1534SU03C-0410	6	66	24	17	36	●	
	5			1536SU05C-0410	6	74	36	29	36	●	
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-0410	6	66	24	17	36	●	
	5			1636SU05C-0410	6	74	36	29	36	●	
	3		Whistle notch shank/Codolo	1734SU03C-0410	6	66	24	17	36	●	
	5			1736SU05C-0410	6	74	36	29	36	●	
	8			1538SU08C-0410	6	81	43	36	36	●	
	3			Straight shank	1534SU03-0420	6	66	24	17	36	●
5	1536SU05-0420	6	74		36	29	36	●			
4.2	3	External Esterno	Codolo cilindrico	1534SU03C-0420	6	66	24	17	36	●	
	5			1536SU05C-0420	6	74	36	29	36	●	
	3		Internal Interno	Weldon shank/Codolo	1634SU03C-0420	6	66	24	17	36	●
	5				1636SU05C-0420	6	74	36	29	36	●
	3	Whistle notch shank/Codolo		1734SU03C-0420	6	66	24	17	36	●	
	5			1736SU05C-0420	6	74	36	29	36	●	
	8			1538SU08C-0420	6	81	43	36	36	●	
	3			Straight shank	1534SU03-0430	6	66	24	17	36	●
	5	1536SU05-0430	6		74	36	29	36	●		
	4.3	3	External Esterno	Codolo cilindrico	1534SU03C-0430	6	66	24	17	36	●
5		1536SU05C-0430			6	74	36	29	36	●	
3		Internal Interno	Codolo cilindrico	1534SU03C-0430	6	66	24	17	36	●	
5				1536SU05C-0430	6	74	36	29	36	●	

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
4.3	3	Interno Interno	Weldon shank/ Codolo	1634SU03C-0430	6	66	24	17	36	●
	5			1636SU05C-0430	6	74	36	29	36	●
	3		Whistle notch shank/ Codolo	1734SU03C-0430	6	66	24	17	36	●
	5			1736SU05C-0430	6	74	36	29	36	●
	8			Cilindrico	1538SU08C-0430	6	81	43	36	36
4.4	3	Esternoal Esterno	Straight shank	1534SU03-0440	6	66	24	17	36	●
	5			1536SU05-0440	6	74	36	29	36	●
	3	Codolo cilindrico	1534SU03C-0440	6	66	24	17	36	●	
	5		1536SU05C-0440	6	74	36	29	36	●	
	3	Internoal Interno	Weldon shank/ Codolo	1634SU03C-0440	6	66	24	17	36	●
	5			1636SU05C-0440	6	74	36	29	36	●
	3		Whistle notch shank/ Codolo	1734SU03C-0440	6	66	24	17	36	●
	5			1736SU05C-0440	6	74	36	29	36	●
	8			Codolo	1538SU08C-0440	6	81	43	36	36
	4.5	3	Esternoal Esterno	Straight shank	1534SU03-0450	6	66	24	17	36
5		1536SU05-0450			6	74	36	29	36	●
3		Codolo cilindrico	1534SU03C-0450	6	66	24	17	36	●	
5			1536SU05C-0450	6	74	36	29	36	●	
3		Internoal Interno	Weldon shank/ Codolo	1634SU03C-0450	6	66	24	17	36	●
5				1636SU05C-0450	6	74	36	29	36	●
3			Whistle notch shank/ Codolo	1734SU03C-0450	6	66	24	17	36	●
5				1736SU05C-0450	6	74	36	29	36	●
8				Codolo	1538SU08C-0450	6	81	43	36	36
4.6		3	Esternoal Esterno	Straight shank	1534SU03-0460	6	66	24	17	36
	5	1536SU05-0460			6	74	36	29	36	●
	3	Codolo cilindrico	1534SU03C-0460	6	66	24	17	36	●	
	5		1536SU05C-0460	6	74	36	29	36	●	
	3	Internoal Interno	Weldon shank/ Codolo	1634SU03C-0460	6	66	24	17	36	●
	5			1636SU05C-0460	6	74	36	29	36	●
	3		Whistle notch shank/ Codolo	1734SU03C-0460	6	66	24	17	36	●
	5			1736SU05C-0460	6	74	36	29	36	●
	8			Codolo	1538SU08C-0460	6	81	43	36	36
	4.65	3	Esternoal Esterno	Straight shank	1534SU03-0465	6	66	24	17	36
5		1536SU05-0465			6	74	36	29	36	●
3		Codolo cilindrico	1534SU03C-0465	6	66	24	17	36	●	
5			1536SU05C-0465	6	74	36	29	36	●	
3		Internoal Interno	Weldon shank/ Codolo	1634SU03C-0465	6	66	24	17	36	○
5				1636SU05C-0465	6	74	36	29	36	●
3			Whistle notch shank/ Codolo	1734SU03C-0465	6	66	24	17	36	●
5				1736SU05C-0465	6	74	36	29	36	●

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Material Overview · Panoramica materiali

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
Punte in metallo duro integrale

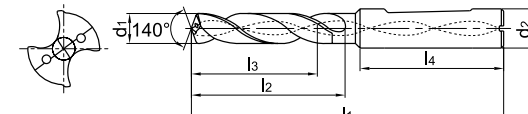
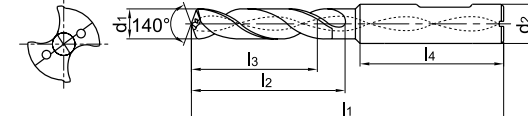
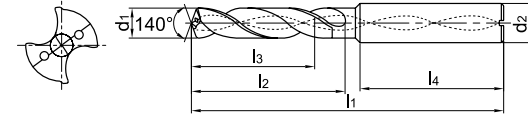
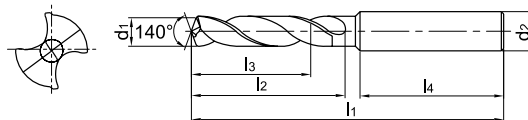
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
4.7	3	Esternoal Esterno	Straight shank	1534SU03-0470	6	66	24	17	36	●
	5			1536SU05-0470	6	74	36	29	36	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0470	6	66	24	17	36	●
	5			1536SU05C-0470	6	74	36	29	36	●
	3		Weldon shank/Codolo	1634SU03C-0470	6	66	24	17	36	●
	5			1636SU05C-0470	6	74	36	29	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0470	6	66	24	17	36	●
	5			1736SU05C-0470	6	74	36	29	36	●
8		1538SU08C-0470	6	81	43	36	36	●		
4.8	3	Esternoal Esterno	Straight shank	1534SU03-0480	6	66	28	20	36	●
	5			1536SU05-0480	6	82	44	35	36	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0480	6	66	28	20	36	●
	5			1536SU05C-0480	6	82	44	35	36	●
	3		Weldon shank/Codolo	1634SU03C-0480	6	66	28	20	36	●
	5			1636SU05C-0480	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0480	6	66	28	20	36	●
	5			1736SU05C-0480	6	82	44	35	36	●
8		1538SU08C-0480	6	95	57	48	36	●		
4.9	3	Esternoal Esterno	Straight shank	1534SU03-0490	6	66	28	20	36	●
	5			1536SU05-0490	6	82	44	35	36	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0490	6	66	28	20	36	●
	5			1536SU05C-0490	6	82	44	35	36	●
	3		Weldon shank/Codolo	1634SU03C-0490	6	66	28	20	36	●
	5			1636SU05C-0490	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0490	6	66	28	20	36	●
	5			1736SU05C-0490	6	82	44	35	36	●
	8		straight shank Codolo cilindrico	1538SU08C-0490	6	95	57	48	36	●

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
5.0	3	Esternoal Esterno	Straight shank	1534SU03-0500	6	66	28	20	36	●
	5			1536SU05-0500	6	82	44	35	36	●
	3	Codolo cilindrico		1534SU03C-0500	6	66	28	20	36	●
	5			1536SU05C-0500	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/ Codolo	1634SU03C-0500	6	66	28	20	36	●
	5			1636SU05C-0500	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0500	6	66	28	20	36	●
	5			1736SU05C-0500	6	82	44	35	36	●
8		1538SU08C-0500	6	95	57	48	36	●		
5.1	3	Esternoal Esterno	Straight shank	1534SU03-0510	6	66	28	20	36	●
	5			1536SU05-0510	6	82	44	35	36	●
	3	Codolo cilindrico		1534SU03C-0510	6	66	28	20	36	●
	5			1536SU05C-0510	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/ Codolo	1634SU03C-0510	6	66	28	20	36	●
	5			1636SU05C-0510	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0510	6	66	28	20	36	●
	5			1736SU05C-0510	6	82	44	35	36	●
8		1538SU08C-0510	6	95	57	48	36	●		
5.2	3	Esternoal Esterno	Straight shank	1534SU03-0520	6	66	28	20	36	●
	5			1536SU05-0520	6	82	44	35	36	●
	3	Codolo cilindrico		1534SU03C-0520	6	66	28	20	36	●
	5			1536SU05C-0520	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/ Codolo	1634SU03C-0520	6	66	28	20	36	●
	5			1636SU05C-0520	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0520	6	66	28	20	36	●
	5			1736SU05C-0520	6	82	44	35	36	●
8		1538SU08C-0520	6	95	57	48	36	●		
5.3	3	Esternoal Esterno	Straight shank	1534SU03-0530	6	66	28	20	36	●
	5			1536SU05-0530	6	82	44	35	36	●
	3	Codolo cilindrico		1534SU03C-0530	6	66	28	20	36	●
	5			1536SU05C-0530	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/ Codolo	1634SU03C-0530	6	66	28	20	36	●
	5			1636SU05C-0530	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0530	6	66	28	20	36	●
	5			1736SU05C-0530	6	82	44	35	36	●
8		straight shank Codolo cilindrico	1538SU08C-0530	6	95	57	48	36	●	



Solid Carbide drills
Punta in metallo duro integrale

Material Overview · Panoramica materiali

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			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

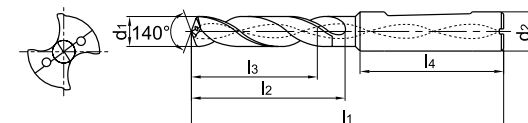
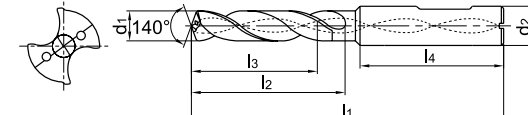
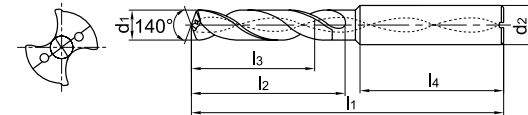
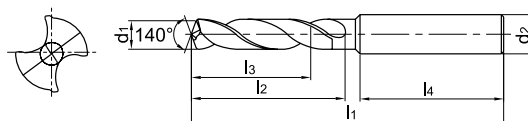
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄		
5.4	3	Esternoal Esterno	Straight shank	1534SU03-0540	6	66	28	20	36	●	
	5			1536SU05-0540	6	82	44	35	36	●	
	3	Internal Interno	Codolo cilindrico	1534SU03C-0540	6	66	28	20	36	●	
	5			1536SU05C-0540	6	82	44	35	36	●	
	3		Weldon shank/ Codolo	1634SU03C-0540	6	66	28	20	36	●	
	5			1636SU05C-0540	6	82	44	35	36	●	
	3		Whistle notch shank/Codolo	1734SU03C-0540	6	66	28	20	36	●	
	5			1736SU05C-0540	6	82	44	35	36	●	
8		1538SU08C-0540	6	95	57	48	36	●			
5.5	3	Esternoal Esterno	Straight shank	1534SU03-0550	6	66	28	20	36	●	
	5			1536SU05-0550	6	82	44	35	36	●	
	3	Internal Interno	Codolo cilindrico	1534SU03C-0550	6	66	28	20	36	●	
	5			1536SU05C-0550	6	82	44	35	36	●	
	3		Weldon shank/ Cilindrico	1634SU03C-0550	6	66	28	20	36	●	
	5			1636SU05C-0550	6	82	44	35	36	●	
	3		Whistle notch shank/Codolo	1734SU03C-0550	6	66	28	20	36	●	
	5			1736SU05C-0550	6	82	44	35	36	●	
8		1538SU08C-0550	6	95	57	48	36	●			
5.55	3	Esternoal Esterno	Straight shank	1534SU03-0555	6	66	28	20	36	●	
	5			1536SU05-0555	6	82	44	35	36	●	
	3	Internal Interno	Codolo cilindrico	1534SU03C-0555	6	66	28	20	36	●	
	5			1536SU05C-0555	6	82	44	35	36	●	
	3		Weldon shank/ Codolo	1634SU03C-0555	6	66	28	20	36	●	
	5			1636SU05C-0555	6	82	44	35	36	●	
	3		Whistle notch shank/Codolo	1734SU03C-0555	6	66	28	20	36	●	
	5			1736SU05C-0555	6	82	44	35	36	●	

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
5.6	3	Esternoal Esterno	Straight shank	1534SU03-0560	6	66	28	20	36	●
	5			1536SU05-0560	6	82	44	35	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0560	6	66	28	20	36	●
	5			1536SU05C-0560	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0560	6	66	28	20	36	●
	5			1636SU05C-0560	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0560	6	66	28	20	36	●
	5			1736SU05C-0560	6	82	44	35	36	●
8			1538SU08C-0560	6	95	57	48	36	●	
5.7	3	Esternoal Esterno	Straight shank	1534SU03-0570	6	66	28	20	36	●
	5			1536SU05-0570	6	82	44	35	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0570	6	66	28	20	36	●
	5			1536SU05C-0570	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0570	6	66	28	20	36	●
	5			1636SU05C-0570	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0570	6	66	28	20	36	●
	5			1736SU05C-0570	6	82	44	35	36	●
8			1538SU08C-0570	6	95	57	48	36	●	
5.8	3	Esternoal Esterno	Straight shank	1534SU03-0580	6	66	28	20	36	●
	5			1536SU05-0580	6	82	44	35	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0580	6	66	28	20	36	●
	5			1536SU05C-0580	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0580	6	66	28	20	36	●
	5			1636SU05C-0580	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0580	6	66	28	20	36	●
	5			1736SU05C-0580	6	82	44	35	36	●
8			1538SU08C-0580	6	95	57	48	36	●	
5.9	3	Esternoal Esterno	Straight shank	1534SU03-0590	6	66	28	20	36	●
	5			1536SU05-0590	6	82	44	35	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0590	6	66	28	20	36	●
	5			1536SU05C-0590	6	82	44	35	36	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0590	6	66	28	20	36	●
	5			1636SU05C-0590	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0590	6	66	28	20	36	●
	5			1736SU05C-0590	6	82	44	35	36	●
8			1538SU08C-0590	6	95	57	48	36	●	

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

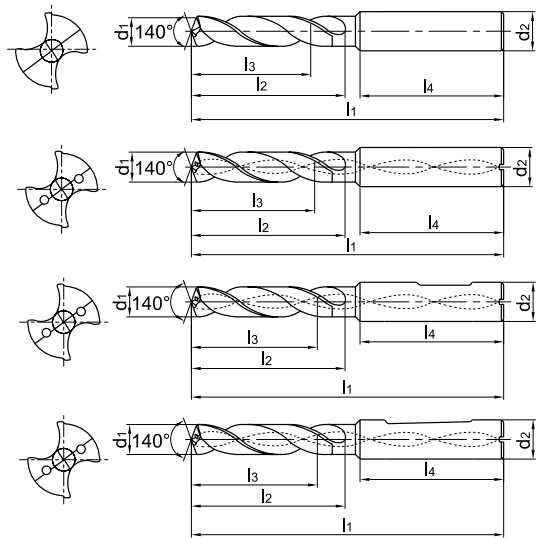
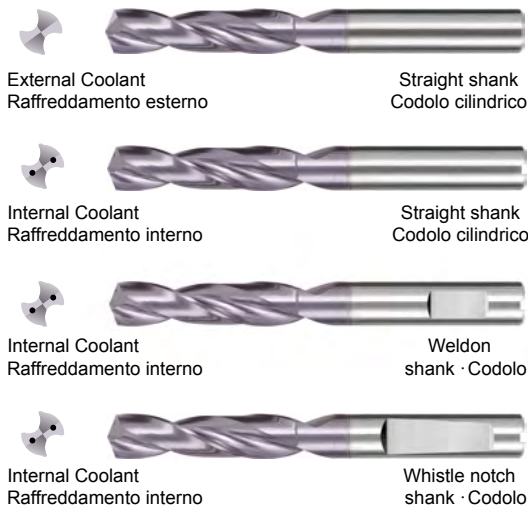
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
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- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
6.0	3	Esternoal Esterno	Straight shank	1534SU03-0600	6	66	28	20	36	●
	5			1536SU05-0600	6	82	44	35	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0600	6	66	28	20	36	●
	5			1536SU05C-0600	6	82	44	35	36	●
	3		Weldon shank/Codolo	1634SU03C-0600	6	66	28	20	36	●
	5			1636SU05C-0600	6	82	44	35	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0600	6	66	28	20	36	●
	5			1736SU05C-0600	6	82	44	35	36	●
8		1538SU08C-0600	6	95	57	48	36	●		
6.1	3	Esternoal Esterno	Straight shank	1534SU03-0610	8	79	34	24	36	●
	5			1536SU05-0610	8	91	53	43	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0610	8	79	34	24	36	●
	5			1536SU05C-0610	8	91	53	43	36	●
	3		Weldon shank/Codolo	1634SU03C-0610	8	79	34	24	36	●
	5			1636SU05C-0610	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0610	8	79	34	24	36	●
	5			1736SU05C-0610	8	91	53	43	36	●
8		1538SU08C-0610	8	114	76	66	36	●		
6.2	3	Esternoal Esterno	Straight shank	1534SU03-0620	8	79	34	24	36	●
	5			1536SU05-0620	8	91	53	43	36	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0620	8	79	34	24	36	●
	5			1536SU05C-0620	8	91	53	43	36	●
	3		Weldon shank/Codolo	1634SU03C-0620	8	79	34	24	36	●
	5			1636SU05C-0620	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0620	8	79	34	24	36	●
	5			1736SU05C-0620	8	91	53	43	36	●
8		1538SU08C-0620	8	114	76	66	36	●		



Solid Carbide drills
Punte in metallo duro integrale

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
6.3	3	Esternoal Esterno	Straight shank	1534SU03-0630	8	79	34	24	36	●
	5			1536SU05-0630	8	91	53	43	36	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-0630	8	79	34	24	36	●
	5			1536SU05C-0630	8	91	53	43	36	●
	3	Internooal Interno	Whistle notch shank/ Codolo	1634SU03C-0630	8	79	34	24	36	●
	5			1636SU05C-0630	8	91	53	43	36	●
	3		1734SU03C-0630	1734SU03C-0630	8	79	34	24	36	●
	5			1736SU05C-0630	8	91	53	43	36	●
8	1538SU08C-0630	8	114	76	66	36	●			
6.4	3	Esternoal Esterno	Straight shank	1534SU03-0640	8	79	34	24	36	●
	5			1536SU05-0640	8	91	53	43	36	●
	3	Codolo cilindrico	Weldon shank/ Codolo	1534SU03C-0640	8	79	34	24	36	●
	5			1536SU05C-0640	8	91	53	43	36	●
	3	Internooal Interno	Whistle notch shank/ Codolo	1634SU03C-0640	8	79	34	24	36	●
	5			1636SU05C-0640	8	91	53	43	36	●
	3		1734SU03C-0640	1734SU03C-0640	8	79	34	24	36	●
	5			1736SU05C-0640	8	91	53	43	36	●
8	1538SU08C-0640	8	114	76	66	36	●			
6.5	3	Esternoal Esterno	Straight shank	1534SU03-0650	8	79	34	24	36	●
	5			1536SU05-0650	8	91	53	43	36	●
	3	Codolo cilindrico	Weldon shank/ Codolo	1534SU03C-0650	8	79	34	24	36	●
	5			1536SU05C-0650	8	91	53	43	36	●
	3	Internooal Interno	Whistle notch shank/ Codolo	1634SU03C-0650	8	79	34	24	36	●
	5			1636SU05C-0650	8	91	53	43	36	●
	3		1734SU03C-0650	1734SU03C-0650	8	79	34	24	36	●
	5			1736SU05C-0650	8	91	53	43	36	●
8	1538SU08C-0650	8	114	76	66	36	●			
6.6	3	Esternoal Esterno	Straight shank	1534SU03-0660	8	79	34	24	36	●
	5			1536SU05-0660	8	91	53	43	36	●
	3	Codolo cilindrico	Weldon shank/ Codolo	1534SU03C-0660	8	79	34	24	36	●
	5			1536SU05C-0660	8	91	53	43	36	●
	3	Internooal Interno	Whistle notch shank/ Codolo	1634SU03C-0660	8	79	34	24	36	●
	3			1636SU05C-0660	8	91	53	43	36	●
	5		1734SU03C-0660	1734SU03C-0660	8	79	34	24	36	●
	5			1736SU05C-0660	8	91	53	43	36	●
8	1538SU08C-0660	8	114	76	66	36	●			

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

Solid Carbide drills
Punta in metallo duro integrale

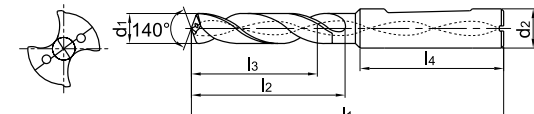
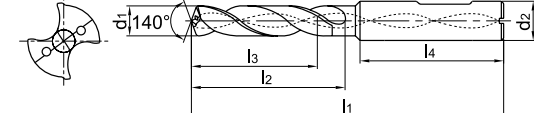
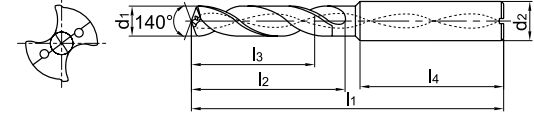
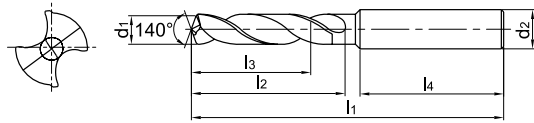
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
6.7	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0670	8	79	34	24	36	●
	5			1536SU05-0670	8	91	53	43	36	●
	3	Internoal Interno	Weldon shank/Codolo	1534SU03C-0670	8	79	34	24	36	●
	5			1536SU05C-0670	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1634SU03C-0670	8	79	34	24	36	●
	5			1636SU05C-0670	8	91	53	43	36	●
	3			1734SU03C-0670	8	79	34	24	36	●
	5			1736SU05C-0670	8	91	53	43	36	●
8	1538SU08C-0670	8	114	76	66	36	●			
6.75	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0675	8	79	34	24	36	●
	5			1536SU05-0675	8	91	53	43	36	●
	3	Internoal Interno	Weldon shank/Codolo	1534SU03C-0675	8	79	34	24	36	●
	5			1536SU05C-0675	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1634SU03C-0675	8	79	34	24	36	○
	5			1636SU05C-0675	8	91	53	43	36	●
	3			1734SU03C-0675	8	79	34	24	36	●
	5			1736SU05C-0675	8	91	53	43	36	○
6.8	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0680	8	79	34	24	36	●
	5			1536SU05-0680	8	91	53	43	36	●
	3	Internoal Interno	Weldon shank/Codolo	1534SU03C-0680	8	79	34	24	36	●
	5			1536SU05C-0680	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1634SU03C-0680	8	79	34	24	36	●
	5			1636SU05C-0680	8	91	53	43	36	●
	3			1734SU03C-0680	8	79	34	24	36	●
	5			1736SU05C-0680	8	91	53	43	36	●
8	1538SU08C-0680	8	114	76	66	36	●			

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
6.9	3	Esternoal Esterno	Straight shank	1534SU03-0690	8	79	34	24	36	●
	5			1536SU05-0690	8	91	53	43	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0690	8	79	34	24	36	●
	5			1536SU05C-0690	8	91	53	43	36	●
	3	Internooal Interno	Weldon shank/Codolo	1634SU03C-0690	8	79	34	24	36	●
	5			1636SU05C-0690	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0690	8	79	34	24	36	●
	5			1736SU05C-0690	8	91	53	43	36	●
8			1538SU08C-0690	8	114	76	66	36	●	
7.0	3	Esternoal Esterno	Straight shank	1534SU03-0700	8	79	34	24	36	●
	5			1536SU05-0700	8	91	53	43	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0700	8	79	34	24	36	●
	5			1536SU05C-0700	8	91	53	43	36	●
	3	Internooal Interno	Weldon shank/Codolo	1634SU03C-0700	8	79	34	24	36	●
	5			1636SU05C-0700	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0700	8	79	34	24	36	●
	5			1736SU05C-0700	8	91	53	43	36	●
8			1538SU08C-0700	8	116	76	66	36	●	
7.1	3	Esternoal Esterno	Straight shank	1534SU03-0710	8	79	41	29	36	●
	5			1536SU05-0710	8	91	53	43	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0710	8	79	41	29	36	●
	5			1536SU05C-0710	8	91	53	43	36	●
	3	Internooal Interno	Weldon shank/Codolo	1634SU03C-0710	8	79	41	29	36	●
	5			1636SU05C-0710	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0710	8	79	41	29	36	●
	5			1736SU05C-0710	8	91	53	43	36	●
8			1538SU08C-0710	8	116	76	66	36	●	
7.2	3	Esternoal Esterno	Straight shank	1534SU03-0720	8	79	41	29	36	●
	5			1536SU05-0720	8	91	53	43	36	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0720	8	79	41	29	36	●
	5			1536SU05C-0720	8	91	53	43	36	●
	3	Internooal Interno	Weldon shank/Codolo	1634SU03C-0720	8	79	41	29	36	●
	5			1636SU05C-0720	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0720	8	79	41	29	36	●
	5			1736SU05C-0720	8	91	53	43	36	●
8			1538SU08C-0720	8	116	76	66	36	●	

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

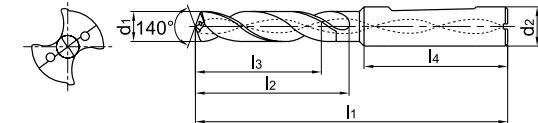
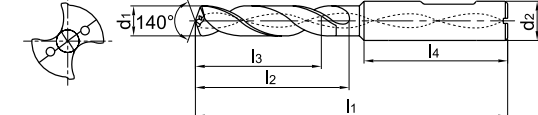
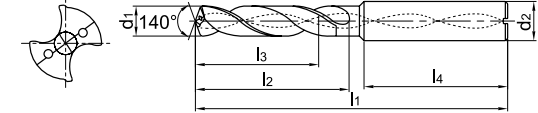
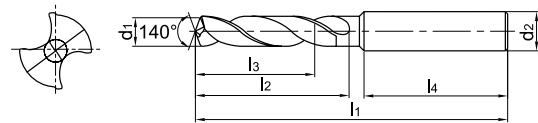
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
7.3	3	Esternoal Esterno	Straight shank	1534SU03-0730	8	79	41	29	36	●
	5			1536SU05-0730	8	91	53	43	36	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0730	8	79	41	29	36	●
	5			1536SU05C-0730	8	91	53	43	36	●
	3		Weldon shank/Codolo	1634SU03C-0730	8	79	41	29	36	●
	5			1636SU05C-0730	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0730	8	79	41	29	36	●
	5			1736SU05C-0730	8	91	53	43	36	●
8		1538SU08C-0730	8	116	76	66	36	●		
7.4	3	Esternoal Esterno	Straight shank	1534SU03-0740	8	79	41	29	36	●
	5			1536SU05-0740	8	91	53	43	36	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0740	8	79	41	29	36	●
	5			1536SU05C-0740	8	91	53	43	36	●
	3		Weldon shank/Codolo	1634SU03C-0740	8	79	41	29	36	●
	5			1636SU05C-0740	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0740	8	79	41	29	36	●
	5			1736SU05C-0740	8	91	53	43	36	●
8		1538SU08C-0740	8	116	76	66	36	●		
7.45	3	Esternoal Esterno	Straight shank	1534SU03-0745	8	79	41	29	36	○
	5			1536SU05-0745	8	91	53	43	36	○
	3	Internal Interno	Codolo cilindrico	1534SU03C-0745	8	79	41	29	36	○
	5			1536SU05C-0745	8	91	53	43	36	○
	3		Weldon shank/Codolo	1634SU03C-0745	8	79	41	29	36	○
	5			1636SU05C-0745	8	91	53	43	36	○
	3		Whistle notch shank/Codolo	1734SU03C-0745	8	79	41	29	36	○
	5			1736SU05C-0745	8	91	53	43	36	○
7.5	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0750	8	79	41	29	36	●
	5			1536SU05-0750	8	91	53	43	36	●

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
7.5	3	Interno Interno	Straight shank Codolo cilindrico	1534SU03C-0750	8	79	41	29	36	●
	5			1536SU05C-0750	8	91	53	43	36	●
	3		Weldon shank/Codolo	1634SU03C-0750	8	79	41	29	36	●
	5			1636SU05C-0750	8	91	53	43	36	●
	3		Whistle notch shank/Codolo	1734SU03C-0750	8	79	41	29	36	●
	5			1736SU05C-0750	8	91	53	43	36	●
	8			1538SU08C-0750	8	116	76	66	36	●
	7.6		3	Esterno Esterno	Straight shank	1534SU03-0760	8	79	41	29
5		1536SU05-0760	8			91	53	43	36	●
3		Codolo cilindrico	1534SU03C-0760	8	79	41	29	36	●	
5			1536SU05C-0760	8	91	53	43	36	●	
3		Interno Interno	Weldon shank/Codolo	1634SU03C-0760	8	79	41	29	36	●
5				1636SU05C-0760	8	91	53	43	36	●
3		Whistle notch shank/Codolo	1734SU03C-0760	8	79	41	29	36	●	
5			1736SU05C-0760	8	91	53	43	36	●	
8		1538SU08C-0760	8	116	76	66	36	●		
7.7	3	Esterno Esterno	Straight shank Codolo cilindrico	1534SU03-0770	8	79	41	29	36	●
	5			1536SU05-0770	8	91	53	43	36	●
	3	Codolo cilindrico	1534SU03C-0770	8	79	41	29	36	●	
	5		1536SU05C-0770	8	91	53	43	36	●	
	3	Interno Interno	Weldon shank/Codolo	1634SU03C-0770	8	79	41	29	36	●
	5			1636SU05C-0770	8	91	53	43	36	●
	3	Whistle notch shank/Codolo	1734SU03C-0770	8	79	41	29	36	●	
	5		1736SU05C-0770	8	91	53	43	36	●	
8		1538SU08C-0770	8	116	76	66	36	●		
7.8	3	Esterno Esterno	Straight shank Codolo cilindrico	1534SU03-0780	8	79	41	29	36	●
	5			1536SU05-0780	8	91	53	43	36	●
	3	Codolo cilindrico	1534SU03C-0780	8	79	41	29	36	●	
	5		1536SU05C-0780	8	91	53	43	36	●	
	3	Interno Interno	Weldon shank/Codolo	1634SU03C-0780	8	79	41	29	36	●
	5			1636SU05C-0780	8	91	53	43	36	●
	3	Whistle notch shank/Codolo	1734SU03C-0780	8	79	41	29	36	●	
	5		1736SU05C-0780	8	91	53	43	36	●	
8		1538SU08C-0780	8	116	76	66	36	●		
7.9	3	Esterno Esterno	Straight shank	1534SU03-0790	8	79	41	29	36	●
	5			1536SU05-0790	8	91	53	43	36	●
	3	Codolo cilindrico	1534SU03C-0790	8	79	41	29	36	●	
	5		1536SU05C-0790	8	91	53	43	36	●	
	3	Interno Interno	Weldon shank/Codolo	1634SU03C-0790	8	79	41	29	36	●
	5			1636SU05C-0790	8	91	53	43	36	●

✓ = Very suitable · Molto consigliata
 ✓ = Suitable · Consigliata

Material Overview · Panoramica materiali

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

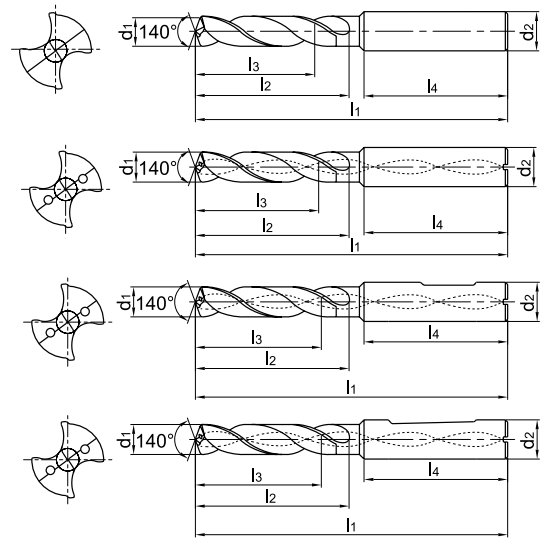
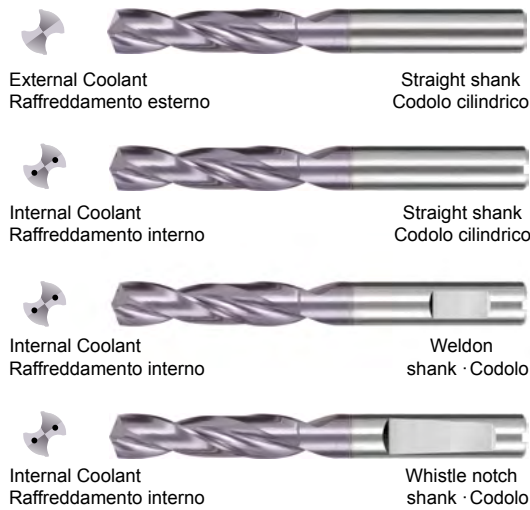
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄		
7.9	3	Internal Interno	Whistle notch shank/Codolo	1734SU03C-0790	8	79	41	29	36	●	
	5			1736SU05C-0790	8	91	53	43	36	●	
	8			1538SU08C-0790	8	116	76	66	36	●	
8.0	3	External Esterno	Straight shank Codolo cilindrico	1534SU03-0800	8	79	41	29	36	●	
	5			1536SU05-0800	8	91	53	43	36	●	
	3			1534SU03C-0800	8	79	41	29	36	●	
	5	1536SU05C-0800	8	91	53	43	36	●			
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-0800	8	79	41	29	36	●	
	5			1636SU05C-0800	8	91	53	43	36	●	
	3			1734SU03C-0800	8	79	41	29	36	●	
	5	1736SU05C-0800	8	91	53	43	36	●			
	8	1538SU08C-0800	8	116	76	66	36	●			
8.1	3	External Esterno	Straight shank Codolo cilindrico	1534SU03-0810	10	89	47	35	40	●	
	5			1536SU05-0810	10	103	61	49	40	●	
	3			1534SU03C-0810	10	89	47	35	40	●	
	5	1536SU05C-0810	10	103	61	49	40	●			
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-0810	10	89	47	35	40	●	
	5			1636SU05C-0810	10	103	61	49	40	●	
	3			1734SU03C-0810	10	89	47	35	40	●	
	5	1736SU05C-0810	10	103	61	49	40	●			
	8	1538SU08C-0810	10	142	95	83	40	●			
	8.2	3	External Esterno	Straight shank Codolo cilindrico	1534SU03-0820	10	89	47	35	40	●
		5			1536SU05-0820	10	103	61	49	40	●
		3			1534SU03C-0820	10	89	47	35	40	●
5		1536SU05C-0820	10	103	61	49	40	●			
3		Internal Interno	Weldon shank/Codolo	1634SU03C-0820	10	89	47	35	40	●	
5				1636SU05C-0820	10	103	61	49	40	●	

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303	
8.2	3	Interno Interno	Whistle notch shank/ Cilindrico	1734SU03C-0820	10	89	47	35	40	●	
	5			1736SU05C-0820	10	103	61	49	40	●	
	8			1538SU08C-0820	10	142	95	83	40	●	
8.3	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0830	10	89	47	35	40	●	
	5			1536SU05-0830	10	103	61	49	40	●	
	3			1534SU03C-0830	10	89	47	35	40	●	
	5			1536SU05C-0830	10	103	61	49	40	●	
	3	Internoal Interno	Weldon shank/ Cilindrico	1634SU03C-0830	10	89	47	35	40	●	
	5			1636SU05C-0830	10	103	61	49	40	●	
	3			1734SU03C-0830	10	89	47	35	40	●	
	5			1736SU05C-0830	10	103	61	49	40	●	
	3	Internoal Interno	Whistle notch shank/ Cilindrico	1538SU08C-0830	10	142	95	83	40	●	
	5			1534SU03-0840	10	89	47	35	40	●	
	3			1536SU05-0840	10	103	61	49	40	●	
	5			1534SU03C-0840	10	89	47	35	40	●	
8.4	3	Esternoal Esterno	Straight shank Codolo cilindrico	1536SU05C-0840	10	103	61	49	40	●	
	5			1534SU03-0840	10	89	47	35	40	●	
	3			1536SU05C-0840	10	103	61	49	40	●	
	5			1634SU03C-0840	10	89	47	35	40	●	
	3	Internoal Interno	Weldon shank/ Cilindrico	1636SU05C-0840	10	103	61	49	40	●	
	5			1734SU03C-0840	10	89	47	35	40	●	
	3			1736SU05C-0840	10	103	61	49	40	●	
	5			1538SU08C-0840	10	142	95	83	40	●	
	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0850	10	89	47	35	40	●	
	5			1536SU05-0850	10	103	61	49	40	●	
	3			1534SU03C-0850	10	89	47	35	40	●	
	5			1536SU05C-0850	10	103	61	49	40	●	
8.5	3	Internoal Interno	Weldon shank/ Cilindrico	1634SU03C-0850	10	89	47	35	40	●	
	5			1636SU05C-0850	10	103	61	49	40	●	
	3			1734SU03C-0850	10	89	47	35	40	●	
	5			1736SU05C-0850	10	103	61	49	40	●	
	3	Esternoal Esterno	Whistle notch shank/ Cilindrico	1538SU08C-0850	10	142	95	83	40	●	
	5			1534SU03-0860	10	89	47	35	40	●	
	3			1536SU05-0860	10	103	61	49	40	●	
	5			1534SU03C-0860	10	89	47	35	40	●	
	8.6	3	Internoal Interno	Weldon shank/Codolo	1536SU05C-0860	10	103	61	49	40	●
		5			1634SU03C-0860	10	89	47	35	40	●
		3			1636SU05C-0860	10	103	61	49	40	●
		5			1734SU03C-0860	10	89	47	35	40	●
3		Esternoal Esterno	Whistle notch shank/Codolo	1736SU05C-0860	10	103	61	49	40	●	
5				1538SU08C-0860	10	142	95	83	40	●	
3				1534SU03-0860	10	89	47	35	40	●	
5				1536SU05-0860	10	103	61	49	40	●	
8		Esternoal Esterno	straight shank Codolo cilindrico	1538SU08C-0860	10	142	95	83	40	●	

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

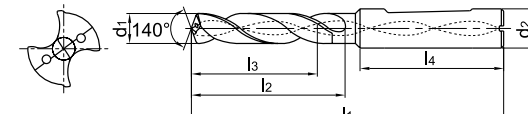
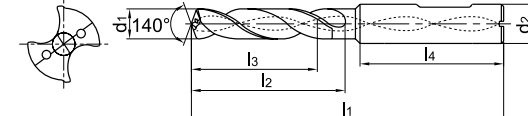
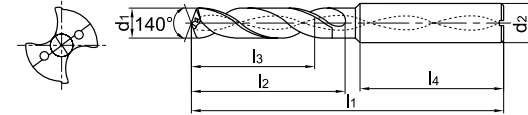
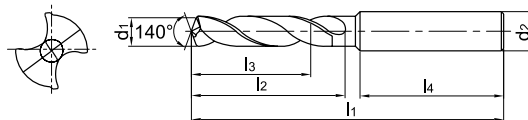
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

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General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
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- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
8.7	3	Esternoal Esterno	Straight shank	1534SU03-0870	10	89	47	35	40	●
	5			1536SU05-0870	10	103	61	49	40	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0870	10	89	47	35	40	●
	5			1536SU05C-0870	10	103	61	49	40	●
	3		Weldon shank/Codolo	1634SU03C-0870	10	89	47	35	40	●
	5			1636SU05C-0870	10	103	61	49	40	●
	3		Whistle notch shank/Codolo	1734SU03C-0870	10	89	47	35	40	●
	5			1736SU05C-0870	10	103	61	49	40	●
8		1538SU08C-0870	10	142	95	83	40	●		
8.8	3	Esternoal Esterno	Straight shank	1534SU03-0880	10	89	47	35	40	●
	5			1536SU05-0880	10	103	61	49	40	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0880	10	89	47	35	40	●
	5			1536SU05C-0880	10	103	61	49	40	●
	3		Weldon shank/Codolo	1634SU03C-0880	10	89	47	35	40	●
	5			1636SU05C-0880	10	103	61	49	40	●
	3		Whistle notch shank/Codolo	1734SU03C-0880	10	89	47	35	40	●
	5			1736SU05C-0880	10	103	61	49	40	●
8		1538SU08C-0880	10	142	95	83	40	●		
8.9	3	Esternoal Esterno	Straight shank	1534SU03-0890	10	89	47	35	40	●
	5			1536SU05-0890	10	103	61	49	40	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-0890	10	89	47	35	40	●
	5			1536SU05C-0890	10	103	61	49	40	●
	3		Weldon shank/Codolo	1634SU03C-0890	10	89	47	35	40	●
	5			1636SU05C-0890	10	103	61	49	40	●
	3		Whistle notch shank/Codolo	1734SU03C-0890	10	89	47	35	40	●
	5			1736SU05C-0890	10	103	61	49	40	●
8		1538SU08C-0890	10	142	95	83	40	●		

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
9.0	3	Esternoal Esterno	Straight shank	1534SU03-0900	10	89	47	35	40	●
	5			1536SU05-0900	10	103	61	49	40	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0900	10	89	47	35	40	●
	5			1536SU05C-0900	10	103	61	49	40	●
	3	Internoal Interno	Weldon shank/ Cilindrico	1634SU03C-0900	10	89	47	35	40	●
	5			1636SU05C-0900	10	103	61	49	40	●
	3		Whistle notch shank/ Cilindrico	1734SU03C-0900	10	89	47	35	40	●
	5			1736SU05C-0900	10	103	61	49	40	●
8		1538SU08C-0900	10	142	95	83	40	●		
9.1	3	Esternoal Esterno	Straight shank	1534SU03-0910	10	89	47	35	40	●
	5			1536SU05-0910	10	103	61	49	40	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0910	10	89	47	35	40	●
	5			1536SU05C-0910	10	103	61	49	40	●
	3	Internoal Interno	Weldon shank/ Cilindrico	1634SU03C-0910	10	89	47	35	40	●
	5			1636SU05C-0910	10	103	61	49	40	●
	3		Whistle notch shank/ Cilindrico	1734SU03C-0910	10	89	47	35	40	●
	5			1736SU05C-0910	10	103	61	49	40	●
8		1538SU08C-0910	10	142	95	83	40	●		
9.2	3	Esternoal Esterno	Straight shank	1534SU03-0920	10	89	47	35	40	●
	5			1536SU05-0920	10	103	61	49	40	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0920	10	89	47	35	40	●
	5			1536SU05C-0920	10	103	61	49	40	●
	3	Internoal Interno	Weldon shank/ Cilindrico	1634SU03C-0920	10	89	47	35	40	●
	5			1636SU05C-0920	10	103	61	49	40	●
	3		Whistle notch shank/ Cilindrico	1734SU03C-0920	10	89	47	35	40	●
	5			1736SU05C-0920	10	103	61	49	40	●
8		1538SU08C-0920	10	142	95	83	40	●		
9.3	3	Esternoal Esterno	Straight shank	1534SU03-0930	10	89	47	35	40	●
	5			1536SU05-0930	10	103	61	49	40	●
	3	Esternoal Esterno	Codolo cilindrico	1534SU03C-0930	10	89	47	35	40	●
	5			1536SU05C-0930	10	103	61	49	40	●
	3	Internoal Interno	Weldon shank/ Cilindrico	1634SU03C-0930	10	89	47	35	40	●
	5			1636SU05C-0930	10	103	61	49	40	●
	3		Whistle notch shank/ Cilindrico	1734SU03C-0930	10	89	47	35	40	●
	5			1736SU05C-0930	10	103	61	49	40	●
8		1538SU08C-0930	10	142	95	83	40	●		
9.35	3	Esternoal Esterno	Straight shank	1534SU03-0935	10	89	47	35	40	○
	5			1536SU05-0935	10	103	61	49	40	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-0935	10	89	47	35	40	○
	5			1536SU05C-0935	10	103	61	49	40	○

✓ = Very suitable · Molto consigliata
 ✓ = Suitable · Consigliata

Material Overview · Panoramica materiali

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

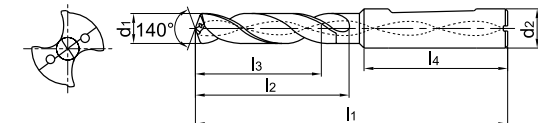
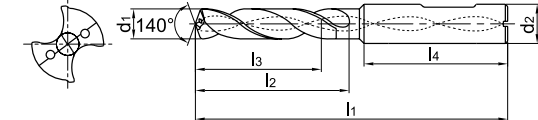
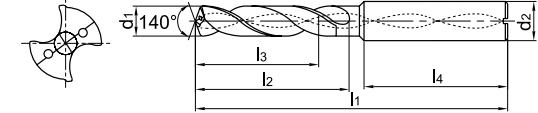
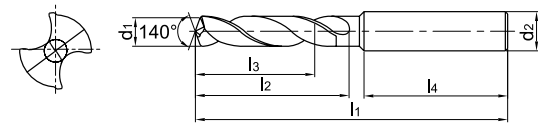
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
9.35	3	Internal Interno	Weldon shank/Codolo	1634SU03C-0935	10	89	47	35	40	○
	5			1636SU05C-0935	10	103	61	49	40	○
	3		Whistle notch shank/Codolo	1734SU03C-0935	10	89	47	35	40	○
	5			1736SU05C-0935	10	103	61	49	40	○
9.4	3	External Esterno	Straight shank	1534SU03-0940	10	89	47	35	40	●
	5			1536SU05-0940	10	103	61	49	40	●
	3		Codolo cilindrico	1534SU03C-0940	10	89	47	35	40	●
	5			1536SU05C-0940	10	103	61	49	40	●
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-0940	10	89	47	35	40	●
	5			1636SU05C-0940	10	103	61	49	40	●
	3		Whistle notch shank/Codolo	1734SU03C-0940	10	89	47	35	40	●
	5			1736SU05C-0940	10	103	61	49	40	●
8			1538SU08C-0940	10	142	95	83	40	●	
9.45	3	External Esterno	Straight shank	1534SU03-0945	10	89	47	35	40	○
	5			1536SU05-0945	10	103	61	49	40	●
	3		Codolo cilindrico	1534SU03C-0945	10	89	47	35	40	○
	5			1536SU05C-0945	10	103	61	49	40	○
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-0945	10	89	47	35	40	○
	5			1636SU05C-0945	10	103	61	49	40	○
	3		Whistle notch shank/Codolo	1734SU03C-0945	10	89	47	35	40	○
	5			1736SU05C-0945	10	103	61	49	40	○
9.5	3	External Esterno	Straight shank	1534SU03-0950	10	89	47	35	40	●
	5			1536SU05-0950	10	103	61	49	40	●
	3		Codolo cilindrico	1534SU03C-0950	10	89	47	35	40	●
	5	1536SU05C-0950		10	103	61	49	40	●	
	3	Internal Interno		Weldon shank/Codolo	1634SU03C-0950	10	89	47	35	40
	5		1636SU05C-0950		10	103	61	49	40	●

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
9.5	3	Internoal Interno	Whistle notch shank/Codolo	1734SU03C-0950	10	89	47	35	40	●
	5			1736SU05C-0950	10	103	61	49	40	●
	8			1538SU08C-0950	10	142	95	83	40	●
9.6	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0960	10	89	47	35	40	●
	5			1536SU05-0960	10	103	61	49	40	●
	3			1534SU03C-0960	10	89	47	35	40	●
	5	1536SU05C-0960	10	103	61	49	40	●		
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0960	10	89	47	35	40	●
	5			1636SU05C-0960	10	103	61	49	40	●
	3			1734SU03C-0960	10	89	47	35	40	●
	5	1736SU05C-0960	10	103	61	49	40	●		
	8	1538SU08C-0960	10	142	95	83	40	●		
9.7	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0970	10	89	47	35	40	●
	5			1536SU05-0970	10	103	61	49	40	●
	3			1534SU03C-0970	10	89	47	35	40	●
	5	1536SU05C-0970	10	103	61	49	40	●		
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0970	10	89	47	35	40	●
	5			1636SU05C-0970	10	103	61	49	40	●
	3			1734SU03C-0970	10	89	47	35	40	●
	5	1736SU05C-0970	10	103	61	49	40	●		
	8	1538SU08C-0970	10	142	95	83	40	●		
9.8	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0980	10	89	47	35	40	●
	5			1536SU05-0980	10	103	61	49	40	●
	3			1534SU03C-0980	10	89	47	35	40	●
	5	1536SU05C-0980	10	103	61	49	40	●		
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0980	10	89	47	35	40	●
	5			1636SU05C-0980	10	103	61	49	40	●
	3			1734SU03C-0980	10	89	47	35	40	●
	5	1736SU05C-0980	10	103	61	49	40	●		
	8	1538SU08C-0980	10	142	95	83	40	●		
9.9	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-0990	10	89	47	35	40	●
	5			1536SU05-0990	10	103	61	49	40	●
	3			1534SU03C-0990	10	89	47	35	40	●
	5	1536SU05C-0990	10	103	61	49	40	●		
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-0990	10	89	47	35	40	●
	5			1636SU05C-0990	10	103	61	49	40	●
	3			1734SU03C-0990	10	89	47	35	40	●
	5	1736SU05C-0990	10	103	61	49	40	●		
	8	1538SU08C-0990	10	142	95	83	40	●		

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

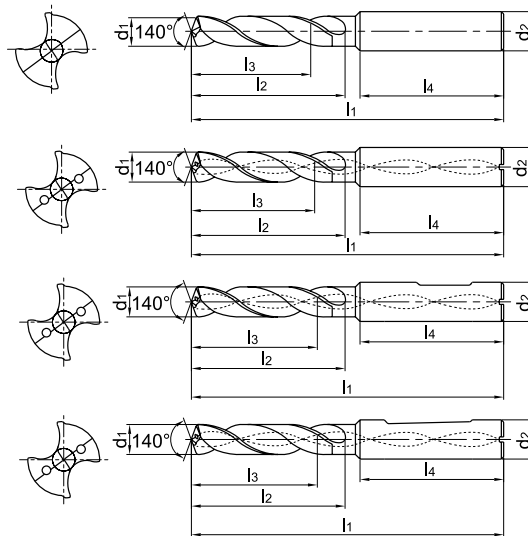
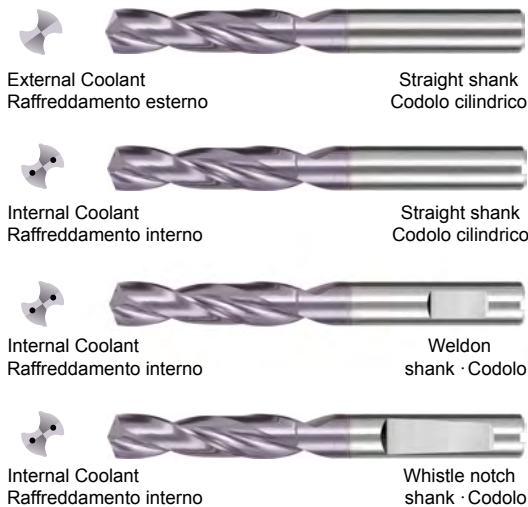
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄		
10.0	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1000	10	89	47	35	40	●	
	5			1536SU05-1000	10	103	61	49	40	●	
	3	Internal Interno	Weldon shank/Codolo	1534SU03C-1000	10	89	47	35	40	●	
	5			1536SU05C-1000	10	103	61	49	40	●	
	3		Whistle notch shank/Codolo	1634SU03C-1000	10	89	47	35	40	●	
	5			1636SU05C-1000	10	103	61	49	40	●	
	3			1734SU03C-1000	10	89	47	35	40	●	
	5			1736SU05C-1000	10	103	61	49	40	●	
8	1538SU08C-1000	10	142	95	83	40	●				
10.1	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1010	12	102	55	40	45	●	
	5			1536SU05-1010	12	118	71	56	45	●	
	3	Internal Interno	Weldon shank/Codolo	1534SU03C-1010	12	102	55	40	45	●	
	5			1536SU05C-1010	12	118	71	56	45	●	
	3		Whistle notch shank/Codolo	1634SU03C-1010	12	102	55	40	45	●	
	5			1636SU05C-1010	12	118	71	56	45	●	
	3			1734SU03C-1010	12	102	55	40	45	●	
	5			1736SU05C-1010	12	118	71	56	45	●	
8	1538SU08C-1010	12	162	114	99	45	●				
10.2	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1020	12	102	55	40	45	●	
	5			1536SU05-1020	12	118	71	56	45	●	
	3	Internal Interno	Weldon shank/Codolo	1534SU03C-1020	12	102	55	40	45	●	
	5			1536SU05C-1020	12	118	71	56	45	●	
	3		Whistle notch shank/Codolo	1634SU03C-1020	12	102	55	40	45	●	
	5			1636SU05C-1020	12	118	71	56	45	●	
	3			1734SU03C-1020	12	102	55	40	45	●	
	5			1736SU05C-1020	12	118	71	56	45	●	
8	1538SU08C-1020	12	162	114	99	45	●				

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h ₆)	l ₁	l ₂	l ₃	l ₄	KDG303
10.25	3	Esternoal Esterno	Straight shank	1534SU03-1025	12	102	55	40	45	●
	5			1536SU05-1025	12	118	71	56	45	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1025	12	102	55	40	45	●
	5			1536SU05C-1025	12	118	71	56	45	●
	3	Internoal Interno	Whistle notch shank/Codolo	1634SU03C-1025	12	102	55	40	45	●
	5			1636SU05C-1025	12	118	71	56	45	●
	3	Esternoal Esterno	Straight shank	1734SU03C-1025	12	102	55	40	45	●
	5			1736SU05C-1025	12	118	71	56	45	●
10.3	3	Esternoal Esterno	Straight shank	1534SU03-1030	12	102	55	40	45	●
	5			1536SU05-1030	12	118	71	56	45	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1030	12	102	55	40	45	●
	5			1536SU05C-1030	12	118	71	56	45	●
	3	Internoal Interno	Whistle notch shank/Codolo	1634SU03C-1030	12	102	55	40	45	●
	5			1636SU05C-1030	12	118	71	56	45	●
	3	Esternoal Esterno	Straight shank	1734SU03C-1030	12	102	55	40	45	●
	5			1736SU05C-1030	12	118	71	56	45	●
10.4	3	Esternoal Esterno	Straight shank	1538SU08C-1030	12	162	114	99	45	●
	5			1534SU03-1040	12	102	55	40	45	●
	3	Codolo cilindrico	Weldon shank/Codolo	1536SU05-1040	12	118	71	56	45	●
	5			1534SU03C-1040	12	102	55	40	45	●
	3	Internoal Interno	Whistle notch shank/Codolo	1536SU05C-1040	12	118	71	56	45	●
	5			1634SU03C-1040	12	102	55	40	45	●
	3	Esternoal Esterno	Straight shank	1636SU05C-1040	12	118	71	56	45	●
	5			1734SU03C-1040	12	102	55	40	45	●
10.5	3	Esternoal Esterno	Straight shank	1736SU05C-1040	12	118	71	56	45	●
	5			1538SU08C-1040	12	162	114	99	45	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03-1050	12	102	55	40	45	●
	5			1536SU05-1050	12	118	71	56	45	●
	3	Internoal Interno	Whistle notch shank/Codolo	1534SU03C-1050	12	102	55	40	45	●
	5			1536SU05C-1050	12	118	71	56	45	●
	3	Esternoal Esterno	Straight shank	1634SU03C-1050	12	102	55	40	45	●
	5			1636SU05C-1050	12	118	71	56	45	●
10.6	3	Esternoal Esterno	Straight shank	1734SU03C-1050	12	102	55	40	45	●
	5			1736SU05C-1050	12	118	71	56	45	●
	3	Internoal Interno	Zylinder cilindrico	1538SU08C-1050	12	162	114	99	45	●
	5			1534SU03-1060	12	102	55	40	45	●
10.6	3	Esternoal Esterno	Straight shank	1536SU05-1060	12	118	71	56	45	●
	5			1534SU03C-1060	12	102	55	40	45	●
	3	Internoal Interno	Zylinder cilindrico	1536SU05C-1060	12	118	71	56	45	●
	5			1534SU03-1060	12	102	55	40	45	●

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

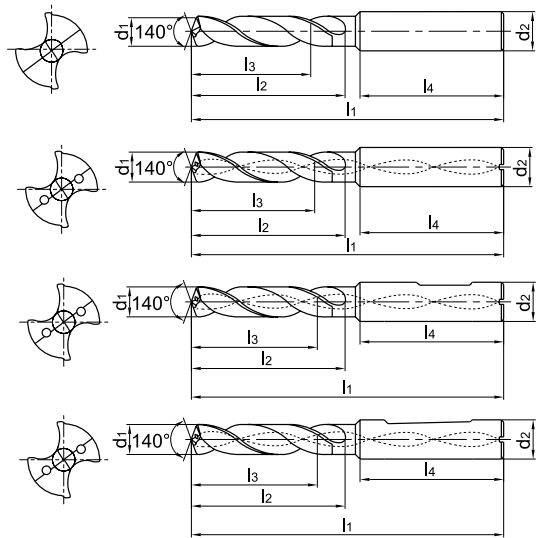
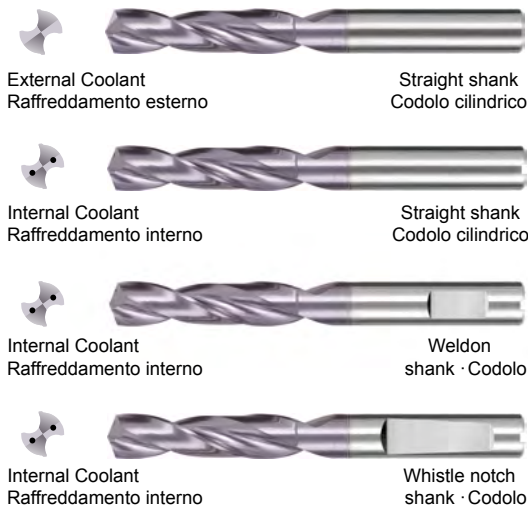
Drilling · Foratura

Solid Carbide drills · Punta in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h ₆)	l ₁	l ₂	l ₃	l ₄		
10.6	3	Internal Interno	Weldon shank/ Codolo	1634SU03C-1060	12	102	55	40	45	●	
	5			1636SU05C-1060	12	118	71	56	45	●	
	3		Whistle notch shank/ Codolo	1734SU03C-1060	12	102	55	40	45	●	
	5			1736SU05C-1060	12	118	71	56	45	●	
	8			1538SU08C-1060	12	162	114	99	45	●	
10.7	3	External Esterno	Straight shank	1534SU03-1070	12	102	55	40	45	●	
	5			1536SU05-1070	12	118	71	56	45	●	
	3		Codolo cilindrico	1534SU03C-1070	12	102	55	40	45	●	
	5			1536SU05C-1070	12	118	71	56	45	●	
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-1070	12	102	55	40	45	●	
	5			1636SU05C-1070	12	118	71	56	45	●	
	3		Whistle notch shank/Codolo	1734SU03C-1070	12	102	55	40	45	●	
	5			1736SU05C-1070	12	118	71	56	45	●	
	8			1538SU08C-1070	12	162	114	99	45	●	
	3			Straight shank	1534SU03-1080	12	102	55	40	45	●
5	1536SU05-1080	12	118		71	56	45	●			
10.8	3	External Esterno	Codolo cilindrico	1534SU03C-1080	12	102	55	40	45	●	
	5			1536SU05C-1080	12	118	71	56	45	●	
	3		Internal Interno	Weldon shank/Codolo	1634SU03C-1080	12	102	55	40	45	●
	5				1636SU05C-1080	12	118	71	56	45	●
	3	Whistle notch shank/Codolo		1734SU03C-1080	12	102	55	40	45	●	
	5			1736SU05C-1080	12	118	71	56	45	●	
	8			1538SU08C-1080	12	162	114	99	45	●	
	3			Straight shank	1534SU03-1090	12	102	55	40	45	●
	5	1536SU05-1090	12		118	71	56	45	●		
	10.9	3	External Esterno	Codolo cilindrico	1534SU03C-1090	12	102	55	40	45	●
5		1536SU05C-1090			12	118	71	56	45	●	
3		Internal Interno	Codolo cilindrico	1534SU03C-1090	12	102	55	40	45	●	
5				1536SU05C-1090	12	118	71	56	45	●	

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
10.9	3	Interno Interno	Weldon shank/Codolo	1634SU03C-1090	12	102	55	40	45	●
	5			1636SU05C-1090	12	118	71	56	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1090	12	102	55	40	45	●
	5			1736SU05C-1090	12	118	71	56	45	●
	8			1538SU08C-1090	12	162	114	99	45	●
11.0	3	Esternoal Esterno	Straight shank	1534SU03-1100	12	102	55	40	45	●
	5			1536SU05-1100	12	118	71	56	45	●
	3		Codolo cilindrico	1534SU03C-1100	12	102	55	40	45	●
	5			1536SU05C-1100	12	118	71	56	45	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1100	12	102	55	40	45	●
	5			1636SU05C-1100	12	118	71	56	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1100	12	102	55	40	45	●
	5			1736SU05C-1100	12	118	71	56	45	●
	8			1538SU08C-1100	12	162	114	99	45	●
	3			Esternoal Esterno	Straight shank	1534SU03-1110	12	102	55	40
5	1536SU05-1110	12	118			71	56	45	●	
11.1	3	Internoal Interno	Codolo cilindrico	1534SU03C-1110	12	102	55	40	45	●
	5			1536SU05C-1110	12	118	71	56	45	●
	3		Weldon shank/Codolo	1634SU03C-1110	12	102	55	40	45	●
	5			1636SU05C-1110	12	118	71	56	45	●
	3	Whistle notch shank/Codolo		1734SU03C-1110	12	102	55	40	45	●
	5			1736SU05C-1110	12	118	71	56	45	●
	8			1538SU08C-1110	12	162	114	99	45	●
	3			Esternoal Esterno	Straight shank	1534SU03-1120	12	102	55	40
	5	1536SU05-1120	12			118	71	56	45	●
	11.2	3	Internoal Interno	Codolo cilindrico	1534SU03C-1120	12	102	55	40	45
5		1536SU05C-1120			12	118	71	56	45	●
3		Weldon shank/Codolo		1634SU03C-1120	12	102	55	40	45	●
5				1636SU05C-1120	12	118	71	56	45	●
3			Whistle notch shank/Codolo	1734SU03C-1120	12	102	55	40	45	●
5				1736SU05C-1120	12	118	71	56	45	●
8				1538SU08C-1120	12	162	114	99	45	●
3				Esternoal Esterno	Straight shank	1534SU03-1125	12	102	55	40
5		1536SU05-1125	12			118	71	56	45	●
11.25		3	Internoal Interno	Codolo cilindrico	1534SU03C-1125	12	102	55	40	45
	5	1536SU05C-1125			12	118	71	56	45	○
	3	Weldon shank/Codolo		1634SU03C-1125	12	102	55	40	45	○
	5			1636SU05C-1125	12	118	71	56	45	○
	3		Whistle notch shank/Codolo	1734SU03C-1125	12	102	55	40	45	○
	5	1736SU05C-1125		12	118	71	56	45	○	

✓ = Very suitable · Molto consigliata
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Material Overview · Panoramica materiali

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

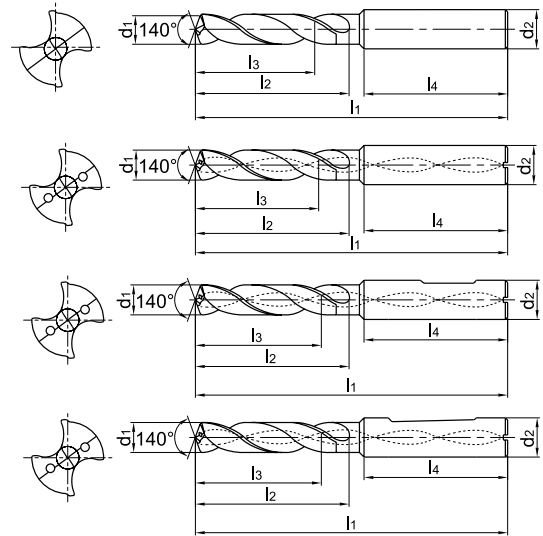
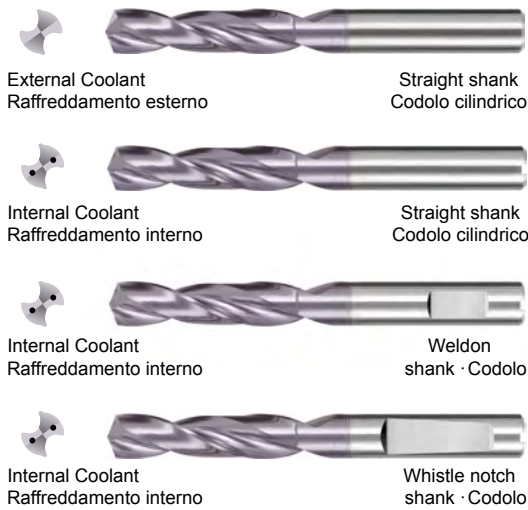
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
11.3	3	Esternoal Esterno	Straight shank	1534SU03-1130	12	102	55	40	45	●
	5			1536SU05-1130	12	118	71	56	45	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-1130	12	102	55	40	45	●
	5			1536SU05C-1130	12	118	71	56	45	●
	3		Weldon shank/Codolo	1634SU03C-1130	12	102	55	40	45	●
	5			1636SU05C-1130	12	118	71	56	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1130	12	102	55	40	45	●
	5			1736SU05C-1130	12	118	71	56	45	●
8		1538SU08C-1130	12	162	114	99	45	●		
11.35	3	Esternoal Esterno	Straight shank	1534SU03-1135	12	102	55	40	45	○
	5			1536SU05-1135	12	118	71	56	45	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-1135	12	102	55	40	45	○
	5			1536SU05C-1135	12	118	71	56	45	○
	3		Weldon shank/Codolo	1634SU03C-1135	12	102	55	40	45	○
	5			1636SU05C-1135	12	118	71	56	45	○
	3		Whistle notch shank/Codolo	1734SU03C-1135	12	102	55	40	45	○
	5			1736SU05C-1135	12	118	71	56	45	○
11.4	3	Esternoal Esterno	Straight shank	1534SU03-1140	12	102	55	40	45	●
	5			1536SU05-1140	12	118	71	56	45	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-1140	12	102	55	40	45	●
	5			1536SU05C-1140	12	118	71	56	45	●
	3		Weldon shank/Codolo	1634SU03C-1140	12	102	55	40	45	●
	5			1636SU05C-1140	12	118	71	56	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1140	12	102	55	40	45	●
	5			1736SU05C-1140	12	118	71	56	45	●
8		1538SU08C-1140	12	162	114	99	45	●		
11.45	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1145	12	102	55	40	45	○
	5			1536SU05-1145	12	118	71	56	45	○

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		
					d ₂ (h ₆)	l ₁	l ₂	l ₃	l ₄	KDG303	
11.45	3	Interno Interno	straight shank Codolo cilindrico	1534SU03C-1145	12	102	55	40	45	○	
	5			1536SU05C-1145	12	118	71	56	45	○	
	3		Weldon shank/Codolo	1634SU03C-1145	12	102	55	40	45	○	
	5			1636SU05C-1145	12	118	71	56	45	○	
	3		Whistle notch shank/Codolo	1734SU03C-1145	12	102	55	40	45	○	
	5			1736SU05C-1145	12	118	71	56	45	○	
11.5	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1150	12	102	55	40	45	●	
	5			1536SU05-1150	12	118	71	56	45	●	
	3			Internoal Interno	1634SU03C-1150	12	102	55	40	45	●
	5				1636SU05C-1150	12	118	71	56	45	●
	3	1734SU03C-1150	12		102	55	40	45	●		
	5	1736SU05C-1150	12		118	71	56	45	●		
	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1160	12	102	55	40	45	●	
	5			1536SU05-1160	12	118	71	56	45	●	
	3			Internoal Interno	1634SU03C-1160	12	102	55	40	45	●
	5				1636SU05C-1160	12	118	71	56	45	●
	3	1734SU03C-1160	12		102	55	40	45	●		
	5	1736SU05C-1160	12		118	71	56	45	●		
11.6	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1170	12	102	55	40	45	●	
	5			1536SU05-1170	12	118	71	56	45	●	
	3			Internoal Interno	1634SU03C-1170	12	102	55	40	45	●
	5				1636SU05C-1170	12	118	71	56	45	●
	3	1734SU03C-1170	12		102	55	40	45	●		
	5	1736SU05C-1170	12		118	71	56	45	●		
	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1180	12	102	55	40	45	●	
	5			1536SU05-1180	12	118	71	56	45	●	
	3			Internoal Interno	1634SU03C-1180	12	102	55	40	45	●
	5				1636SU05C-1180	12	118	71	56	45	●
	3	1734SU03C-1180	12		102	55	40	45	●		
	5	1736SU05C-1180	12		118	71	56	45	●		

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
 Punte in metallo duro integrale

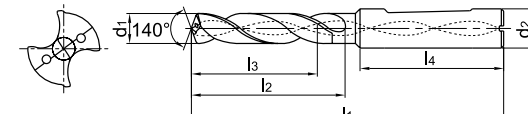
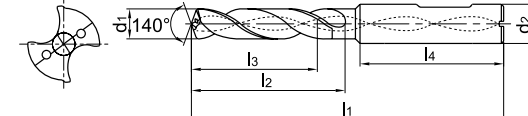
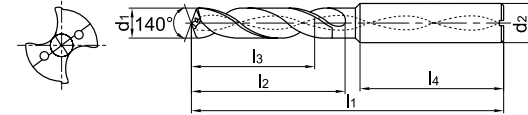
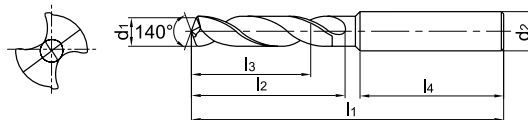
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h ₆)	l ₁	l ₂	l ₃	l ₄		
11.8	3	Internal Interno	Whistle notch shank/Codolo	1734SU03C-1180	12	102	55	40	45	●	
	5			1736SU05C-1180	12	118	71	56	45	●	
	8			1538SU08C-1180	12	162	114	99	45	●	
11.9	3	External Esterno	Straight shank Codolo cilindrico	1534SU03-1190	12	102	55	40	45	●	
	5			1536SU05-1190	12	118	71	56	45	●	
	3			1534SU03C-1190	12	102	55	40	45	●	
	5	1536SU05C-1190	12	118	71	56	45	●			
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-1190	12	102	55	40	45	●	
	5			1636SU05C-1190	12	118	71	56	45	●	
	3			1734SU03C-1190	12	102	55	40	45	●	
	5	1736SU05C-1190	12	118	71	56	45	●			
	8	1538SU08C-1190	12	162	114	99	45	●			
12.0	3	External Esterno	Straight shank Codolo cilindrico	1534SU03-1200	12	102	55	40	45	●	
	5			1536SU05-1200	12	118	71	56	45	●	
	3			1534SU03C-1200	12	102	55	40	45	●	
	5	1536SU05C-1200	12	118	71	56	45	●			
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-1200	12	102	55	40	45	●	
	5			1636SU05C-1200	12	118	71	56	45	●	
	3			1734SU03C-1200	12	102	55	40	45	●	
	5	1736SU05C-1200	12	118	71	56	45	●			
	8	1538SU08C-1200	12	162	114	99	45	●			
12.1	3	External Esterno	Straight shank Codolo cilindrico	1534SU03-1210	14	107	60	43	45	●	
	5			1536SU05-1210	14	124	77	60	45	●	
	3			1534SU03C-1210	14	107	60	43	45	●	
	5	1536SU05C-1210	14	124	77	60	45	●			
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-1210	14	107	60	43	45	●	
	5			1636SU05C-1210	14	124	77	60	45	●	
	3			1734SU03C-1210	14	107	60	43	45	●	
	5	1736SU05C-1210	14	124	77	60	45	●			

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h ₆)	l ₁	l ₂	l ₃	l ₄	KDG303
12.2	3	Esterno Esterno	Straight shank	1534SU03-1220	14	107	60	43	45	●
	5			1536SU05-1220	14	124	77	60	45	●
	3	Esterno Esterno	Codolo cilindrico	1534SU03C-1220	14	107	60	43	45	●
	5			1536SU05C-1220	14	124	77	60	45	●
	3	Interno Interno	Weldon shank/Codolo	1634SU03C-1220	14	107	60	43	45	●
	5			1636SU05C-1220	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1220	14	107	60	43	45	●
	5			1736SU05C-1220	14	124	77	60	45	●
12.25	3	Esterno Esterno	Straight shank	1534SU03-1225	14	107	60	43	45	●
	5			1536SU05-1225	14	124	77	60	45	●
	3	Esterno Esterno	Codolo cilindrico	1534SU03C-1225	14	107	60	43	45	●
	5			1536SU05C-1225	14	124	77	60	45	●
	3	Interno Interno	Weldon shank/Codolo	1634SU03C-1225	14	107	60	43	45	○
	5			1636SU05C-1225	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1225	14	107	60	43	45	●
	5			1736SU05C-1225	14	124	77	60	45	○
12.3	3	Esterno Esterno	Straight shank	1534SU03-1230	14	107	60	43	45	●
	5			1536SU05-1230	14	124	77	60	45	●
	3	Esterno Esterno	Codolo cilindrico	1534SU03C-1230	14	107	60	43	45	●
	5			1536SU05C-1230	14	124	77	60	45	●
	3	Interno Interno	Weldon shank/Codolo	1634SU03C-1230	14	107	60	43	45	●
	5			1636SU05C-1230	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1230	14	107	60	43	45	●
	5			1736SU05C-1230	14	124	77	60	45	●



Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

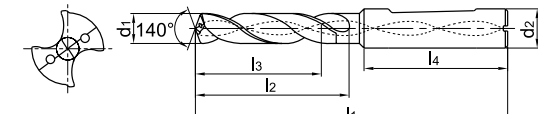
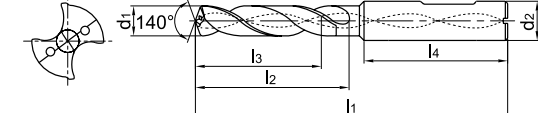
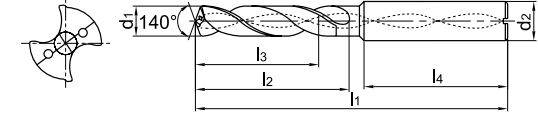
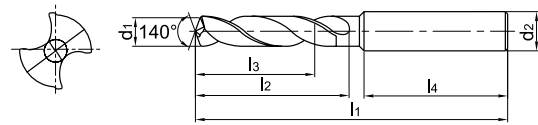
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
12.5	3	Esternoal Esterno	Straight shank	1534SU03-1250	14	107	60	43	45	●
	5			1536SU05-1250	14	124	77	60	45	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-1250	14	107	60	43	45	●
	5			1536SU05C-1250	14	124	77	60	45	●
	3		Weldon shank/Codolo	1634SU03C-1250	14	107	60	43	45	●
	5			1636SU05C-1250	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1250	14	107	60	43	45	●
	5			1736SU05C-1250	14	124	77	60	45	●
8		1538SU08C-1250	14	178	133	116	45	●		
12.7	3	Esternoal Esterno	Straight shank	1534SU03-1270	14	107	60	43	45	●
	5			1536SU05-1270	14	124	77	60	45	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-1270	14	107	60	43	45	●
	5			1536SU05C-1270	14	124	77	60	45	●
	3		Weldon shank/Codolo	1634SU03C-1270	14	107	60	43	45	●
	5			1636SU05C-1270	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1270	14	107	60	43	45	●
	5			1736SU05C-1270	14	124	77	60	45	●
8		1538SU08C-1270	14	178	133	116	45	●		
12.75	3	Esternoal Esterno	Straight shank	1534SU03-1275	14	107	60	43	45	●
	5			1536SU05-1275	14	124	77	60	45	●
	3	Internoal Interno	Codolo cilindrico	1534SU03C-1275	14	107	60	43	45	●
	5			1536SU05C-1275	14	124	77	60	45	●
	3		Weldon shank/Codolo	1634SU03C-1275	14	107	60	43	45	○
	5			1636SU05C-1275	14	124	77	60	45	○
	3		Weldon shank/Codolo	1734SU03C-1275	14	107	60	43	45	●
	5			1736SU05C-1275	14	124	77	60	45	●

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
12.8	3	Esternoal Esterno	Straight shank	1534SU03-1280	14	107	60	43	45	●
	5			1536SU05-1280	14	124	77	60	45	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1280	14	107	60	43	45	●
	5			1536SU05C-1280	14	124	77	60	45	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1280	14	107	60	43	45	●
	5			1636SU05C-1280	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1280	14	107	60	43	45	●
	5			1736SU05C-1280	14	124	77	60	45	●
8			1538SU08C-1280	14	178	133	116	45	●	
13.0	3	Esternoal Esterno	Straight shank	1534SU03-1300	14	107	60	43	45	●
	5			1536SU05-1300	14	124	77	60	45	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1300	14	107	60	43	45	●
	5			1536SU05C-1300	14	124	77	60	45	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1300	14	107	60	43	45	●
	5			1636SU05C-1300	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1300	14	107	60	43	45	●
	5			1736SU05C-1300	14	124	77	60	45	●
8			1538SU08C-1300	14	178	133	116	45	●	
13.1	3	Esternoal Interno	Straight shank	1534SU03-1310	14	107	60	43	45	●
	5			1536SU05-1310	14	124	77	60	45	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1310	14	107	60	43	45	●
	5			1536SU05C-1310	14	124	77	60	45	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1310	14	107	60	43	45	●
	5			1636SU05C-1310	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1310	14	107	60	43	45	●
	5			1736SU05C-1310	14	124	77	60	45	●
13.35	3	Esternoal Esterno	Straight shank	1534SU03-1335	14	107	60	43	45	○
	5			1536SU05-1335	14	124	77	60	56	○
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1335	14	107	60	43	45	●
	5			1536SU05C-1335	14	124	77	60	56	○
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1335	14	107	60	43	45	○
	5			1636SU05C-1335	14	124	77	60	56	○
	3		Whistle notch shank/Codolo	1734SU03C-1335	14	107	60	43	45	○
	5			1736SU05C-1335	14	124	77	60	56	○



Solid Carbide drills
Punte in metallo duro integrale

Material Overview · Panoramica materiali

✓ = Very suitable · Molto consigliata
✓ = Suitable · Consigliata

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

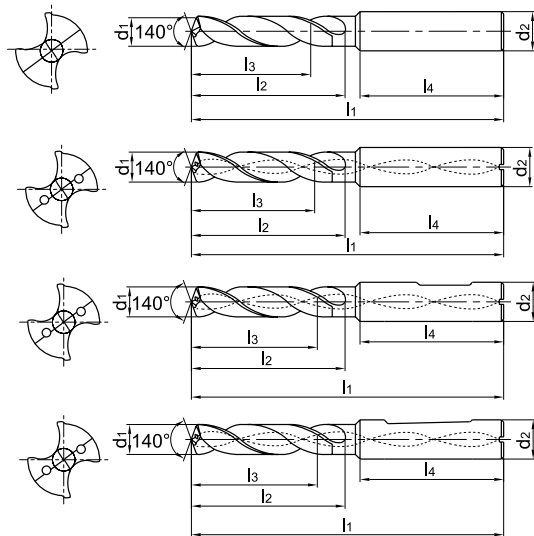
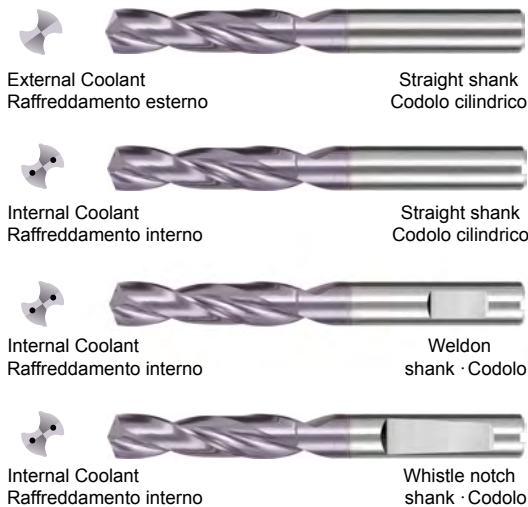
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h ₆)	l ₁	l ₂	l ₃	l ₄	
13.5	3	Esternoal Esterno	Straight shank	1534SU03-1350	14	107	60	43	45	●
	5			1536SU05-1350	14	124	77	60	45	●
	3	Internooal Interno	Codolo cilindrico	1534SU03C-1350	14	107	60	43	45	●
	5			1536SU05C-1350	14	124	77	60	45	●
	3		Weldon shank/Codolo	1634SU03C-1350	14	107	60	43	45	●
	5			1636SU05C-1350	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1350	14	107	60	43	45	●
	5			1736SU05C-1350	14	124	77	60	45	●
8			1538SU08C-1350	14	178	133	116	45	●	
13.8	3	Esternoal Esterno	Straight shank	1534SU03-1380	14	107	60	43	45	●
	5			1536SU05-1380	14	124	77	60	45	●
	3	Internooal Interno	Codolo cilindrico	1534SU03C-1380	14	107	60	43	45	●
	5			1536SU05C-1380	14	124	77	60	45	●
	3		Weldon shank/Codolo	1634SU03C-1380	14	107	60	43	45	●
	5			1636SU05C-1380	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1380	14	107	60	43	45	●
	5			1736SU05C-1380	14	124	77	60	45	●

C

Solid Carbide drills
Punte in metallo duro integrale

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
14.0	3	Esternoal Esterno	Straight shank	1534SU03-1400	14	107	60	43	45	●
	5			1536SU05-1400	14	124	77	60	45	●
	3	Codolo cilindrico		1534SU03C-1400	14	107	60	43	45	●
	5			1536SU05C-1400	14	124	77	60	45	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1400	14	107	60	43	45	●
	5			1636SU05C-1400	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1400	14	107	60	43	45	●
	5			1736SU05C-1400	14	124	77	60	45	●
8			1538SU08C-1400	14	178	133	116	45	●	
14.2	3	Esternoal Esterno	Straight shank	1534SU03-1420	14	107	60	43	45	●
	5			1536SU05-1420	14	124	77	60	45	●
	3	Codolo cilindrico		1534SU03C-1420	14	107	60	43	45	●
	5			1536SU05C-1420	14	124	77	60	45	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1420	14	107	60	43	45	○
	5			1636SU05C-1420	14	124	77	60	45	●
	3		Whistle notch shank/Codolo	1734SU03C-1420	14	107	60	43	45	●
	5			1736SU05C-1420	14	124	77	60	45	●
14.25	3	Esternoal Esterno	Straight shank	1534SU03-1425	16	115	65	45	48	●
	5			1536SU05-1425	16	133	83	63	48	●
	3	Codolo cilindrico		1534SU03C-1425	16	115	65	45	48	●
	5			1536SU05C-1425	16	133	83	63	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1425	16	115	65	45	48	○
	5			1636SU05C-1425	16	133	83	63	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1425	16	115	65	45	48	●
	5			1736SU05C-1425	16	133	83	63	48	●
14.3	3	Esternoal Esterno	Straight shank	1534SU03-1430	16	115	65	45	48	●
	5			1536SU05-1430	16	133	83	63	48	●
	3	Codolo cilindrico		1534SU03C-1430	16	115	65	45	48	●
	5			1536SU05C-1430	16	133	83	63	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1430	16	115	65	45	48	○
	5			1636SU05C-1430	16	133	83	63	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1430	16	115	65	45	48	●
	5			1736SU05C-1430	16	133	83	63	48	●



Solid Carbide drills
Punta in metallo duro integrale

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

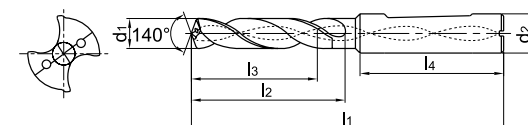
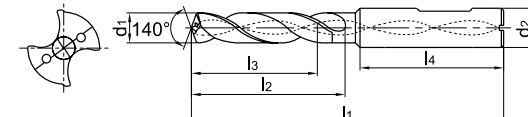
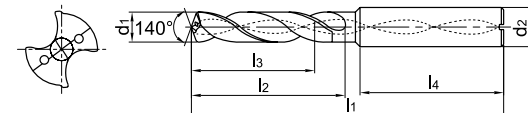
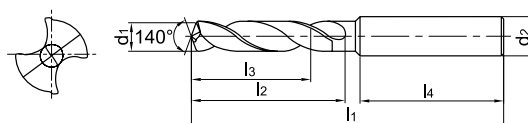
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄	
14.5	3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1450	16	115	65	45	48	●
	5			1536SU05-1450	16	133	83	63	48	●
	3	Internooal Interno	Weldon shank/Codolo	1634SU03C-1450	16	115	65	45	48	●
	5			1636SU05C-1450	16	133	83	63	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1450	16	115	65	45	48	●
	5			1736SU05C-1450	16	133	83	63	48	●
	8		1538SU08C-1450	16	204	152	132	48	●	
	14.75		3	Esternoal Esterno	Straight shank Codolo cilindrico	1534SU03-1475	16	115	65	45
5		1536SU05-1475	16			133	83	63	48	●
3		Internooal Interno	Weldon shank/Codolo	1634SU03C-1475	16	115	65	45	48	○
5				1636SU05C-1475	16	133	83	63	48	○
3			Whistle notch shank/Codolo	1734SU03C-1475	16	115	65	45	48	●
5				1736SU05C-1475	16	133	83	63	48	●

C

Solid Carbide drills
Punte in metallo duro integrale

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
14.8	3	Esternoal Esterno	Straight shank	1534SU03-1480	16	115	65	45	48	●
	5			1536SU05-1480	16	133	83	63	48	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1480	16	115	65	45	48	●
	5			1536SU05C-1480	16	133	83	63	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1480	16	115	65	45	48	●
	5			1636SU05C-1480	16	133	83	63	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1480	16	115	65	45	48	●
	5			1736SU05C-1480	16	133	83	63	48	●
8			1538SU08C-1480	16	204	152	132	48	●	
15.0	3	Esternoal Esterno	Straight shank	1534SU03-1500	16	115	65	45	48	●
	5			1536SU05-1500	16	133	83	63	48	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1500	16	115	65	45	48	●
	5			1536SU05C-1500	16	133	83	63	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1500	16	115	65	45	48	●
	5			1636SU05C-1500	16	133	83	63	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1500	16	115	65	45	48	●
	5			1736SU05C-1500	16	133	83	63	48	●
8			1538SU08C-1500	16	204	152	132	48	●	
15.1	3	Esternoal Esterno	Straight shank	1534SU03-1510	16	115	65	45	48	●
	5			1536SU05-1510	16	133	83	63	48	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1510	16	115	65	45	48	●
	5			1536SU05C-1510	16	133	83	63	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1510	16	115	65	45	48	●
	5			1636SU05C-1510	16	133	83	63	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1510	16	115	65	45	48	●
	5			1736SU05C-1510	16	133	83	63	48	●
15.3	3	Esternoal Esterno	Straight shank	1534SU03-1530	16	115	65	45	48	●
	5	Internoal Interno		1536SU05C-1530	16	133	83	63	48	●
15.35	3	Esternoal Esterno	Straight shank	1534SU03-1535	16	115	65	45	48	○
	5			1536SU05-1535	16	133	83	63	48	○
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1535	16	115	65	45	48	○
	5			1536SU05C-1535	16	133	83	63	48	○
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1535	16	115	65	45	48	○
	5			1636SU05C-1535	16	133	83	63	48	○
	3		Whistle notch shank/Codolo	1734SU03C-1535	16	115	65	45	48	○
	5			1736SU05C-1535	16	133	83	63	48	○

Material Overview · Panoramica materiali

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Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

Solid Carbide drills
Punta in metallo duro integrale

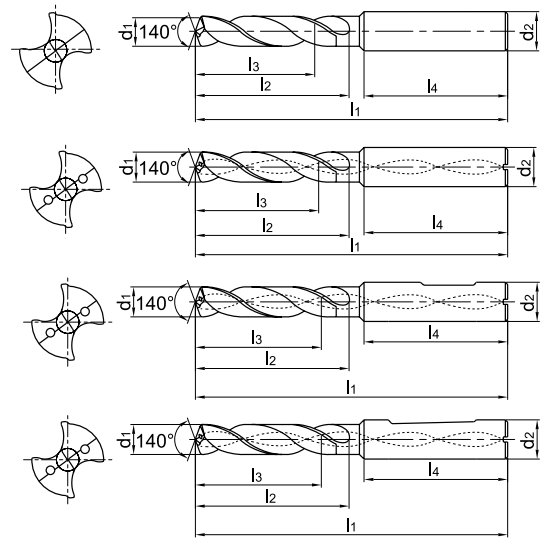
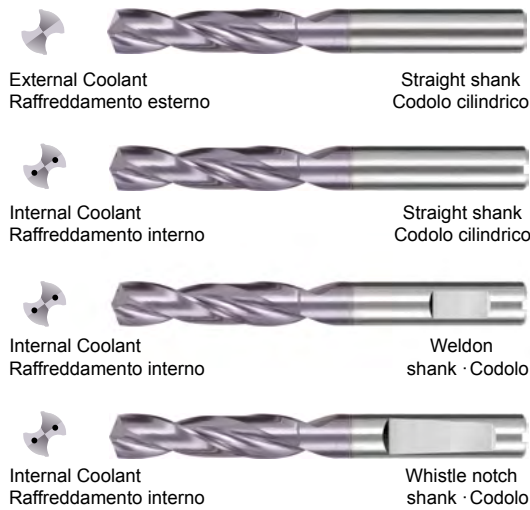
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

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Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄		
15.5	3	Esternoal Esterno	Straight shank	1534SU03-1550	16	115	65	45	48	●	
	5			1536SU05-1550	16	133	83	63	48	●	
	3	Internal Interno	Codolo cilindrico	1534SU03C-1550	16	115	65	45	48	●	
	5			1536SU05C-1550	16	133	83	63	48	●	
	3		Weldon shank/Codolo	1634SU03C-1550	16	115	65	45	48	○	
	5			1636SU05C-1550	16	133	83	63	48	●	
	3		Whistle notch shank/Codolo	1734SU03C-1550	16	115	65	45	48	●	
	5			1736SU05C-1550	16	133	83	63	48	●	
8				1538SU08C-1550	16	204	152	132	48	●	
15.8	3		Esternoal Esterno	Straight shank	1534SU03-1580	16	115	65	45	48	●
	5	1536SU05-1580			16	133	83	63	48	●	
	3	Internal Interno	Codolo cilindrico	1534SU03C-1580	16	115	65	45	48	●	
	5			1536SU05C-1580	16	133	83	63	48	●	
	3		Weldon shank/Codolo	1634SU03C-1580	16	115	65	45	48	○	
	5			1636SU05C-1580	16	133	83	63	48	●	
	3		Whistle notch shank/Codolo	1734SU03C-1580	16	115	65	45	48	●	
	5			1736SU05C-1580	16	133	83	63	48	●	
16.0	3		Esternoal Esterno	Straight shank	1534SU03-1600	16	115	65	45	48	●
	5				1536SU05-1600	16	133	83	63	48	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-1600	16	115	65	45	48	●	
	5			1536SU05C-1600	16	133	83	63	48	●	
	3		Weldon shank/Codolo	1634SU03C-1600	16	115	65	45	48	●	
	5			1636SU05C-1600	16	133	83	63	48	●	
	3		Whistle notch shank/Codolo	1734SU03C-1600	16	115	65	45	48	●	
	5			1736SU05C-1600	16	133	83	63	48	●	
8				1538SU08C-1600	16	204	152	132	48	●	
16.1	3		Esternoal Esterno	Codolo cilindrico	1534SU03-1610	18	123	73	51	48	●

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
16.5	3	Esternoal Esterno	Straight shank	1534SU03-1650	18	123	73	51	48	●
	5			1536SU05-1650	18	143	93	71	48	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1650	18	123	73	51	48	●
	5			1536SU05C-1650	18	143	93	71	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1650	18	123	73	51	48	○
	5			1636SU05C-1650	18	143	93	71	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1650	18	123	73	51	48	●
	5			1736SU05C-1650	18	143	93	71	48	●
8			1538SU08C-1650	18	223	171	149	48	●	
16.75	3	Esternoal Esterno	Straight shank	1534SU03-1675	18	123	73	51	48	●
	5			1536SU05-1675	18	143	93	71	48	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1675	18	123	73	51	48	●
	5			1536SU05C-1675	18	143	93	71	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1675	18	123	73	51	48	○
	5			1636SU05C-1675	18	143	93	71	48	○
	3		Whistle notch shank/Codolo	1734SU03C-1675	18	123	73	51	48	●
	5			1736SU05C-1675	18	143	93	71	48	●
16.8	3	Esternoal Esterno	Straight shank	1534SU03-1680	18	123	73	51	48	●
	5			1536SU05-1680	18	143	93	71	48	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1680	18	123	73	51	48	●
	5			1536SU05C-1680	18	143	93	71	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1680	18	123	73	51	48	○
	5			1636SU05C-1680	18	143	93	71	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1680	18	123	73	51	48	●
	5			1736SU05C-1680	18	143	93	71	48	●
17.0	3	Esternoal Esterno	Straight shank	1534SU03-1700	18	123	73	51	48	●
	5			1536SU05-1700	18	143	93	71	48	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1700	18	123	73	51	48	●
	5			1536SU05C-1700	18	143	93	71	48	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1700	18	123	73	51	48	●
	5			1636SU05C-1700	18	143	93	71	48	●
	3		Whistle notch shank/Codolo	1734SU03C-1700	18	123	73	51	48	●
	5			1736SU05C-1700	18	143	93	71	48	●
8			1538SU08C-1700	18	223	171	149	48	●	



Solid Carbide drills
Punta in metallo duro integrale

Material Overview · Panoramica materiali

✓ = Very suitable · Molto consigliata
✓ = Suitable · Consigliata

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			

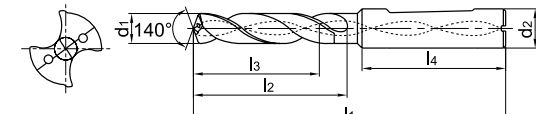
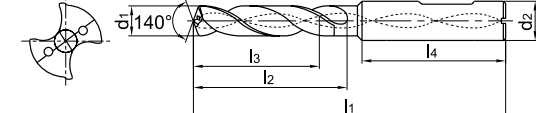
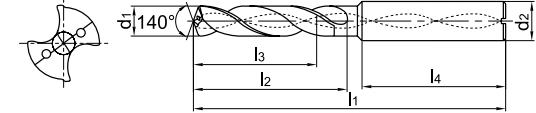
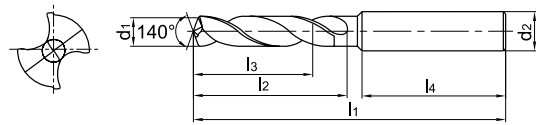
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado	
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo		KDG303
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄		
17.5	3	Esternoal Esterno	Straight shank	1534SU03-1750	18	123	73	51	48	●	
	5			1536SU05-1750	18	143	93	71	48	●	
	3	Internoal Interno	Codolo cilindrico	1534SU03C-1750	18	123	73	51	48	●	
	5			1536SU05C-1750	18	143	93	71	48	●	
	3		Weldon shank/Codolo	1634SU03C-1750	18	123	73	51	48	○	
	5			1636SU05C-1750	18	143	93	71	48	●	
	3		Whistle notch shank/Codolo	1734SU03C-1750	18	123	73	51	48	●	
	5			1736SU05C-1750	18	143	93	71	48	●	
8		1538SU08C-1750	18	223	171	149	48	●			
17.8	3	Esternoal Esterno	Straight shank	1534SU03-1780	18	123	73	51	48	●	
	5			1536SU05-1780	18	143	93	71	48	●	
	3	Internoal Interno	Codolo cilindrico	1534SU03C-1780	18	123	73	51	48	●	
	5			1536SU05C-1780	18	143	93	71	48	●	
	3		Weldon shank/Codolo	1634SU03C-1780	18	123	73	51	48	○	
	5			1636SU05C-1780	18	143	93	71	48	●	
	3		Whistle notch shank/Codolo	1734SU03C-1780	18	123	73	51	48	●	
	5			1736SU05C-1780	18	143	93	71	48	●	
18.0	3	Esternoal Esterno	Straight shank	1534SU03-1800	18	123	73	51	48	●	
	5			1536SU05-1800	18	143	93	71	48	●	
	3	Internoal Interno	Codolo cilindrico	1534SU03C-1800	18	123	73	51	48	●	
	5			1536SU05C-1800	18	143	93	71	48	●	
	3		Weldon shank/Codolo	1634SU03C-1800	18	123	73	51	48	●	
	5			1636SU05C-1800	18	143	93	71	48	●	
	3		Whistle notch shank/Codolo	1734SU03C-1800	18	123	73	51	48	●	
	5			1736SU05C-1800	18	143	93	71	48	●	
	8		1538SU08C-1800	18	223	171	149	48	●		

Drill diameter Ø punta d ₁ (m7)	Drilling depth Prof. foro (L/d1)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h _e)	l ₁	l ₂	l ₃	l ₄	KDG303
18.5	3	Esternoal Esterno	Straight shank	1534SU03-1850	20	131	79	55	50	●
	5			1536SU05-1850	20	153	101	77	50	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1850	20	131	79	55	50	●
	5			1536SU05C-1850	20	153	101	77	50	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1850	20	131	79	55	50	○
	5			1636SU05C-1850	20	153	101	77	50	●
	3		Whistle notch shank/Codolo	1734SU03C-1850	20	131	79	55	50	●
5	1736SU05C-1850			20	153	101	77	50	●	
18.8	3	Esternoal Esterno	Straight shank	1534SU03-1880	20	131	79	55	50	●
	5			1536SU05-1880	20	153	101	77	50	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1880	20	131	79	55	50	●
	5			1536SU05C-1880	20	153	101	77	50	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1880	20	131	79	55	50	○
	5			1636SU05C-1880	20	153	101	77	50	●
	3		Whistle notch shank/Codolo	1734SU03C-1880	20	131	79	55	50	●
5	1736SU05C-1880			20	153	101	77	50	●	
19.0	3	Esternoal Esterno	Straight shank	1534SU03-1900	20	131	79	55	50	●
	5			1536SU05-1900	20	153	101	77	50	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1900	20	131	79	55	50	●
	5			1536SU05C-1900	20	153	101	77	50	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1900	20	131	79	55	50	○
	5			1636SU05C-1900	20	153	101	77	50	●
	3		Whistle notch shank/Codolo	1734SU03C-1900	20	131	79	55	50	●
5	1736SU05C-1900			20	153	101	77	50	●	
19.5	3	Esternoal Esterno	Straight shank	1534SU03-1950	20	131	79	55	50	●
	5			1536SU05-1950	20	153	101	77	50	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1950	20	131	79	55	50	●
	5			1536SU05C-1950	20	153	101	77	50	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1950	20	131	79	55	50	○
	5			1636SU05C-1950	20	153	101	77	50	●
	3		Whistle notch shank/Codolo	1734SU03C-1950	20	131	79	55	50	●
5	1736SU05C-1950			20	153	101	77	50	●	
19.8	3	Esternoal Esterno	Straight shank	1534SU03-1980	20	131	79	55	50	●
	5			1536SU05-1980	20	153	101	77	50	●
	3	Codolo cilindrico	Weldon shank/Codolo	1534SU03C-1980	20	131	79	55	50	●
	5			1536SU05C-1980	20	153	101	77	50	●
	3	Internoal Interno	Weldon shank/Codolo	1634SU03C-1980	20	131	79	55	50	○
	5			1636SU05C-1980	20	153	101	77	50	●
	3		Whistle notch shank/Codolo	1734SU03C-1980	20	131	79	55	50	●
5	1736SU05C-1980			20	153	101	77	50	●	

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✓ = Suitable · Consigliata

Material Overview · Panoramica materiali

Grade Grado	Workpiece material · Materiale da lavorare										
	Carbon steel Acciaio al carbonio HB≤180	Alloy steel Acciaio Legato	Hardened steel · Acciaio temprato			Stainless steel Acciaio inox	Cast iron, Ghisa grigia	Nodular cast iron GGG Ghisa sferoidale	Aluminum alloy Lega di Al.	Copper alloy Lega di rame	Heat resist. alloy Leg. res. Calore
			~40HRC	~50HRC	~60HRC						
KDG303	✓	✓	✓			✓	✓	✓			



Solid Carbide drills
Punte in metallo duro integrale

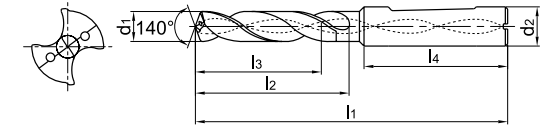
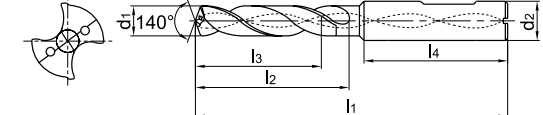
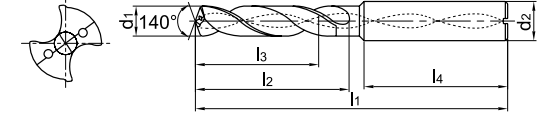
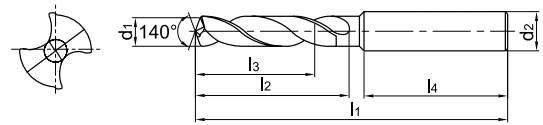
Drilling · Foratura

Solid Carbide drills · Punte in metallo duro integrale

SU&SUK

Please add K when ordering / Nell'ordine aggiungere la lettera K

General machining · Lavorazione generica



- For high efficient drilling of P (steel), M (stainless steel) and K (cast iron) with high performance.
- Waveform cutting edges achieve outstanding sharpness and strength, promoting chip removal.
- Foratura altamente efficiente di materiali in acciaio, materiali inossidabili e ghisa.
- Tagliante ondulato con alta taglienza, stabilità e buona asportazione del truciolo.

Drill diameter Ø punta d ₁ (m ₇)	Drilling depth Prof. foro (L/d ₁)	Cooling mode Refrigerante.	Shank Codolo	Type Tipo	Basic dimension(mm) · Dimensioni base					Grade Grado
					Shank diameter Ø Diametro del codolo	Overall length Lung. totale	Flute length Lung. scanalat.	effective drill. length Lung. di lavoro eff.	Shank length Lung. codolo	
					d ₂ (h ₆)	l ₁	l ₂	l ₃	l ₄	
20.0	3	Esterno Esterno	Straight shank	1534SU03-2000	20	131	79	55	50	●
	5			1536SU05-2000	20	153	101	77	50	●
	3	Internal Interno	Codolo cilindrico	1534SU03C-2000	20	131	79	55	50	●
	5			1536SU05C-2000	20	153	101	77	50	●
	3	Internal Interno	Weldon shank/Codolo	1634SU03C-2000	20	131	79	55	50	●
	5			1636SU05C-2000	20	153	101	77	50	●
	3	Internal Interno	Whistle notch shank/Codolo	1734SU03C-2000	20	131	79	55	50	●
	5			1736SU05C-2000	20	153	101	77	50	●



Solid Carbide drills
Punte in metallo duro integrale

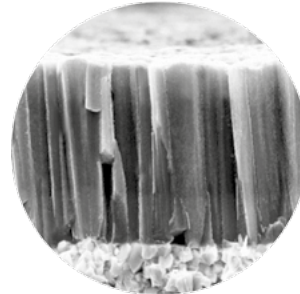


Grade introduction for solid carbide drills Gradi di metallo duro integrale per punte in metallo duro integrale

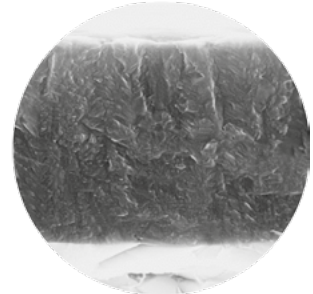
Coated Grade **KDG303** Grado con rivestimento

It is a combination of ultra-fine carbide substrate and Nano nc-TiAlN coating. It is a universal grade for machining of carbon steel, alloy steel (HRC<=48), cast iron and stainless steel. Suitable for the machining of Ni based high-temperature alloys at normal cutting speed.

Un combinazione di metallo duro integrale a grana ultra fine e un rivestimento Nano nc-TiAlN PVD. Impiego universale per la lavorazione di acciaio al carbonio, acciaio legato (HRC<=48), ghisa, acciaio inox e superleghe a base di Ni resistenti al calore per normali velocità di taglio.

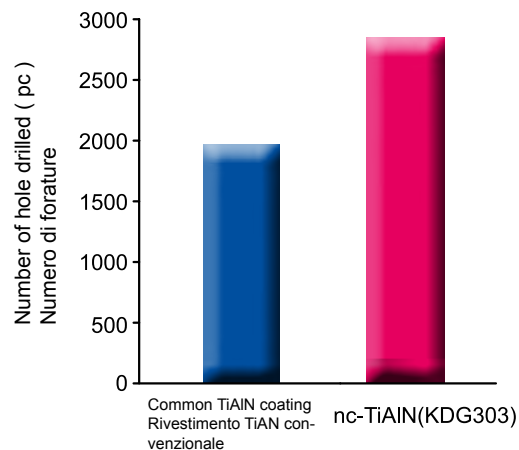


Common TiAlN coating
Rivestimento in TiAlN normale



nc-TiAlN coating
Rivestimento nc-TiAlN

Application of nc-TiAlN coating in drilling Esempio applicativo del nc-TiAlN	
Tool Type · Tipo	1534SU03C-1200
Size · Diametro	Ø12mm
Workpiece material Materiale da lavorare	42CrMo (32HRC)
Cutting speed Vel. di taglio	100m/min
Rotating speed Giri al minuto	2652r/min
Feed rate per revolution Avanzamento per giro	0.25mm/r
Feed speed · Avanzamento	663mm/min
Drilling depth · Prof. foro	36mm
Cooling system Sistema refrigerante	Water-soluble liquid(Internal) Emulsione (alimentazione interna)
Machine · Macchina	Mikron UCP 1000



SU series twist drills · Serie punte elicoidali SU (Internal coolant / Refrigerante)

8D

Workpiece material Materiale pezzo	Mild steel Acciaio per costruzioni HB≤180		Carbon steel, alloy steel Acciaio al carbonio Acciaio legato ~30HRC		Pre-hardened steel Acciaio rettificato ~40HRC		Stainless steel Acciaio inox		Cast iron Ghisa		Nodular cast iron GGG Ghisa sferoidale		Aluminum alloy Leghe di alluminio		Heat resistant alloy Leg. res. Calore	
Vc	80~150m/min		80~150m/min		50~80m/min		40~60m/min		80~150m/min		60~120m/min		100~180m/min		15~25m/min	
Ø (mm)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)
3	12700	0.06~0.10	12700	0.06~0.10	7400	0.06~0.10	5300	0.03~0.07	12700	0.06~0.10	9500	0.06~0.10	15000	0.09~0.12	2100	0.03~0.06
4	9600	0.08~0.12	9600	0.08~0.12	5600	0.08~0.12	4000	0.04~0.08	9600	0.08~0.12	7000	0.08~0.12	11100	0.10~0.15	1600	0.04~0.07
5	7600	0.10~0.14	7600	0.10~0.14	4500	0.10~0.14	3200	0.05~0.10	7600	0.10~0.14	5700	0.10~0.14	9000	0.10~0.14	1250	0.05~0.09
6	6400	0.11~0.16	6400	0.11~0.16	3700	0.11~0.16	2700	0.06~0.12	6400	0.11~0.16	4700	0.11~0.16	7400	0.11~0.16	1050	0.06~0.11
8	4800	0.13~0.19	4800	0.13~0.19	2800	0.13~0.19	2000	0.08~0.16	4800	0.13~0.19	3600	0.13~0.19	5600	0.13~0.19	800	0.08~0.14
10	3800	0.14~0.22	3800	0.14~0.22	2200	0.14~0.22	1600	0.10~0.18	3800	0.14~0.22	2800	0.14~0.22	4500	0.14~0.22	600	0.10~0.16
12	3200	0.16~0.24	3200	0.16~0.24	1900	0.16~0.24	1300	0.12~0.20	3200	0.16~0.24	2400	0.16~0.24	3700	0.16~0.24	500	0.12~0.18
14	2700	0.18~0.28	2700	0.18~0.28	1600	0.18~0.28	1100	0.13~0.22	2700	0.18~0.28	2100	0.18~0.28	3200	0.18~0.28	450	0.13~0.20
16	2400	0.20~0.29	2400	0.20~0.29	1400	0.20~0.29	1000	0.14~0.25	2400	0.20~0.29	1800	0.20~0.29	2800	0.20~0.29	400	0.14~0.23
18	2100	0.24~0.32	2100	0.24~0.32	1200	0.24~0.32	880	0.15~0.28	2100	0.24~0.32	1600	0.24~0.32	2500	0.24~0.32	350	0.15~0.25

1. When the tool is used for the first time, please make a test cutting with 90% of cutting speed or 85% feed rate mentioned above. If the cutting conditions remain stable, gradually increase the cutting speed and feed rate.
2. The cutting conditions above are for drilling with emulsion.
3. Use a collet without any defect or dust. The radial run-out of drill must be under 0.02mm.
4. These conditions above are for cutting depth under 8D.

1. Per il primo utilizzo selezionare il 90% della velocità di taglio o l'85% dell'avanzamento. Per una lavorazione stabile aumentare i dati di taglio conformemente.
2. I dati di taglio consigliati sopra presuppongono l'uso di emulsione.
3. Non selezionare un portautensili difettoso. La precisione di concentricità deve essere inferiore a 0,02mm.
4. I dati di taglio sopra sono validi per profondità di foratura inferiori a 8xD.

C

Solid Carbide drills
Punte in metallo duro integrale

SU series step drills · Serie punte a gradino SU (External coolant / Refrigerante)

3D

Workpiece material Materiale pezzo	Mild steel Acciaio per costruzioni HB≤180		Carbon steel, alloy steel Acciaio al carbonio Acciaio legato ~30HRC		Pre-hardened steel Acciaio rettificato ~40HRC		Stainless steel Acciaio inox		Cast iron Ghisa		Nodular cast iron GGG Ghisa a grafite sferoidale		Aluminum alloy Leghe di alluminio		Heat resistant alloy Leg. res. Calore	
	Vc	50~100m/min	50~100m/min	30~50m/min	25~40m/min	50~100m/min	40~80m/min	60~120m/min	15~25m/min							
Ø (mm)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)	n (min ⁻¹)	f (mm/r)
3.3	5800	0.09~0.12	5800	0.09~0.12	3850	0.09~0.12	2900	0.03~0.07	5800	0.09~0.12	5000	0.09~0.12	10000	0.09~0.12	1600	0.03~0.06
4.2	4550	0.10~0.15	4550	0.10~0.15	3000	0.10~0.15	2300	0.04~0.08	4550	0.10~0.15	3800	0.10~0.15	7600	0.10~0.15	1250	0.04~0.07
5	3800	0.12~0.18	3800	0.12~0.18	2550	0.12~0.18	1900	0.05~0.10	3800	0.12~0.18	3200	0.12~0.18	6400	0.12~0.18	1050	0.05~0.10
6.75	2850	0.14~0.20	2850	0.14~0.20	1900	0.14~0.20	1400	0.06~0.12	2850	0.14~0.20	2400	0.14~0.20	4800	0.14~0.20	800	0.06~0.11
7	2750	0.15~0.22	2750	0.15~0.22	1800	0.15~0.22	1350	0.07~0.14	2750	0.15~0.22	2300	0.15~0.22	4550	0.15~0.22	730	0.07~0.12
8.5	2250	0.16~0.24	2250	0.16~0.24	1500	0.16~0.24	1100	0.08~0.16	2250	0.16~0.24	1800	0.16~0.24	3600	0.16~0.24	600	0.08~0.14
9	2100	0.17~0.25	2100	0.17~0.25	1400	0.17~0.25	1050	0.09~0.17	2100	0.17~0.25	1750	0.17~0.25	3500	0.17~0.25	560	0.09~0.15
10.25	1850	0.18~0.27	1850	0.18~0.27	1250	0.18~0.27	930	0.10~0.18	1850	0.18~0.27	1550	0.18~0.27	3100	0.18~0.27	500	0.10~0.16
10.5	1800	0.19~0.28	1800	0.19~0.28	1200	0.19~0.28	900	0.11~0.19	1800	0.19~0.28	1500	0.19~0.28	3000	0.19~0.28	480	0.11~0.17
12	1600	0.20~0.30	1600	0.20~0.30	1050	0.20~0.30	800	0.12~0.20	1600	0.20~0.30	1300	0.20~0.30	2600	0.20~0.30	450	0.12~0.18
12.5	1550	0.20~0.30	1550	0.20~0.30	1000	0.20~0.30	760	0.12~0.20	1550	0.20~0.30	1250	0.20~0.30	2550	0.20~0.30	410	0.12~0.18
14	1350	0.22~0.35	1350	0.22~0.35	900	0.22~0.35	700	0.14~0.24	1350	0.22~0.35	1150	0.22~0.35	2300	0.22~0.35	370	0.13~0.20
14.5	1300	0.22~0.35	1300	0.22~0.35	880	0.22~0.35	650	0.14~0.24	1300	0.22~0.35	1050	0.22~0.35	2200	0.22~0.35	350	0.13~0.20

1. When the tool is used for the first time, please make a test cutting with 90% of cutting speed or 85% feed rate mentioned above. If the cutting conditions remain stable, gradually increase the cutting speed and feed rate.
2. The cutting conditions above are for drilling with emulsion.
3. Use a collet without any defect or dust. The radial run-out of drill must be under 0.02mm.

1. Per il primo utilizzo selezionare il 90% della velocità di taglio o l'85% dell'avanzamento. Per una lavorazione stabile aumentare i dati di taglio conformemente.
2. I dati di taglio consigliati sopra presuppongono l'uso di emulsione.
3. Non selezionare un portautensili difettoso. La precisione di concentricità deve essere inferiore a 0,02mm.

C

Solid Carbide drills
Punte in metallo duro integrale



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