**UTENSILI PER LA SICUREZZA DEI PROCESSI E LA PRODUTTIVITÀ.
TIPICAMENTE UTILIZZATI PER LA PRODUZIONE CNC E AUTOMATIZZATA.**

Codice materiale (BMC)	HM	HM	HM	HM	
Gruppo standard di base (BSG)	DORMER	DORMER	DORMER	DORMER	
Lunghezza utilizzabile (ULDR)	1×D	1×D	1×D	1×D	
Angolo di applicazione	90°	90°	120°	150°	
Rivestimento	Bright	TiAlN	Bright	TiAlN	
Codolo		DIN 6535HA			
Forma a spirale	λ 20-35°	λ 20-35°	λ 20-35°	λ 20-35°	
Direzione di taglio	R	R	R	R	
					
Codice Famiglia Prodotto	**R123**	**R6011**	**R122**	**R125**	
Gamma diametri di taglio PSF	5.00 - 20.00	6.00 - 16.00	5.00 - 20.00	5.00 - 16.00	
	182	183	184	185	
P	**P1**	■	■	■	■
	P2	■	■	■	■
	P3	■	■	■	■
	P4	■	■	■	■
M	**M1**	■	■	■	■
	M2	■	■	■	■
	M3	■	■	■	■
	M4				
K	**K1**	■	■	■	■
	K2	■	■	■	■
	K3	■	■	■	■
	K4	■	■	■	■
	K5	■	■	■	■
N	**N1**	■	■	■	■
	N2	■	■	■	■
	N3	■	■	■	■
	N4	■	■	■	■
	N5				
S	**S1**	■	■	■	■
	S2	■	■	■	■
	S3	■	■	■	■
	S4	■	■	■	■
H	**H1**	■	■	■	■
	H2	◪	◪	◪	◪
	H3	◪	◪	◪	◪
	H4				

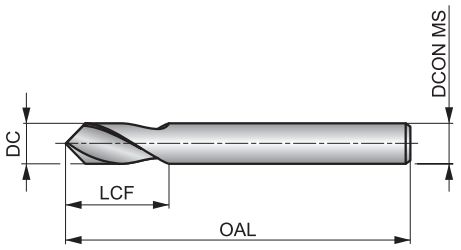
■ Uso primario ◪ Uso possibile

R123

DORMER

Punta da centro in metallo duro, con angolo di punta 90°

L'angolo di punta, progettato con precisione, fornisce una guida precisa alla successiva fase di foratura. Con angolo di punta a 90° aiuta l'autocentraggio e riduce le forze di taglio durante la foratura nel materiale.



HM	DORMER	1×D
90°	Bright	
λ 20-35°	R	DC h6

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■99 S	■111 S	■115 S	■85 S	■75 S	■66 S	■66 S	■53 S	■45 S	■40 S	■34 S	■27 S	■73 S	■61 S
M2.1	**M2.2**	**M3.1**	**M3.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K4.1**
■65 S	■53 S	■52 S	■45 S	■75 T	■56 T	■42 T	■68 T	■55 T	■44 T	■60 T	■46 T	■37 T	■55 T
K4.2	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**
■42 T	■31 T	■26 T	■22 T	■63 T	■47 T	■37 T	■200 V	■150 V	■100 V	■172 V	■155 V	■112 V	■423 V
N3.2	**N3.3**	**N4.1**	**N4.2**	**S1.1**	**S1.2**	**S1.3**	**S2.1**	**S2.2**	**S3.1**	**S3.2**	**S4.1**	**S4.2**	**H1.1**
■250 V	■125 V	■60 X	■100 V	■45 T	■35 T	■25 S	■40 S	■28 S	■30 S	■20 S	■23 S	■16 S	■56 S
H2.1	**H2.2**	**H3.1**	**H3.2**										
◪33 S	◪36 S	◪37 S	◪30 S										

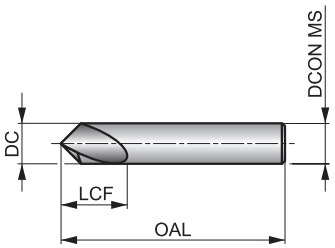
Product	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R1235.0	5.00	0.1969	16.0	62.0	5.00
R1236.0	6.00	0.2362	17.0	66.0	6.00
R1238.0	8.00	0.3150	22.0	79.0	8.00
R12310.0	10.00	0.3937	26.0	89.0	10.00
R12312.0	12.00	0.4724	30.0	102.0	12.00
R12316.0	16.00	0.6299	34.0	115.0	16.00
R12320.0	20.00	0.7874	40.0	131.0	20.00

R6011

DORMER

Punta da centro in metallo duro, con angolo di punta 90°, rivestita TiAlN

L'angolo di punta, progettato con precisione, fornisce una guida precisa alla successiva fase di foratura. Con angolo di punta a 90° aiuta l'autocentraggio e riduce le forze di taglio durante la foratura nel materiale. Il rivestimento TiAlN migliora le prestazioni e prolunga la durata dell'utensile. Adatta per forare molti materiali.



HM	DORMER	1×D
90°	TiAlN	DIN 6535HA
λ 20-35°	R	DC h6

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■119 S	■134 S	■138 S	■102 S	■90 S	■80 S	■81 S	■65 S	■55 S	■48 S	■41 S	■34 S	■82 S	■70 S
M2.1	**M2.2**	**M3.1**	**M3.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K4.1**
■73 S	■60 S	■58 S	■50 S	■80 T	■59 T	■44 T	■86 T	■70 T	■56 T	■76 T	■58 T	■47 T	■71 T
K4.2	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**
■53 T	■39 T	■33 T	■28 T	■80 T	■60 T	■46 T	■200 V	■150 V	■100 V	■172 V	■155 V	■112 V	■423 V
N3.2	**N3.3**	**N4.1**	**N4.2**	**S1.1**	**S1.2**	**S1.3**	**S2.1**	**S2.2**	**S3.1**	**S3.2**	**S4.1**	**S4.2**	**H1.1**
■250 V	■125 V	■60 X	■100 V	■55 T	■45 T	■35 S	■53 S	■42 S	■40 S	■30 S	■31 S	■24 S	■56 S
H2.1	**H2.2**	**H3.1**	**H3.2**										
◪33 S	◪36 S	◪37 S	◪30 S										

DCON MS tolleranza h6.

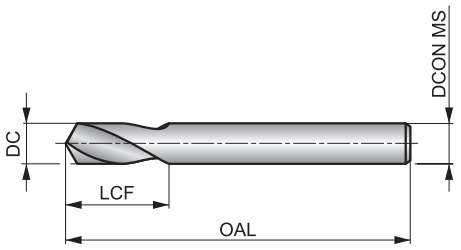
Product	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)	(mm)	(mm)	(mm)
R60116.0	6.00	0.2362	16.0	50.0	6.00
R601110.0	10.00	0.3937	25.0	70.0	10.00
R601116.0	16.00	0.6299	26.0	90.0	16.00

R122

DORMER

Punta da centro in metallo duro, con angolo di punta 120°

L'angolo di punta, progettato con precisione, fornisce una guida precisa alla successiva fase di foratura. Con angolo di punta a 120° aiuta l'autocentraggio e riduce le forze di taglio durante la foratura nel materiale.



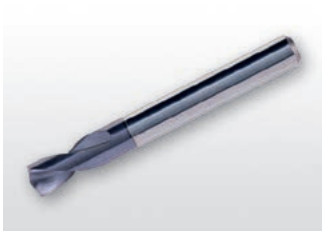
HM	DORMER	1×D
120°	Bright	
λ 20-35°	R	DC h6

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■ 99 S	■ 111 S	■ 115 S	■ 85 S	■ 75 S	■ 66 S	■ 66 S	■ 53 S	■ 45 S	■ 40 S	■ 34 S	■ 27 S	■ 73 S	■ 61 S
M2.1	M2.2	M3.1	M3.2	K1.1	K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K4.1
■ 65 S	■ 53 S	■ 52 S	■ 45 S	■ 75 T	■ 56 T	■ 42 T	■ 68 T	■ 55 T	■ 44 T	■ 60 T	■ 46 T	■ 37 T	■ 55 T
K4.2	K4.3	K4.4	K4.5	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3	N2.1	N2.2	N2.3	N3.1
■ 42 T	■ 31 T	■ 26 T	■ 22 T	■ 63 T	■ 47 T	■ 37 T	■ 200 V	■ 150 V	■ 100 V	■ 172 V	■ 155 V	■ 112 V	■ 423 V
N3.2	N3.3	N4.1	N4.2	S1.1	S1.2	S1.3	S2.1	S2.2	S3.1	S3.2	S4.1	S4.2	H1.1
■ 250 V	■ 125 V	■ 60 X	■ 100 V	■ 45 T	■ 35 T	■ 25 S	■ 40 S	■ 28 S	■ 30 S	■ 20 S	■ 23 S	■ 16 S	■ 56 S
H2.1	H2.2	H3.1	H3.2										
◪ 33 S	◪ 36 S	◪ 37 S	◪ 30 S										

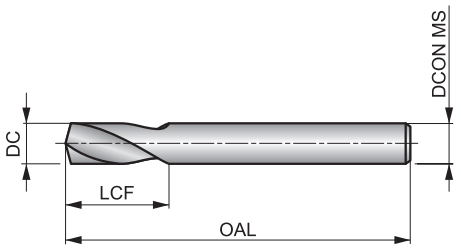
Product	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R1225.0	5.00	0.1969	16.0	62.0	5.00
R1226.0	6.00	0.2362	17.0	66.0	6.00
R1228.0	8.00	0.3150	22.0	79.0	8.00
R12210.0	10.00	0.3937	26.0	89.0	10.00
R12212.0	12.00	0.4724	30.0	102.0	12.00
R12216.0	16.00	0.6299	34.0	115.0	16.00
R12220.0	20.00	0.7874	40.0	131.0	20.00

R125



Punta da centro in metallo duro, con angolo di punta 150°, rivestita TiAlN

L'angolo di punta, progettato con precisione, fornisce una guida precisa alla successiva fase di foratura. Con angolo di punta a 150° aiuta l'autocentraggio e riduce le forze di taglio durante la foratura nel materiale. Il rivestimento TiAlN migliora le prestazioni e prolunga la durata dell'utensile. Adatto per forare molti materiali.



HM	DORMER	1×D
150°	TiAlN	
λ 20-35°	R	DC h6

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■ 119 S	■ 134 S	■ 138 S	■ 102 S	■ 90 S	■ 80 S	■ 81 S	■ 65 S	■ 55 S	■ 48 S	■ 41 S	■ 34 S	■ 82 S	■ 70 S
M2.1	**M2.2**	**M3.1**	**M3.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K4.1**
■ 73 S	■ 60 S	■ 58 S	■ 50 S	■ 80 T	■ 59 T	■ 44 T	■ 86 T	■ 70 T	■ 56 T	■ 76 T	■ 58 T	■ 47 T	■ 71 T
K4.2	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**
■ 53 T	■ 39 T	■ 33 T	■ 28 T	■ 80 T	■ 60 T	■ 46 T	■ 200 V	■ 150 V	■ 100 V	■ 172 V	■ 155 V	■ 112 V	■ 423 V
N3.2	**N3.3**	**N4.1**	**N4.2**	**S1.1**	**S1.2**	**S1.3**	**S2.1**	**S2.2**	**S3.1**	**S3.2**	**S4.1**	**S4.2**	**H1.1**
■ 250 V	■ 125 V	■ 60 X	■ 100 V	■ 55 T	■ 45 T	■ 35 S	■ 53 S	■ 42 S	■ 40 S	■ 30 S	■ 31 S	■ 24 S	■ 56 S
H2.1	**H2.2**	**H3.1**	**H3.2**										
◪ 33 S	◪ 36 S	◪ 37 S	◪ 30 S										

DCON MS tolleranza h6.

Product	DC	LCF	OAL	DCON MS
	(mm)	(mm)	(mm)	(mm)
R1255.0	5.00	16.0	62.0	5.00
R1256.0	6.00	17.0	66.0	6.00
R1258.0	8.00	22.0	79.0	8.00
R12510.0	10.00	26.0	89.0	10.00
R12512.0	12.00	30.0	102.0	12.00
R12516.0	16.00	34.0	115.0	16.00

Codice materiale (BMC)	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM			
Gruppo standard di base (BSG)	DIN 6539	DIN 338	DIN 6537K	DIN 6537K	DIN 6537L	DIN 6537L	DORMER	DIN 6537K	DIN 6537L	DORMER			
Lunghezza utilizzabile (ULDR)	2.5×D	4×D	3×D	3×D	5×D	5×D	8×D	3×D	5×D	3×D			
Angolo di applicazione	130°	130°	140°	140°	140°	140°	140°	140°	140°	90°			
Rivestimento	TiN	TiN	TiAlN	TiAlN	TiAlN	TiAlN	TiAlN	TiAlN	TiAlN	TiAlN			
Codolo			DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA			
Forma a spirale	λ 20-35°	λ 20-35°	CTW	CTW	CTW	CTW	CTW	CTW	CTW	λ 20-35°			
Direzione di taglio	R	R	R	R	R	R	R	R	R	R			
Raffreddamento (CSP)													
	CDX	CDX	FORCE X	FORCE X	FORCE X	FORCE X	FORCE X	FORCE M	FORCE M				
Codice Famiglia Prodotto	R520	R510	R458	R457	R454	R453	R459	R467	R463	R7131			
Gamma diametri di taglio PSF	3.00 - 16.50	3.00 - 14.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	3.00 - 16.00	3.00 - 16.00	3.00 - 16.00	3.30 - 10.40			
	188	190	191	195	199	203	207	210	213	216			
P	P1	■	■	■	■	■	■	■			■			
	P2	■	■	■	■	■	■	■			■			
	P3	■	■	■	■	■	■	■			■			
	P4	■	■	■	■	■	■	■			■			
M	M1	◪	◪	◪	◪	◪	◪	◪	■	■	■			
	M2	◪	◪	◪	◪	◪	◪	◪	■	■	■			
	M3			◪	◪	◪	◪	◪	■	■	■			
	M4			◪	◪	◪	◪	◪	■	■	■			
K	K1	■	■	■	■	■	■	■			■			
	K2	■	■	■	■	■	■	■			■			
	K3	■	■	■	■	■	■	■			■			
	K4	■	■	■	■	■	■	■			■			
	K5	■	■	■	■	■	■	■			■			
N	N1	■	■	■	■	■	■	◪			■			
	N2	■	■	■	■	■	■	■			■			
	N3			■	■	■	■	◪			■			
	N4	■	■											
	N5													
S	S1	◪	◪	◪	■	◪	■		■	■				
	S2								◪	◪				
	S3								◪	◪				
	S4								◪	◪				
H	H1	◪	◪	■	■	■	■							
	H2	◪	◪	◪	◪	◪	◪							
	H3	◪	◪	◪	◪	◪	◪							
	H4													

■ Uso primario ◪ Uso possibile

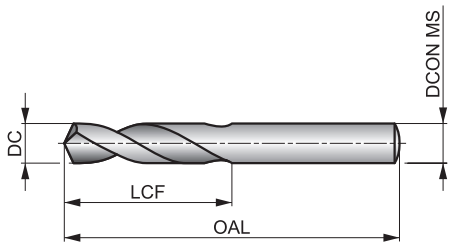
R520

DORMER

CDX punta serie extra corta in metallo duro, rivestita TiN

Punta serie extra corta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H8). L'angolo di punta di 130° aiuta l'autocentratura e riduce le forze di taglio. Il rivestimento TiN migliora le prestazioni e prolunga la durata dell'utensile. Adatto a tutte le macchine CNC e molti materiali.

CDX



HM	DIN 6539	2.5×D
130°	TiN	
λ20-35°	R	DC h7

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■119 X	■134 X	■138 X	■102 X	■90 X	■80 X	■81 X	■65 X	■55 X	■48 X	■41 X	■34 W	◪69 W	◪58 W
M2.1	**M2.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**
◪61 W	◪50 W	■90 Y	■67 Y	■50 Y	■80 X	■65 X	■52 X	■71 X	■54 X	■44 X	■66 X	■49 X	■36 X
K4.4	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N4.1**	**N4.2**	**S1.1**
■31 X	■26 X	■74 X	■56 X	■43 X	■225 Z	■169 Z	■113 Z	■231 Y	■208 Y	■150 Y	■75 Z	■115 V	◪60 W
S1.2	**S1.3**	**H1.1**	**H2.1**	**H2.2**	**H3.1**	**H3.2**							
◪45 V	◪35 U	◪65 U	◪38 U	◪36 T	◪43 U	◪35 U							

DCON MS tolleranza h7.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R5203.0	–	3.00	0.1181	16.0	46.0	3.00
R5203.1	–	3.10	0.1220	18.0	49.0	3.10
R5201/8	1/8	3.18	0.1250	18.0	49.0	3.18
R5203.2	–	3.20	0.1260	18.0	49.0	3.20
R5203.3	–	3.30	0.1299	18.0	49.0	3.30
R5203.4	–	3.40	0.1339	20.0	52.0	3.40
R5203.5	–	3.50	0.1378	20.0	52.0	3.50
R5203.6	–	3.60	0.1417	20.0	52.0	3.60
R5203.7	–	3.70	0.1457	20.0	52.0	3.70
R5203.8	–	3.80	0.1496	22.0	55.0	3.80
R5203.9	–	3.90	0.1535	22.0	55.0	3.90
R5204.0	–	4.00	0.1575	22.0	55.0	4.00
R5204.1	–	4.10	0.1614	22.0	55.0	4.10
R5204.2	–	4.20	0.1654	22.0	55.0	4.20
R5204.3	–	4.30	0.1693	24.0	58.0	4.30
R5204.4	–	4.40	0.1732	24.0	58.0	4.40
R5204.5	–	4.50	0.1772	24.0	58.0	4.50
R5204.6	–	4.60	0.1811	24.0	58.0	4.60
R5204.7	–	4.70	0.1850	24.0	58.0	4.70
R5204.8	–	4.80	0.1890	26.0	62.0	4.80
R5204.9	–	4.90	0.1929	26.0	62.0	4.90
R5205.0	–	5.00	0.1969	26.0	62.0	5.00
R5205.1	–	5.10	0.2008	26.0	62.0	5.10
R5205.2	–	5.20	0.2047	26.0	62.0	5.20
R5205.3	–	5.30	0.2087	26.0	62.0	5.30

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R5205.4	–	5.40	0.2126	28.0	66.0	5.40
R5205.5	–	5.50	0.2165	28.0	66.0	5.50
R5205.6	–	5.60	0.2205	28.0	66.0	5.60
R5205.8	–	5.80	0.2283	28.0	66.0	5.80
R5205.9	–	5.90	0.2323	28.0	66.0	5.90
R5206.0	–	6.00	0.2362	28.0	66.0	6.00
R5206.1	–	6.10	0.2402	31.0	70.0	6.10
R5206.2	–	6.20	0.2441	31.0	70.0	6.20
R5206.3	–	6.30	0.2480	31.0	70.0	6.30
R5201/4	1/4	6.35	0.2500	31.0	70.0	6.35
R5206.4	–	6.40	0.2520	31.0	70.0	6.40
R5206.5	–	6.50	0.2559	31.0	70.0	6.50
R5206.6	–	6.60	0.2598	31.0	70.0	6.60
R5206.7	–	6.70	0.2638	31.0	70.0	6.70
R5206.8	–	6.80	0.2677	34.0	74.0	6.80
R5206.9	–	6.90	0.2717	34.0	74.0	6.90
R5207.0	–	7.00	0.2756	34.0	74.0	7.00
R5207.1	–	7.10	0.2795	34.0	74.0	7.10
R5207.2	–	7.20	0.2835	34.0	74.0	7.20
R5207.3	–	7.30	0.2874	34.0	74.0	7.30
R5207.4	–	7.40	0.2913	34.0	74.0	7.40
R5207.5	–	7.50	0.2953	34.0	74.0	7.50
R5207.6	–	7.60	0.2992	37.0	79.0	7.60
R5207.7	–	7.70	0.3031	37.0	79.0	7.70
R5207.8	–	7.80	0.3071	37.0	79.0	7.80

Product	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
R5205/16	5/16	7.94	0.3126	37.0	79.0	7.94
R5208.0	–	8.00	0.3150	37.0	79.0	8.00
R5208.1	–	8.10	0.3189	37.0	79.0	8.10
R5208.2	–	8.20	0.3228	37.0	79.0	8.20
R5208.3	–	8.30	0.3268	37.0	79.0	8.30
R5208.4	–	8.40	0.3307	37.0	79.0	8.40
R5208.5	–	8.50	0.3346	37.0	79.0	8.50
R5208.6	–	8.60	0.3386	40.0	84.0	8.60
R5208.7	–	8.70	0.3425	40.0	84.0	8.70
R5208.8	–	8.80	0.3465	40.0	84.0	8.80
R5209.0	–	9.00	0.3543	40.0	84.0	9.00
R5209.1	–	9.10	0.3583	40.0	84.0	9.10
R5209.3	–	9.30	0.3661	40.0	84.0	9.30
R5209.5	–	9.50	0.3740	40.0	84.0	9.50
R5203/8	3/8	9.52	0.3748	43.0	89.0	9.52
R5209.6	–	9.60	0.3780	43.0	89.0	9.60
R5209.7	–	9.70	0.3819	43.0	89.0	9.70
R5209.8	–	9.80	0.3858	43.0	89.0	9.80
R52010.0	–	10.00	0.3937	43.0	89.0	10.00
R52010.1	–	10.10	0.3976	43.0	89.0	10.10
R52010.2	–	10.20	0.4016	43.0	89.0	10.20

Product	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
R52010.3	–	10.30	0.4055	43.0	89.0	10.30
R52010.4	–	10.40	0.4094	43.0	89.0	10.40
R52010.5	–	10.50	0.4134	43.0	89.0	10.50
R52011.0	–	11.00	0.4331	47.0	95.0	11.00
R5207/16	7/16	11.11	0.4374	47.0	95.0	11.11
R52011.2	–	11.20	0.4409	47.0	95.0	11.20
R52011.5	–	11.50	0.4528	47.0	95.0	11.50
R52012.0	–	12.00	0.4724	51.0	102.0	12.00
R52012.5	–	12.50	0.4921	51.0	102.0	12.50
R5201/2	1/2	12.70	0.5000	51.0	102.0	12.70
R52013.0	–	13.00	0.5118	51.0	102.0	13.00
R52013.5	–	13.50	0.5315	54.0	107.0	13.50
R52014.0	–	14.00	0.5512	54.0	107.0	14.00
R52014.2	–	14.20	0.5591	56.0	111.0	14.20
R52014.25	–	14.25	0.5610	56.0	111.0	14.25
R52014.5	–	14.50	0.5709	56.0	111.0	14.50
R52015.0	–	15.00	0.5906	56.0	111.0	15.00
R52015.1	–	15.10	0.5945	58.0	115.0	15.10
R5205/8	5/8	15.88	0.6252	58.0	115.0	15.88
R52016.0	–	16.00	0.6299	58.0	115.0	16.00
R52016.5	–	16.50	0.6496	60.0	119.0	16.50

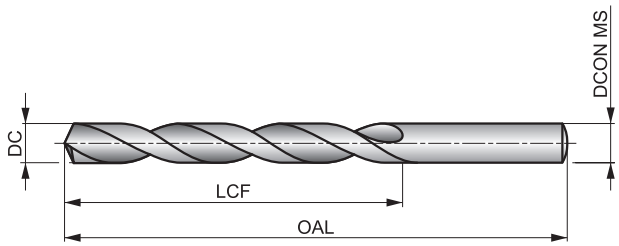
R510

DORMER

CDX Punta in metallo duro integrale serie corta, rivestita TiN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H8). L'angolo di punta di 130° aiuta l'autocentratura e riduce le forze di taglio. Il rivestimento TiN migliora le prestazioni e prolunga la durata dell'utensile. Adatta per macchine CNC e molti materiali.

CDX



HM	DIN 338	4×D
130°	TiN	
λ 20-35°	R	DC h7

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■ 119 W	■ 134 W	■ 138 W	■ 102 W	■ 90 W	■ 80 V	■ 81 W	■ 65 W	■ 55 V	■ 48 W	■ 41 V	■ 34 V	◪ 69 V	◪ 58 V
M2.1	M2.2	K1.1	K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K4.1	K4.2	K4.3
◪ 61 V	◪ 50 V	■ 90 X	■ 67 X	■ 50 X	■ 80 W	■ 65 W	■ 52 W	■ 71 W	■ 54 W	■ 44 W	■ 66 W	■ 49 W	■ 36 W
K4.4	K4.5	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3	N2.1	N2.2	N2.3	N4.1	N4.2	S1.1
■ 31 W	■ 26 W	■ 74 W	■ 56 W	■ 43 W	■ 225 Y	■ 169 Y	■ 113 Y	■ 231 X	■ 208 X	■ 150 X	■ 75 X	■ 115 V	◪ 45 V
H1.1	H2.1	H2.2	H3.1	H3.2									
◪ 65 T	◪ 38 T	◪ 36 S	◪ 43 T	◪ 35 T									

DCON MS tolleranza h7.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R5103.0	–	3.00	0.1181	33.0	61.0	3.00
R5101/8	1/8	3.18	0.1250	36.0	65.0	3.18
R5103.2	–	3.20	0.1260	36.0	65.0	3.20
R5103.3	–	3.30	0.1299	36.0	65.0	3.30
R5103.4	–	3.40	0.1339	39.0	70.0	3.40
R5103.5	–	3.50	0.1378	39.0	70.0	3.50
R5103.7	–	3.70	0.1457	39.0	70.0	3.70
R5103.9	–	3.90	0.1535	43.0	75.0	3.90
R5104.0	–	4.00	0.1575	43.0	75.0	4.00
R5104.1	–	4.10	0.1614	43.0	75.0	4.10
R5104.2	–	4.20	0.1654	43.0	75.0	4.20
R5104.3	–	4.30	0.1693	47.0	80.0	4.30
R5104.5	–	4.50	0.1772	47.0	80.0	4.50
R5104.7	–	4.70	0.1850	47.0	80.0	4.70
R5103/16	3/16	4.76	0.1874	52.0	86.0	4.76
R5104.9	–	4.90	0.1929	52.0	86.0	4.90
R5105.0	–	5.00	0.1969	52.0	86.0	5.00
R5105.1	–	5.10	0.2008	52.0	86.0	5.10
R5105.5	–	5.50	0.2165	57.0	93.0	5.50
R5105.6	–	5.60	0.2205	57.0	93.0	5.60
R5105.7	–	5.70	0.2244	57.0	93.0	5.70
R5106.0	–	6.00	0.2362	57.0	93.0	6.00
R5101/4	1/4	6.35	0.2500	63.0	101.0	6.35
R5106.5	–	6.50	0.2559	63.0	101.0	6.50
R5106.6	–	6.60	0.2598	63.0	101.0	6.60
R5106.8	–	6.80	0.2677	69.0	109.0	6.80
R5107.0	–	7.00	0.2756	69.0	109.0	7.00
R5107.3	–	7.30	0.2874	69.0	109.0	7.30

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R5107.4	–	7.40	0.2913	69.0	109.0	7.40
R5107.5	–	7.50	0.2953	69.0	109.0	7.50
R5107.8	–	7.80	0.3071	75.0	117.0	7.80
R5105/16	5/16	7.94	0.3126	75.0	117.0	7.94
R5108.0	–	8.00	0.3150	75.0	117.0	8.00
R5108.5	–	8.50	0.3346	75.0	117.0	8.50
R5108.7	–	8.70	0.3425	81.0	125.0	8.70
R5108.8	–	8.80	0.3465	81.0	125.0	8.80
R5109.0	–	9.00	0.3543	81.0	125.0	9.00
R5109.2	–	9.20	0.3622	81.0	125.0	9.20
R5109.3	–	9.30	0.3661	81.0	125.0	9.30
R5109.5	–	9.50	0.3740	81.0	125.0	9.50
R5103/8	3/8	9.52	0.3748	87.0	133.0	9.52
R5109.9	–	9.90	0.3898	87.0	133.0	9.90
R51010.0	–	10.00	0.3937	87.0	133.0	10.00
R51010.2	–	10.20	0.4016	87.0	133.0	10.20
R51010.3	–	10.30	0.4055	87.0	133.0	10.30
R51010.4	–	10.40	0.4094	87.0	133.0	10.40
R51010.5	–	10.50	0.4134	87.0	133.0	10.50
R51010.8	–	10.80	0.4252	94.0	142.0	10.80
R51011.0	–	11.00	0.4331	94.0	142.0	11.00
R5107/16	7/16	11.11	0.4374	94.0	142.0	11.11
R51011.2	–	11.20	0.4409	94.0	142.0	11.20
R51011.5	–	11.50	0.4528	94.0	142.0	11.50
R51012.0	–	12.00	0.4724	101.0	151.0	12.00
R5101/2	1/2	12.70	0.5000	101.0	151.0	12.70
R51013.0	–	13.00	0.5118	101.0	151.0	13.00
R51014.0	–	14.00	0.5512	108.0	160.0	14.00

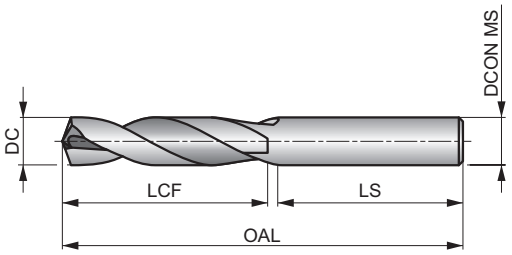
R458

DORMER

FORCE X punta in metallo duro integrale 3xD, rivestita TiAlN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H9). Costruzione autocentrante con angolo di punta 140° a 4 facce e eliche CTW per velocità di penetrazione migliorate. Il rivestimento TiAlN aumenta la durezza superficiale e migliora la durata dell'utensile.

FORCE X



HM | DIN 6537K | 3×D

140° | TiAlN | DIN 6535HA

CTW | R | DC m7

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■ 143 W	■ 160 W	■ 166 W	■ 122 W	■ 108 W	■ 95 V	■ 106 V	■ 86 V	■ 72 V	■ 63 V	■ 54 V	■ 44 U	◪ 60 U	◪ 51 U
M2.1	**M2.2**	**M2.3**	**M3.1**	**M3.2**	**M3.3**	**M4.1**	**M4.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**
◪ 54 U	◪ 44 U	◪ 37 T	◪ 33 T	◪ 28 T	◪ 26 T	◪ 24 T	◪ 21 T	■ 88 W	■ 65 W	■ 49 W	■ 78 V	■ 64 V	■ 51 V
K3.1	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**
■ 70 V	■ 54 V	■ 43 V	■ 65 V	■ 49 V	■ 36 V	■ 30 V	■ 26 V	■ 73 V	■ 55 V	■ 42 V	■ 200 W	■ 150 W	■ 100 W
N2.1	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**S1.1**	**S1.2**	**S1.3**	**H1.1**	**H2.1**	**H2.2**	**H3.1**	**H3.2**
■ 246 V	■ 222 V	■ 160 V	■ 298 V	■ 176 V	■ 88 V	◪ 44 U	◪ 36 U	◪ 32 T	■ 45 U	◪ 26 U	◪ 24 U	◪ 30 U	◪ 24 U

DCON MS tolleranza h6.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	LS (mm)	DCON MS (mm)
R4583.0	–	3.00	0.1181	20.0	62.0	36.0	6.00
R4583.1	–	3.10	0.1220	20.0	62.0	36.0	6.00
R4581/8	1/8	3.18	0.1250	20.0	62.0	36.0	6.00
R4583.2	–	3.20	0.1260	20.0	62.0	36.0	6.00
R458N30	N30	3.26	0.1283	20.0	62.0	36.0	6.00
R4583.3	–	3.30	0.1299	20.0	62.0	36.0	6.00
R4583.4	–	3.40	0.1339	20.0	62.0	36.0	6.00
R458N29	N29	3.45	0.1360	20.0	62.0	36.0	6.00
R4583.5	–	3.50	0.1378	20.0	62.0	36.0	6.00
R458N28	N28	3.57	0.1406	20.0	62.0	36.0	6.00
R4589/64	9/64	3.57	0.1406	20.0	62.0	36.0	6.00
R4583.6	–	3.60	0.1417	20.0	62.0	36.0	6.00
R458N27	N27	3.66	0.1441	20.0	62.0	36.0	6.00
R4583.7	–	3.70	0.1457	20.0	62.0	36.0	6.00
R4583.73	–	3.73	0.1469	24.0	66.0	36.0	6.00
R458N26	N26	3.73	0.1469	24.0	66.0	36.0	6.00
R458N25	N25	3.80	0.1496	24.0	66.0	36.0	6.00
R4583.8	–	3.80	0.1496	24.0	66.0	36.0	6.00
R458N24	N24	3.86	0.1520	24.0	66.0	36.0	6.00
R4583.9	–	3.90	0.1535	24.0	66.0	36.0	6.00
R458N23	N23	3.91	0.1539	24.0	66.0	36.0	6.00
R4585/32	5/32	3.97	0.1563	24.0	66.0	36.0	6.00
R458N22	N22	3.99	0.1571	24.0	66.0	36.0	6.00
R4584.0	–	4.00	0.1575	24.0	66.0	36.0	6.00
R458N21	N21	4.04	0.1591	24.0	66.0	36.0	6.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R458N20	N20	4.09	0.1610	24.0	66.0	36.0	6.00
R4584.1	–	4.10	0.1614	24.0	66.0	36.0	6.00
R4584.2	–	4.20	0.1654	24.0	66.0	36.0	6.00
R458N19	N19	4.22	0.1661	24.0	66.0	36.0	6.00
R4584.3	–	4.30	0.1693	24.0	66.0	36.0	6.00
R458N18	N18	4.31	0.1697	24.0	66.0	36.0	6.00
R45811/64	11/64	4.37	0.1719	24.0	66.0	36.0	6.00
R458N17	N17	4.39	0.1728	24.0	66.0	36.0	6.00
R4584.4	–	4.40	0.1732	24.0	66.0	36.0	6.00
R4584.5	–	4.50	0.1772	24.0	66.0	36.0	6.00
R458N16	N16	4.50	0.1772	24.0	66.0	36.0	6.00
R458N15	N15	4.57	0.1799	24.0	66.0	36.0	6.00
R4584.6	–	4.60	0.1811	24.0	66.0	36.0	6.00
R458N14	N14	4.62	0.1819	24.0	66.0	36.0	6.00
R458N13	N13	4.70	0.1850	24.0	66.0	36.0	6.00
R4584.7	–	4.70	0.1850	24.0	66.0	36.0	6.00
R4583/16	3/16	4.76	0.1875	28.0	66.0	36.0	6.00
R4584.8	–	4.80	0.1890	28.0	66.0	36.0	6.00
R458N12	N12	4.80	0.1890	28.0	66.0	36.0	6.00
R458N11	N11	4.85	0.1909	28.0	66.0	36.0	6.00
R4584.9	–	4.90	0.1929	28.0	66.0	36.0	6.00
R458N10	N10	4.92	0.1937	28.0	66.0	36.0	6.00
R458N9	N9	4.98	0.1961	28.0	66.0	36.0	6.00
R4585.0	–	5.00	0.1969	28.0	66.0	36.0	6.00
R458N8	N8	5.06	0.1992	28.0	66.0	36.0	6.00
R4585.1	–	5.10	0.2008	28.0	66.0	36.0	6.00
R458N7	N7	5.11	0.2010	28.0	66.0	36.0	6.00
R45813/64	13/64	5.16	0.2031	28.0	66.0	36.0	6.00
R458N6	N6	5.18	0.2039	28.0	66.0	36.0	6.00
R4585.2	–	5.20	0.2047	28.0	66.0	36.0	6.00
R458N5	N5	5.22	0.2055	28.0	66.0	36.0	6.00
R4585.3	–	5.30	0.2087	28.0	66.0	36.0	6.00
R458N4	N4	5.31	0.2091	28.0	66.0	36.0	6.00
R4585.4	–	5.40	0.2126	28.0	66.0	36.0	6.00
R458N3	N3	5.41	0.2130	28.0	66.0	36.0	6.00
R4585.5	–	5.50	0.2165	28.0	66.0	36.0	6.00
R4587/32	7/32	5.56	0.2188	28.0	66.0	36.0	6.00
R4585.6	–	5.60	0.2205	28.0	66.0	36.0	6.00
R458N2	N2	5.61	0.2209	28.0	66.0	36.0	6.00
R4585.7	–	5.70	0.2244	28.0	66.0	36.0	6.00
R458N1	N1	5.79	0.2280	28.0	66.0	36.0	6.00
R4585.8	–	5.80	0.2283	28.0	66.0	36.0	6.00
R4585.9	–	5.90	0.2323	28.0	66.0	36.0	6.00
R45815/64	15/64	5.95	0.2344	28.0	66.0	36.0	6.00
R4586.0	–	6.00	0.2362	28.0	66.0	36.0	6.00
R458B	B	6.05	0.2380	34.0	79.0	36.0	8.00
R4586.1	–	6.10	0.2402	34.0	79.0	36.0	8.00
R458C	C	6.15	0.2421	34.0	79.0	36.0	8.00
R4586.2	–	6.20	0.2441	34.0	79.0	36.0	8.00
R458D	D	6.25	0.2461	34.0	79.0	36.0	8.00
R4586.3	–	6.30	0.2480	34.0	79.0	36.0	8.00
R4581/4	1/4	6.35	0.2500	34.0	79.0	36.0	8.00
R4586.4	–	6.40	0.2520	34.0	79.0	36.0	8.00
R4586.5	–	6.50	0.2559	34.0	79.0	36.0	8.00
R458F	F	6.53	0.2571	34.0	79.0	36.0	8.00
R4586.6	–	6.60	0.2598	34.0	79.0	36.0	8.00
R458G	G	6.63	0.2610	34.0	79.0	36.0	8.00
R4586.7	–	6.70	0.2638	34.0	79.0	36.0	8.00
R45817/64	17/64	6.75	0.2656	34.0	79.0	36.0	8.00
R458H	H	6.76	0.2661	34.0	79.0	36.0	8.00
R4586.8	–	6.80	0.2677	34.0	79.0	36.0	8.00
R4586.9	–	6.90	0.2717	34.0	79.0	36.0	8.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R458I	I	6.91	0.2720	34.0	79.0	36.0	8.00
R4587.0	–	7.00	0.2756	34.0	79.0	36.0	8.00
R458J	J	7.04	0.2772	34.0	79.0	36.0	8.00
R4587.1	–	7.10	0.2795	41.0	79.0	36.0	8.00
R4589/32	9/32	7.14	0.2813	41.0	79.0	36.0	8.00
R4587.2	–	7.20	0.2835	41.0	79.0	36.0	8.00
R4587.3	–	7.30	0.2874	41.0	79.0	36.0	8.00
R458L	L	7.37	0.2902	41.0	79.0	36.0	8.00
R4587.4	–	7.40	0.2913	41.0	79.0	36.0	8.00
R4587.5	–	7.50	0.2953	41.0	79.0	36.0	8.00
R45819/64	19/64	7.54	0.2969	41.0	79.0	36.0	8.00
R4587.6	–	7.60	0.2992	41.0	79.0	36.0	8.00
R458N	N	7.67	0.3020	41.0	79.0	36.0	8.00
R4587.7	–	7.70	0.3031	41.0	79.0	36.0	8.00
R4587.8	–	7.80	0.3071	41.0	79.0	36.0	8.00
R4587.9	–	7.90	0.3110	41.0	79.0	36.0	8.00
R4585/16	5/16	7.94	0.3125	41.0	79.0	36.0	8.00
R4588.0	–	8.00	0.3150	41.0	79.0	36.0	8.00
R458O	O	8.03	0.3161	47.0	89.0	40.0	10.00
R4588.1	–	8.10	0.3189	47.0	89.0	40.0	10.00
R4588.2	–	8.20	0.3228	47.0	89.0	40.0	10.00
R4588.3	–	8.30	0.3268	47.0	89.0	40.0	10.00
R45821/64	21/64	8.33	0.3281	47.0	89.0	40.0	10.00
R4588.4	–	8.40	0.3307	47.0	89.0	40.0	10.00
R458Q	Q	8.43	0.3319	47.0	89.0	40.0	10.00
R4588.5	–	8.50	0.3346	47.0	89.0	40.0	10.00
R4588.6	–	8.60	0.3386	47.0	89.0	40.0	10.00
R458R	R	8.61	0.3390	47.0	89.0	40.0	10.00
R4588.7	–	8.70	0.3425	47.0	89.0	40.0	10.00
R45811/32	11/32	8.73	0.3438	47.0	89.0	40.0	10.00
R4588.8	–	8.80	0.3465	47.0	89.0	40.0	10.00
R458S	S	8.84	0.3480	47.0	89.0	40.0	10.00
R4588.9	–	8.90	0.3504	47.0	89.0	40.0	10.00
R4589.0	–	9.00	0.3543	47.0	89.0	40.0	10.00
R458T	T	9.09	0.3579	47.0	89.0	40.0	10.00
R4589.1	–	9.10	0.3583	47.0	89.0	40.0	10.00
R45823/64	23/64	9.13	0.3594	47.0	89.0	40.0	10.00
R4589.2	–	9.20	0.3622	47.0	89.0	40.0	10.00
R4589.3	–	9.30	0.3661	47.0	89.0	40.0	10.00
R458U	U	9.35	0.3681	47.0	89.0	40.0	10.00
R4589.4	–	9.40	0.3701	47.0	89.0	40.0	10.00
R4589.5	–	9.50	0.3740	47.0	89.0	40.0	10.00
R4583/8	3/8	9.53	0.3750	47.0	89.0	40.0	10.00
R458V	V	9.58	0.3772	47.0	89.0	40.0	10.00
R4589.6	–	9.60	0.3780	47.0	89.0	40.0	10.00
R4589.7	–	9.70	0.3819	47.0	89.0	40.0	10.00
R4589.8	–	9.80	0.3858	47.0	89.0	40.0	10.00
R4589.9	–	9.90	0.3898	47.0	89.0	40.0	10.00
R45825/64	25/64	9.92	0.3906	47.0	89.0	40.0	10.00
R45810.0	–	10.00	0.3937	47.0	89.0	40.0	10.00
R458X	X	10.08	0.3969	55.0	102.0	45.0	12.00
R45810.1	–	10.10	0.3976	55.0	102.0	45.0	12.00
R45810.2	–	10.20	0.4016	55.0	102.0	45.0	12.00
R458Y	Y	10.26	0.4039	55.0	102.0	45.0	12.00
R45810.3	–	10.30	0.4055	55.0	102.0	45.0	12.00
R45813/32	13/32	10.32	0.4063	55.0	102.0	45.0	12.00
R45810.4	–	10.40	0.4094	55.0	102.0	45.0	12.00
R45810.5	–	10.50	0.4134	55.0	102.0	45.0	12.00
R45810.6	–	10.60	0.4173	55.0	102.0	45.0	12.00
R45810.7	–	10.70	0.4213	55.0	102.0	45.0	12.00
R45827/64	27/64	10.72	0.4219	55.0	102.0	45.0	12.00
R45810.8	–	10.80	0.4252	55.0	102.0	45.0	12.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R45810.9	–	10.90	0.4291	55.0	102.0	45.0	12.00
R45811.0	–	11.00	0.4331	55.0	102.0	45.0	12.00
R45811.1	–	11.10	0.4370	55.0	102.0	45.0	12.00
R4587/16	7/16	11.11	0.4375	55.0	102.0	45.0	12.00
R45811.2	–	11.20	0.4409	55.0	102.0	45.0	12.00
R45811.3	–	11.30	0.4449	55.0	102.0	45.0	12.00
R45811.4	–	11.40	0.4488	55.0	102.0	45.0	12.00
R45811.5	–	11.50	0.4528	55.0	102.0	45.0	12.00
R45829/64	29/64	11.51	0.4531	55.0	102.0	45.0	12.00
R45811.6	–	11.60	0.4567	55.0	102.0	45.0	12.00
R45811.7	–	11.70	0.4606	55.0	102.0	45.0	12.00
R45811.8	–	11.80	0.4646	55.0	102.0	45.0	12.00
R45811.9	–	11.90	0.4685	55.0	102.0	45.0	12.00
R45815/32	15/32	11.91	0.4688	55.0	102.0	45.0	12.00
R45812.0	–	12.00	0.4724	55.0	102.0	45.0	12.00
R45812.1	–	12.10	0.4764	60.0	107.0	45.0	14.00
R45812.2	–	12.20	0.4803	60.0	107.0	45.0	14.00
R45831/64	31/64	12.30	0.4844	60.0	107.0	45.0	14.00
R45812.5	–	12.50	0.4921	60.0	107.0	45.0	14.00
R45812.7	–	12.70	0.5000	60.0	107.0	45.0	14.00
R4581/2	1/2	12.70	0.5000	60.0	107.0	45.0	14.00
R45812.8	–	12.80	0.5039	60.0	107.0	45.0	14.00
R45813.0	–	13.00	0.5118	60.0	107.0	45.0	14.00
R45833/64	33/64	13.10	0.5156	60.0	107.0	45.0	14.00
R45813.3	–	13.30	0.5236	60.0	107.0	45.0	14.00
R45817/32	17/32	13.49	0.5313	60.0	107.0	45.0	14.00
R45813.5	–	13.50	0.5315	60.0	107.0	45.0	14.00
R45813.8	–	13.80	0.5433	60.0	107.0	45.0	14.00
R45835/64	35/64	13.89	0.5469	60.0	107.0	45.0	14.00
R45814.0	–	14.00	0.5512	60.0	107.0	45.0	14.00
R45814.25	–	14.25	0.5610	65.0	115.0	48.0	16.00
R4589/16	9/16	14.29	0.5625	65.0	115.0	48.0	16.00
R45814.5	–	14.50	0.5709	65.0	115.0	48.0	16.00
R45837/64	37/64	14.68	0.5781	65.0	115.0	48.0	16.00
R45814.8	–	14.80	0.5827	65.0	115.0	48.0	16.00
R45815.0	–	15.00	0.5906	65.0	115.0	48.0	16.00
R45819/32	19/32	15.08	0.5938	65.0	115.0	48.0	16.00
R45815.1	–	15.10	0.5945	65.0	115.0	48.0	16.00
R45815.3	–	15.30	0.6024	65.0	115.0	48.0	16.00
R45839/64	39/64	15.48	0.6094	65.0	115.0	48.0	16.00
R45815.5	–	15.50	0.6102	65.0	115.0	48.0	16.00
R45815.8	–	15.80	0.6220	65.0	115.0	48.0	16.00
R4585/8	5/8	15.88	0.6250	65.0	115.0	48.0	16.00
R45816.0	–	16.00	0.6299	65.0	115.0	48.0	16.00
R45841/64	41/64	16.27	0.6406	73.0	123.0	48.0	18.00
R45816.5	–	16.50	0.6496	73.0	123.0	48.0	18.00
R45821/32	21/32	16.67	0.6563	73.0	123.0	48.0	18.00
R45817.0	–	17.00	0.6693	73.0	123.0	48.0	18.00
R45843/64	43/64	17.07	0.6720	73.0	123.0	48.0	18.00
R45811/16	11/16	17.46	0.6874	73.0	123.0	48.0	18.00
R45817.5	–	17.50	0.6890	73.0	123.0	48.0	18.00
R45817.8	–	17.80	0.7008	73.0	123.0	48.0	18.00
R45845/64	45/64	17.86	0.7031	73.0	123.0	48.0	18.00
R45818.0	–	18.00	0.7087	73.0	123.0	48.0	18.00
R45823/32	23/32	18.26	0.7189	79.0	131.0	50.0	20.00
R45818.5	–	18.50	0.7283	79.0	131.0	50.0	20.00
R45847/64	47/64	18.65	0.7343	79.0	131.0	50.0	20.00
R45819.0	–	19.00	0.7480	79.0	131.0	50.0	20.00
R4583/4	–	19.05	0.7500	79.0	131.0	50.0	20.00
R45819.5	–	19.50	0.7677	79.0	131.0	50.0	20.00
R45819.8	–	19.80	0.7795	79.0	131.0	50.0	20.00
R45820.0	–	20.00	0.7874	79.0	131.0	50.0	20.00

R457

DORMER

FORCE X punta in metallo duro integrale 3xD con fori passaggio refrigerante, rivestita TiAlN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H9). Costruzione autocentrante con angolo di punta 140° a 4 facce e eliche CTW per velocità di penetrazione migliorate. Con fori, per il passaggio interno del refrigerante, per migliorare l'evacuazione dei trucioli. Il rivestimento TiAlN aumenta la durezza superficiale e migliora la durata dell'utensile.

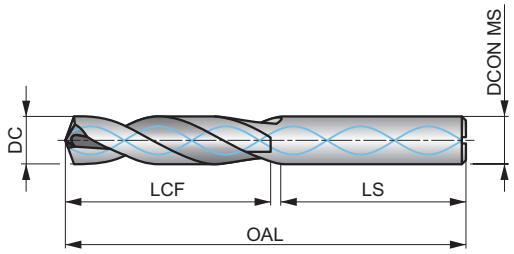
FORCE X

HM | DIN 6537K | 3×D

140° | TiAlN | DIN 6535HA

CTW | R

DC m7



Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■179 W	■200 W	■207 W	■153 W	■135 W	■119 V	■133 V	■107 V	■90 V	■79 V	■67 V	■55 U	◪75 V	◪64 V
M2.1	**M2.2**	**M2.3**	**M3.1**	**M3.2**	**M3.3**	**M4.1**	**M4.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**
◪67 V	◪55 V	◪46 U	◪41 V	◪35 V	◪32 V	◪30 U	◪26 U	■110 W	■81 W	■61 W	■98 V	■80 V	■64 V
K3.1	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**
■87 V	■67 V	■54 V	■81 V	■61 V	■45 V	■38 V	■32 V	■91 V	■69 V	■53 V	■250 W	■188 W	■125 W
N2.1	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**S1.1**	**S1.2**	**S1.3**	**H1.1**	**H2.1**	**H2.2**	**H3.1**	**H3.2**
■308 V	■277 V	■200 V	■373 W	■220 W	■110 W	■55 V	■45 V	■40 U	■56 U	◪33 U	◪30 U	◪37 U	◪30 U

DCON MS tolleranza h6.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	LS (mm)	DCON MS (mm)
R4573.0	–	3.00	0.1181	20.0	62.0	36.0	6.00
R4573.1	–	3.10	0.1220	20.0	62.0	36.0	6.00
R4571/8	1/8	3.18	0.1250	20.0	62.0	36.0	6.00
R4573.2	–	3.20	0.1260	20.0	62.0	36.0	6.00
R457N30	N30	3.26	0.1283	20.0	62.0	36.0	6.00
R4573.3	–	3.30	0.1299	20.0	62.0	36.0	6.00
R4573.4	–	3.40	0.1339	20.0	62.0	36.0	6.00
R457N29	N29	3.45	0.1360	20.0	62.0	36.0	6.00
R4573.5	–	3.50	0.1378	20.0	62.0	36.0	6.00
R457N28	N28	3.57	0.1406	20.0	62.0	36.0	6.00
R4579/64	9/64	3.57	0.1406	20.0	62.0	36.0	6.00
R4573.6	–	3.60	0.1417	20.0	62.0	36.0	6.00
R457N27	N27	3.66	0.1441	20.0	62.0	36.0	6.00
R4573.7	–	3.70	0.1457	20.0	62.0	36.0	6.00
R457N26	N26	3.73	0.1469	24.0	66.0	36.0	6.00
R457N25	N25	3.80	0.1496	24.0	66.0	36.0	6.00
R4573.8	–	3.80	0.1496	24.0	66.0	36.0	6.00
R457N24	N24	3.86	0.1520	24.0	66.0	36.0	6.00
R4573.9	–	3.90	0.1535	24.0	66.0	36.0	6.00
R457N23	N23	3.91	0.1539	24.0	66.0	36.0	6.00
R4575/32	5/32	3.97	0.1563	24.0	66.0	36.0	6.00
R457N22	N22	3.99	0.1571	24.0	66.0	36.0	6.00
R4574.0	–	4.00	0.1575	24.0	66.0	36.0	6.00
R457N21	N21	4.04	0.1591	24.0	66.0	36.0	6.00
R4574.05	–	4.05	0.1594	24.0	66.0	36.0	6.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R457N20	N20	4.09	0.1610	24.0	66.0	36.0	6.00
R4574.1	–	4.10	0.1614	24.0	66.0	36.0	6.00
R4574.2	–	4.20	0.1654	24.0	66.0	36.0	6.00
R4574.3	–	4.30	0.1693	24.0	66.0	36.0	6.00
R457N18	N18	4.31	0.1697	24.0	66.0	36.0	6.00
R45711/64	11/64	4.37	0.1719	24.0	66.0	36.0	6.00
R457N17	N17	4.39	0.1728	24.0	66.0	36.0	6.00
R4574.4	–	4.40	0.1732	24.0	66.0	36.0	6.00
R4574.5	–	4.50	0.1772	24.0	66.0	36.0	6.00
R457N16	N16	4.50	0.1772	24.0	66.0	36.0	6.00
R457N15	N15	4.57	0.1799	24.0	66.0	36.0	6.00
R4574.6	–	4.60	0.1811	24.0	66.0	36.0	6.00
R457N14	N14	4.62	0.1819	24.0	66.0	36.0	6.00
R4574.7	–	4.70	0.1850	24.0	66.0	36.0	6.00
R4573/16	3/16	4.76	0.1875	28.0	66.0	36.0	6.00
R4574.8	–	4.80	0.1890	28.0	66.0	36.0	6.00
R457N11	N11	4.85	0.1909	28.0	66.0	36.0	6.00
R4574.9	–	4.90	0.1929	28.0	66.0	36.0	6.00
R457N9	N9	4.98	0.1961	28.0	66.0	36.0	6.00
R4575.0	–	5.00	0.1969	28.0	66.0	36.0	6.00
R4575.05	–	5.05	0.1988	28.0	66.0	36.0	6.00
R457N8	N8	5.06	0.1992	28.0	66.0	36.0	6.00
R4575.1	–	5.10	0.2008	28.0	66.0	36.0	6.00
R457N7	N7	5.11	0.2010	28.0	66.0	36.0	6.00
R45713/64	13/64	5.16	0.2031	28.0	66.0	36.0	6.00
R457N6	N6	5.18	0.2039	28.0	66.0	36.0	6.00
R4575.2	–	5.20	0.2047	28.0	66.0	36.0	6.00
R457N5	N5	5.22	0.2055	28.0	66.0	36.0	6.00
R4575.3	–	5.30	0.2087	28.0	66.0	36.0	6.00
R457N4	N4	5.31	0.2091	28.0	66.0	36.0	6.00
R4575.4	–	5.40	0.2126	28.0	66.0	36.0	6.00
R457N3	N3	5.41	0.2130	28.0	66.0	36.0	6.00
R4575.5	–	5.50	0.2165	28.0	66.0	36.0	6.00
R4577/32	7/32	5.56	0.2188	28.0	66.0	36.0	6.00
R4575.6	–	5.60	0.2205	28.0	66.0	36.0	6.00
R457N2	N2	5.61	0.2209	28.0	66.0	36.0	6.00
R4575.7	–	5.70	0.2244	28.0	66.0	36.0	6.00
R457N1	N1	5.79	0.2280	28.0	66.0	36.0	6.00
R4575.8	–	5.80	0.2283	28.0	66.0	36.0	6.00
R4575.9	–	5.90	0.2323	28.0	66.0	36.0	6.00
R457A	A	5.94	0.2339	28.0	66.0	36.0	6.00
R45715/64	15/64	5.95	0.2344	28.0	66.0	36.0	6.00
R4576.0	–	6.00	0.2362	28.0	66.0	36.0	6.00
R457B	B	6.05	0.2380	34.0	79.0	36.0	8.00
R4576.05	–	6.05	0.2382	34.0	79.0	36.0	8.00
R4576.1	–	6.10	0.2402	34.0	79.0	36.0	8.00
R457C	C	6.15	0.2421	34.0	79.0	36.0	8.00
R4576.2	–	6.20	0.2441	34.0	79.0	36.0	8.00
R457D	D	6.25	0.2461	34.0	79.0	36.0	8.00
R4576.3	–	6.30	0.2480	34.0	79.0	36.0	8.00
R4571/4	1/4	6.35	0.2500	34.0	79.0	36.0	8.00
R4576.4	–	6.40	0.2520	34.0	79.0	36.0	8.00
R4576.5	–	6.50	0.2559	34.0	79.0	36.0	8.00
R457F	F	6.53	0.2571	34.0	79.0	36.0	8.00
R4576.6	–	6.60	0.2598	34.0	79.0	36.0	8.00
R457G	G	6.63	0.2610	34.0	79.0	36.0	8.00
R4576.7	–	6.70	0.2638	34.0	79.0	36.0	8.00
R45717/64	17/64	6.75	0.2656	34.0	79.0	36.0	8.00
R4576.8	–	6.80	0.2677	34.0	79.0	36.0	8.00
R4576.9	–	6.90	0.2717	34.0	79.0	36.0	8.00
R457I	I	6.91	0.2720	34.0	79.0	36.0	8.00
R4577.0	–	7.00	0.2756	34.0	79.0	36.0	8.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R457J	J	7.04	0.2772	41.0	79.0	36.0	8.00
R4577.1	–	7.10	0.2795	41.0	79.0	36.0	8.00
R4579/32	9/32	7.14	0.2813	41.0	79.0	36.0	8.00
R4577.2	–	7.20	0.2835	41.0	79.0	36.0	8.00
R4577.3	–	7.30	0.2874	41.0	79.0	36.0	8.00
R4577.4	–	7.40	0.2913	41.0	79.0	36.0	8.00
R4577.5	–	7.50	0.2953	41.0	79.0	36.0	8.00
R45719/64	19/64	7.54	0.2969	41.0	79.0	36.0	8.00
R4577.6	–	7.60	0.2992	41.0	79.0	36.0	8.00
R457N	N	7.67	0.3020	41.0	79.0	36.0	8.00
R4577.7	–	7.70	0.3031	41.0	79.0	36.0	8.00
R4577.8	–	7.80	0.3071	41.0	79.0	36.0	8.00
R4577.9	–	7.90	0.3110	41.0	79.0	36.0	8.00
R4575/16	5/16	7.94	0.3125	41.0	79.0	36.0	8.00
R4578.0	–	8.00	0.3150	41.0	79.0	36.0	8.00
R457O	O	8.03	0.3161	47.0	89.0	40.0	10.00
R4578.05	–	8.05	0.3169	47.0	89.0	40.0	10.00
R4578.1	–	8.10	0.3189	47.0	89.0	40.0	10.00
R4578.2	–	8.20	0.3228	47.0	89.0	40.0	10.00
R457P	P	8.20	0.3228	47.0	89.0	40.0	10.00
R4578.3	–	8.30	0.3268	47.0	89.0	40.0	10.00
R45721/64	21/64	8.33	0.3281	47.0	89.0	40.0	10.00
R4578.4	–	8.40	0.3307	47.0	89.0	40.0	10.00
R457Q	Q	8.43	0.3319	47.0	89.0	40.0	10.00
R4578.5	–	8.50	0.3346	47.0	89.0	40.0	10.00
R4578.6	–	8.60	0.3386	47.0	89.0	40.0	10.00
R457R	R	8.61	0.3390	47.0	89.0	40.0	10.00
R4578.7	–	8.70	0.3425	47.0	89.0	40.0	10.00
R45711/32	11/32	8.73	0.3438	47.0	89.0	40.0	10.00
R4578.8	–	8.80	0.3465	47.0	89.0	40.0	10.00
R457S	S	8.84	0.3480	47.0	89.0	40.0	10.00
R4578.9	–	8.90	0.3504	47.0	89.0	40.0	10.00
R4579.0	–	9.00	0.3543	47.0	89.0	40.0	10.00
R4579.1	–	9.10	0.3583	47.0	89.0	40.0	10.00
R45723/64	23/64	9.13	0.3594	47.0	89.0	40.0	10.00
R4579.2	–	9.20	0.3622	47.0	89.0	40.0	10.00
R4579.3	–	9.30	0.3661	47.0	89.0	40.0	10.00
R457U	U	9.35	0.3681	47.0	89.0	40.0	10.00
R4579.4	–	9.40	0.3701	47.0	89.0	40.0	10.00
R4579.5	–	9.50	0.3740	47.0	89.0	40.0	10.00
R4573/8	3/8	9.53	0.3750	47.0	89.0	40.0	10.00
R457V	V	9.58	0.3772	47.0	89.0	40.0	10.00
R4579.6	–	9.60	0.3780	47.0	89.0	40.0	10.00
R4579.7	–	9.70	0.3819	47.0	89.0	40.0	10.00
R4579.8	–	9.80	0.3858	47.0	89.0	40.0	10.00
R457W	W	9.80	0.3858	47.0	89.0	40.0	10.00
R4579.9	–	9.90	0.3898	47.0	89.0	40.0	10.00
R45725/64	25/64	9.92	0.3906	47.0	89.0	40.0	10.00
R45710.0	–	10.00	0.3937	47.0	89.0	40.0	10.00
R45710.05	–	10.05	0.3957	55.0	102.0	45.0	12.00
R457X	X	10.08	0.3969	55.0	102.0	45.0	12.00
R45710.1	–	10.10	0.3976	55.0	102.0	45.0	12.00
R45710.2	–	10.20	0.4016	55.0	102.0	45.0	12.00
R457Y	Y	10.26	0.4039	55.0	102.0	45.0	12.00
R45710.3	–	10.30	0.4055	55.0	102.0	45.0	12.00
R45713/32	13/32	10.32	0.4063	55.0	102.0	45.0	12.00
R45710.4	–	10.40	0.4094	55.0	102.0	45.0	12.00
R457Z	Z	10.49	0.4130	55.0	102.0	45.0	12.00
R45710.5	–	10.50	0.4134	55.0	102.0	45.0	12.00
R45710.6	–	10.60	0.4173	55.0	102.0	45.0	12.00
R45727/64	27/64	10.72	0.4219	55.0	102.0	45.0	12.00
R45710.8	–	10.80	0.4252	55.0	102.0	45.0	12.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R45711.0	–	11.00	0.4331	55.0	102.0	45.0	12.00
R4577/16	7/16	11.11	0.4375	55.0	102.0	45.0	12.00
R45711.2	–	11.20	0.4409	55.0	102.0	45.0	12.00
R45711.3	–	11.30	0.4449	55.0	102.0	45.0	12.00
R45711.4	–	11.40	0.4488	55.0	102.0	45.0	12.00
R45711.5	–	11.50	0.4528	55.0	102.0	45.0	12.00
R45729/64	29/64	11.51	0.4531	55.0	102.0	45.0	12.00
R45711.6	–	11.60	0.4567	55.0	102.0	45.0	12.00
R45711.8	–	11.80	0.4646	55.0	102.0	45.0	12.00
R45715/32	15/32	11.91	0.4688	55.0	102.0	45.0	12.00
R45712.0	–	12.00	0.4724	55.0	102.0	45.0	12.00
R45712.05	–	12.05	0.4744	60.0	107.0	45.0	14.00
R45712.1	–	12.10	0.4764	60.0	107.0	45.0	14.00
R45712.2	–	12.20	0.4803	60.0	107.0	45.0	14.00
R45731/64	31/64	12.30	0.4844	60.0	107.0	45.0	14.00
R45712.5	–	12.50	0.4921	60.0	107.0	45.0	14.00
R45712.7	–	12.70	0.5000	60.0	107.0	45.0	14.00
R4571/2	1/2	12.70	0.5000	60.0	107.0	45.0	14.00
R45712.8	–	12.80	0.5039	60.0	107.0	45.0	14.00
R45713.0	–	13.00	0.5118	60.0	107.0	45.0	14.00
R45733/64	33/64	13.10	0.5156	60.0	107.0	45.0	14.00
R45713.3	–	13.30	0.5236	60.0	107.0	45.0	14.00
R45717/32	17/32	13.49	0.5313	60.0	107.0	45.0	14.00
R45713.5	–	13.50	0.5315	60.0	107.0	45.0	14.00
R45713.8	–	13.80	0.5433	60.0	107.0	45.0	14.00
R45735/64	35/64	13.89	0.5469	60.0	107.0	45.0	14.00
R45714.0	–	14.00	0.5512	60.0	107.0	45.0	14.00
R45714.25	–	14.25	0.5610	65.0	115.0	48.0	16.00
R4579/16	9/16	14.29	0.5625	65.0	115.0	48.0	16.00
R45714.5	–	14.50	0.5709	65.0	115.0	48.0	16.00
R45737/64	37/64	14.68	0.5781	65.0	115.0	48.0	16.00
R45714.8	–	14.80	0.5827	65.0	115.0	48.0	16.00
R45715.0	–	15.00	0.5906	65.0	115.0	48.0	16.00
R45719/32	19/32	15.08	0.5938	65.0	115.0	48.0	16.00
R45715.1	–	15.10	0.5945	65.0	115.0	48.0	16.00
R45715.3	–	15.30	0.6024	65.0	115.0	48.0	16.00
R45739/64	39/64	15.48	0.6094	65.0	115.0	48.0	16.00
R45715.5	–	15.50	0.6102	65.0	115.0	48.0	16.00
R45715.8	–	15.80	0.6220	65.0	115.0	48.0	16.00
R4575/8	5/8	15.88	0.6250	65.0	115.0	48.0	16.00
R45716.0	–	16.00	0.6299	65.0	115.0	48.0	16.00
R45741/64	41/64	16.27	0.6406	73.0	123.0	48.0	18.00
R45716.5	–	16.50	0.6496	73.0	123.0	48.0	18.00
R45721/32	21/32	16.67	0.6563	73.0	123.0	48.0	18.00
R45717.0	–	17.00	0.6693	73.0	123.0	48.0	18.00
R45743/64	43/64	17.07	0.6720	73.0	123.0	48.0	18.00
R45711/16	11/16	17.46	0.6874	73.0	123.0	48.0	18.00
R45717.5	–	17.50	0.6890	73.0	123.0	48.0	18.00
R45745/64	45/64	17.86	0.7031	73.0	123.0	48.0	18.00
R45718.0	–	18.00	0.7087	73.0	123.0	48.0	18.00
R45723/32	23/32	18.26	0.7189	79.0	131.0	50.0	20.00
R45718.5	–	18.50	0.7283	79.0	131.0	50.0	20.00
R45747/64	47/64	18.65	0.7343	79.0	131.0	50.0	20.00
R45718.8	–	18.80	0.7402	79.0	131.0	50.0	20.00
R45719.0	–	19.00	0.7480	79.0	131.0	50.0	20.00
R4573/4	3/4	19.05	0.7500	79.0	131.0	50.0	20.00
R45719.5	–	19.50	0.7677	79.0	131.0	50.0	20.00
R45719.8	–	19.80	0.7795	79.0	131.0	50.0	20.00
R45720.0	–	20.00	0.7874	79.0	131.0	50.0	20.00

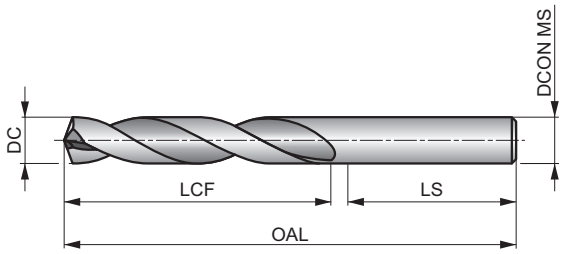
R454

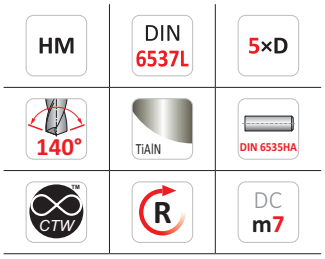
DORMER

FORCE X punta in metallo duro integrale 5xD, rivestita TiAlN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H9). Costruzione autocentrante con angolo di punta 140° a 4 facce e eliche CTW per velocità di penetrazione migliorate. Il rivestimento TiAlN aumenta la durezza superficiale e migliora la durata dell'utensile.

FORCE X





Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■ 134 V	■ 150 V	■ 155 V	■ 115 V	■ 101 V	■ 89 V	■ 100 V	■ 80 V	■ 68 V	■ 59 V	■ 50 V	■ 41 U	◪ 56 U	◪ 48 U
M2.1	**M2.2**	**M2.3**	**M3.1**	**M3.2**	**M3.3**	**M4.1**	**M4.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**
◪ 50 U	◪ 41 U	◪ 35 T	◪ 31 T	◪ 26 T	◪ 24 T	◪ 23 T	◪ 20 T	■ 83 W	■ 61 W	■ 46 W	■ 74 V	■ 60 V	■ 48 V
K3.1	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**
■ 65 V	■ 50 V	■ 41 V	■ 61 V	■ 46 V	■ 34 V	■ 29 V	■ 24 V	■ 68 V	■ 52 V	■ 40 V	■ 188 W	■ 141 W	■ 94 W
N2.1	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**S1.1**	**S1.2**	**S1.3**	**H1.1**	**H2.1**	**H2.2**	**H3.1**	**H3.2**
■ 231 V	■ 208 V	■ 150 V	■ 280 V	■ 165 V	■ 83 V	◪ 41 U	◪ 34 U	◪ 30 T	■ 42 U	◪ 25 U	◪ 23 U	◪ 28 U	◪ 23 U

DCON MS tolleranza h6.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	LS (mm)	DCON MS (mm)
R4543.0	–	3.00	0.1181	28.0	66.0	36.0	6.00
R4543.1	–	3.10	0.1220	28.0	66.0	36.0	6.00
R4541/8	1/8	3.18	0.1250	28.0	66.0	36.0	6.00
R4543.2	–	3.20	0.1260	28.0	66.0	36.0	6.00
R454N30	N30	3.26	0.1283	28.0	66.0	36.0	6.00
R4543.3	–	3.30	0.1299	28.0	66.0	36.0	6.00
R4543.4	–	3.40	0.1339	28.0	66.0	36.0	6.00
R454N29	N29	3.45	0.1360	28.0	66.0	36.0	6.00
R4543.5	–	3.50	0.1378	28.0	66.0	36.0	6.00
R454N28	N28	3.57	0.1406	28.0	66.0	36.0	6.00
R4549/64	9/64	3.57	0.1406	28.0	66.0	36.0	6.00
R4543.6	–	3.60	0.1417	28.0	66.0	36.0	6.00
R454N27	N27	3.66	0.1441	28.0	66.0	36.0	6.00
R4543.7	–	3.70	0.1457	28.0	66.0	36.0	6.00
R454N26	N26	3.73	0.1469	36.0	74.0	36.0	6.00
R4543.8	–	3.80	0.1496	36.0	74.0	36.0	6.00
R454N24	N24	3.86	0.1520	36.0	74.0	36.0	6.00
R4543.9	–	3.90	0.1535	36.0	74.0	36.0	6.00
R4545/32	5/32	3.97	0.1563	36.0	74.0	36.0	6.00
R4544.0	–	4.00	0.1575	36.0	74.0	36.0	6.00
R454N21	N21	4.04	0.1591	36.0	74.0	36.0	6.00
R454N20	N20	4.09	0.1610	36.0	74.0	36.0	6.00
R4544.1	–	4.10	0.1614	36.0	74.0	36.0	6.00
R4544.2	–	4.20	0.1654	36.0	74.0	36.0	6.00
R454N19	N19	4.22	0.1661	36.0	74.0	36.0	6.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R4544.3	–	4.30	0.1693	36.0	74.0	36.0	6.00
R45411/64	11/64	4.37	0.1719	36.0	74.0	36.0	6.00
R4544.4	–	4.40	0.1732	36.0	74.0	36.0	6.00
R4544.5	–	4.50	0.1772	36.0	74.0	36.0	6.00
R454N16	N16	4.50	0.1772	36.0	74.0	36.0	6.00
R454N15	N15	4.57	0.1799	36.0	74.0	36.0	6.00
R4544.6	–	4.60	0.1811	36.0	74.0	36.0	6.00
R454N14	N14	4.62	0.1819	36.0	74.0	36.0	6.00
R4544.7	–	4.70	0.1850	36.0	74.0	36.0	6.00
R4543/16	3/16	4.76	0.1875	44.0	82.0	36.0	6.00
R4544.8	–	4.80	0.1890	44.0	82.0	36.0	6.00
R454N11	N11	4.85	0.1909	44.0	82.0	36.0	6.00
R4544.9	–	4.90	0.1929	44.0	82.0	36.0	6.00
R454N10	N10	4.92	0.1937	44.0	82.0	36.0	6.00
R454N9	N9	4.98	0.1961	44.0	82.0	36.0	6.00
R4545.0	–	5.00	0.1969	44.0	82.0	36.0	6.00
R454N8	N8	5.06	0.1992	44.0	82.0	36.0	6.00
R4545.1	–	5.10	0.2008	44.0	82.0	36.0	6.00
R454N7	N7	5.11	0.2010	44.0	82.0	36.0	6.00
R45413/64	13/64	5.16	0.2031	44.0	82.0	36.0	6.00
R454N6	N6	5.18	0.2039	44.0	82.0	36.0	6.00
R4545.2	–	5.20	0.2047	44.0	82.0	36.0	6.00
R454N5	N5	5.22	0.2055	44.0	82.0	36.0	6.00
R454N4	N4	5.31	0.2091	44.0	82.0	36.0	6.00
R454N3	N3	5.41	0.2130	44.0	82.0	36.0	6.00
R4545.5	–	5.50	0.2165	44.0	82.0	36.0	6.00
R4547/32	7/32	5.56	0.2188	44.0	82.0	36.0	6.00
R4545.6	–	5.60	0.2205	44.0	82.0	36.0	6.00
R454N2	N2	5.61	0.2209	44.0	82.0	36.0	6.00
R4545.7	–	5.70	0.2244	44.0	82.0	36.0	6.00
R454N1	N1	5.79	0.2280	44.0	82.0	36.0	6.00
R4545.8	–	5.80	0.2283	44.0	82.0	36.0	6.00
R454A	A	5.94	0.2339	44.0	82.0	36.0	6.00
R45415/64	15/64	5.95	0.2344	44.0	82.0	36.0	6.00
R4546.0	–	6.00	0.2362	44.0	82.0	36.0	6.00
R454B	B	6.05	0.2380	53.0	91.0	36.0	8.00
R4546.1	–	6.10	0.2402	53.0	91.0	36.0	8.00
R454C	C	6.15	0.2421	53.0	91.0	36.0	8.00
R4546.2	–	6.20	0.2441	53.0	91.0	36.0	8.00
R454D	D	6.25	0.2461	53.0	91.0	36.0	8.00
R4546.3	–	6.30	0.2480	53.0	91.0	36.0	8.00
R4541/4	1/4	6.35	0.2500	53.0	91.0	36.0	8.00
R454E	E	6.35	0.2500	53.0	91.0	36.0	8.00
R4546.4	–	6.40	0.2520	53.0	91.0	36.0	8.00
R4546.5	–	6.50	0.2559	53.0	91.0	36.0	8.00
R454F	F	6.53	0.2571	53.0	91.0	36.0	8.00
R4546.6	–	6.60	0.2598	53.0	91.0	36.0	8.00
R454G	G	6.63	0.2610	53.0	91.0	36.0	8.00
R4546.7	–	6.70	0.2638	53.0	91.0	36.0	8.00
R45417/64	17/64	6.75	0.2656	53.0	91.0	36.0	8.00
R454H	H	6.76	0.2661	53.0	91.0	36.0	8.00
R4546.8	–	6.80	0.2677	53.0	91.0	36.0	8.00
R4546.9	–	6.90	0.2717	53.0	91.0	36.0	8.00
R454I	I	6.91	0.2720	53.0	91.0	36.0	8.00
R4547.0	–	7.00	0.2756	53.0	91.0	36.0	8.00
R454J	J	7.04	0.2772	53.0	91.0	36.0	8.00
R4547.1	–	7.10	0.2795	53.0	91.0	36.0	8.00
R4549/32	9/32	7.14	0.2813	53.0	91.0	36.0	8.00
R4547.3	–	7.30	0.2874	53.0	91.0	36.0	8.00
R454L	L	7.37	0.2902	53.0	91.0	36.0	8.00
R4547.4	–	7.40	0.2913	53.0	91.0	36.0	8.00
R4547.5	–	7.50	0.2953	53.0	91.0	36.0	8.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R45419/64	19/64	7.54	0.2969	53.0	91.0	36.0	8.00
R4547.6	–	7.60	0.2992	53.0	91.0	36.0	8.00
R454N	N	7.67	0.3020	53.0	91.0	36.0	8.00
R4547.7	–	7.70	0.3031	53.0	91.0	36.0	8.00
R4547.8	–	7.80	0.3071	53.0	91.0	36.0	8.00
R4547.9	–	7.90	0.3110	53.0	91.0	36.0	8.00
R4545/16	5/16	7.94	0.3125	53.0	91.0	36.0	8.00
R4548.0	–	8.00	0.3150	53.0	91.0	36.0	8.00
R454O	O	8.03	0.3161	61.0	103.0	40.0	10.00
R4548.1	–	8.10	0.3189	61.0	103.0	40.0	10.00
R4548.2	–	8.20	0.3228	61.0	103.0	40.0	10.00
R45421/64	21/64	8.33	0.3281	61.0	103.0	40.0	10.00
R4548.4	–	8.40	0.3307	61.0	103.0	40.0	10.00
R454Q	Q	8.43	0.3319	61.0	103.0	40.0	10.00
R4548.5	–	8.50	0.3346	61.0	103.0	40.0	10.00
R4548.6	–	8.60	0.3386	61.0	103.0	40.0	10.00
R454R	R	8.61	0.3390	61.0	103.0	40.0	10.00
R4548.7	–	8.70	0.3425	61.0	103.0	40.0	10.00
R45411/32	11/32	8.73	0.3438	61.0	103.0	40.0	10.00
R4548.8	–	8.80	0.3465	61.0	103.0	40.0	10.00
R454S	S	8.84	0.3480	61.0	103.0	40.0	10.00
R4548.9	–	8.90	0.3504	61.0	103.0	40.0	10.00
R4549.0	–	9.00	0.3543	61.0	103.0	40.0	10.00
R4549.1	–	9.10	0.3583	61.0	103.0	40.0	10.00
R45423/64	23/64	9.13	0.3594	61.0	103.0	40.0	10.00
R4549.3	–	9.30	0.3661	61.0	103.0	40.0	10.00
R454U	U	9.35	0.3681	61.0	103.0	40.0	10.00
R4549.4	–	9.40	0.3701	61.0	103.0	40.0	10.00
R4549.5	–	9.50	0.3740	61.0	103.0	40.0	10.00
R4543/8	3/8	9.53	0.3750	61.0	103.0	40.0	10.00
R4549.6	–	9.60	0.3780	61.0	103.0	40.0	10.00
R4549.7	–	9.70	0.3819	61.0	103.0	40.0	10.00
R4549.8	–	9.80	0.3858	61.0	103.0	40.0	10.00
R4549.9	–	9.90	0.3898	61.0	103.0	40.0	10.00
R454W	W	9.80	0.3858	61.0	103.0	40.0	10.00
R45425/64	25/64	9.92	0.3906	61.0	103.0	40.0	10.00
R45410.0	–	10.00	0.3937	61.0	103.0	40.0	10.00
R454X	X	10.08	0.3969	70.0	118.0	45.0	12.00
R45410.1	–	10.10	0.3976	70.0	118.0	45.0	12.00
R45410.2	–	10.20	0.4016	70.0	118.0	45.0	12.00
R454Y	Y	10.26	0.4039	70.0	118.0	45.0	12.00
R45410.3	–	10.30	0.4055	70.0	118.0	45.0	12.00
R45413/32	13/32	10.32	0.4063	70.0	118.0	45.0	12.00
R45410.4	–	10.40	0.4094	70.0	118.0	45.0	12.00
R454Z	Z	10.49	0.4130	70.0	118.0	45.0	12.00
R45410.5	–	10.50	0.4134	70.0	118.0	45.0	12.00
R45410.6	–	10.60	0.4173	70.0	118.0	45.0	12.00
R45427/64	27/64	10.72	0.4219	70.0	118.0	45.0	12.00
R45411.0	–	11.00	0.4331	70.0	118.0	45.0	12.00
R4547/16	7/16	11.11	0.4375	70.0	118.0	45.0	12.00
R45411.2	–	11.20	0.4409	70.0	118.0	45.0	12.00
R45411.4	–	11.40	0.4488	70.0	118.0	45.0	12.00
R45411.5	–	11.50	0.4528	70.0	118.0	45.0	12.00
R45429/64	29/64	11.51	0.4531	70.0	118.0	45.0	12.00
R45411.6	–	11.60	0.4567	70.0	118.0	45.0	12.00
R45411.8	–	11.80	0.4646	70.0	118.0	45.0	12.00
R45415/32	15/32	11.91	0.4688	70.0	118.0	45.0	12.00
R45412.0	–	12.00	0.4724	70.0	118.0	45.0	12.00
R45412.1	–	12.10	0.4764	76.0	124.0	45.0	14.00
R45412.2	–	12.20	0.4803	76.0	124.0	45.0	14.00
R45431/64	31/64	12.30	0.4844	76.0	124.0	45.0	14.00
R45412.5	–	12.50	0.4921	76.0	124.0	45.0	14.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R45412.7	–	12.70	0.5000	76.0	124.0	45.0	14.00
R4541/2	1/2	12.70	0.5000	76.0	124.0	45.0	14.00
R45412.8	–	12.80	0.5039	76.0	124.0	45.0	14.00
R45413.0	–	13.00	0.5118	76.0	124.0	45.0	14.00
R45433/64	33/64	13.10	0.5156	76.0	124.0	45.0	14.00
R45417/32	17/32	13.49	0.5313	76.0	124.0	45.0	14.00
R45413.5	–	13.50	0.5315	76.0	124.0	45.0	14.00
R45413.8	–	13.80	0.5433	76.0	124.0	45.0	14.00
R45435/64	35/64	13.89	0.5469	76.0	124.0	45.0	14.00
R45414.0	–	14.00	0.5512	76.0	124.0	45.0	14.00
R45414.25	–	14.25	0.5610	82.0	133.0	48.0	16.00
R4549/16	9/16	14.29	0.5625	82.0	133.0	48.0	16.00
R45414.5	–	14.50	0.5709	82.0	133.0	48.0	16.00
R45437/64	37/64	14.68	0.5781	82.0	133.0	48.0	16.00
R45414.8	–	14.80	0.5827	82.0	133.0	48.0	16.00
R45415.0	–	15.00	0.5906	82.0	133.0	48.0	16.00
R45419/32	19/32	15.08	0.5938	82.0	133.0	48.0	16.00
R45415.1	–	15.10	0.5945	82.0	133.0	48.0	16.00
R45439/64	39/64	15.48	0.6094	82.0	133.0	48.0	16.00
R45415.5	–	15.50	0.6102	82.0	133.0	48.0	16.00
R45415.8	–	15.80	0.6220	82.0	133.0	48.0	16.00
R4545/8	5/8	15.88	0.6250	82.0	133.0	48.0	16.00
R45416.0	–	16.00	0.6299	82.0	133.0	48.0	16.00
R45441/64	41/64	16.27	0.6406	91.0	143.0	48.0	18.00
R45416.5	–	16.50	0.6496	91.0	143.0	48.0	18.00
R45421/32	21/32	16.67	0.6563	91.0	143.0	48.0	18.00
R45417.0	–	17.00	0.6693	91.0	143.0	48.0	18.00
R45443/64	43/64	17.07	0.6720	91.0	143.0	48.0	18.00
R45411/16	11/16	17.46	0.6874	91.0	143.0	48.0	18.00
R45417.5	–	17.50	0.6890	91.0	143.0	48.0	18.00
R45417.8	–	17.80	0.7008	91.0	143.0	48.0	18.00
R45445/64	45/64	17.86	0.7031	91.0	143.0	48.0	18.00
R45418.0	–	18.00	0.7087	91.0	143.0	48.0	18.00
R45423/32	23/32	18.26	0.7189	99.0	153.0	50.0	20.00
R45418.5	–	18.50	0.7283	99.0	153.0	50.0	20.00
R45447/64	47/64	18.65	0.7343	99.0	153.0	50.0	20.00
R45419.0	–	19.00	0.7480	99.0	153.0	50.0	20.00
R4543/4	3/4	19.05	0.7500	99.0	153.0	50.0	20.00
R45419.5	–	19.50	0.7677	99.0	153.0	50.0	20.00
R45419.8	–	19.80	0.7795	99.0	153.0	50.0	20.00
R45420.0	–	20.00	0.7874	99.0	153.0	50.0	20.00

R453

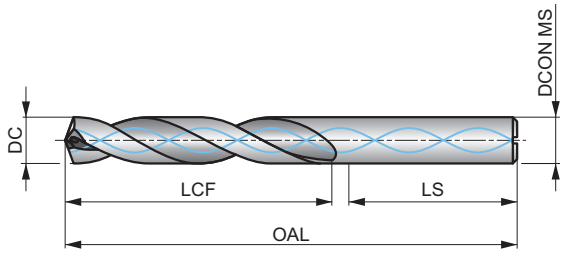
DORMER

FORCE X punta in metallo duro integrale 5xD con fori passaggio refrigerante, rivestita TiAlN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H9). Costruzione autocentrante con angolo di punta 140° a 4 facce e eliche CTW per velocità di penetrazione migliorate. Con fori, per il passaggio interno del refrigerante, per migliorare l'evacuazione dei trucioli. Il rivestimento TiAlN aumenta la durezza superficiale e migliora la durata dell'utensile.

FORCE X

HM	DIN 6537L	5×D
140°	TiAlN	DIN 6535HA
CTW	R	
DC m7		



Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■ 170 V	■ 190 V	■ 197 V	■ 145 V	■ 128 V	■ 113 V	■ 126 V	■ 102 V	■ 86 V	■ 75 V	■ 64 V	■ 52 U	◪ 71 V	◪ 61 V
M2.1	**M2.2**	**M2.3**	**M3.1**	**M3.2**	**M3.3**	**M4.1**	**M4.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**
◪ 64 V	◪ 52 V	◪ 44 U	◪ 39 V	◪ 33 V	◪ 30 V	◪ 29 U	◪ 25 U	■ 105 W	■ 77 W	■ 58 W	■ 93 V	■ 76 V	■ 61 V
K3.1	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**
■ 83 V	■ 64 V	■ 51 V	■ 77 V	■ 58 V	■ 43 V	■ 36 V	■ 30 V	■ 86 V	■ 66 V	■ 50 V	■ 238 W	■ 179 W	■ 119 W
N2.1	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**S1.1**	**S1.2**	**S1.3**	**H1.1**	**H2.1**	**H2.2**	**H3.1**	**H3.2**
■ 293 V	■ 263 V	■ 190 V	■ 354 W	■ 209 W	■ 105 W	■ 52 V	■ 43 V	■ 38 U	■ 53 U	◪ 31 U	◪ 29 U	◪ 35 U	◪ 29 U

DCON MS tolleranza h6.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	LS (mm)	DCON MS (mm)
R4533.0	–	3.00	0.1181	28.0	66.0	36.0	6.00
R4533.1	–	3.10	0.1220	28.0	66.0	36.0	6.00
R4531/8	1/8	3.18	0.1250	28.0	66.0	36.0	6.00
R4533.2	–	3.20	0.1260	28.0	66.0	36.0	6.00
R453N30	N30	3.26	0.1283	28.0	66.0	36.0	6.00
R4533.3	–	3.30	0.1299	28.0	66.0	36.0	6.00
R4533.4	–	3.40	0.1339	28.0	66.0	36.0	6.00
R453N29	N29	3.45	0.1360	28.0	66.0	36.0	6.00
R4533.5	–	3.50	0.1378	28.0	66.0	36.0	6.00
R453N28	N28	3.57	0.1406	28.0	66.0	36.0	6.00
R4539/64	9/64	3.57	0.1406	28.0	66.0	36.0	6.00
R4533.6	–	3.60	0.1417	28.0	66.0	36.0	6.00
R453N27	N27	3.66	0.1441	28.0	66.0	36.0	6.00
R4533.7	–	3.70	0.1457	28.0	66.0	36.0	6.00
R453N26	N26	3.73	0.1469	36.0	74.0	36.0	6.00
R4533.8	–	3.80	0.1496	36.0	74.0	36.0	6.00
R453N24	N24	3.86	0.1520	36.0	74.0	36.0	6.00
R4533.9	–	3.90	0.1535	36.0	74.0	36.0	6.00
R453N23	N23	3.91	0.1539	36.0	74.0	36.0	6.00
R4535/32	5/32	3.97	0.1563	36.0	74.0	36.0	6.00
R453N22	N22	3.99	0.1571	36.0	74.0	36.0	6.00
R4534.0	–	4.00	0.1575	36.0	74.0	36.0	6.00
R453N21	N21	4.04	0.1591	36.0	74.0	36.0	6.00
R4534.05	–	4.05	0.1594	36.0	74.0	36.0	6.00
R453N20	N20	4.09	0.1610	36.0	74.0	36.0	6.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R4534.1	–	4.10	0.1614	36.0	74.0	36.0	6.00
R4534.2	–	4.20	0.1654	36.0	74.0	36.0	6.00
R453N19	N19	4.22	0.1661	36.0	74.0	36.0	6.00
R4534.3	–	4.30	0.1693	36.0	74.0	36.0	6.00
R453N18	N18	4.31	0.1697	36.0	74.0	36.0	6.00
R45311/64	11/64	4.37	0.1719	36.0	74.0	36.0	6.00
R4534.4	–	4.40	0.1732	36.0	74.0	36.0	6.00
R4534.5	–	4.50	0.1772	36.0	74.0	36.0	6.00
R453N16	N16	4.50	0.1772	36.0	74.0	36.0	6.00
R453N15	N15	4.57	0.1799	36.0	74.0	36.0	6.00
R4534.6	–	4.60	0.1811	36.0	74.0	36.0	6.00
R453N14	N14	4.62	0.1819	36.0	74.0	36.0	6.00
R4534.7	–	4.70	0.1850	36.0	74.0	36.0	6.00
R4533/16	3/16	4.76	0.1875	44.0	82.0	36.0	6.00
R4534.8	–	4.80	0.1890	44.0	82.0	36.0	6.00
R453N12	N12	4.80	0.1890	44.0	82.0	36.0	6.00
R453N11	N11	4.85	0.1909	44.0	82.0	36.0	6.00
R4534.9	–	4.90	0.1929	44.0	82.0	36.0	6.00
R453N10	N10	4.92	0.1937	44.0	82.0	36.0	6.00
R453N9	N9	4.98	0.1961	44.0	82.0	36.0	6.00
R4535.0	–	5.00	0.1969	44.0	82.0	36.0	6.00
R4535.05	–	5.05	0.1988	44.0	82.0	36.0	6.00
R453N8	N8	5.06	0.1992	44.0	82.0	36.0	6.00
R4535.1	–	5.10	0.2008	44.0	82.0	36.0	6.00
R453N7	N7	5.11	0.2010	44.0	82.0	36.0	6.00
R45313/64	13/64	5.16	0.2031	44.0	82.0	36.0	6.00
R4535.2	–	5.20	0.2047	44.0	82.0	36.0	6.00
R453N5	N5	5.22	0.2055	44.0	82.0	36.0	6.00
R4535.3	–	5.30	0.2087	44.0	82.0	36.0	6.00
R453N4	N4	5.31	0.2091	44.0	82.0	36.0	6.00
R4535.4	–	5.40	0.2126	44.0	82.0	36.0	6.00
R453N3	N3	5.41	0.2130	44.0	82.0	36.0	6.00
R4535.5	–	5.50	0.2165	44.0	82.0	36.0	6.00
R4537/32	7/32	5.56	0.2188	44.0	82.0	36.0	6.00
R4535.6	–	5.60	0.2205	44.0	82.0	36.0	6.00
R453N2	N2	5.61	0.2209	44.0	82.0	36.0	6.00
R4535.7	–	5.70	0.2244	44.0	82.0	36.0	6.00
R453N1	N1	5.79	0.2280	44.0	82.0	36.0	6.00
R4535.8	–	5.80	0.2283	44.0	82.0	36.0	6.00
R4535.9	–	5.90	0.2323	44.0	82.0	36.0	6.00
R453A	A	5.94	0.2339	44.0	82.0	36.0	6.00
R45315/64	15/64	5.95	0.2344	44.0	82.0	36.0	6.00
R4536.0	–	6.00	0.2362	44.0	82.0	36.0	6.00
R453B	B	6.05	0.2380	53.0	91.0	36.0	8.00
R4536.05	–	6.05	0.2382	53.0	91.0	36.0	8.00
R4536.1	–	6.10	0.2402	53.0	91.0	36.0	8.00
R453C	C	6.15	0.2421	53.0	91.0	36.0	8.00
R4536.2	–	6.20	0.2441	53.0	91.0	36.0	8.00
R453D	D	6.25	0.2461	53.0	91.0	36.0	8.00
R4536.3	–	6.30	0.2480	53.0	91.0	36.0	8.00
R4531/4	1/4	6.35	0.2500	53.0	91.0	36.0	8.00
R4536.4	–	6.40	0.2520	53.0	91.0	36.0	8.00
R4536.5	–	6.50	0.2559	53.0	91.0	36.0	8.00
R453F	F	6.53	0.2571	53.0	91.0	36.0	8.00
R4536.6	–	6.60	0.2598	53.0	91.0	36.0	8.00
R453G	G	6.63	0.2610	53.0	91.0	36.0	8.00
R4536.7	–	6.70	0.2638	53.0	91.0	36.0	8.00
R45317/64	17/64	6.75	0.2656	53.0	91.0	36.0	8.00
R4536.8	–	6.80	0.2677	53.0	91.0	36.0	8.00
R4536.9	–	6.90	0.2717	53.0	91.0	36.0	8.00
R453I	I	6.91	0.2720	53.0	91.0	36.0	8.00
R4537.0	–	7.00	0.2756	53.0	91.0	36.0	8.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R453J	J	7.04	0.2772	53.0	91.0	36.0	8.00
R4537.1	–	7.10	0.2795	53.0	91.0	36.0	8.00
R453K	K	7.14	0.2811	53.0	91.0	36.0	8.00
R4539/32	9/32	7.14	0.2813	53.0	91.0	36.0	8.00
R4537.2	–	7.20	0.2835	53.0	91.0	36.0	8.00
R4537.3	–	7.30	0.2874	53.0	91.0	36.0	8.00
R453L	L	7.37	0.2902	53.0	91.0	36.0	8.00
R4537.4	–	7.40	0.2913	53.0	91.0	36.0	8.00
R453M	M	7.49	0.2949	53.0	91.0	36.0	8.00
R4537.5	–	7.50	0.2953	53.0	91.0	36.0	8.00
R45319/64	19/64	7.54	0.2969	53.0	91.0	36.0	8.00
R4537.6	–	7.60	0.2992	53.0	91.0	36.0	8.00
R453N	N	7.67	0.3020	53.0	91.0	36.0	8.00
R4537.7	–	7.70	0.3031	53.0	91.0	36.0	8.00
R4537.8	–	7.80	0.3071	53.0	91.0	36.0	8.00
R4537.9	–	7.90	0.3110	53.0	91.0	36.0	8.00
R4535/16	5/16	7.94	0.3125	53.0	91.0	36.0	8.00
R4538.0	–	8.00	0.3150	53.0	91.0	36.0	8.00
R453O	O	8.03	0.3161	61.0	103.0	40.0	10.00
R4538.05	–	8.05	0.3169	61.0	103.0	40.0	10.00
R4538.1	–	8.10	0.3189	61.0	103.0	40.0	10.00
R4538.2	–	8.20	0.3228	61.0	103.0	40.0	10.00
R453P	P	8.20	0.3228	61.0	103.0	40.0	10.00
R4538.3	–	8.30	0.3268	61.0	103.0	40.0	10.00
R45321/64	21/64	8.33	0.3281	61.0	103.0	40.0	10.00
R4538.4	–	8.40	0.3307	61.0	103.0	40.0	10.00
R453Q	Q	8.43	0.3319	61.0	103.0	40.0	10.00
R4538.5	–	8.50	0.3346	61.0	103.0	40.0	10.00
R4538.6	–	8.60	0.3386	61.0	103.0	40.0	10.00
R453R	R	8.61	0.3390	61.0	103.0	40.0	10.00
R4538.7	–	8.70	0.3425	61.0	103.0	40.0	10.00
R45311/32	11/32	8.73	0.3438	61.0	103.0	40.0	10.00
R4538.8	–	8.80	0.3465	61.0	103.0	40.0	10.00
R453S	S	8.84	0.3480	61.0	103.0	40.0	10.00
R4538.9	–	8.90	0.3504	61.0	103.0	40.0	10.00
R4539.0	–	9.00	0.3543	61.0	103.0	40.0	10.00
R4539.1	–	9.10	0.3583	61.0	103.0	40.0	10.00
R45323/64	23/64	9.13	0.3594	61.0	103.0	40.0	10.00
R4539.2	–	9.20	0.3622	61.0	103.0	40.0	10.00
R4539.3	–	9.30	0.3661	61.0	103.0	40.0	10.00
R453U	U	9.35	0.3681	61.0	103.0	40.0	10.00
R4539.4	–	9.40	0.3701	61.0	103.0	40.0	10.00
R4539.5	–	9.50	0.3740	61.0	103.0	40.0	10.00
R4533/8	3/8	9.53	0.3750	61.0	103.0	40.0	10.00
R4539.6	–	9.60	0.3780	61.0	103.0	40.0	10.00
R4539.7	–	9.70	0.3819	61.0	103.0	40.0	10.00
R4539.8	–	9.80	0.3858	61.0	103.0	40.0	10.00
R453W	W	9.80	0.3858	61.0	103.0	40.0	10.00
R4539.9	–	9.90	0.3898	61.0	103.0	40.0	10.00
R45325/64	25/64	9.92	0.3906	61.0	103.0	40.0	10.00
R45310.0	–	10.00	0.3937	61.0	103.0	40.0	10.00
R45310.05	–	10.05	0.3957	70.0	118.0	45.0	12.00
R453X	X	10.08	0.3969	70.0	118.0	45.0	12.00
R45310.1	–	10.10	0.3976	70.0	118.0	45.0	12.00
R45310.2	–	10.20	0.4016	70.0	118.0	45.0	12.00
R453Y	Y	10.26	0.4039	70.0	118.0	45.0	12.00
R45310.3	–	10.30	0.4055	70.0	118.0	45.0	12.00
R45313/32	13/32	10.32	0.4063	70.0	118.0	45.0	12.00
R45310.4	–	10.40	0.4094	70.0	118.0	45.0	12.00
R45310.5	–	10.50	0.4134	70.0	118.0	45.0	12.00
R45310.6	–	10.60	0.4173	70.0	118.0	45.0	12.00
R45327/64	27/64	10.72	0.4219	70.0	118.0	45.0	12.00

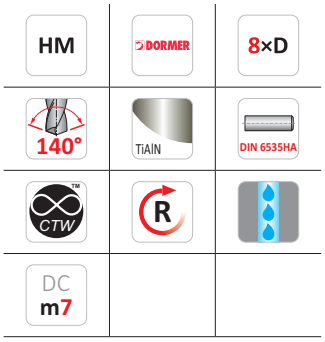
Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R45310.8	–	10.80	0.4252	70.0	118.0	45.0	12.00
R45311.0	–	11.00	0.4331	70.0	118.0	45.0	12.00
R4537/16	7/16	11.11	0.4375	70.0	118.0	45.0	12.00
R45311.2	–	11.20	0.4409	70.0	118.0	45.0	12.00
R45311.3	–	11.30	0.4449	70.0	118.0	45.0	12.00
R45311.4	–	11.40	0.4488	70.0	118.0	45.0	12.00
R45311.5	–	11.50	0.4528	70.0	118.0	45.0	12.00
R45329/64	29/64	11.51	0.4531	70.0	118.0	45.0	12.00
R45311.6	–	11.60	0.4567	70.0	118.0	45.0	12.00
R45311.8	–	11.80	0.4646	70.0	118.0	45.0	12.00
R45315/32	15/32	11.91	0.4688	70.0	118.0	45.0	12.00
R45312.0	–	12.00	0.4724	70.0	118.0	45.0	12.00
R45312.05	–	12.05	0.4744	76.0	124.0	45.0	14.00
R45312.2	–	12.20	0.4803	76.0	124.0	45.0	14.00
R45331/64	31/64	12.30	0.4844	76.0	124.0	45.0	14.00
R45312.5	–	12.50	0.4921	76.0	124.0	45.0	14.00
R45312.7	–	12.70	0.5000	76.0	124.0	45.0	14.00
R4531/2	1/2	12.70	0.5000	76.0	124.0	45.0	14.00
R45312.8	–	12.80	0.5039	76.0	124.0	45.0	14.00
R45313.0	–	13.00	0.5118	76.0	124.0	45.0	14.00
R45333/64	33/64	13.10	0.5156	76.0	124.0	45.0	14.00
R45313.3	–	13.30	0.5236	76.0	124.0	45.0	14.00
R45317/32	17/32	13.49	0.5313	76.0	124.0	45.0	14.00
R45313.5	–	13.50	0.5315	76.0	124.0	45.0	14.00
R45313.8	–	13.80	0.5433	76.0	124.0	45.0	14.00
R45335/64	35/64	13.89	0.5469	76.0	124.0	45.0	14.00
R45314.0	–	14.00	0.5512	76.0	124.0	45.0	14.00
R45314.25	–	14.25	0.5610	82.0	133.0	48.0	16.00
R4539/16	9/16	14.29	0.5625	82.0	133.0	48.0	16.00
R45314.5	–	14.50	0.5709	82.0	133.0	48.0	16.00
R45337/64	37/64	14.68	0.5781	82.0	133.0	48.0	16.00
R45314.8	–	14.80	0.5827	82.0	133.0	48.0	16.00
R45315.0	–	15.00	0.5906	82.0	133.0	48.0	16.00
R45319/32	19/32	15.08	0.5938	82.0	133.0	48.0	16.00
R45315.1	–	15.10	0.5945	82.0	133.0	48.0	16.00
R45315.3	–	15.30	0.6024	82.0	133.0	48.0	16.00
R45315.5	–	15.50	0.6102	82.0	133.0	48.0	16.00
R45315.8	–	15.80	0.6220	82.0	133.0	48.0	16.00
R4535/8	5/8	15.88	0.6250	82.0	133.0	48.0	16.00
R45316.0	–	16.00	0.6299	82.0	133.0	48.0	16.00
R45341/64	41/64	16.27	0.6406	91.0	143.0	48.0	18.00
R45316.5	–	16.50	0.6496	91.0	143.0	48.0	18.00
R45321/32	21/32	16.67	0.6563	91.0	143.0	48.0	18.00
R45317.0	–	17.00	0.6693	91.0	143.0	48.0	18.00
R45343/64	43/64	17.07	0.6720	91.0	143.0	48.0	18.00
R45311/16	11/16	17.46	0.6874	91.0	143.0	48.0	18.00
R45317.5	–	17.50	0.6890	91.0	143.0	48.0	18.00
R45317.8	–	17.80	0.7008	91.0	143.0	48.0	18.00
R45345/64	45/64	17.86	0.7031	91.0	143.0	48.0	18.00
R45318.0	–	18.00	0.7087	91.0	143.0	48.0	18.00
R45323/32	23/32	18.26	0.7189	99.0	153.0	50.0	20.00
R45318.5	–	18.50	0.7283	99.0	153.0	50.0	20.00
R45347/64	47/64	18.65	0.7343	99.0	153.0	50.0	20.00
R45319.0	–	19.00	0.7480	99.0	153.0	50.0	20.00
R4533/4	3/4	19.05	0.7500	99.0	153.0	50.0	20.00
R45319.5	–	19.50	0.7677	99.0	153.0	50.0	20.00
R45319.8	–	19.80	0.7795	99.0	153.0	50.0	20.00
R45320.0	–	20.00	0.7874	99.0	153.0	50.0	20.00

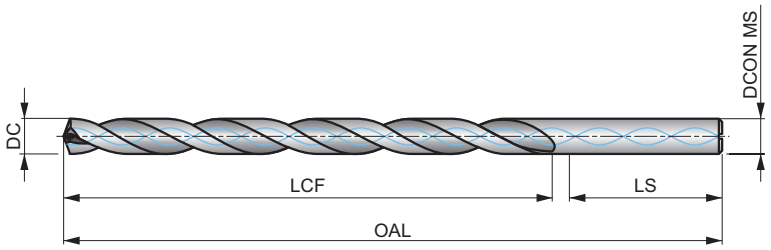
R459

FORCE X punta in metallo duro integrale 8xD con fori passaggio refrigerante, rivestita TiAlN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H9). Costruzione autocentrante con angolo di punta 140° a 4 facce e eliche CTW per velocità di penetrazione migliorate. Con fori, per il passaggio interno del refrigerante, per migliorare l'evacuazione dei trucioli. Il rivestimento TiAlN aumenta la durezza superficiale e migliora la durata dell'utensile.

FORCE X





Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■ 143 V	■ 160 V	■ 166 V	■ 122 V	■ 108 U	■ 95 U	■ 106 U	■ 86 U	■ 72 U	■ 63 U	■ 54 U	■ 44 T	◪ 60 V	◪ 51 V
M2.1	**M2.2**	**M2.3**	**M3.1**	**M3.2**	**M3.3**	**M4.1**	**M4.2**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**
◪ 54 V	◪ 44 V	◪ 37 U	◪ 33 V	◪ 28 V	◪ 26 V	◪ 24 U	◪ 21 U	■ 88 W	■ 65 W	■ 49 W	■ 78 V	■ 64 V	■ 51 V
K3.1	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**
■ 70 V	■ 54 V	■ 43 V	■ 65 V	■ 49 V	■ 36 V	■ 30 V	■ 26 V	■ 73 V	■ 55 V	■ 42 V	◪ 200 W	◪ 150 W	■ 100 W
N2.1	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**								
■ 246 V	■ 222 V	■ 160 V	◪ 298 V	◪ 176 V	◪ 88 V								

DCON MS tolleranza h6.

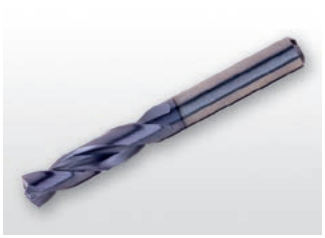
Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	LS (mm)	DCON MS (mm)
R4593.0	–	3.00	0.1181	37.0	79.0	36.0	6.00
R4593.1	–	3.10	0.1220	37.0	79.0	36.0	6.00
R4591/8	1/8	3.18	0.1250	37.0	79.0	36.0	6.00
R4593.2	–	3.20	0.1260	37.0	79.0	36.0	6.00
R4593.3	–	3.30	0.1299	37.0	79.0	36.0	6.00
R4593.4	–	3.40	0.1339	37.0	79.0	36.0	6.00
R4593.5	–	3.50	0.1378	37.0	79.0	36.0	6.00
R4599/64	9/64	3.57	0.1406	37.0	79.0	36.0	6.00
R4593.6	–	3.60	0.1417	37.0	79.0	36.0	6.00
R4593.7	–	3.70	0.1457	37.0	79.0	36.0	6.00
R4593.8	–	3.80	0.1496	48.0	90.0	36.0	6.00
R4593.9	–	3.90	0.1535	48.0	90.0	36.0	6.00
R4595/32	5/32	3.97	0.1563	48.0	90.0	36.0	6.00
R4594.0	–	4.00	0.1575	48.0	90.0	36.0	6.00
R4594.1	–	4.10	0.1614	48.0	90.0	36.0	6.00
R4594.2	–	4.20	0.1654	48.0	90.0	36.0	6.00
R4594.3	–	4.30	0.1693	48.0	90.0	36.0	6.00
R45911/64	11/64	4.37	0.1719	48.0	90.0	36.0	6.00
R4594.4	–	4.40	0.1732	48.0	90.0	36.0	6.00
R4594.5	–	4.50	0.1772	48.0	90.0	36.0	6.00
R4594.6	–	4.60	0.1811	48.0	90.0	36.0	6.00
R4594.7	–	4.70	0.1850	62.0	104.0	36.0	6.00
R4593/16	3/16	4.76	0.1875	62.0	104.0	36.0	6.00
R4594.8	–	4.80	0.1890	62.0	104.0	36.0	6.00
R4594.9	–	4.90	0.1929	62.0	104.0	36.0	6.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R4595.0	–	5.00	0.1969	62.0	104.0	36.0	6.00
R4595.1	–	5.10	0.2008	62.0	104.0	36.0	6.00
R45913/64	13/64	5.16	0.2031	62.0	104.0	36.0	6.00
R4595.2	–	5.20	0.2047	62.0	104.0	36.0	6.00
R4595.3	–	5.30	0.2087	62.0	104.0	36.0	6.00
R4595.4	–	5.40	0.2126	62.0	104.0	36.0	6.00
R4595.5	–	5.50	0.2165	62.0	104.0	36.0	6.00
R4597/32	7/32	5.56	0.2188	62.0	104.0	36.0	6.00
R4595.6	–	5.60	0.2205	62.0	104.0	36.0	6.00
R4595.7	–	5.70	0.2244	62.0	104.0	36.0	6.00
R4595.8	–	5.80	0.2283	62.0	104.0	36.0	6.00
R4595.9	–	5.90	0.2323	62.0	104.0	36.0	6.00
R45915/64	15/64	5.95	0.2344	62.0	104.0	36.0	6.00
R4596.0	–	6.00	0.2362	62.0	104.0	36.0	6.00
R4596.1	–	6.10	0.2402	84.0	126.0	36.0	8.00
R4596.2	–	6.20	0.2441	84.0	126.0	36.0	8.00
R4596.3	–	6.30	0.2480	84.0	126.0	36.0	8.00
R4591/4	1/4	6.35	0.2500	84.0	126.0	36.0	8.00
R4596.4	–	6.40	0.2520	84.0	126.0	36.0	8.00
R4596.5	–	6.50	0.2559	84.0	126.0	36.0	8.00
R4596.6	–	6.60	0.2598	84.0	126.0	36.0	8.00
R4596.7	–	6.70	0.2638	84.0	126.0	36.0	8.00
R45917/64	17/64	6.75	0.2656	84.0	126.0	36.0	8.00
R4596.8	–	6.80	0.2677	84.0	126.0	36.0	8.00
R4596.9	–	6.90	0.2717	84.0	126.0	36.0	8.00
R4597.0	–	7.00	0.2756	84.0	126.0	36.0	8.00
R4597.1	–	7.10	0.2795	84.0	126.0	36.0	8.00
R4599/32	9/32	7.14	0.2813	84.0	126.0	36.0	8.00
R4597.2	–	7.20	0.2835	84.0	126.0	36.0	8.00
R4597.3	–	7.30	0.2874	84.0	126.0	36.0	8.00
R4597.4	–	7.40	0.2913	84.0	126.0	36.0	8.00
R4597.5	–	7.50	0.2953	84.0	126.0	36.0	8.00
R45919/64	19/64	7.54	0.2969	84.0	126.0	36.0	8.00
R4597.6	–	7.60	0.2992	84.0	126.0	36.0	8.00
R4597.7	–	7.70	0.3031	84.0	126.0	36.0	8.00
R4597.8	–	7.80	0.3071	84.0	126.0	36.0	8.00
R4597.9	–	7.90	0.3110	84.0	126.0	36.0	8.00
R4595/16	5/16	7.94	0.3125	84.0	126.0	36.0	8.00
R4598.0	–	8.00	0.3150	84.0	126.0	36.0	8.00
R4598.1	–	8.10	0.3189	106.0	152.0	40.0	10.00
R4598.2	–	8.20	0.3228	106.0	152.0	40.0	10.00
R4598.3	–	8.30	0.3268	106.0	152.0	40.0	10.00
R45921/64	21/64	8.33	0.3281	106.0	152.0	40.0	10.00
R4598.4	–	8.40	0.3307	106.0	152.0	40.0	10.00
R4598.5	–	8.50	0.3346	106.0	152.0	40.0	10.00
R4598.6	–	8.60	0.3386	106.0	152.0	40.0	10.00
R4598.7	–	8.70	0.3425	106.0	152.0	40.0	10.00
R45911/32	11/32	8.73	0.3438	106.0	152.0	40.0	10.00
R4598.8	–	8.80	0.3465	106.0	152.0	40.0	10.00
R4598.9	–	8.90	0.3504	106.0	152.0	40.0	10.00
R4599.0	–	9.00	0.3543	106.0	152.0	40.0	10.00
R4599.1	–	9.10	0.3583	106.0	152.0	40.0	10.00
R45923/64	23/64	9.13	0.3594	106.0	152.0	40.0	10.00
R4599.2	–	9.20	0.3622	106.0	152.0	40.0	10.00
R4599.3	–	9.30	0.3661	106.0	152.0	40.0	10.00
R4599.4	–	9.40	0.3701	106.0	152.0	40.0	10.00
R4599.5	–	9.50	0.3740	106.0	152.0	40.0	10.00
R4593/8	3/8	9.53	0.3750	106.0	152.0	40.0	10.00
R4599.6	–	9.60	0.3780	106.0	152.0	40.0	10.00
R4599.7	–	9.70	0.3819	106.0	152.0	40.0	10.00
R4599.8	–	9.80	0.3858	106.0	152.0	40.0	10.00
R4599.9	–	9.90	0.3898	106.0	152.0	40.0	10.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R45925/64	25/64	9.92	0.3906	106.0	152.0	40.0	10.00
R45910.0	–	10.00	0.3937	106.0	152.0	40.0	10.00
R45910.2	–	10.20	0.4016	128.0	180.0	45.0	12.00
R45910.3	–	10.30	0.4055	128.0	180.0	45.0	12.00
R45913/32	13/32	10.32	0.4063	128.0	180.0	45.0	12.00
R45910.4	–	10.40	0.4094	128.0	180.0	45.0	12.00
R45910.5	–	10.50	0.4134	128.0	180.0	45.0	12.00
R45927/64	27/64	10.72	0.4219	128.0	180.0	45.0	12.00
R45910.8	–	10.80	0.4252	128.0	180.0	45.0	12.00
R45911.0	–	11.00	0.4331	128.0	180.0	45.0	12.00
R4597/16	7/16	11.11	0.4375	128.0	180.0	45.0	12.00
R45911.2	–	11.20	0.4409	128.0	180.0	45.0	12.00
R45911.3	–	11.30	0.4449	128.0	180.0	45.0	12.00
R45911.5	–	11.50	0.4528	128.0	180.0	45.0	12.00
R45929/64	29/64	11.51	0.4531	128.0	180.0	45.0	12.00
R45911.8	–	11.80	0.4646	128.0	180.0	45.0	12.00
R45915/32	15/32	11.91	0.4688	128.0	180.0	45.0	12.00
R45912.0	–	12.00	0.4724	128.0	180.0	45.0	12.00
R45912.2	–	12.20	0.4803	151.0	202.0	48.0	14.00
R45931/64	31/64	12.30	0.4844	151.0	202.0	48.0	14.00
R45912.5	–	12.50	0.4921	151.0	202.0	48.0	14.00
R4591/2	1/2	12.70	0.5000	151.0	202.0	48.0	14.00
R45912.8	–	12.80	0.5039	151.0	202.0	48.0	14.00
R45913.0	–	13.00	0.5118	151.0	202.0	48.0	14.00
R45933/64	33/64	13.10	0.5156	151.0	202.0	48.0	14.00
R45917/32	17/32	13.49	0.5313	151.0	202.0	48.0	14.00
R45913.5	–	13.50	0.5315	151.0	202.0	48.0	14.00
R45935/64	35/64	13.89	0.5469	151.0	202.0	48.0	14.00
R45914.0	–	14.00	0.5512	151.0	202.0	48.0	14.00
R45914.25	–	14.25	0.5610	172.0	227.0	48.0	16.00
R4599/16	9/16	14.29	0.5625	172.0	227.0	48.0	16.00
R45914.5	–	14.50	0.5709	172.0	227.0	48.0	16.00
R45937/64	37/64	14.68	0.5781	172.0	227.0	48.0	16.00
R45915.0	–	15.00	0.5906	172.0	227.0	48.0	16.00
R45919/32	19/32	15.08	0.5938	172.0	227.0	48.0	16.00
R45915.1	–	15.10	0.5945	172.0	227.0	48.0	16.00
R45915.5	–	15.50	0.6102	172.0	227.0	48.0	16.00
R4595/8	5/8	15.88	0.6250	172.0	227.0	48.0	16.00
R45916.0	–	16.00	0.6299	172.0	227.0	48.0	16.00

R467

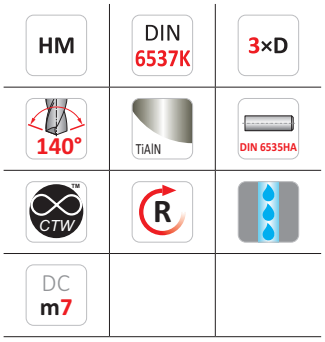
DORMER

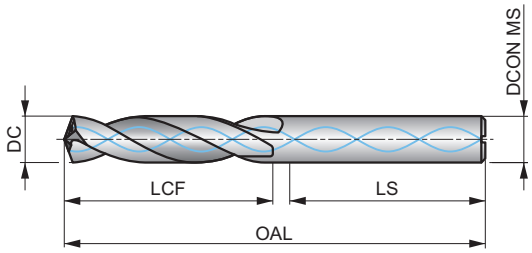


FORCE M Punta in metallo duro integrale 3xD con fori passaggio refrigerante, rivestita TiAlN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H9 con acciai inossidabili e leghe resistenti al calore). Costruzione autocentrante con angolo di punta 140° a 4 facce e eliche CTW. Con fori per il passaggio interno del refrigerante, per migliorare l'evacuazione dei trucioli. Il rivestimento TiAlN aumenta la durezza superficiale e migliora la durata dell'utensile.

FORCE M





Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

M1.1	M1.2	M2.1	M2.2	M2.3	M3.1	M3.2	M3.3	M4.1	M4.2	S1.1	S1.2	S1.3	S2.1
■117 G	■99 G	■104 G	■85 G	■71 E	■87 G	■75 G	■68 F	■60 F	■52 E	■55 V	■45 V	■40 U	◪60 U

S2.2	S3.1	S3.2	S4.1	S4.2
◪56 U	◪45 U	◪40 U	◪35 U	◪32 U

DCON MS tolleranza h6.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	LS (mm)	DCON MS (mm)
R4673.0	–	3.00	0.1181	20.0	62.0	36.0	6.00
R4673.1	–	3.10	0.1220	20.0	62.0	36.0	6.00
R4671/8	1/8	3.18	0.1250	20.0	62.0	36.0	6.00
R4673.2	–	3.20	0.1260	20.0	62.0	36.0	6.00
R4673.3	–	3.30	0.1299	20.0	62.0	36.0	6.00
R4673.4	–	3.40	0.1339	20.0	62.0	36.0	6.00
R467N29	N29	3.45	0.1360	20.0	62.0	36.0	6.00
R4673.5	–	3.50	0.1378	20.0	62.0	36.0	6.00
R4679/64	9/64	3.57	0.1406	20.0	62.0	36.0	6.00
R4673.6	–	3.60	0.1417	20.0	62.0	36.0	6.00
R4673.7	–	3.70	0.1457	20.0	62.0	36.0	6.00
R4673.8	–	3.80	0.1496	24.0	66.0	36.0	6.00
R4673.9	–	3.90	0.1535	24.0	66.0	36.0	6.00
R4675/32	5/32	3.97	0.1563	24.0	66.0	36.0	6.00
R4674.0	–	4.00	0.1575	24.0	66.0	36.0	6.00
R4674.05	–	4.05	0.1594	24.0	66.0	36.0	6.00
R4674.1	–	4.10	0.1614	24.0	66.0	36.0	6.00
R4674.2	–	4.20	0.1654	24.0	66.0	36.0	6.00
R4674.3	–	4.30	0.1693	24.0	66.0	36.0	6.00
R46711/64	11/64	4.37	0.1719	24.0	66.0	36.0	6.00
R4674.4	–	4.40	0.1732	24.0	66.0	36.0	6.00
R4674.5	–	4.50	0.1772	24.0	66.0	36.0	6.00
R4674.6	–	4.60	0.1811	24.0	66.0	36.0	6.00
R4674.7	–	4.70	0.1850	24.0	66.0	36.0	6.00
R4673/16	3/16	4.76	0.1875	28.0	66.0	36.0	6.00
R4674.8	–	4.80	0.1890	28.0	66.0	36.0	6.00
R4674.9	–	4.90	0.1929	28.0	66.0	36.0	6.00
R4675.0	–	5.00	0.1969	28.0	66.0	36.0	6.00
R4675.05	–	5.05	0.1988	28.0	66.0	36.0	6.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R4675.1	–	5.10	0.2008	28.0	66.0	36.0	6.00
R467N7	N7	5.11	0.2010	28.0	66.0	36.0	6.00
R46713/64	13/64	5.16	0.2031	28.0	66.0	36.0	6.00
R4675.2	–	5.20	0.2047	28.0	66.0	36.0	6.00
R467N5	N5	5.22	0.2055	28.0	66.0	36.0	6.00
R4675.3	–	5.30	0.2087	28.0	66.0	36.0	6.00
R4675.4	–	5.40	0.2126	28.0	66.0	36.0	6.00
R4675.5	–	5.50	0.2165	28.0	66.0	36.0	6.00
R4677/32	7/32	5.56	0.2188	28.0	66.0	36.0	6.00
R4675.6	–	5.60	0.2205	28.0	66.0	36.0	6.00
R4675.7	–	5.70	0.2244	28.0	66.0	36.0	6.00
R4675.8	–	5.80	0.2283	28.0	66.0	36.0	6.00
R4675.9	–	5.90	0.2323	28.0	66.0	36.0	6.00
R46715/64	15/64	5.95	0.2344	28.0	66.0	36.0	6.00
R4676.0	–	6.00	0.2362	28.0	66.0	36.0	6.00
R4676.05	–	6.05	0.2382	34.0	79.0	36.0	8.00
R4676.1	–	6.10	0.2402	34.0	79.0	36.0	8.00
R4676.2	–	6.20	0.2441	34.0	79.0	36.0	8.00
R4676.3	–	6.30	0.2480	34.0	79.0	36.0	8.00
R4671/4	1/4	6.35	0.2500	34.0	79.0	36.0	8.00
R4676.4	–	6.40	0.2520	34.0	79.0	36.0	8.00
R4676.5	–	6.50	0.2559	34.0	79.0	36.0	8.00
R4676.6	–	6.60	0.2598	34.0	79.0	36.0	8.00
R4676.7	–	6.70	0.2638	34.0	79.0	36.0	8.00
R46717/64	17/64	6.75	0.2656	34.0	79.0	36.0	8.00
R4676.8	–	6.80	0.2677	34.0	79.0	36.0	8.00
R4676.9	–	6.90	0.2717	34.0	79.0	36.0	8.00
R4677.0	–	7.00	0.2756	34.0	79.0	36.0	8.00
R4677.1	–	7.10	0.2795	41.0	79.0	36.0	8.00
R4679/32	9/32	7.14	0.2813	41.0	79.0	36.0	8.00
R4677.2	–	7.20	0.2835	41.0	79.0	36.0	8.00
R4677.3	–	7.30	0.2874	41.0	79.0	36.0	8.00
R4677.4	–	7.40	0.2913	41.0	79.0	36.0	8.00
R4677.5	–	7.50	0.2953	41.0	79.0	36.0	8.00
R46719/64	19/64	7.54	0.2969	41.0	79.0	36.0	8.00
R4677.6	–	7.60	0.2992	41.0	79.0	36.0	8.00
R4677.7	–	7.70	0.3031	41.0	79.0	36.0	8.00
R4677.8	–	7.80	0.3071	41.0	79.0	36.0	8.00
R4675/16	5/16	7.94	0.3125	41.0	79.0	36.0	8.00
R4678.0	–	8.00	0.3150	41.0	79.0	36.0	8.00
R4678.05	–	8.05	0.3169	47.0	89.0	40.0	10.00
R4678.1	–	8.10	0.3189	47.0	89.0	40.0	10.00
R4678.2	–	8.20	0.3228	47.0	89.0	40.0	10.00
R4678.3	–	8.30	0.3268	47.0	89.0	40.0	10.00
R4678.4	–	8.40	0.3307	47.0	89.0	40.0	10.00
R4678.5	–	8.50	0.3346	47.0	89.0	40.0	10.00
R4678.6	–	8.60	0.3386	47.0	89.0	40.0	10.00
R4678.7	–	8.70	0.3425	47.0	89.0	40.0	10.00
R46711/32	11/32	8.73	0.3438	47.0	89.0	40.0	10.00
R4678.8	–	8.80	0.3465	47.0	89.0	40.0	10.00
R4678.9	–	8.90	0.3504	47.0	89.0	40.0	10.00
R4679.0	–	9.00	0.3543	47.0	89.0	40.0	10.00
R4679.1	–	9.10	0.3583	47.0	89.0	40.0	10.00
R46723/64	23/64	9.13	0.3594	47.0	89.0	40.0	10.00
R4679.3	–	9.30	0.3661	47.0	89.0	40.0	10.00
R4679.4	–	9.40	0.3701	47.0	89.0	40.0	10.00
R4679.5	–	9.50	0.3740	47.0	89.0	40.0	10.00
R4673/8	3/8	9.53	0.3750	47.0	89.0	40.0	10.00
R4679.6	–	9.60	0.3780	47.0	89.0	40.0	10.00
R4679.7	–	9.70	0.3819	47.0	89.0	40.0	10.00
R4679.8	–	9.80	0.3858	47.0	89.0	40.0	10.00
R4679.9	–	9.90	0.3898	47.0	89.0	40.0	10.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R46725/64	25/64	9.92	0.3906	47.0	89.0	40.0	10.00
R46710.0	–	10.00	0.3937	47.0	89.0	40.0	10.00
R46710.05	–	10.05	0.3957	55.0	102.0	45.0	12.00
R46710.1	–	10.10	0.3976	55.0	102.0	45.0	12.00
R46710.2	–	10.20	0.4016	55.0	102.0	45.0	12.00
R46710.3	–	10.30	0.4055	55.0	102.0	45.0	12.00
R46713/32	13/32	10.32	0.4063	55.0	102.0	45.0	12.00
R46710.4	–	10.40	0.4094	55.0	102.0	45.0	12.00
R46710.5	–	10.50	0.4134	55.0	102.0	45.0	12.00
R46710.6	–	10.60	0.4173	55.0	102.0	45.0	12.00
R46727/64	27/64	10.72	0.4219	55.0	102.0	45.0	12.00
R46710.9	–	10.90	0.4291	55.0	102.0	45.0	12.00
R46711.0	–	11.00	0.4331	55.0	102.0	45.0	12.00
R4677/16	7/16	11.11	0.4375	55.0	102.0	45.0	12.00
R46711.2	–	11.20	0.4409	55.0	102.0	45.0	12.00
R46711.4	–	11.40	0.4488	55.0	102.0	45.0	12.00
R46711.5	–	11.50	0.4528	55.0	102.0	45.0	12.00
R46729/64	29/64	11.51	0.4531	55.0	102.0	45.0	12.00
R46711.8	–	11.80	0.4646	55.0	102.0	45.0	12.00
R46715/32	15/32	11.91	0.4688	55.0	102.0	45.0	12.00
R46712.0	–	12.00	0.4724	55.0	102.0	45.0	12.00
R46712.05	–	12.05	0.4744	60.0	107.0	45.0	14.00
R46712.1	–	12.10	0.4764	60.0	107.0	45.0	14.00
R46712.2	–	12.20	0.4803	60.0	107.0	45.0	14.00
R46731/64	31/64	12.30	0.4844	60.0	107.0	45.0	14.00
R46712.5	–	12.50	0.4921	60.0	107.0	45.0	14.00
R46712.7	–	12.70	0.5000	60.0	107.0	45.0	14.00
R4671/2	1/2	12.70	0.5000	60.0	107.0	45.0	14.00
R46713.0	–	13.00	0.5118	60.0	107.0	45.0	14.00
R46733/64	33/64	13.10	0.5156	60.0	107.0	45.0	14.00
R46717/32	17/32	13.49	0.5313	60.0	107.0	45.0	14.00
R46713.5	–	13.50	0.5315	60.0	107.0	45.0	14.00
R46735/64	35/64	13.89	0.5469	60.0	107.0	45.0	14.00
R46714.0	–	14.00	0.5512	60.0	107.0	45.0	14.00
R46714.25	–	14.25	0.5610	65.0	115.0	48.0	16.00
R4679/16	9/16	14.29	0.5625	65.0	115.0	48.0	16.00
R46714.5	–	14.50	0.5709	65.0	115.0	48.0	16.00
R46737/64	37/64	14.68	0.5781	65.0	115.0	48.0	16.00
R46715.0	–	15.00	0.5906	65.0	115.0	48.0	16.00
R46719/32	19/32	15.08	0.5938	65.0	115.0	48.0	16.00
R46715.1	–	15.10	0.5945	65.0	115.0	48.0	16.00
R46715.3	–	15.30	0.6024	65.0	115.0	48.0	16.00
R46715.5	–	15.50	0.6102	65.0	115.0	48.0	16.00
R4675/8	5/8	15.88	0.6250	65.0	115.0	48.0	16.00
R46716.0	–	16.00	0.6299	65.0	115.0	48.0	16.00

R463

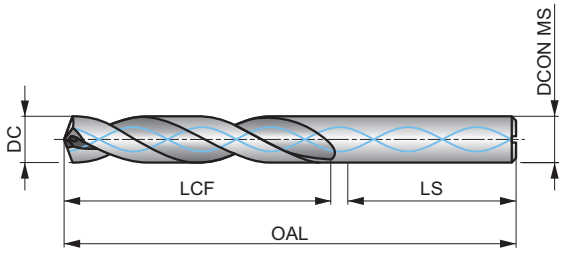
DORMER

FORCE M Punta in metallo duro integrale 5xD con fori passaggio refrigerante, rivestita TiAlN

Punta ad alte prestazioni, in grado di produrre fori precisi e di alta qualità ad alte velocità e avanzamenti (tolleranza foro H9 con acciai inossidabili e leghe resistenti al calore). Costruzione autocentrante con angolo di punta 140° a 4 facce e eliche CTW. Con fori per il passaggio interno del refrigerante, per migliorare l'evacuazione dei trucioli. Il rivestimento TiAlN aumenta la durezza superficiale e migliora la durata dell'utensile.

FORCE M

HM	DIN 6537L	5×D
140°	TiAlN	DIN 6535HA
CTW	R	
DC m7		



Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

M1.1	M1.2	M2.1	M2.2	M2.3	M3.1	M3.2	M3.3	M4.1	M4.2	S1.1	S1.2	S1.3	S2.1
■111 G	■94 G	■99 G	■81 G	■67 E	■83 G	■71 G	■65 F	■57 F	■49 E	■52 V	■43 V	■38 U	◪57 U

S2.2	S3.1	S3.2	S4.1	S4.2
◪53 U	◪43 U	◪38 U	◪33 U	◪30 U

DCON MS tolleranza h6.

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	LS (mm)	DCON MS (mm)
R4633.0	–	3.00	0.1181	28.0	66.0	36.0	6.00
R4633.1	–	3.10	0.1220	28.0	66.0	36.0	6.00
R4631/8	1/8	3.18	0.1250	28.0	66.0	36.0	6.00
R4633.2	–	3.20	0.1260	28.0	66.0	36.0	6.00
R4633.3	–	3.30	0.1299	28.0	66.0	36.0	6.00
R4633.4	–	3.40	0.1339	28.0	66.0	36.0	6.00
R463N29	N29	3.45	0.1360	28.0	66.0	36.0	6.00
R4633.5	–	3.50	0.1378	28.0	66.0	36.0	6.00
R4639/64	9/64	3.57	0.1406	28.0	66.0	36.0	6.00
R4633.6	–	3.60	0.1417	28.0	66.0	36.0	6.00
R4633.7	–	3.70	0.1457	28.0	66.0	36.0	6.00
R4633.8	–	3.80	0.1496	36.0	74.0	36.0	6.00
R4633.9	–	3.90	0.1535	36.0	74.0	36.0	6.00
R4635/32	5/32	3.97	0.1563	36.0	74.0	36.0	6.00
R4634.0	–	4.00	0.1575	36.0	74.0	36.0	6.00
R4634.05	–	4.05	0.1594	36.0	74.0	36.0	6.00
R4634.1	–	4.10	0.1614	36.0	74.0	36.0	6.00
R4634.2	–	4.20	0.1654	36.0	74.0	36.0	6.00
R4634.3	–	4.30	0.1693	36.0	74.0	36.0	6.00
R46311/64	11/64	4.37	0.1719	36.0	74.0	36.0	6.00
R4634.4	–	4.40	0.1732	36.0	74.0	36.0	6.00
R4634.5	–	4.50	0.1772	36.0	74.0	36.0	6.00
R4634.6	–	4.60	0.1811	36.0	74.0	36.0	6.00
R4634.7	–	4.70	0.1850	36.0	74.0	36.0	6.00
R4633/16	3/16	4.76	0.1875	44.0	82.0	36.0	6.00
R4634.8	–	4.80	0.1890	44.0	82.0	36.0	6.00
R4634.9	–	4.90	0.1929	44.0	82.0	36.0	6.00
R4635.0	–	5.00	0.1969	44.0	82.0	36.0	6.00
R4635.05	–	5.05	0.1988	44.0	82.0	36.0	6.00

Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R4635.1	–	5.10	0.2008	44.0	82.0	36.0	6.00
R463N7	N7	5.11	0.2010	44.0	82.0	36.0	6.00
R46313/64	13/64	5.16	0.2031	44.0	82.0	36.0	6.00
R4635.2	–	5.20	0.2047	44.0	82.0	36.0	6.00
R463N5	N5	5.22	0.2055	44.0	82.0	36.0	6.00
R4635.3	–	5.30	0.2087	44.0	82.0	36.0	6.00
R4635.5	–	5.50	0.2165	44.0	82.0	36.0	6.00
R4637/32	7/32	5.56	0.2188	44.0	82.0	36.0	6.00
R4635.6	–	5.60	0.2205	44.0	82.0	36.0	6.00
R4635.7	–	5.70	0.2244	44.0	82.0	36.0	6.00
R4635.8	–	5.80	0.2283	44.0	82.0	36.0	6.00
R4635.9	–	5.90	0.2323	44.0	82.0	36.0	6.00
R46315/64	15/64	5.95	0.2344	44.0	82.0	36.0	6.00
R4636.0	–	6.00	0.2362	44.0	82.0	36.0	6.00
R4636.05	–	6.05	0.2382	53.0	91.0	36.0	8.00
R4636.1	–	6.10	0.2402	53.0	91.0	36.0	8.00
R4636.2	–	6.20	0.2441	53.0	91.0	36.0	8.00
R4636.3	–	6.30	0.2480	53.0	91.0	36.0	8.00
R4631/4	1/4	6.35	0.2500	53.0	91.0	36.0	8.00
R4636.4	–	6.40	0.2520	53.0	91.0	36.0	8.00
R4636.5	–	6.50	0.2559	53.0	91.0	36.0	8.00
R4636.6	–	6.60	0.2598	53.0	91.0	36.0	8.00
R4636.7	–	6.70	0.2638	53.0	91.0	36.0	8.00
R46317/64	17/64	6.75	0.2656	53.0	91.0	36.0	8.00
R4636.8	–	6.80	0.2677	53.0	91.0	36.0	8.00
R4636.9	–	6.90	0.2717	53.0	91.0	36.0	8.00
R4637.0	–	7.00	0.2756	53.0	91.0	36.0	8.00
R4637.1	–	7.10	0.2795	53.0	91.0	36.0	8.00
R4637.2	–	7.20	0.2835	53.0	91.0	36.0	8.00
R4637.3	–	7.30	0.2874	53.0	91.0	36.0	8.00
R4637.4	–	7.40	0.2913	53.0	91.0	36.0	8.00
R4637.5	–	7.50	0.2953	53.0	91.0	36.0	8.00
R4637.6	–	7.60	0.2992	53.0	91.0	36.0	8.00
R4637.7	–	7.70	0.3031	53.0	91.0	36.0	8.00
R4637.8	–	7.80	0.3071	53.0	91.0	36.0	8.00
R4637.9	–	7.90	0.3110	53.0	91.0	36.0	8.00
R4635/16	5/16	7.94	0.3125	53.0	91.0	36.0	8.00
R4638.0	–	8.00	0.3150	53.0	91.0	36.0	8.00
R4638.05	–	8.05	0.3169	61.0	103.0	40.0	10.00
R4638.1	–	8.10	0.3189	61.0	103.0	40.0	10.00
R4638.2	–	8.20	0.3228	61.0	103.0	40.0	10.00
R4638.3	–	8.30	0.3268	61.0	103.0	40.0	10.00
R46321/64	21/64	8.33	0.3281	61.0	103.0	40.0	10.00
R4638.4	–	8.40	0.3307	61.0	103.0	40.0	10.00
R4638.5	–	8.50	0.3346	61.0	103.0	40.0	10.00
R4638.6	–	8.60	0.3386	61.0	103.0	40.0	10.00
R4638.7	–	8.70	0.3425	61.0	103.0	40.0	10.00
R46311/32	11/32	8.73	0.3438	61.0	103.0	40.0	10.00
R4638.8	–	8.80	0.3465	61.0	103.0	40.0	10.00
R4638.9	–	8.90	0.3504	61.0	103.0	40.0	10.00
R4639.0	–	9.00	0.3543	61.0	103.0	40.0	10.00
R4639.1	–	9.10	0.3583	61.0	103.0	40.0	10.00
R46323/64	23/64	9.13	0.3594	61.0	103.0	40.0	10.00
R4639.2	–	9.20	0.3622	61.0	103.0	40.0	10.00
R4639.3	–	9.30	0.3661	61.0	103.0	40.0	10.00
R4639.4	–	9.40	0.3701	61.0	103.0	40.0	10.00
R4639.5	–	9.50	0.3740	61.0	103.0	40.0	10.00
R4633/8	3/8	9.53	0.3750	61.0	103.0	40.0	10.00
R4639.6	–	9.60	0.3780	61.0	103.0	40.0	10.00
R4639.7	–	9.70	0.3819	61.0	103.0	40.0	10.00
R4639.8	–	9.80	0.3858	61.0	103.0	40.0	10.00
R4639.9	–	9.90	0.3898	61.0	103.0	40.0	10.00

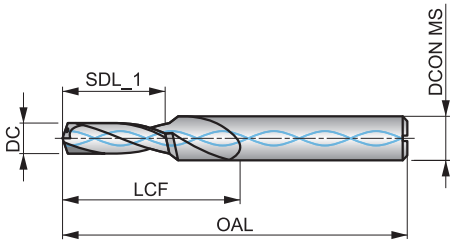
Product	DC	DC	DC	LCF	OAL	LS	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
R46310.0	–	10.00	0.3937	61.0	103.0	40.0	10.00
R46310.05	–	10.05	0.3957	70.0	118.0	45.0	12.00
R46310.1	–	10.10	0.3976	70.0	118.0	45.0	12.00
R46310.2	–	10.20	0.4016	70.0	118.0	45.0	12.00
R46310.3	–	10.30	0.4055	70.0	118.0	45.0	12.00
R46313/32	13/32	10.32	0.4063	70.0	118.0	45.0	12.00
R46310.4	–	10.40	0.4094	70.0	118.0	45.0	12.00
R46310.5	–	10.50	0.4134	70.0	118.0	45.0	12.00
R46327/64	27/64	10.72	0.4219	70.0	118.0	45.0	12.00
R46310.8	–	10.80	0.4252	70.0	118.0	45.0	12.00
R46311.0	–	11.00	0.4331	70.0	118.0	45.0	12.00
R4637/16	7/16	11.11	0.4375	70.0	118.0	45.0	12.00
R46311.2	–	11.20	0.4409	70.0	118.0	45.0	12.00
R46311.3	–	11.30	0.4449	70.0	118.0	45.0	12.00
R46311.4	–	11.40	0.4488	70.0	118.0	45.0	12.00
R46311.5	–	11.50	0.4528	70.0	118.0	45.0	12.00
R46329/64	29/64	11.51	0.4531	70.0	118.0	45.0	12.00
R46311.6	–	11.60	0.4567	70.0	118.0	45.0	12.00
R46311.8	–	11.80	0.4646	70.0	118.0	45.0	12.00
R46315/32	15/32	11.91	0.4688	70.0	118.0	45.0	12.00
R46312.0	–	12.00	0.4724	70.0	118.0	45.0	12.00
R46312.05	–	12.05	0.4744	76.0	124.0	45.0	14.00
R46312.2	–	12.20	0.4803	76.0	124.0	45.0	14.00
R46331/64	31/64	12.30	0.4844	76.0	124.0	45.0	14.00
R46312.5	–	12.50	0.4921	76.0	124.0	45.0	14.00
R46312.7	–	12.70	0.5000	76.0	124.0	45.0	14.00
R4631/2	1/2	12.70	0.5000	76.0	124.0	45.0	14.00
R46312.8	–	12.80	0.5039	76.0	124.0	45.0	14.00
R46313.0	–	13.00	0.5118	76.0	124.0	45.0	14.00
R46333/64	33/64	13.10	0.5156	76.0	124.0	45.0	14.00
R46313.5	–	13.50	0.5315	76.0	124.0	45.0	14.00
R46313.8	–	13.80	0.5433	76.0	124.0	45.0	14.00
R46314.0	–	14.00	0.5512	76.0	124.0	45.0	14.00
R46314.25	–	14.25	0.5610	82.0	133.0	48.0	16.00
R46314.5	–	14.50	0.5709	82.0	133.0	48.0	16.00
R46315.0	–	15.00	0.5906	82.0	133.0	48.0	16.00
R46315.3	–	15.30	0.6024	82.0	133.0	48.0	16.00
R46315.5	–	15.50	0.6102	82.0	133.0	48.0	16.00
R46315.8	–	15.80	0.6220	82.0	133.0	48.0	16.00
R46316.0	–	16.00	0.6299	82.0	133.0	48.0	16.00

R7131

DORMER

Punta preforo e smusso in metallo duro integrale, rivestita in TiAlN con fori passaggio refrigerante

Punta versatile, con diametri e lunghezze pilota specifici per ottenere dimensioni e profondità del foro per filettature metriche. Forare e smussare in un'unica operazione riduce il tempo di ciclo e l'inventario degli utensili. Con angolo in punta di 140° e smusso di 90°. Il rivestimento TiAlN migliora le prestazioni e prolunga la durata dell'utensile. Adatta per forare molti materiali.



HM | DORMER | 3×D

90° | TiAlN | DIN 6535HA

λ 20-35° | R

DC m7

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	M1.1	M1.2	M2.1
139 W	156 W	161 W	119 W	105 W	93 V	96 V	77 V	65 V	57 V	48 V	62 V	52 V	55 V
M2.2	**M3.1**	**M3.2**	**M3.3**	**M4.1**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**
45 V	47 V	40 V	36 U	35 U	90 W	67 W	50 W	92 V	75 V	60 V	82 V	62 V	50 V
K4.1	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**
76 V	57 V	42 V	36 V	30 V	86 V	64 V	50 V	250 W	188 W	125 W	308 V	277 V	200 V
N3.1	**N3.2**	**N3.3**											
373 W	220 W	110 W											

DCON MS tolleranza h6.

Product	DC (mm)	DC (inch)	SDL_1 (mm)	LCF (mm)	OAL (mm)	DCON MS (mm)	TDZ
R71313.3	3.30	0.1299	11.40	20.0	66.0	6.00	M4
R71314.2	4.20	0.1654	13.60	24.0	66.0	6.00	M5
R71315.0	5.00	0.1969	16.50	28.0	79.0	8.00	M6
R71316.8	6.80	0.2677	21.00	34.0	89.0	10.00	M8
R71318.5	8.50	0.3346	25.50	47.0	102.0	12.00	M10
R713110.2	10.20	0.4016	30.00	55.0	107.0	14.00	M12
R713110.4	10.40	0.4094	30.00	55.0	107.0	14.00	M12

Codice materiale (BMC)	HSS	HSS	HSS	HSS	HSS	HM	HM						
Gruppo standard di base (BSG)	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER						
Lunghezza utilizzabile (ULDR)	1.5×D	3×D	5×D	8×D	12×D								
Angolo di applicazione						140°	140°						
Rivestimento	Bright Ni	Bright Ni	Bright Ni	Bright Ni	Bright Ni	Ti-phon	Ti-phon						
Codolo	ISO 9766	DIN 6535HB DIN 6535HE	DIN 6535HB DIN 6535HE	DIN 6535HB DIN 6535HE									
Direzione di taglio	R	R	R	R	R	R	R						
Raffreddamento (CSP)													
	 HYDRA	 HYDRA	 HYDRA	 HYDRA	 HYDRA	 HYDRA	 HYDRA	 HYDRA	 HYDRA				
Codice Famiglia Prodotto	H851	H853	H855	H858	H8512	R950	R960	H860	H861				
Gamma diametri di taglio PSF	31/64 - 30.00	12.00 - 42.50	12.00 - 42.50	14.00 - 42.50	14.00 - 25.00	15/32 - 42.00	15/32 - 30.50	N1 - N7	N1 - N5				
	218	219	221	223	224	225	227	229	229				
P	P1						◪	■					
	P2						■	◪					
	P3						■						
	P4						■						
M	M1							■					
	M2							■					
	M3							■					
	M4							■					
K	K1							■					
	K2						■	◪					
	K3						■	◪					
	K4						■	◪					
	K5						■	◪					
N	N1												
	N2												
	N3												
	N4												
	N5												
S	S1							◪					
	S2							◪					
	S3							◪					
	S4							◪					
H	H1												
	H2												
	H3												
	H4												

■ Uso primario ◪ Uso possibile

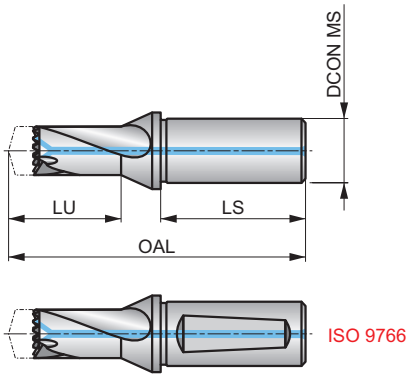
H851

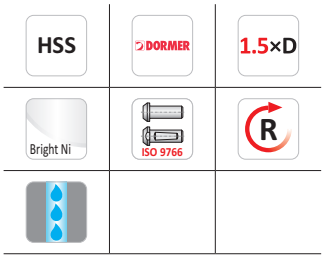
DORMER

Corpo punta HYDRA 1.5xD, con fori passaggio refrigerante, superficie Nichelata

Da abbinare con cuspidi HYDRA R950 e R960 . È possibile utilizzare una gamma di cuspidi con diversi diametri, con lo stesso corpo. I fori del refrigerante che si allineano con le cuspidi offrono un raffreddamento efficiente. Il codolo con flangia impedisce alla punta di arretrare nel mandrino. La superficie nichelata protegge dalla ruggine e dalla corrosione e migliora l'evacuazione dei trucioli.

HYDRA





Quattro (4) viti e un (1) cacciavite sono inclusi con un corpo punta, tolleranza DCON MS h6.

Product	DCON MS (inch)	DCON MS (mm)	LU (mm)	OAL (mm)	LS (mm)	ADINTMS
H85131/64	5/8	15.88	25.50	88.5	47.6	Cylindrical
H85117/32	5/8	15.88	30.90	93.9	47.6	Cylindrical
H85112.0	–	16.00	25.50	88.5	48.0	ISO 9766
H85112.5	–	16.00	25.80	88.8	48.0	ISO 9766
H85113.0	–	16.00	27.00	90.0	48.0	ISO 9766
H85114.0	–	16.00	30.90	93.9	48.0	ISO 9766
H85139/64	3/4	19.05	32.30	97.3	50.8	Cylindrical
H85141/64	3/4	19.05	34.90	99.9	50.8	Cylindrical
H85111/16	3/4	19.05	36.40	101.4	50.8	Cylindrical
H85123/32	3/4	19.05	39.00	104.0	50.8	Cylindrical
H85115.0	–	20.00	32.30	97.3	50.0	ISO 9766
H85116.0	–	20.00	34.90	99.9	50.0	ISO 9766
H85117.0	–	20.00	36.40	101.4	50.0	ISO 9766
H85118.0	–	20.00	39.00	104.0	50.0	ISO 9766
H85119.0	–	25.00	40.40	111.4	56.0	ISO 9766
H85120.0	–	25.00	43.00	114.0	56.0	ISO 9766
H85121.0	–	25.00	44.50	115.5	56.0	ISO 9766
H85122.0	–	25.00	46.10	117.1	56.0	ISO 9766
H85123.0	–	25.00	47.00	118.0	56.0	ISO 9766
H85149/64	1″	25.40	40.40	111.4	57.1	Cylindrical
H85151/64	1″	25.40	43.00	114.0	57.1	Cylindrical
H85127/32	1″	25.40	44.50	115.5	57.1	Cylindrical
H85157/64	1″	25.40	46.10	117.1	57.1	Cylindrical
H85159/64	1″	25.40	47.00	118.0	57.1	Cylindrical
H85131/32	1″	25.40	49.30	124.3	57.1	Cylindrical
H8511.1/64	1.1/4	31.75	49.70	124.7	60.3	Cylindrical
H8511.3/64	1.1/4	31.75	52.30	127.3	60.3	Cylindrical
H8511.3/32	1.1/4	31.75	52.80	127.8	60.3	Cylindrical
H8511.3/16	1.1/4	31.75	58.40	133.4	60.3	Cylindrical
H85124.0	–	32.00	49.30	124.3	60.0	ISO 9766
H85125.0	–	32.00	49.70	124.7	60.0	ISO 9766
H85126.0	–	32.00	52.30	127.3	60.0	ISO 9766
H85127.0	–	32.00	52.80	127.8	60.0	ISO 9766
H85128.0	–	32.00	54.40	129.4	60.0	ISO 9766
H85129.0	–	32.00	55.80	130.8	60.0	ISO 9766
H85130.0	–	32.00	58.40	133.4	60.0	ISO 9766

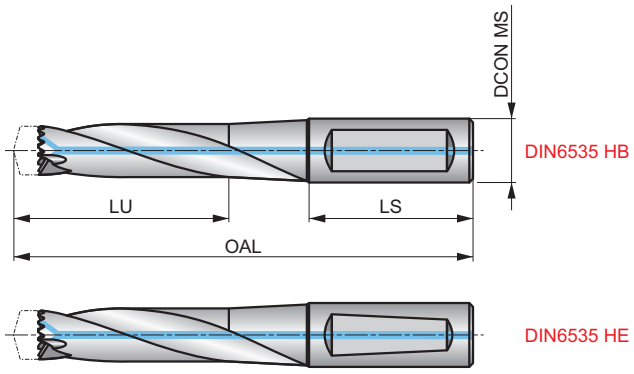
H853

DORMER

Corpo punta HYDRA 3xD, con fori passaggio refrigerante, superficie Nichelata

Da abbinare con cuspidi HYDRA R950 e R960 . È possibile utilizzare una gamma di cuspidi con diversi diametri, con lo stesso corpo. I fori del refrigerante che si allineano con le cuspidi offrono un raffreddamento efficiente. La superficie nichelata protegge dalla ruggine e dalla corrosione e migliora l'evacuazione dei trucioli.

HYDRA



HSS	DORMER	3×D
Bright Ni	DIN 6535HB DIN 6535HE	R

Quattro (4) viti e un (1) cacciavite sono inclusi con un corpo punta, tolleranza DCON MS h6.

Product	DCON MS (inch)	DCON MS (mm)	LU (mm)	OAL (mm)	LS (mm)	ADINTMS
H85312.0	–	16.00	44.00	105.0	48.0	DIN6535HE
H85331/64	5/8	15.88	44.00	105.0	48.0	DIN6535HB
H85312.5	–	16.00	44.00	105.0	48.0	DIN6535HE
H8531/2	5/8	15.88	44.00	105.0	48.0	DIN6535HB
H85313.0	–	16.00	47.00	110.0	48.0	DIN6535HE
H85317/32	5/8	15.88	47.00	110.0	48.0	DIN6535HB
H85314.0	–	16.00	52.50	116.5	48.0	DIN6535HE
H8539/16	3/4	19.05	52.50	116.5	48.0	DIN6535HB
H85315.0	–	20.00	55.50	126.5	50.0	DIN6535HE
H85339/64	3/4	19.05	55.50	126.5	50.0	DIN6535HB
H85316.0	–	20.00	59.50	131.5	50.0	DIN6535HE
H85341/64	3/4	19.05	59.50	131.5	50.0	DIN6535HB
H85317.0	–	20.00	62.50	136.5	50.0	DIN6535HE
H85311/16	3/4	19.05	62.50	136.5	50.0	DIN6535HB
H85318.0	–	20.00	66.50	141.5	50.0	DIN6535HE
H85323/32	3/4	19.05	66.50	141.5	50.0	DIN6535HB
H85319.0	–	25.00	69.50	156.5	56.0	DIN6535HE
H85349/64	1″	25.40	69.50	156.5	56.0	DIN6535HB
H85320.0	–	25.00	73.50	156.5	56.0	DIN6535HE
H85351/64	1″	25.40	73.50	156.5	56.0	DIN6535HB
H85321.0	–	25.00	76.50	156.5	56.0	DIN6535HE
H85327/32	1″	25.40	76.50	156.5	56.0	DIN6535HB
H85322.0	–	25.00	80.10	161.5	56.0	DIN6535HE
H85357/64	1″	25.40	80.10	161.5	56.0	DIN6535HB
H85323.0	–	25.00	82.50	160.5	56.0	DIN6535HE
H85359/64	1″	25.40	82.50	160.5	56.0	DIN6535HB
H85324.0	–	32.00	86.20	170.2	60.0	DIN6535HE
H85331/32	1″	25.40	86.20	170.2	60.0	DIN6535HB
H85325.0	–	32.00	88.00	170.0	60.0	DIN6535HE
H8531.1/64	1.1/4	31.75	88.00	170.0	60.0	DIN6535HB
H85326.0	–	32.00	92.00	175.0	60.0	DIN6535HE
H8531.3/64	1.1/4	31.75	92.00	175.0	60.0	DIN6535HB
H85327.0	–	32.00	94.00	175.0	60.0	DIN6535HE
H8531.3/32	1.1/4	31.75	94.00	175.0	60.0	DIN6535HB

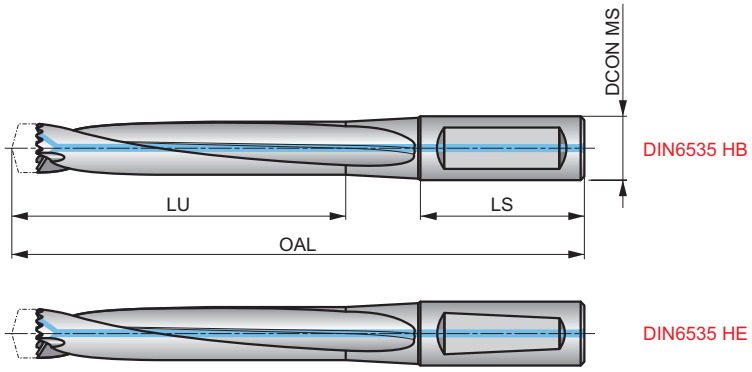
Product	DCON MS	DCON MS	LU	OAL	LS	ADINTMS
	(inch)	(mm)	(mm)	(mm)	(mm)	
H85328.0	–	32.00	97.00	180.0	60.0	DIN6535HE
H8531.1/8	1.1/4	31.75	97.00	180.0	60.0	DIN6535HB
H85329.0	–	32.00	100.00	185.0	60.0	DIN6535HE
H8531.11/64	1.1/4	31.75	100.00	185.0	60.0	DIN6535HB
H85330.0	–	32.00	104.00	185.0	60.0	DIN6535HE
H8531.3/16	1.1/4	31.75	104.00	185.0	60.0	DIN6535HB
H85332.0	–	32.00	111.50	196.5	60.0	DIN6535HE
H85333.5	–	32.00	116.50	201.5	60.0	DIN6535HE
H85335.0	–	40.00	121.50	216.5	70.0	DIN6535HB
H85336.5	–	40.00	125.50	221.5	70.0	DIN6535HB
H85338.0	–	40.00	131.50	226.5	70.0	DIN6535HB
H85339.5	–	40.00	136.50	231.5	70.0	DIN6535HB
H85341.0	–	40.00	146.50	246.5	70.0	DIN6535HB
H85342.5	–	40.00	151.60	251.6	70.0	DIN6535HB

H855

Corpo punta HYDRA 5xD, con fori passaggio refrigerante, superficie Nichelata

Da abbinare con cuspidi HYDRA R950 e R960 . È possibile utilizzare una gamma di cuspidi con diversi diametri, con lo stesso corpo. I fori del refrigerante che si allineano con le cuspidi offrono un raffreddamento efficiente. La superficie nichelata protegge dalla ruggine e dalla corrosione e migliora l'evacuazione dei trucioli.

HYDRA



HSS	DORMER	5×D
Bright Ni	DIN 6535HB DIN 6535HE	R

Quattro (4) viti e un (1) cacciavite sono inclusi con un corpo punta, tolleranza DCON MS h6.

Product	DCON MS (inch)	DCON MS (mm)	LU (mm)	OAL (mm)	LS (mm)	ADINTMS
H85512.0	–	16.00	69.00	130.0	48.0	DIN6535HE
H85531/64	5/8	15.88	69.00	130.0	48.0	DIN6535HB
H85512.5	–	16.00	69.00	130.0	48.0	DIN6535HE
H8551/2	5/8	15.88	69.00	130.0	48.0	DIN6535HB
H85513.0	–	16.00	74.00	140.0	48.0	DIN6535HE
H85517/32	5/8	15.88	74.00	140.0	48.0	DIN6535HB
H85514.0	–	16.00	81.50	146.5	48.0	DIN6535HE
H8559/16	3/4	19.05	81.50	146.5	48.0	DIN6535HB
H85515.0	–	20.00	86.50	156.5	50.0	DIN6535HE
H85539/64	3/4	19.05	86.50	156.5	50.0	DIN6535HB
H85516.0	–	20.00	92.50	166.5	50.0	DIN6535HE
H85541/64	3/4	19.05	92.50	166.5	50.0	DIN6535HB
H85517.0	–	20.00	97.50	171.5	50.0	DIN6535HE
H85511/16	3/4	19.05	97.50	171.5	50.0	DIN6535HB
H85518.0	–	20.00	103.50	176.5	50.0	DIN6535HE
H85523/32	3/4	19.05	103.50	176.5	50.0	DIN6535HB
H85519.0	–	25.00	108.50	191.5	56.0	DIN6535HE
H85549/64	1″	25.40	108.50	191.5	56.0	DIN6535HB
H85520.0	–	25.00	114.50	196.5	56.0	DIN6535HE
H85551/64	1″	25.40	114.50	196.5	56.0	DIN6535HB
H85521.0	–	25.00	119.50	196.5	56.0	DIN6535HE
H85527/32	1″	25.40	119.50	196.5	56.0	DIN6535HB
H85522.0	–	25.00	125.10	201.1	56.0	DIN6535HE
H85557/64	1″	25.40	125.10	201.1	56.0	DIN6535HB
H85523.0	–	25.00	129.50	210.5	56.0	DIN6535HE
H85559/64	1″	25.40	129.50	210.5	56.0	DIN6535HB
H85524.0	–	32.00	135.20	220.2	60.0	DIN6535HE
H85531/32	1″	25.40	135.20	220.2	60.0	DIN6535HB
H85525.0	–	32.00	140.00	225.0	60.0	DIN6535HE
H8551.1/64	1.1/4	31.75	140.00	225.0	60.0	DIN6535HB
H85526.0	–	32.00	146.00	230.0	60.0	DIN6535HE
H8551.3/64	1.1/4	31.75	146.00	230.0	60.0	DIN6535HB
H85527.0	–	32.00	151.00	235.0	60.0	DIN6535HE
H8551.3/32	1.1/4	31.75	151.00	235.0	60.0	DIN6535HB

Product	DCON MS	DCON MS	LU	OAL	LS	ADINTMS
	(inch)	(mm)	(mm)	(mm)	(mm)	
H85528.0	–	32.00	157.00	240.0	60.0	DIN6535HE
H8551.1/8	1.1/4	31.75	157.00	240.0	60.0	DIN6535HB
H85529.0	–	32.00	162.00	245.0	60.0	DIN6535HE
H8551.11/64	1.1/4	31.75	162.00	245.0	60.0	DIN6535HB
H85530.0	–	32.00	167.00	255.0	60.0	DIN6535HE
H8551.3/16	1.1/4	31.75	167.00	255.0	60.0	DIN6535HB
H85532.0	–	32.00	176.50	261.5	60.0	DIN6535HE
H85533.5	–	32.00	186.50	271.5	60.0	DIN6535HE
H85535.0	–	40.00	196.50	291.5	70.0	DIN6535HB
H85536.5	–	40.00	201.50	296.5	70.0	DIN6535HB
H85538.0	–	40.00	211.50	306.5	70.0	DIN6535HB
H85539.5	–	40.00	221.50	316.5	70.0	DIN6535HB
H85541.0	–	40.00	226.50	325.6	70.0	DIN6535HB
H85542.5	–	40.00	236.50	336.5	70.0	DIN6535HB

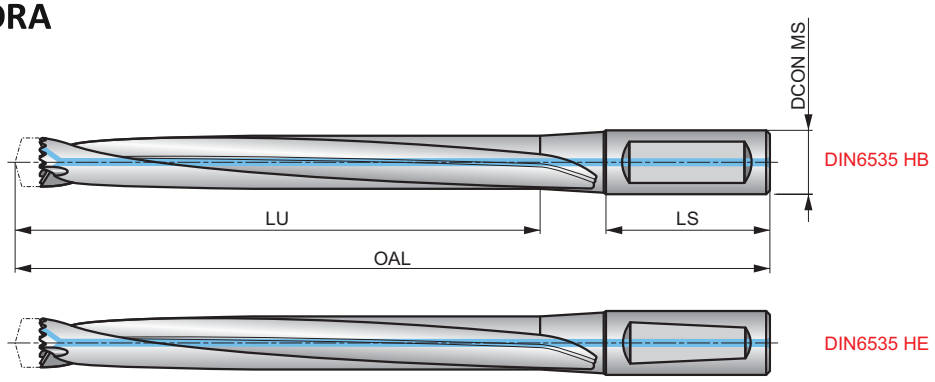
H858

DORMER

Corpo punta HYDRA 8xD, con fori passaggio refrigerante, superficie Nichelata

Da utilizzare con cuspidi HYDRA R950 e R960 . È possibile utilizzare una gamma di cuspidi con diversi diametri, con lo stesso corpo. I fori del refrigerante che si allineano con le cuspidi offrono un raffreddamento efficiente. La superficie nichelata protegge dalla ruggine e dalla corrosione e migliora l'evacuazione dei trucioli.

HYDRA



HSS	DORMER	8×D
Bright Ni	DIN 6535HB DIN 6535HE	R

Quattro (4) viti e un (1) cacciavite sono inclusi con un corpo punta, tolleranza DCON MS h6.

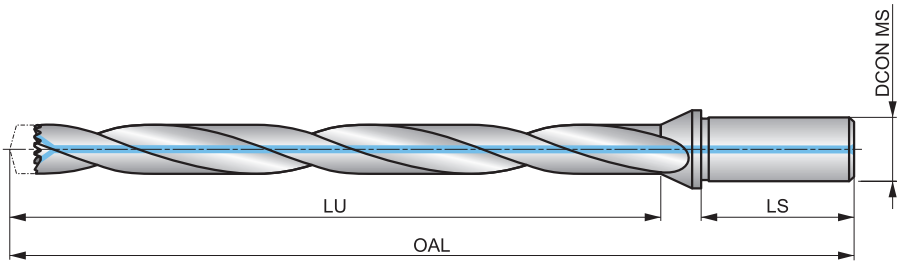
Product	DCON MS (mm)	LU (mm)	OAL (mm)	LS (mm)	ADINTMS
H85814.0	16.00	124.50	191.5	48.0	DIN6535HE
H85815.0	20.00	133.50	201.5	50.0	DIN6535HE
H85816.0	20.00	141.50	211.5	50.0	DIN6535HE
H85817.0	20.00	150.50	221.5	50.0	DIN6535HE
H85818.0	20.00	158.50	226.5	50.0	DIN6535HE
H85819.0	25.00	167.50	251.5	56.0	DIN6535HE
H85820.0	25.00	175.50	264.5	56.0	DIN6535HE
H85821.0	25.00	184.50	266.5	56.0	DIN6535HE
H85822.0	25.00	192.10	271.1	56.0	DIN6535HE
H85823.0	25.00	200.50	280.5	56.0	DIN6535HE
H85824.0	32.00	208.20	295.2	60.0	DIN6535HE
H85825.0	32.00	217.00	300.0	60.0	DIN6535HE
H85826.0	32.00	225.00	310.0	60.0	DIN6535HE
H85827.0	32.00	234.00	320.0	60.0	DIN6535HE
H85828.0	32.00	242.00	325.0	60.0	DIN6535HE
H85829.0	32.00	251.00	335.0	60.0	DIN6535HE
H85830.0	32.00	259.00	345.0	60.0	DIN6535HE
H85832.0	32.00	271.50	356.5	60.0	DIN6535HE
H85833.5	32.00	286.50	371.5	60.0	DIN6535HE
H85835.0	40.00	301.50	396.5	70.0	DIN6535HB
H85836.5	40.00	311.50	406.5	70.0	DIN6535HB
H85838.0	40.00	326.50	421.5	70.0	DIN6535HB
H85839.5	40.00	336.50	431.5	70.0	DIN6535HB
H85841.0	40.00	351.50	451.5	70.0	DIN6535HB
H85842.5	40.00	361.50	461.5	70.0	DIN6535HB

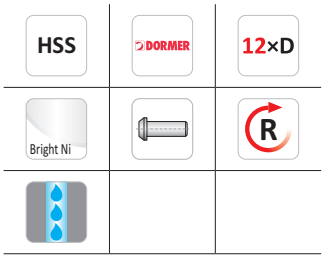
H8512

Corpo punta HYDRA 12xD, con fori passaggio refrigerante, superficie Nichelata

Da abbinare con cuspidi HYDRA R950 e R960 . È possibile utilizzare una gamma di cuspidi con diversi diametri, con lo stesso corpo. I fori del refrigerante che si allineano con le cuspidi offrono un raffreddamento efficiente. Il codolo con flangia impedisce alla punta di arretrare nel mandrino. La superficie nichelata protegge dalla ruggine e dalla corrosione e migliora l'evacuazione dei trucioli.

HYDRA



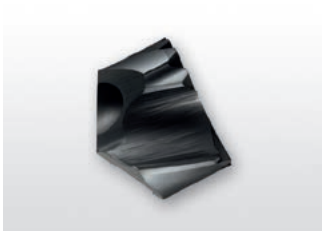


Quattro (4) viti e un (1) cacciavite sono inclusi con un corpo punta, tolleranza DCON MS h6.

Product	DCON MS (mm)	LU (mm)	OAL (mm)	LS (mm)
H851214.0	16.00	168.00	236.0	48.0
H851215.0	20.00	180.00	250.3	50.0
H851216.0	20.00	192.00	262.6	50.0
H851217.0	20.00	204.00	275.0	50.0
H851218.0	20.00	216.00	287.2	50.0
H851219.0	25.00	228.00	305.6	56.0
H851220.0	25.00	240.00	317.8	56.0
H851221.0	25.00	252.00	330.1	56.0
H851222.0	25.00	264.00	343.0	56.0
H851223.0	25.00	276.00	354.8	56.0
H851224.0	32.00	288.00	371.7	60.0
H851225.0	32.00	300.00	383.8	60.0

R950

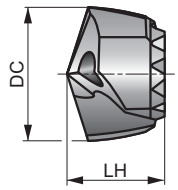
DORMER



Cuspide HYDRA per acciai, rivestimento Ti-phon

Cuspide ad elevato rapporto costi-benefici e un design accurato per applicazioni ad alte prestazioni in acciai debolmente e altamente legati. Un angolo di punta 140° a 4 facce aiuta l'autocentratura e riduce le forze di taglio. Il rivestimento Ti-phon previene la formazione del tagliente di riporto e migliora notevolmente il flusso del truciolo, con una resistenza all'usura e una durezza del tagliente superiori.

HYDRA



HM | DORMER | 140° | Ti-phon | R | DC h7

H851	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **1.10**
H853	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **1.00**
H855	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **0.80**
H858	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **0.60**
H8512	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **0.50**

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M2.3	M4.2
133 W	148 W	154 W	114 W	100 W	88 W	125 W	101 W	85 W	75 W	63 W	52 T	41 T	35 T
K2.1	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**
108 V	88 V	70 V	96 V	73 V	59 V	89 V	67 V	49 V	42 V	35 V	100 V	76 V	58 V

Product	DC (inch)	DC (mm)	DC (inch)	LH (mm)
R95015/32	15/32	11.91	0.4688	9.1
R95012.0	–	12.00	0.4724	9.1
R95012.1	–	12.10	0.4764	9.1
R95012.2	–	12.20	0.4803	9.1
R95031/64	31/64	12.30	0.4844	9.1
R95012.5	–	12.50	0.4921	9.4
R95012.6	–	12.60	0.4961	9.4
R9501/2	1/2	12.70	0.5000	9.4
R95012.8	–	12.80	0.5039	9.4
R95012.9	–	12.90	0.5079	9.4
R95013.0	–	13.00	0.5118	9.7
R95033/64	33/64	13.10	0.5156	9.7
R95013.2	–	13.20	0.5197	9.7
R95017/32	17/32	13.49	0.5313	9.7
R95013.5	–	13.50	0.5315	10.3
R95013.6	–	13.60	0.5354	10.3
R95013.7	–	13.70	0.5394	10.3
R95013.8	–	13.80	0.5433	10.3
R95035/64	35/64	13.89	0.5469	10.3
R95014.0	–	14.00	0.5512	10.3
R95014.1	–	14.10	0.5551	10.3
R95014.2	–	14.20	0.5591	10.3
R9509/16	9/16	14.29	0.5625	10.3
R95014.5	–	14.50	0.5709	10.3
R95014.6	–	14.60	0.5748	11.0
R95037/64	37/64	14.68	0.5781	11.0
R95014.7	–	14.70	0.5787	11.0
R95014.8	–	14.80	0.5827	11.0
R95015.0	–	15.00	0.5906	11.0
R95019/32	19/32	15.08	0.5938	11.0

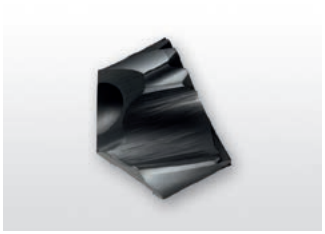
Product	DC (inch)	DC (mm)	DC (inch)	LH (mm)
R95015.1	–	15.10	0.5945	11.0
R95015.2	–	15.20	0.5984	11.0
R95015.24	–	15.24	0.6000	11.0
R95039/64	39/64	15.48	0.6094	11.0
R95015.5	–	15.50	0.6102	11.0
R95015.6	–	15.60	0.6142	11.6
R95015.7	–	15.70	0.6181	11.6
R9505/8	5/8	15.88	0.6250	11.6
R95016.0	–	16.00	0.6299	11.6
R95016.08	–	16.08	0.6331	11.6
R95016.1	–	16.10	0.6339	11.6
R95016.2	–	16.20	0.6378	11.6
R95041/64	41/64	16.27	0.6406	11.6
R95016.3	–	16.30	0.6417	11.6
R95016.5	–	16.50	0.6496	11.6
R95016.6	–	16.60	0.6535	12.2
R95021/32	21/32	16.67	0.6563	12.2
R95016.7	–	16.70	0.6575	12.2
R95017.0	–	17.00	0.6693	12.2
R95043/64	43/64	17.07	0.6719	12.2
R95017.1	–	17.10	0.6732	12.2
R95017.2	–	17.20	0.6772	12.2
R95011/16	11/16	17.46	0.6875	12.2
R95017.5	–	17.50	0.6890	12.2
R95017.6	–	17.60	0.6929	12.9
R95017.7	–	17.70	0.6969	12.9
R95045/64	45/64	17.86	0.7031	12.9
R95018.0	–	18.00	0.7087	12.9
R95018.1	–	18.10	0.7126	12.9
R95018.2	–	18.20	0.7165	12.9

Product	DC	DC	DC	LH
	(inch)	(mm)	(inch)	(mm)
R95023/32	23/32	18.26	0.7188	12.9
R95018.5	–	18.50	0.7283	12.9
R95018.6	–	18.60	0.7323	13.5
R95047/64	47/64	18.65	0.7344	13.5
R95018.7	–	18.70	0.7362	13.5
R95018.9	–	18.90	0.7441	13.5
R95019.0	–	19.00	0.7480	13.5
R9503/4	3/4	19.05	0.7500	13.5
R95019.1	–	19.10	0.7520	13.5
R95019.2	–	19.20	0.7559	13.5
R95019.25	–	19.25	0.7579	13.5
R95019.3	–	19.30	0.7598	13.5
R95019.35	–	19.35	0.7618	13.5
R95049/64	49/64	19.45	0.7656	13.5
R95019.5	–	19.50	0.7677	13.5
R95019.6	–	19.60	0.7717	14.1
R95019.7	–	19.70	0.7756	14.1
R95025/32	25/32	19.84	0.7813	14.1
R95020.0	–	20.00	0.7874	14.1
R95051/64	51/64	20.24	0.7969	14.1
R95020.5	–	20.50	0.8071	14.1
R95013/16	13/16	20.64	0.8125	14.8
R95021.0	–	21.00	0.8268	14.8
R95053/64	53/64	21.03	0.8281	14.8
R95027/32	27/32	21.43	0.8438	14.8
R95021.5	–	21.50	0.8465	14.8
R95055/64	55/64	21.83	0.8594	15.0
R95022.0	–	22.00	0.8661	15.0
R9507/8	7/8	22.22	0.8750	15.0
R95022.5	–	22.50	0.8858	15.0
R95057/64	57/64	22.62	0.8906	15.0
R95022.7	–	22.70	0.8937	15.0
R95023.0	–	23.00	0.9055	15.1
R95029/32	29/32	23.02	0.9063	15.1
R95059/64	59/64	23.42	0.9219	15.1
R95023.5	–	23.50	0.9252	15.1
R95015/16	15/16	23.81	0.9375	15.4
R95024.0	–	24.00	0.9449	15.4
R95061/64	61/64	24.21	0.9531	15.4
R95024.5	–	24.50	0.9646	15.4
R95031/32	31/32	24.61	0.9688	15.4
R95025.0	–	25.00	0.9844	15.8
R95063/64	63/64	25.00	0.9844	15.8
R9501	1″	25.40	1.0000	15.8
R95025.5	–	25.50	1.0039	15.8
R95025.6	–	25.60	1.0079	15.8
R95025.65	–	25.65	1.0098	15.8
R9501.1/64	1.1/64	25.80	1.0156	15.8
R95026.0	–	26.00	1.0236	16.4
R9501.1/32	1.1/32	26.19	1.0313	16.4

Product	DC	DC	DC	LH
	(inch)	(mm)	(inch)	(mm)
R95026.5	–	26.50	1.0433	16.4
R9501.3/64	1.3/64	26.59	1.0469	16.4
R9501.1/16	1.1/16	26.99	1.0625	17.1
R95027.0	–	27.00	1.0630	17.1
R9501.5/64	1.5/64	27.38	1.0781	17.1
R95027.5	–	27.50	1.0827	17.1
R9501.3/32	1.3/32	27.78	1.0938	17.1
R95028.0	–	28.00	1.1024	17.7
R9501.7/64	1.7/64	28.18	1.1094	17.7
R95028.5	–	28.50	1.1220	17.7
R9501.1/8	1.1/8	28.58	1.1250	17.7
R9501.9/64	1.9/64	28.97	1.1406	18.3
R95029.0	–	29.00	1.1417	18.3
R9501.5/32	1.5/32	29.37	1.1563	18.3
R95029.5	–	29.50	1.1614	18.3
R9501.11/64	1.11/64	29.77	1.1719	18.3
R95030.0	–	30.00	1.1811	19.0
R9501.3/16	1.3/16	30.16	1.1875	19.0
R95030.5	–	30.50	1.2008	19.0
R9501.7/32	1.7/32	30.96	1.2188	21.0
R95031.0	–	31.00	1.2205	21.0
R9501.1/4	1.1/4	31.75	1.2500	21.0
R95032.0	–	32.00	1.2598	21.0
R95032.5	–	32.50	1.2795	21.0
R9501.19/64	1.19/64	32.94	1.2969	21.0
R95033.0	–	33.00	1.2992	21.0
R95033.5	–	33.50	1.3189	21.0
R95034.0	–	34.00	1.3386	23.0
R9501.11/32	1.11/32	34.13	1.3438	23.0
R95034.5	–	34.50	1.3583	23.0
R9501.3/8	1.3/8	34.93	1.3750	23.0
R95035.0	–	35.00	1.3780	23.0
R95036.0	–	36.00	1.4173	23.0
R9501.27/64	1.27/64	36.12	1.4219	23.0
R95036.5	–	36.50	1.4370	23.0
R95037.0	–	37.00	1.4567	25.0
R9501.15/32	1.15/32	37.31	1.4688	25.0
R95037.5	–	37.50	1.4764	25.0
R95038.0	–	38.00	1.4961	25.0
R9501.1/2	1.1/2	38.10	1.5000	25.0
R95038.5	–	38.50	1.5157	25.0
R9501.17/32	1.17/32	38.89	1.5313	25.0
R95039.0	–	39.00	1.5354	25.0
R95039.5	–	39.50	1.5551	25.0
R9501.9/16	1.9/16	39.69	1.5625	27.0
R95040.0	–	40.00	1.5748	27.0
R95041.0	–	41.00	1.6142	27.0
R9501.5/8	1.5/8	41.28	1.6250	27.0
R95042.0	–	42.00	1.6535	27.0

R960

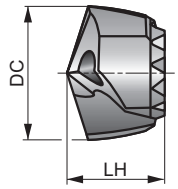
DORMER



Cuspide HYDRA per acciai inossidabili, rivestimento Ti-phon

Cuspide ad elevato rapporto costi-benefici e un design accurato per applicazioni ad alte prestazioni negli acciai inossidabili. Un angolo di punta 140° a 4 facce aiuta l'autocentratura e riduce le forze di taglio. Il rivestimento Ti-phon previene la formazione del tagliente di riporto e migliora notevolmente il flusso del truciolo, con una resistenza all'usura e una durezza del tagliente superiori.

HYDRA



HM | DORMER | 140° | Ti-phon | R | DC h7

H851	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **1.10**
H853	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **1.00**
H855	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **0.80**
H858	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **0.60**
H8512	Applicare valori iniziali per velocità e avanzamento con un fattore di correzione di **0.50**

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 274.

P1.1	P1.2	P1.3	P2.1	M1.1	M1.2	M2.1	M2.2	M2.3	M3.1	M3.2	M3.3	M4.1	M4.2
■ 133 W	■ 148 W	■ 154 W	■ 114 W	■ 82 V	■ 70 V	■ 73 V	■ 60 V	◪ 50 T	■ 58 T	■ 50 T	■ 45 T	■ 40 T	◪ 34 T
K1.1	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**
■ 120 V	■ 89 V	■ 67 V	◪ 108 V	◪ 88 V	◪ 70 V	◪ 96 V	◪ 73 V	◪ 59 V	◪ 89 V	◪ 67 V	◪ 49 V	◪ 42 V	◪ 35 V
K5.1	**K5.2**	**K5.3**	**S1.1**	**S1.2**	**S1.3**	**S2.1**	**S2.2**	**S3.1**	**S3.2**	**S4.1**	**S4.2**		
◪ 100 V	◪ 76 V	◪ 58 V	◪ 45 T	◪ 35 T	◪ 30 S	◪ 40 S	◪ 35 S	◪ 30 S	◪ 25 S	◪ 23 S	◪ 20 S		

Product	DC (inch)	DC (mm)	DC (inch)	LH (mm)
R96015/32	15/32	11.91	0.4688	9.1
R96012.0	–	12.00	0.4724	9.1
R96012.1	–	12.10	0.4764	9.1
R96012.2	–	12.20	0.4803	9.1
R96031/64	31/64	12.30	0.4844	9.1
R96012.5	–	12.50	0.4921	9.4
R96012.6	–	12.60	0.4961	9.4
R9601/2	1/2	12.70	0.5000	9.4
R96012.8	–	12.80	0.5039	9.4
R96012.9	–	12.90	0.5079	9.4
R96013.0	–	13.00	0.5118	9.7
R96033/64	33/64	13.10	0.5156	9.7
R96013.2	–	13.20	0.5197	9.7
R96017/32	17/32	13.49	0.5313	9.7
R96013.5	–	13.50	0.5315	10.3
R96013.6	–	13.60	0.5354	10.3
R96013.7	–	13.70	0.5394	10.3
R96013.8	–	13.80	0.5433	10.3
R96035/64	35/64	13.89	0.5469	10.3
R96014.0	–	14.00	0.5512	10.3
R96014.1	–	14.10	0.5551	10.3
R96014.2	–	14.20	0.5591	10.3
R9609/16	9/16	14.29	0.5625	10.3
R96014.5	–	14.50	0.5709	10.3
R96014.6	–	14.60	0.5748	11.0
R96037/64	37/64	14.68	0.5781	11.0
R96014.7	–	14.70	0.5787	11.0
R96014.8	–	14.80	0.5827	11.0

Product	DC (inch)	DC (mm)	DC (inch)	LH (mm)
R96015.0	–	15.00	0.5906	11.0
R96019/32	19/32	15.08	0.5938	11.0
R96015.1	–	15.10	0.5945	11.0
R96015.2	–	15.20	0.5984	11.0
R96015.24	–	15.24	0.6000	11.0
R96039/64	39/64	15.48	0.6094	11.0
R96015.5	–	15.50	0.6102	11.0
R96015.6	–	15.60	0.6142	11.6
R96015.7	–	15.70	0.6181	11.6
R9605/8	5/8	15.88	0.6250	11.6
R96016.0	–	16.00	0.6299	11.6
R96016.08	–	16.08	0.6331	11.6
R96016.1	–	16.10	0.6339	11.6
R96016.2	–	16.20	0.6378	11.6
R96041/64	41/64	16.27	0.6406	11.6
R96016.3	–	16.30	0.6417	11.6
R96016.5	–	16.50	0.6496	11.6
R96016.6	–	16.60	0.6535	12.2
R96021/32	21/32	16.67	0.6563	12.2
R96016.7	–	16.70	0.6575	12.2
R96017.0	–	17.00	0.6693	12.2
R96043/64	43/64	17.07	0.6719	12.2
R96017.1	–	17.10	0.6732	12.2
R96017.2	–	17.20	0.6772	12.2
R96011/16	11/16	17.46	0.6875	12.2
R96017.5	–	17.50	0.6890	12.2
R96017.6	–	17.60	0.6929	12.9
R96017.7	–	17.70	0.6969	12.9

Product	DC	DC	DC	LH
	(inch)	(mm)	(inch)	(mm)
R96045/64	45/64	17.86	0.7031	12.9
R96018.0	–	18.00	0.7087	12.9
R96018.1	–	18.10	0.7126	12.9
R96018.2	–	18.20	0.7165	12.9
R96023/32	23/32	18.26	0.7188	12.9
R96018.5	–	18.50	0.7283	12.9
R96018.6	–	18.60	0.7323	13.5
R96047/64	47/64	18.65	0.7344	13.5
R96018.7	–	18.70	0.7362	13.5
R96018.9	–	18.90	0.7441	13.5
R96019.0	–	19.00	0.7480	13.5
R9603/4	3/4	19.05	0.7500	13.5
R96019.1	–	19.10	0.7520	13.5
R96019.2	–	19.20	0.7559	13.5
R96019.25	–	19.25	0.7579	13.5
R96019.3	–	19.30	0.7598	13.5
R96019.35	–	19.35	0.7618	13.5
R96049/64	49/64	19.45	0.7656	13.5
R96019.5	–	19.50	0.7677	13.5
R96019.6	–	19.60	0.7717	14.1
R96019.7	–	19.70	0.7756	14.1
R96025/32	25/32	19.84	0.7813	14.1
R96020.0	–	20.00	0.7874	14.1
R96051/64	51/64	20.24	0.7969	14.1
R96020.5	–	20.50	0.8071	14.1
R96013/16	13/16	20.64	0.8125	14.8
R96021.0	–	21.00	0.8268	14.8
R96053/64	53/64	21.03	0.8281	14.8
R96027/32	27/32	21.43	0.8438	14.8
R96021.5	–	21.50	0.8465	14.8
R96055/64	55/64	21.83	0.8594	15.0
R96022.0	–	22.00	0.8661	15.0
R9607/8	7/8	22.22	0.8750	15.0
R96022.5	–	22.50	0.8858	15.0
R96057/64	57/64	22.62	0.8906	15.0
R96022.7	–	22.70	0.8937	15.0

Product	DC	DC	DC	LH
	(inch)	(mm)	(inch)	(mm)
R96023.0	–	23.00	0.9055	15.1
R96029/32	29/32	23.02	0.9063	15.1
R96059/64	59/64	23.42	0.9219	15.1
R96023.5	–	23.50	0.9252	15.1
R96015/16	15/16	23.81	0.9375	15.4
R96024.0	–	24.00	0.9449	15.4
R96061/64	61/64	24.21	0.9531	15.4
R96024.5	–	24.50	0.9646	15.4
R96031/32	31/32	24.61	0.9688	15.4
R96025.0	–	25.00	0.9844	15.8
R96063/64	63/64	25.00	0.9844	15.8
R9601	1″	25.40	1.0000	15.8
R96025.5	–	25.50	1.0039	15.8
R96025.65	–	25.65	1.0098	15.8
R9601.1/64	1.1/64	25.80	1.0156	15.8
R96026.0	–	26.00	1.0236	16.4
R9601.1/32	1.1/32	26.19	1.0313	16.4
R96026.5	–	26.50	1.0433	16.4
R9601.3/64	1.3/64	26.59	1.0469	16.4
R9601.1/16	1.1/16	26.99	1.0625	17.1
R96027.0	–	27.00	1.0630	17.1
R9601.5/64	1.5/64	27.38	1.0781	17.1
R96027.5	–	27.50	1.0827	17.1
R9601.3/32	1.3/32	27.78	1.0938	17.1
R96028.0	–	28.00	1.1024	17.7
R9601.7/64	1.7/64	28.18	1.1094	17.7
R96028.5	–	28.50	1.1220	17.7
R9601.1/8	1.1/8	28.58	1.1250	17.7
R9601.9/64	1.9/64	28.97	1.1406	18.3
R96029.0	–	29.00	1.1417	18.3
R9601.5/32	1.5/32	29.37	1.1563	18.3
R96029.5	–	29.50	1.1614	18.3
R9601.11/64	1.11/64	29.77	1.1719	18.3
R96030.0	–	30.00	1.1811	19.0
R9601.3/16	1.3/16	30.16	1.1875	19.0
R96030.5	–	30.50	1.2008	19.0

H860

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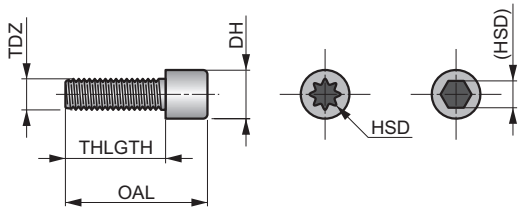
Viti HYDRA

Viti di serraggio cuspidi HYDRA.

HYDRA



Product	Nr.	TDZ	OAL (mm)	THLGTH (mm)	DH (mm)	HSD
H860N1	1	M2.2	7.5	5.70	3.5	8IP
H860N2	2	M2.5	9.0	7.00	4.1	10IP
H860N3	3	M3.0	10.5	8.00	4.9	15IP
H860N4	4	M3.5	11.5	8.80	5.5	15IP
H860N5	5	M4.0	12.5	9.50	6.0	20IP
H860N6	6	M4.5	14.3	10.80	6.8	25IP
H860N7	7	M5.0	20.0	15.00	8.5	4

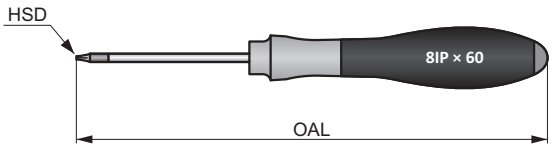
H861

DORMER

Cacciavite HYDRA

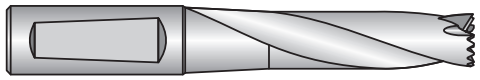
Cacciavite per serraggio viti cuspidi HYDRA.

HYDRA



Product	Nr.	HSD	OAL (mm)
H861N1	N1	8IP	164.0
H861N2	N2	10IP	191.0
H861N3	N3	15IP	191.0
H861N4	N4	20IP	218.0
H861N5	N5	25IP	218.0

PUNTE INTERCAMBIABILI AD ALTE PRESTAZIONI

Impostazione								
DC	**H851** 1.5×D	**H853** 3×D	**H855** 5×D	**H858** 8×D	**H8512** 12×D	**R950**	**R960**	**H860**	**H861**
									
Intervallo	12.00 – 30.50 15/32" – 1.3/16"	12.00 – 42.50 15/32" – 1.5/8"	12.00 – 42.50 15/32" – 1.5/8"	13.50 – 42.50 35/64" – 1.5/8"	13.50 – 25.65 35/64" – 1.1/64"	12.00 – 42.00 15/32" – 1.5/8"	12.00 – 30.50 15/32" – 1.3/16"	N1 – N7	N1 – N6
Pagine	218	219	221	223	224	225	227	229	229

DC	H851 1.5×D	H853 3×D	H855 5×D	H858 8×D	H8512 12×D	R950	R960	H860	H861
15/32"	H85112.0 H85131/64	H85312.0 H85331/64	H85512.0 H85531/64	–	–	R95015/32	R96015/32	H860N1	H861N1
12.0						R95012.0	R96012.0		
12.1						R95012.1	R96012.1		
12.2						R95012.2	R96012.2		
31/64"						R95031/64	R96031/64		
12.5	H85112.5	H85312.5 H8531/2	H85512.5 H8551/2	–	–	R95012.5	R96012.5		
12.6						R95012.6	R96012.6		
1/2"						R9501/2	R9601/2		
12.8						R95012.8	R96012.8		
12.9						R95012.9	R96012.9		
13.0	H85113.0 H85117/32	H85313.0 H85317/32	H85513.0 H85517/32	–	–	R95013.0	R96013.0		
33/64"						R95033/64	R96033/64		
13.2						R95013.2	R96013.2		
17/32"						R95017/32	R96017/32		
13.5	H85114.0	H85314.0 H8539/16	H85514.0 H8559/16	H85814.0	H851214.0	R95013.5	R96013.5		
13.6						R95013.6	R96013.6		
13.7						R95013.7	R96013.7		
13.8						R95013.8	R96013.8		
35/64"						R95035/64	R96035/64		
14.0						R95014.0	R96014.0		
14.1						R95014.1	R96014.1		
14.2						R95014.2	R96014.2		
9/16"						R9509/16	R9609/16		
14.5						R95014.5	R96014.5		
14.6	H85115.0 H85139/64	H85315.0 H85339/64	H85515.0 H85539/64	H85815.0	H851215.0	R95014.6	R96014.6		
37/64"						R95037/64	R96037/64		
14.7						R95014.7	R96014.7		
14.8						R95014.8	R96014.8		
15.0						R95015.0	R96015.0		
19/32"						R95019/32	R96019/32		
15.1						R95015.1	R96015.1		
15.2						R95015.2	R96015.2		
15.24						R95015.24	R96015.24		
39/64"						R95039/64	R96039/64		
15.5						R95015.5	R96015.5		

PUNTE INTERCAMBIABILI AD ALTE PRESTAZIONI

DC	H851 1.5×D	H853 3×D	H855 5×D	H858 8×D	H8512 12×D	R950	R960	H860	H861
15.6	H85116.0 H85141/64	H85316.0 H85341/64	H85516.0 H85541/64	H85816.0	H851216.0	R95015.6	R96015.6	H860N2	H861N2
15.7						R95015.7	R96015.7		
5/8″						R9505/8	R9605/8		
16.0						R95016.0	R96016.0		
16.08						R95016.08	R96016.08		
16.1						R95016.1	R96016.1		
16.2						R95016.2	R96016.2		
16.3						R95016.3	R96016.3		
41/64″						R95041/64	R96041/64		
16.5						R95016.5	R96016.5		
16.6	H85117.0 H85111/16	H85317.0 H85311/16	H85517.0 H85511/16	H85817.0	H851217.0	R95016.6	R96016.6		
21/32″						R95021/32	R96021/32		
16.7						R95016.7	R96016.7		
17.0						R95017.0	R96017.0		
43/64″						R95043/64	R96043/64		
17.1						R95017.1	R96017.1		
17.2						R95017.2	R96017.2		
11/16″						R95011/16	R96011/16		
17.5						R95017.5	R96017.5		
17.6	H85118.0 H85123/32	H85318.0 H85323/32	H85518.0 H85523/32	H85818.0	H851218.0	R95017.6	R96017.6		
17.7						R95017.7	R96017.7		
45/64″						R95045/64	R96045/64		
18.0						R95018.0	R96018.0		
18.1						R95018.1	R96018.1		
18.2						R95018.2	R96018.2		
23/32″						R95023/32	R96023/32		
18.5						R95018.5	R96018.5		
18.6	H85119.0 H85149/64	H85319.0 H85349/64	H85519.0 H85549/64	H85819.0	H851219.0	R95018.6	R96018.6	H860N3	H861N3
47/64″						R95047/64	R96047/64		
18.7						R95018.7	R96018.7		
18.9						R95018.9	R96018.9		
19.0						R95019.0	R96019.0		
3/4″						R9503/4	R9603/4		
19.1						R95019.1	R96019.1		
19.2						R95019.2	R96019.2		
19.25						R95019.25	R96019.25		
19.3						R95019.3	R96019.3		
19.35						R95019.35	R96019.35		
49/64″						R95049/64	R96049/64		
19.5						R95019.5	R96019.5		
19.6	H85120.0 H85151/64	H85320.0 H85351/64	H85520.0 H85551/64	H85820.0	H851220.0	R95019.6	R96019.6		
19.7						R95019.7	R96019.7		
25/32″						R95025/32	R96025/32		
20.0						R95020.0	R96020.0		
51/64″						R95051/64	R96051/64		
20.5						R95020.5	R96020.5		
13/16″	H85121.0 H85127/32	H85321.0 H85327/32	H85521.0 H85527/32	H85821.0	H851221.0	R95013/16	R96013/16		
21.0						R95021.0	R96021.0		
53/64″						R95053/64	R96053/64		
27/32″						R95027/32	R96027/32		
21.5						R95021.5	R96021.5		
55/64″	H85122.0 H85157/64	H85322.0 H85357/64	H85522.0 H85557/64	H85822.0	H851222.0	R95055/64	R96055/64	H860N4	
22.0						R95022.0	R96022.0		
7/8″						R9507/8	R9607/8		
22.5						R95022.5	R96022.5		
57/64″						R95057/64	R96057/64		
22.7						R95022.7	R96022.7		
23.0	H85123.0 H85159/64	H85323.0 H85359/64	H85523.0 H85559/64	H85823.0	H851223.0	R95023.0	R96023.0		
29/32″						R95029/32	R96029/32		
59/64″						R95059/64	R96059/64		
23.5						R95023.5	R96023.5		

PUNTE INTERCAMBIABILI AD ALTE PRESTAZIONI

DC	H851 1.5×D	H853 3×D	H855 5×D	H858 8×D	H8512 12×D	R950	R960	H860	H861
15/16	H85124.0 H85131/32	H85324.0 H85331/32	H85524.0 H85531/32	H85824.0	H851224.0	R95015/16	R96015/16	H860N4	H861N3
24.0						R95024.0	R96024.0		
61/64						R95061/64	R96061/64		
24.5						R95024.5	R96024.5		
31/32″						R95031/32	R96031/32		
25.0	H85125.0 H8511.1/64	H85325.0 H8531.1/64	H85525.0 H8551.1/64	H85825.0	H851225.0	R95025.0	R96025.0	H860N5	H861N4
63/64″						R95063/64	R96063/64		
1″						R9501	R9601		
25.5						R95025.5	R96025.5		
25.6						R95025.6	–		
25.65						R95025.65	R96025.65		
1.1/64″						R9501.1/64	R9601.1/64		
26.0	H85126.0 H8511.3/64	H85326.0 H8531.3/64	H85526.0 H8551.3/64	H85826.0	–	R95026.0	R96026.0		
1.1/32″						R9501.1/32	R9601.1/32		
26.5						R95026.5	R96026.5		
1.3/64						R9501.3/64	R9601.3/64		
1.1/16″	H85127.0 H8511.3/32	H85327.0 H8531.3/32	H85527.0 H8551.3/32	H85827.0	–	R9501.1/16	R9601.1/16		
27.0						R95027.0	R96027.0		
1.5/64″						R9501.5/64	R9601.5/64		
27.5						R95027.5	R96027.5		
1.3/32″						R9501.3/32	R9601.3/32		
28.0	H85128.0	H85328.0 H8531.1/8	H85528.0 H8551.1/8	H85828.0	–	R95028.0	R96028.0	H860N6	H861N5
1.7/64″						R9501.7/64	R9601.7/64		
28.5						R95028.5	R96028.5		
1.1/8″						R9501.1/8	R9601.1/8		
1.9/64″	H85129.0	H85329.0 H8531.11/64	H85529.0 H8551.11/64	H85829.0	–	R9501.9/64	R9601.9/64		
29.0						R95029.0	R96029.0		
1.5/32″						R9501.5/32	R9601.5/32		
29.5						R95029.5	R96029.5		
1.11/64″						R9501.11/64	R9601.11/64		
30.0	H85130.0 H8511.3/16	H85330.0 H8531.3/16	H85530.0 H8551.3/16	H85830.0	–	R95030.0	R96030.0		
1.3/16″						R9501.3/16	R9601.3/16		
30.5						R95030.5	R96030.5		
1.7/32″	–	H85332.0	H85532.0	H85832.0	–	R9501.7/32	–		
31.0						R95031.0	–		
1.1/4″						R9501.1/4	–		
32.0						R95032.0	–		
32.5	–	H85333.5	H85533.5	H85833.5	–	R95032.5	–		
1.19/64″						R9501.19/64	–		
33.0						R95033.0	–		
33.5						R95033.5	–		
34.0	–	H85335.0	H85535.0	H85835.0	–	R95034.0	–	H860N7	H861N6
1.11/32″						R9501.11/32	–		
34.5						R95034.5	–		
1.3/8″						R9501.3/8	–		
35.0						R95035.0	–		
36.0	–	H85336.5	H85536.5	H85836.5	–	R95036.0	–		
1.27/64″						R9501.27/64	–		
36.5						R95036.5	–		
37.0	–	H85338.0	H85538.0	H85838.0	–	R95037.0	–		
1.15/32″						R9501.15/32	–		
37.5						R95037.5	–		
38.0						R95038.0	–		
1.1/2″	–	H85339.5	H85539.5	H85839.5	–	R9501.1/2	–		
38.5						R95038.5	–		
1.17/32″						R9501.17/32	–		
39.0						R95039.0	–		
39.5						R95039.5	–		
1.9/16″	–	H85341.0	H85541.0	H85841.0	–	R9501.9/16	–		
40.0						R95040.0	–		
41.0						R95041.0	–		

PUNTE INTERCAMBIABILI AD ALTE PRESTAZIONI

DC	H851 1.5×D	H853 3×D	H855 5×D	H858 8×D	H8512 12×D	R950	R960	H860	H861
1.5/8"	–	H85342.5	H85542.5	H85842.5	–	R9501.5/8	–	H860N7	–
42.0						R95042.0	–		

Accessori

H860	H861	Intervallo diametro cuspide DC Hydra			Misura chiave / impronta
		Metrico (min. – max.)	Frazionario (min. – max.)	Decimale (min. – max.)	
H860N1	H861N1	12.0 mm – 15.5 mm	15/32" – 39/64"	0.4688" – 0.6102"	8IP
H860N2	H861N2	15.6 mm – 18.5 mm	5/8" – 23/32"	0.6142" – 0.7283"	10IP
H860N3	H861N3	18.6 mm – 21.5 mm	47/64" – 27/32"	0.7323" – 0.8465"	15IP
H860N4	H861N3	22.0 mm – 24.5 mm	55/64" – 31/32"	0.8594" – 0.9688"	15IP
H860N5	H861N4	25.0 mm – 27.5 mm	63/64" – 1-3/32"	0.9843" – 1.0938"	20IP
H860N6	H861N5	28.0 mm – 33.5 mm	1-7/64" – 1-19/64"	1.1024" – 1.3189"	25IP
H860N7	–	34.0 mm – 42.0 mm	1-11/32" – 1-5/8"	1.3386" – 1.6535"	4 mm Hex

Codice materiale (BMC)	HSS	HSS	HSS	HSS									
Lunghezza utilizzabile (ULDR)	2×D	3×D	4×D	5×D									
Rivestimento	Bright Ni	Bright Ni	Bright Ni	Bright Ni									
Codolo	ISO 9766	ISO 9766	ISO 9766	ISO 9766									
Direzione (Direzione di taglio)	R	R	R	R									
Raffreddamento (CSP)													
Tolleranza punta	± 0.05	± 0.05	± 0.05	± 0.05									
Tolleranza foro *	0 / +0.2	0 / +0.3	0 / +0.4	0 / +0.5									
Finitura superficiale *	2 – 6 µm	2 – 6 µm	2 – 6 µm	2 – 6 µm									
													
Codice Famiglia Prodotto	802D	803D	804D	805D	XPET..AP	SCET..-UD	XPET..AP-SD	SCET..-SD	EP				
	15.0 – 40.0	15.0 – 58.0	17.0 – 58.0	19.0 – 31.0									
	236	238	241	243	246	245	246	245	247				
P	P1					■	■	■	■				
	P2					■	■	■	■				
	P3					■	■	■	■				
	P4					■	■	■	■				
M	M1							■	■				
	M2							■	■				
	M3							■	■				
	M4							■	■				
K	K1					◪	■	◪	◪				
	K2					◪	■	◪	◪				
	K3					◪	■	◪	◪				
	K4					◪	■	◪	◪				
	K5					◪	■	◪	◪				
N	N1												
	N2												
	N3												
	N4												
	N5												
S	S1							◪	◪				
	S2							◪	◪				
	S3							◪	◪				
	S4							◪	◪				
H	H1												
	H2												

* Le tolleranze dei fori eseguiti e le finiture superficiali dipendono dalle condizioni di lavoro

802D

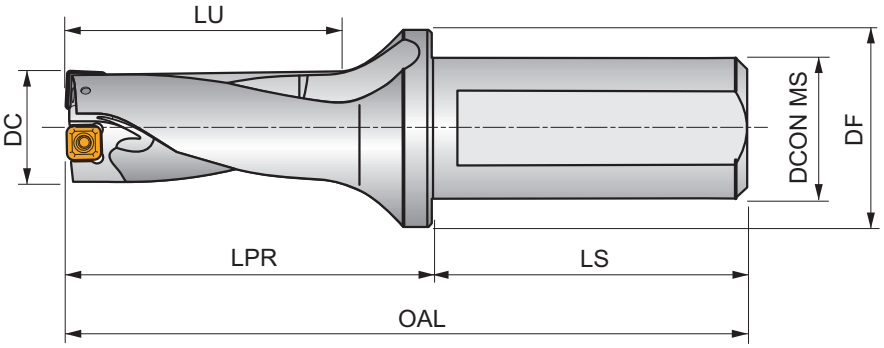
P M K N S H

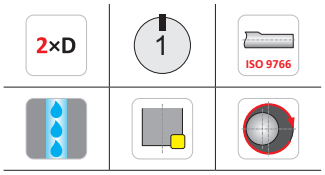
PRAMET

S

802D punta a fissaggio meccanico 2xD con fori passaggio refrigerante

Corpo punta a inserti multitaglienti ad alte prestazioni per la foratura di fori ciechi e passanti. Inoltre si può utilizzare in forature con foro trasversale, fuori centro, interpolazione elicoidale, foratura su superfici concave o inclinate, foratura su tagli interrotti, forature su fori pre esistenti.





Product	DC	APMX	OAL	LPR	LS	LU	DCON MS	DF	-D	D+					
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)				kg	
802D-15-30-S25	15	30.00	121	65	56	34.5	25	35	0.25	0.35	EP253253	GI300	GI313	0.32	HM001
802D-16-32-S25	16	32.00	123	67	56	37	25	35	0.15	0.45	EP253253	GI300	GI313	0.32	HM001
802D-17-34-S25	17	34.00	125	69	56	39.5	25	35	0.10	0.50	EP253253	GI300	GI313	0.31	HM001
802D-18-36-S25	18	36.00	127	71	56	42	25	35	0.35	0.25	EP253253	GI301	GI314	0.31	HM002
802D-19-38-S25	19	38.00	129	73	56	44.5	25	35	0.15	0.45	EP253253	GI301	GI314	0.32	HM002
802D-20-40-S25	20	40.00	131	75	56	47	25	35	0.10	0.45	EP253253	GI302	GI315	0.35	HM003
802D-21-42-S25	21	42.00	133	77	56	49.5	25	35	0.10	0.50	EP253253	GI302	GI315	0.34	HM003
802D-22-44-S25	22	44.00	135	79	56	52	25	35	0.45	0.50	EP253253	GI303	GI316	0.35	HM004
802D-23-46-S25	23	46.00	137	81	56	54.5	25	35	0.35	0.50	EP253253	GI304	GI317	0.36	HM005
802D-24-48-S25	24	48.00	139	83	56	57	25	35	0.15	0.50	EP253253	GI304	GI317	0.37	HM005
802D-25-50-S32	25	50.00	145	85	60	57	32	42	0.15	0.50	EP324058	GI304	GI317	0.57	HM005
802D-26-52-S32	26	52.00	147	87	60	59.5	32	42	0.10	0.50	EP324058	GI304	GI317	0.58	HM005
802D-27-54-S32	27	54.00	149	89	60	62	32	42	0.50	0.30	EP324058	GI305	GI318	0.59	HM006
802D-28-56-S32	28	56.00	151	91	60	64.5	32	42	0.30	0.50	EP324058	GI306	GI319	0.61	HM007
802D-29-58-S32	29	58.00	153	93	60	67	32	42	0.20	0.50	EP324058	GI306	GI319	0.62	HM007
802D-30-60-S32	30	60.00	155	95	60	69.5	32	42	0.15	0.50	EP324058	GI306	GI319	0.67	HM007
802D-32-64-S32	32	64.00	159	99	60	70	32	42	0.50	0.35	EP324058	GI307	GI320	0.68	HM008
802D-32-64-S40	32	64.00	167	99	68	70	40	50	0.50	0.35	–	GI307	GI320	1.03	HM008
802D-34-68-S32	34	68.00	163	103	60	75	32	42	0.25	0.50	EP324058	GI307	GI320	0.73	HM008
802D-34-68-S40	34	68.00	171	103	68	75	40	50	0.25	0.50	–	GI307	GI320	1.07	HM008
802D-36-72-S32	36	72.00	167	107	60	80	32	42	0.10	0.50	EP324058	GI308	GI321	0.76	HM009
802D-36-72-S40	36	72.00	173	105	68	77.5	40	50	0.10	0.50	–	GI308	GI321	1.11	HM009
802D-38-76-S32	38	76.00	171	111	60	85	32	42	0.50	0.50	EP324058	GI308	GI321	0.83	HM009
802D-38-76-S40	38	76.00	179	111	68	85	40	50	0.50	0.50	–	GI308	GI321	1.17	HM009
802D-40-80-S32	40	80.00	175	115	60	90	32	42	0.20	0.50	EP324058	GI309	GI322	0.94	HM009
802D-40-80-S40	40	80.00	183	115	68	90	40	50	0.20	0.50	–	GI309	GI322	1.25	HM009

GI300	XPET 0502AP	SCET 050204-UD
GI301	XPET 0602AP	SCET 050204-UD
GI302	XPET 0602AP	SCET 060204-UD
GI303	XPET 0703AP	SCET 060204-UD
GI304	XPET 0703AP	SCET 070308-UD
GI305	XPET 0903AP	SCET 070308-UD
GI306	XPET 0903AP	SCET 09T308-UD
GI307	XPET 11T3AP	SCET 09T308-UD
GI308	XPET 11T3AP	SCET 120408-UD
GI309	XPET 12T3AP	SCET 120408-UD
GI313	XPET 0502AP-SD	SCET 050204-SD
GI314	XPET 0602AP-SD	SCET 050204-SD
GI315	XPET 0602AP-SD	SCET 060204-SD
GI316	XPET 0703AP-SD	SCET 060204-SD
GI317	XPET 0703AP-SD	SCET 070308-SD
GI318	XPET 0903AP-SD	SCET 070308-SD
GI319	XPET 0903AP-SD	SCET 09T308-SD
GI320	XPET 11T3AP-SD	SCET 09T308-SD
GI321	XPET 11T3AP-SD	SCET 120408-SD
GI322	XPET 12T3AP-SD	SCET 120408-SD

HM001	US 2245-T07P	0.9	US 2245-T07P	0.9	FLAG T07P
HM002	US 2205-T07P	0.9	US 2245-T07P	0.9	FLAG T07P
HM003	US 2205-T07P	0.9	US 2205-T07P	0.9	FLAG T07P
HM004	US 2506-T07P	1.2	US 2506-T07P	1.2	FLAG T07P
HM005	US 2507-T08P	1.2	US 3007-T08P	2.0	FLAG T08P
HM006	US 3007-T09P	2.0	US 3007-T09P	2.0	FLAG T09P
HM007	US 3007-T09P	2.0	US 3009-T09P	2.0	FLAG T09P
HM008	US 3510-T15P	3.0	US 3508-T15P	3.0	FLAG T15P
HM009	US 3510-T15P	3.0	US 5012-T15P	5.0	FLAG T15P

803D

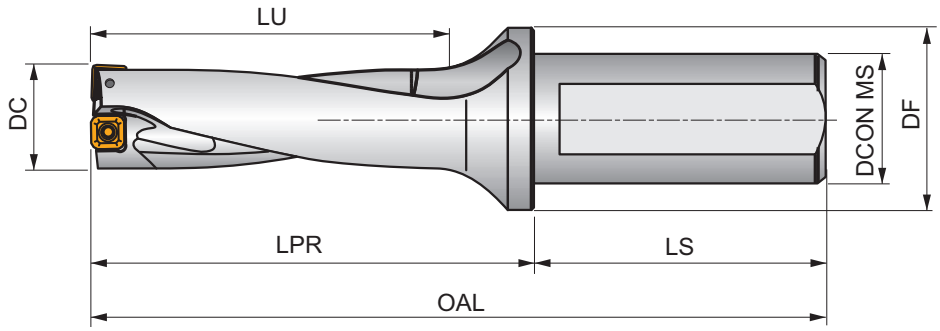
P M K N S H

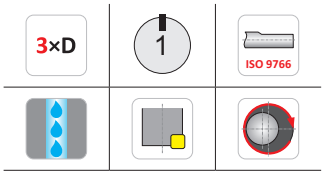
PRAMET

S

803D punta a fissaggio meccanico 3xD con fori passaggio refrigerante

Corpo punta a inserti multitaglienti ad alte prestazioni per la foratura di fori ciechi e passanti. Inoltre si può utilizzare in forature con foro trasversale, fuori centro, interpolazione elicoidale, foratura su superfici concave o inclinate, foratura su tagli interrotti, forature su fori pre esistenti.





Product	DC (mm)	APMX (mm)	OAL (mm)	LPR (mm)	LS (mm)	LU (mm)	DCON MS (mm)	DF (mm)	-D (mm)	D+ (mm)				kg	
803D-15-45-S25	15	45.00	136	80	56	49.5	25	35	0.25	0.35	EP253253	GI300	GI313	0.33	HM001
803D-15,5-46,5-S25	15.5	47.00	137.5	81.5	56	51.2	25	35	0.30	0.35	EP253253	GI300	GI313	0.31	HM001
803D-16-48-S25	16	48.00	139	83	56	53	25	35	0.15	0.45	EP253253	GI300	GI313	0.32	HM001
803D-16,5-49,5-S25	16.5	50.00	140.5	84.5	56	54.7	25	35	0.15	0.40	EP253253	GI300	GI313	0.32	HM001
803D-17-51-S25	17	51.00	142	86	56	56.5	25	35	0.10	0.50	EP253253	GI300	GI313	0.35	HM001
803D-17,5-52,5-S25	17.5	53.00	143.5	87.5	56	58.2	25	35	0.50	0.50	EP253253	GI301	GI314	0.32	HM002
803D-18-54-S25	18	54.00	145	89	56	60	25	35	0.35	0.25	EP253253	GI301	GI314	0.33	HM002
803D-18,5-55,5-S25	18.5	56.00	146.5	90.5	56	61.2	25	35	0.35	0.25	EP253253	GI301	GI314	0.34	HM002
803D-19-57-S25	19	57.00	148	92	56	63.5	25	35	0.15	0.45	EP253253	GI301	GI314	0.34	HM002
803D-19,5-58,5-S25	19.5	59.00	149.5	93.5	56	63.7	25	35	0.25	0.40	EP253253	GI302	GI315	0.34	HM003
803D-20-60-S25	20	60.00	151	95	56	67	25	35	0.10	0.45	EP253253	GI302	GI315	0.33	HM003
803D-20,5-61,5-S25	20.5	62.00	152.5	96.5	56	67.2	25	35	0.10	0.50	EP253253	GI302	GI315	0.36	HM003
803D-21-63-S25	21	63.00	154	98	56	70.5	25	35	0.10	0.50	EP253253	GI302	GI315	0.36	HM003
803D-21,5-64,5-S25	21.5	65.00	155.5	99.5	56	70.8	25	35	0.35	0.50	EP253253	GI303	GI316	0.37	HM004
803D-22-66-S25	22	66.00	157	101	56	74	25	35	0.45	0.50	EP253253	GI303	GI316	0.40	HM004
803D-22,5-67,5-S25	22.5	68.00	158.5	102.5	56	74.3	25	35	0.35	0.50	EP253253	GI304	GI317	0.42	HM005
803D-23-69-S25	23	69.00	160	104	56	77.5	25	35	0.35	0.50	EP253253	GI304	GI317	0.40	HM005
803D-23,5-70,5-S25	23.5	71.00	161.5	105.5	56	77.6	25	35	0.10	0.50	EP253253	GI304	GI317	0.40	HM005
803D-24-72-S25	24	72.00	163	107	56	81	25	35	0.15	0.50	EP253253	GI304	GI317	0.41	HM005
803D-24,5-73,5-S25	24.5	74.00	168.5	108.5	60	78.7	25	35	0.10	0.50	EP253253	GI304	GI317	0.45	HM005
803D-25-75-S32	25	75.00	170	110	60	82	32	42	0.15	0.50	EP324058	GI304	GI317	0.62	HM005
803D-25,5-76,5-S32	25.5	77.00	171.5	111.5	60	82.2	32	42	0.50	0.10	EP324058	GI304	GI317	0.63	HM005
803D-26-78-S32	26	78.00	173	113	60	85.5	32	42	0.10	0.50	EP324058	GI304	GI317	0.66	HM005
803D-26,5-79,5-S32	26.5	80.00	174.5	114.5	60	85.7	32	42	0.50	0.10	EP324058	GI305	GI318	0.67	HM006
803D-27-81-S32	27	81.00	176	116	60	89	32	42	0.50	0.30	EP324058	GI305	GI318	0.65	HM006
803D-28-84-S32	28	84.00	179	119	60	92.5	32	42	0.30	0.50	EP324058	GI306	GI319	0.68	HM007
803D-29-87-S32	29	87.00	182	122	60	96	32	42	0.20	0.50	EP324058	GI306	GI319	0.70	HM007

Product	DC (mm)	APMX (mm)	OAL (mm)	LPR (mm)	LS (mm)	LU (mm)	DCONMS (mm)	DF (mm)	-D (mm)	D+ (mm)				kg	
803D-30-90-S32	30	90.00	185	125	60	99.5	32	42	0.15	0.50	EP324058	GI306	GI319	0.73	HM007
803D-31-93-S32	31	93.00	188	128	60	103	32	42	0.15	0.50	EP324058	GI306	GI319	0.76	HM007
803D-32-96-S32	32	96.00	191	131	60	102	32	42	0.50	0.30	EP324058	GI307	GI320	0.79	HM008
803D-32-96-S40	32	96.00	199	131	68	102	40	50	0.50	0.30	–	GI307	GI320	1.14	HM008
803D-33-99-S32	33	99.00	194	134	60	105.5	32	42	0.50	0.50	EP324058	GI307	GI320	0.83	HM008
803D-33-99-S40	33	99.00	202	134	68	105.5	40	50	0.50	0.50	–	GI307	GI320	1.18	HM008
803D-34-102-S32	34	102.00	197	137	60	109	32	42	0.25	0.50	EP324058	GI307	GI320	0.86	HM008
803D-34-102-S40	34	102.00	205	137	68	109	40	50	0.25	0.50	–	GI307	GI320	1.12	HM008
803D-35-105-S32	35	105.00	200	140	60	112.5	32	42	0.25	0.50	EP324058	GI308	GI321	0.90	HM009
803D-35-105-S40	35	105.00	208	140	68	112.5	40	50	0.25	0.50	–	GI308	GI321	1.24	HM009
803D-36-108-S32	36	108.00	203	143	60	116	32	42	0.10	0.50	EP324058	GI308	GI321	0.91	HM009
803D-36-108-S40	36	108.00	211	143	68	116	40	50	0.10	0.50	–	GI308	GI321	1.25	HM009
803D-37-111-S32	37	111.00	206	146	60	119.5	32	42	0.10	0.50	EP324058	GI308	GI321	0.95	HM009
803D-37-111-S40	37	111.00	214	146	68	119.5	40	50	0.10	0.50	–	GI308	GI321	1.29	HM009
803D-38-114-S32	38	114.00	199	139	60	124.5	32	42	0.50	0.50	EP324058	GI308	GI321	1.00	HM009
803D-38-114-S40	38	114.00	217	149	68	123	40	50	0.50	0.50	–	GI308	GI321	1.34	HM009
803D-39-117-S32	38	114.00	209	149	60	123	32	42	0.40	0.50	EP324058	GI309	GI322	1.06	HM009
803D-39-117-S40	39	117.00	220	152	68	126.5	40	50	0.40	0.50	–	GI309	GI322	1.40	HM009
803D-40-120-S32	40	120.00	215	155	60	130	32	42	0.20	0.50	EP324058	GI309	GI322	1.12	HM009
803D-40-120-S40	40	120.00	223	155	68	130	40	50	0.20	0.50	–	GI309	GI322	1.46	HM009
803D-41-123-S40	41	123.00	219	149	70	133	40	50	0.20	0.50	–	GI309	GI322	1.48	HM009
803D-42-126-S40	42	126.00	221.5	152	70	136	40	50	0.15	0.50	–	GI309	GI322	1.52	HM009
803D-43-129-S40	43	129.00	224	154	70	139	40	50	0.10	0.50	–	GI309	GI322	1.58	HM009
803D-44-132-S40	44	132.00	226.5	157	70	142	40	50	0.50	0.50	–	GI310	GI323	1.63	HM010
803D-45-135-S40	45	135.00	230.5	161	70	144	40	55	0.50	0.50	–	GI311	GI324	1.73	HM010
803D-46-138-S40	46	138.00	235	165	70	148	40	55	0.50	0.50	–	GI311	GI324	1.82	HM010
803D-47-141-S40	47	141.00	237.5	168	70	151	40	55	0.50	0.50	–	GI311	GI324	1.90	HM010
803D-48-144-S40	48	144.00	240	170	70	154	40	55	0.50	0.50	–	GI311	GI324	1.98	HM010
803D-49-147-S40	49	147.00	242.5	173	70	157	40	55	0.30	0.50	–	GI311	GI324	2.06	HM010
803D-50-150-S40	50	150.00	246.5	177	70	160	40	58	0.15	0.50	–	GI311	GI324	2.18	HM010
803D-51-153-S40	51	153.00	249	179	70	163	40	58	0.15	0.50	–	GI311	GI324	2.24	HM010
803D-52-156-S40	52	156.00	251.5	182	70	166	40	58	0.50	0.50	–	GI312	GI325	2.20	HM010
803D-53-159-S40	53	159.00	254	184	70	169	40	58	0.50	0.50	–	GI312	GI325	2.29	HM010
803D-54-162-S40	54	162.00	257.5	188	70	173	40	58	0.50	0.50	–	GI312	GI325	2.39	HM010
803D-55-165-S40	55	165.00	260	190	70	176	40	58	0.50	0.50	–	GI312	GI325	2.46	HM010
803D-56-168-S40	56	168.00	264	194	70	179	40	58	0.50	0.50	–	GI312	GI325	2.59	HM010
803D-57-171-S40	57	171.00	266.5	197	70	182	40	58	0.35	0.50	–	GI312	GI325	2.70	HM010
803D-58-174-S40	58	174.00	270	200	70	186	40	58	0.15	0.50	–	GI312	GI325	2.83	HM010

GI300	XPET 0502AP	SCET 050204-UD
GI301	XPET 0602AP	SCET 050204-UD
GI302	XPET 0602AP	SCET 060204-UD
GI303	XPET 0703AP	SCET 060204-UD
GI304	XPET 0703AP	SCET 070308-UD
GI305	XPET 0903AP	SCET 070308-UD
GI306	XPET 0903AP	SCET 09T308-UD
GI307	XPET 11T3AP	SCET 09T308-UD
GI308	XPET 11T3AP	SCET 120408-UD
GI309	XPET 12T3AP	SCET 120408-UD
GI310	XPET 1504AP	SCET 120408-UD
GI311	XPET 1504AP	SCET 150512-UD
GI312	XPET 1904AP	SCET 150512-UD
GI313	XPET 0502AP-SD	SCET 050204-SD
GI314	XPET 0602AP-SD	SCET 050204-SD
GI315	XPET 0602AP-SD	SCET 060204-SD
GI316	XPET 0703AP-SD	SCET 060204-SD
GI317	XPET 0703AP-SD	SCET 070308-SD
GI318	XPET 0903AP-SD	SCET 070308-SD
GI319	XPET 0903AP-SD	SCET 09T308-SD

GI320	XPET 11T3AP-SD	SCET 09T308-SD
GI321	XPET 11T3AP-SD	SCET 120408-SD
GI322	XPET 12T3AP-SD	SCET 120408-SD
GI323	XPET 1504AP-SD	SCET 120408-SD
GI324	XPET 1504AP-SD	SCET 150512-SD
GI325	XPET 1904AP-SD	SCET 150512-SD

HM001	US 2245-T07P	0.9	US 2245-T07P	0.9	FLAG T07P
HM002	US 2205-T07P	0.9	US 2245-T07P	0.9	FLAG T07P
HM003	US 2205-T07P	0.9	US 2205-T07P	0.9	FLAG T07P
HM004	US 2506-T07P	1.2	US 2506-T07P	1.2	FLAG T07P
HM005	US 2507-T08P	1.2	US 3007-T08P	2.0	FLAG T08P
HM006	US 3007-T09P	2.0	US 3007-T09P	2.0	FLAG T09P
HM007	US 3007-T09P	2.0	US 3009-T09P	2.0	FLAG T09P
HM008	US 3510-T15P	3.0	US 3508-T15P	3.0	FLAG T15P
HM009	US 3510-T15P	3.0	US 5012-T15P	5.0	FLAG T15P
HM010	US 4011-T15P	3.5	US 5012-T15P	5.0	FLAG T15P

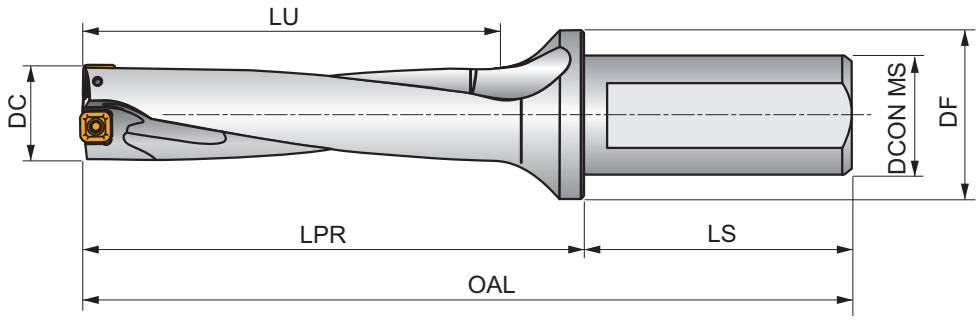
804D

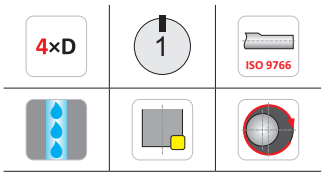
P M K N S H

PRAMET S

804D punta a fissaggio meccanico 4xD con fori passaggio refrigerante

Corpo punta a inserti multi taglienti ad alte prestazioni per la foratura di fori ciechi e passanti. Inoltre si può utilizzare in forature con foro trasversale, fuori centro, interpolazione elicoidale, foratura su superfici concave o inclinate, foratura su tagli interrotti, forature su fori pre esistenti.





Product	DC (mm)	APMX (mm)	OAL (mm)	LPR (mm)	LS (mm)	LU (mm)	DCON MS (mm)	DF (mm)	-D (mm)	D+ (mm)				kg	
804D-17-68-S25	17	68.00	149	93	56	73	25	35	0.10	0.50	–	GI300	GI313	0.34	HM001
804D-18-72-S25	18	72.00	153	97	56	77	25	35	0.35	0.25	–	GI301	GI314	0.35	HM002
804D-19-76-S25	19	76.00	157	101	56	81.5	25	35	0.15	0.45	–	GI301	GI314	0.36	HM002
804D-20-80-S25	20	80.00	161	105	56	85	25	35	0.10	0.45	–	GI302	GI315	0.37	HM003
804D-21-84-S25	21	84.00	165	109	56	89.5	25	35	0.10	0.50	–	GI302	GI315	0.43	HM003
804D-22-88-S25	22	88.00	169	113	56	94	25	35	0.45	0.50	–	GI303	GI316	0.45	HM004
804D-23-92-S25	23	92.00	173	117	56	98.5	25	35	0.35	0.50	–	GI304	GI317	0.44	HM005
804D-24-96-S25	24	96.00	177	121	56	103	25	35	0.15	0.50	–	GI304	GI317	0.45	HM005
804D-25-100-S32	25	100.00	185	125	60	105	32	42	0.15	0.50	–	GI304	GI317	0.67	HM005
804D-26-104-S32	26	104.00	189	129	60	109.5	32	42	0.10	0.50	–	GI304	GI317	0.70	HM005
804D-27-108-S32	27	108.00	193	133	60	114	32	42	0.50	0.30	–	GI305	GI318	0.71	HM006
804D-28-112-S32	28	112.00	197	137	60	118.5	32	42	0.30	0.50	–	GI306	GI319	0.75	HM007
804D-29-116-S32	29	116.00	201	141	60	123	32	42	0.20	0.50	–	GI306	GI319	0.78	HM007
804D-30-120-S32	30	120.00	205	145	60	127.5	32	42	0.15	0.50	–	GI306	GI319	0.82	HM007
804D-31-124-S32	31	124.00	209	149	60	132	32	42	0.15	0.50	–	GI306	GI319	0.85	HM007
804D-32-128-S32	32	128.00	213	153	60	136.5	32	42	0.50	0.30	–	GI307	GI320	0.90	HM008
804D-33-132-S32	33	132.00	217	157	60	141	32	42	0.50	0.50	–	GI307	GI320	0.95	HM008
804D-34-136-S32	34	136.00	221	161	60	145.5	32	42	0.25	0.50	–	GI307	GI320	0.99	HM008
804D-35-140-S32	35	140.00	225	165	60	149	32	42	0.25	0.50	–	GI308	GI321	1.04	HM009
804D-36-144-S32	36	144.00	229	169	60	153.5	32	42	0.10	0.50	–	GI308	GI321	1.05	HM009
804D-37-148-S32	37	148.00	233	173	60	158	32	42	0.10	0.50	–	GI308	GI321	1.11	HM009
804D-38-152-S32	38	152.00	237	177	60	162.5	32	42	0.50	0.50	–	GI308	GI321	1.18	HM009
804D-39-156-S32	39	156.00	241	181	60	167	32	42	0.40	0.50	–	GI309	GI322	1.25	HM009
804D-40-160-S32	40	160.00	245	185	60	171.5	32	42	0.20	0.50	–	GI309	GI322	1.33	HM009
804D-41-164-S40	41	164.00	259	189	70	172	40	50	0.20	0.50	–	GI309	GI322	1.68	HM009
804D-42-168-S40	42	168.00	263	193	70	176.5	40	50	0.15	0.50	–	GI309	GI322	1.76	HM009
804D-43-172-S40	43	172.00	267	197	70	181	40	50	0.10	0.50	–	GI309	GI322	1.83	HM009

Product	DC (mm)	APMX (mm)	OAL (mm)	LPR (mm)	LS (mm)	LU (mm)	DCON MS (mm)	DF (mm)	-D (mm)	D+ (mm)				kg	
804D-44-176-S40	44	176.00	271	201	70	185.5	40	50	0.50	0.50	–	GI310	GI323	1.91	HM010
804D-45-180-S40	45	180.00	275	205	70	187.5	40	55	0.50	0.50	–	GI311	GI324	2.02	HM010
804D-46-184-S40	46	184.00	279	209	70	192	40	55	0.50	0.50	–	GI311	GI324	2.12	HM010
804D-47-188-S40	47	188.00	283	213	70	196.5	40	55	0.50	0.50	–	GI311	GI324	2.22	HM010
804D-48-192-S40	48	192.00	287	217	70	201	40	55	0.50	0.50	–	GI311	GI324	2.33	HM010
804D-49-196-S40	49	196.00	291	221	70	205.5	40	55	0.30	0.50	–	GI311	GI324	2.45	HM010
804D-50-200-S40	50	200.00	295	225	70	208.5	40	58	0.15	0.50	–	GI311	GI324	2.58	HM010
804D-51-204-S40	51	204.00	299	229	70	213	40	58	0.15	0.50	–	GI311	GI324	2.68	HM010
804D-52-208-S40	52	208.00	303	233	70	217.5	40	58	0.50	0.50	–	GI312	GI325	2.64	HM010
804D-53-212-S40	53	212.00	307	237	70	222	40	58	0.50	0.50	–	GI312	GI325	2.76	HM010
804D-54-216-S40	54	216.00	311	241	70	226.5	40	58	0.50	0.50	–	GI312	GI325	2.90	HM010
804D-55-220-S40	55	220.00	315	245	70	231	40	58	0.50	0.50	–	GI312	GI325	3.00	HM010
804D-56-224-S40	56	224.00	319	249	70	235.5	40	58	0.50	0.50	–	GI312	GI325	3.15	HM010
804D-57-228-S40	57	228.00	323	253	70	240	40	58	0.35	0.50	–	GI312	GI325	3.30	HM010
804D-58-232-S40	58	232.00	327	257	70	244.5	40	58	0.15	0.50	–	GI312	GI325	3.46	HM010

GI300	XPET 0502AP	SCET 050204-UD
GI301	XPET 0602AP	SCET 050204-UD
GI302	XPET 0602AP	SCET 060204-UD
GI303	XPET 0703AP	SCET 060204-UD
GI304	XPET 0703AP	SCET 070308-UD
GI305	XPET 0903AP	SCET 070308-UD
GI306	XPET 0903AP	SCET 09T308-UD
GI307	XPET 11T3AP	SCET 09T308-UD
GI308	XPET 11T3AP	SCET 120408-UD
GI309	XPET 12T3AP	SCET 120408-UD
GI310	XPET 1504AP	SCET 120408-UD
GI311	XPET 1504AP	SCET 150512-UD
GI312	XPET 1904AP	SCET 150512-UD
GI313	XPET 0502AP-SD	SCET 050204-SD
GI314	XPET 0602AP-SD	SCET 050204-SD
GI315	XPET 0602AP-SD	SCET 060204-SD
GI316	XPET 0703AP-SD	SCET 060204-SD
GI317	XPET 0703AP-SD	SCET 070308-SD
GI318	XPET 0903AP-SD	SCET 070308-SD
GI319	XPET 0903AP-SD	SCET 09T308-SD
GI320	XPET 11T3AP-SD	SCET 09T308-SD
GI321	XPET 11T3AP-SD	SCET 120408-SD
GI322	XPET 12T3AP-SD	SCET 120408-SD
GI323	XPET 1504AP-SD	SCET 120408-SD
GI324	XPET 1504AP-SD	SCET 150512-SD
GI325	XPET 1904AP-SD	SCET 150512-SD

		Nm		Nm	
HM001	US 2245-T07P	0.9	US 2245-T07P	0.9	FLAG T07P
HM002	US 2205-T07P	0.9	US 2245-T07P	0.9	FLAG T07P
HM003	US 2205-T07P	0.9	US 2205-T07P	0.9	FLAG T07P
HM004	US 2506-T07P	1.2	US 2506-T07P	1.2	FLAG T07P
HM005	US 2507-T08P	1.2	US 3007-T08P	2.0	FLAG T08P
HM006	US 3007-T09P	2.0	US 3007-T09P	2.0	FLAG T09P
HM007	US 3007-T09P	2.0	US 3009-T09P	2.0	FLAG T09P
HM008	US 3510-T15P	3.0	US 3508-T15P	3.0	FLAG T15P
HM009	US 3510-T15P	3.0	US 5012-T15P	5.0	FLAG T15P
HM010	US 4011-T15P	3.5	US 5012-T15P	5.0	FLAG T15P

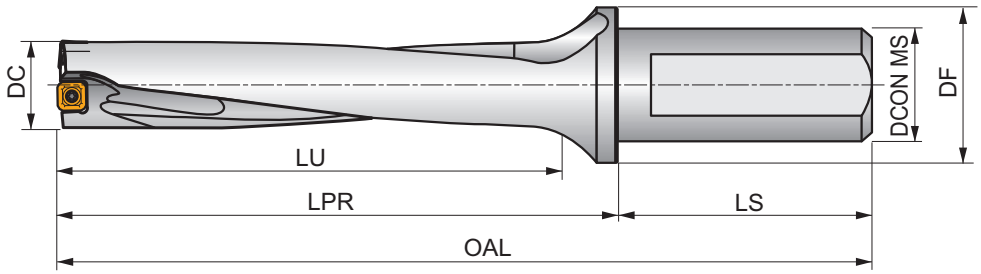
805D

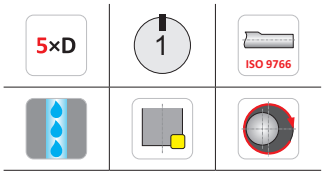
P M K N S H

PRAMET S

805D punta a fissaggio meccanico 5xD con fori passaggio refrigerante

Corpo punta a inserti multi taglienti ad alte prestazioni per la foratura di fori ciechi e passanti. Inoltre si può utilizzare in forature con foro trasversale, fuori centro, interpolazione elicoidale, foratura su superfici concave o inclinate, foratura su tagli interrotti, forature su fori pre esistenti.





Product	DC (mm)	APMX (mm)	OAL (mm)	LPR (mm)	LS (mm)	LU (mm)	DCON MS (mm)	DF (mm)	-D (mm)	D+ (mm)				kg	
805D-19-95-S25	19	95.00	176	120	56	100.5	25	35	0.15	0.45	–	GI301	GI314	0.38	HM002
805D-20-100-S25	20	100.00	181	125	56	105	25	35	0.10	0.45	–	GI302	GI315	0.40	HM003
805D-21-105-S25	21	105.00	186	130	56	110.5	25	35	0.10	0.50	–	GI302	GI315	0.42	HM003
805D-22-110-S25	22	110.00	191	135	56	116	25	35	0.45	0.50	–	GI303	GI316	0.45	HM004
805D-23-115-S25	23	115.00	196	140	56	121.5	25	35	0.35	0.50	–	GI304	GI317	0.48	HM005
805D-24-120-S25	24	120.00	201	145	56	127	25	35	0.15	0.50	–	GI304	GI317	0.49	HM005
805D-25-125-S32	25	125.00	210	150	60	130	32	42	0.15	0.50	–	GI304	GI317	0.72	HM005
805D-26-130-S32	26	130.00	215	155	60	135.5	32	42	0.10	0.50	–	GI304	GI317	0.82	HM005
805D-27-135-S32	27	135.00	220	160	60	141	32	42	0.50	0.30	–	GI305	GI318	0.78	HM006
805D-28-140-S32	28	140.00	225	165	60	146.5	32	42	0.30	0.50	–	GI306	GI319	0.82	HM007
805D-29-145-S32	29	145.00	230	170	60	152	32	42	0.20	0.50	–	GI306	GI319	0.86	HM007
805D-30-150-S32	30	150.00	235	175	60	157.5	32	42	0.15	0.50	–	GI306	GI319	0.90	HM007
805D-31-155-S32	31	155.00	240	180	60	163	32	42	0.15	0.50	–	GI306	GI319	0.95	HM007

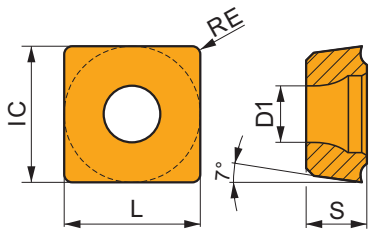
GI301	XPET 0602AP	SCET 050204-UD
GI302	XPET 0602AP	SCET 060204-UD
GI303	XPET 0703AP	SCET 060204-UD
GI304	XPET 0703AP	SCET 070308-UD
GI305	XPET 0903AP	SCET 070308-UD
GI306	XPET 0903AP	SCET 09T308-UD
GI314	XPET 0602AP-SD	SCET 050204-SD
GI315	XPET 0602AP-SD	SCET 060204-SD
GI316	XPET 0703AP-SD	SCET 060204-SD
GI317	XPET 0703AP-SD	SCET 070308-SD
GI318	XPET 0903AP-SD	SCET 070308-SD
GI319	XPET 0903AP-SD	SCET 09T308-SD

		Nm		Nm	
HM002	US 2205-T07P	0.9	US 2245-T07P	0.9	FLAG T07P
HM003	US 2205-T07P	0.9	US 2205-T07P	0.9	FLAG T07P
HM004	US 2506-T07P	1.2	US 2506-T07P	1.2	FLAG T07P
HM005	US 2507-T08P	1.2	US 3007-T08P	2.0	FLAG T08P
HM006	US 3007-T09P	2.0	US 3007-T09P	2.0	FLAG T09P
HM007	US 3007-T09P	2.0	US 3009-T09P	2.0	FLAG T09P

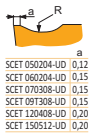
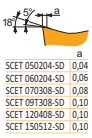
SCET

PRAMET

	IC (mm)	D1 (mm)	L (mm)	S (mm)
0502	5.556	2.40	5.56	2.38
0602	6.350	2.90	6.35	2.38
0703	7.937	3.50	7.94	3.18
09T3	9.525	4.50	9.53	3.97
1204	12.700	5.60	12.70	4.76
1505	15.875	5.60	15.88	5.56

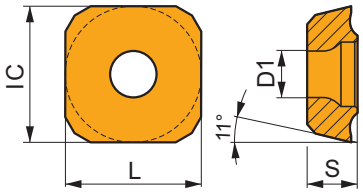


Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

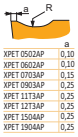
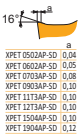
Product	Interrupted/ Continuous cut	RE (mm)	P vc (m/min)	P f (mm/rev)	P ap (mm)	M vc (m/min)	M f (mm/rev)	M ap (mm)	K vc (m/min)	K f (mm/rev)	K ap (mm)	N vc (m/min)	N f (mm/rev)	N ap (mm)	S vc (m/min)	S f (mm/rev)	S ap (mm)	H vc (m/min)	H f (mm/rev)	H ap (mm)
	 SCET 050204-UD 0,12 SCET 060204-UD 0,15 SCET 070308-UD 0,15 SCET 09T308-UD 0,15 SCET 120408-UD 0,20 SCET 150512-UD 0,20																			
Geometria UD con design universale per inserti periferici.																				
SCET 050204-UD:D8330	●	0.4	■ 165	0.08	–	–	–	–	■ 155	0.08	–	–	–	–	–	–	–	–	–	–
SCET 050204-UD:D9335	●	0.4	■ 240	0.08	–	–	–	–	■ 225	0.08	–	–	–	–	–	–	–	–	–	–
SCET 060204-UD:D8330	●	0.4	■ 165	0.11	–	–	–	–	■ 155	0.11	–	–	–	–	–	–	–	–	–	–
SCET 060204-UD:D9335	●	0.4	■ 240	0.11	–	–	–	–	■ 225	0.11	–	–	–	–	–	–	–	–	–	–
SCET 070308-UD:D8330	●	0.8	■ 165	0.13	–	–	–	–	■ 155	0.13	–	–	–	–	–	–	–	–	–	–
SCET 070308-UD:D9335	●	0.8	■ 240	0.13	–	–	–	–	■ 225	0.13	–	–	–	–	–	–	–	–	–	–
SCET 09T308-UD:D8330	●	0.8	■ 165	0.14	–	–	–	–	■ 155	0.14	–	–	–	–	–	–	–	–	–	–
SCET 09T308-UD:D9335	●	0.8	■ 240	0.14	–	–	–	–	■ 225	0.14	–	–	–	–	–	–	–	–	–	–
SCET 120408-UD:D8330	●	0.8	■ 165	0.16	–	–	–	–	■ 155	0.16	–	–	–	–	–	–	–	–	–	–
SCET 120408-UD:D9335	●	0.8	■ 240	0.16	–	–	–	–	■ 225	0.16	–	–	–	–	–	–	–	–	–	–
SCET 150512-UD:D8330	●	1.2	■ 165	0.18	–	–	–	–	■ 155	0.18	–	–	–	–	–	–	–	–	–	–
SCET 150512-UD:D9335	●	1.2	■ 240	0.18	–	–	–	–	■ 225	0.18	–	–	–	–	–	–	–	–	–	–
	 SCET 050204-SD 0,04 SCET 060204-SD 0,06 SCET 070308-SD 0,08 SCET 09T308-SD 0,10 SCET 120408-SD 0,10 SCET 150512-SD 0,10																			
Geometria SD con design positivo per inserti periferici.																				
SCET 050204-SD:D8330	●	0.4	■ 165	0.08	–	■ 95	0.07	–	◪ 155	0.08	–	–	–	–	◪ 40	0.06	–	–	–	–
SCET 050204-SD:D9335	●	0.4	■ 240	0.08	–	■ 140	0.07	–	◪ 225	0.08	–	–	–	–	◪ 60	0.06	–	–	–	–
SCET 060204-SD:D8330	●	0.4	■ 165	0.11	–	■ 95	0.09	–	◪ 155	0.11	–	–	–	–	◪ 40	0.07	–	–	–	–
SCET 060204-SD:D9335	●	0.4	■ 240	0.11	–	■ 140	0.09	–	◪ 225	0.11	–	–	–	–	◪ 60	0.07	–	–	–	–
SCET 070308-SD:D8330	●	0.8	■ 165	0.13	–	■ 95	0.11	–	◪ 155	0.13	–	–	–	–	◪ 40	0.09	–	–	–	–
SCET 070308-SD:D9335	●	0.8	■ 240	0.13	–	■ 140	0.11	–	◪ 225	0.13	–	–	–	–	◪ 60	0.09	–	–	–	–
SCET 09T308-SD:D8330	●	0.8	■ 165	0.14	–	■ 95	0.13	–	◪ 155	0.14	–	–	–	–	◪ 40	0.10	–	–	–	–
SCET 09T308-SD:D9335	●	0.8	■ 240	0.14	–	■ 140	0.13	–	◪ 225	0.14	–	–	–	–	◪ 60	0.10	–	–	–	–
SCET 120408-SD:D8330	●	0.8	■ 165	0.16	–	■ 95	0.14	–	◪ 155	0.16	–	–	–	–	◪ 40	0.11	–	–	–	–
SCET 120408-SD:D9335	●	0.8	■ 240	0.16	–	■ 140	0.14	–	◪ 225	0.16	–	–	–	–	◪ 60	0.11	–	–	–	–
SCET 150512-SD:D8330	●	1.2	■ 165	0.18	–	■ 95	0.16	–	◪ 155	0.18	–	–	–	–	◪ 40	0.12	–	–	–	–
SCET 150512-SD:D9335	●	1.2	■ 240	0.18	–	■ 140	0.16	–	◪ 225	0.18	–	–	–	–	◪ 60	0.12	–	–	–	–

XPET

	IC (mm)	D1 (mm)	L (mm)	S (mm)
0502	5.556	2.40	5.56	2.38
0602	6.350	2.60	6.35	2.38
0703	7.937	2.90	7.94	3.18
0903	9.525	3.50	9.53	3.18
11T3	11.509	3.90	11.50	3.97
12T3	12.700	3.90	12.70	3.97
1504	15.875	4.50	15.88	4.76
1904	19.050	4.50	19.05	4.76



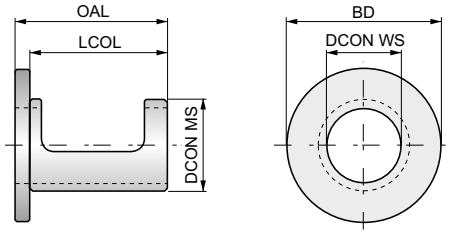
Idoneità e valori iniziali per velocità di taglio (Vc), avanzamento (f) e profondità di taglio (ap). Fare riferimento alla nostra App Machining Calculator per ulteriori calcoli.

Product	Interrupted/ Continuous cut	RE (mm)	P vc (m/min)	P f (mm/rev)	P ap (mm)	M vc (m/min)	M f (mm/rev)	M ap (mm)	K vc (m/min)	K f (mm/rev)	K ap (mm)	N vc (m/min)	N f (mm/rev)	N ap (mm)	S vc (m/min)	S f (mm/rev)	S ap (mm)	H vc (m/min)	H f (mm/rev)	H ap (mm)
			**Geometria** con design universale per inserti centrali.																	
XPET 0502AP:D8345	●	–	165	0.08	–	–	–	–	155	0.08	–	–	–	–	–	–	–	–	–	–
XPET 0602AP:D8345	●	–	165	0.11	–	–	–	–	155	0.11	–	–	–	–	–	–	–	–	–	–
XPET 0703AP:D8345	●	–	165	0.13	–	–	–	–	155	0.13	–	–	–	–	–	–	–	–	–	–
XPET 0903AP:D8345	●	–	165	0.14	–	–	–	–	155	0.14	–	–	–	–	–	–	–	–	–	–
XPET 11T3AP:D8345	●	–	165	0.16	–	–	–	–	155	0.16	–	–	–	–	–	–	–	–	–	–
XPET 12T3AP:D8345	●	–	165	0.16	–	–	–	–	155	0.16	–	–	–	–	–	–	–	–	–	–
XPET 1504AP:D8345	●	–	165	0.18	–	–	–	–	155	0.18	–	–	–	–	–	–	–	–	–	–
XPET 1904AP:D8345	●	–	165	0.18	–	–	–	–	155	0.18	–	–	–	–	–	–	–	–	–	–
			**Geometria** SD con design positivo per inserti centrali.																	
XPET 0502AP-SD:D8345	●	–	165	0.08	–	95	0.07	–	155	0.08	–	–	–	–	40	0.06	–	–	–	–
XPET 0602AP-SD:D8345	●	–	165	0.11	–	95	0.09	–	155	0.11	–	–	–	–	40	0.07	–	–	–	–
XPET 0703AP-SD:D8345	●	–	165	0.13	–	95	0.11	–	155	0.13	–	–	–	–	40	0.09	–	–	–	–
XPET 0903AP-SD:D8345	●	–	165	0.14	–	95	0.13	–	155	0.14	–	–	–	–	40	0.10	–	–	–	–
XPET 11T3AP-SD:D8345	●	–	165	0.16	–	95	0.14	–	155	0.16	–	–	–	–	40	0.11	–	–	–	–
XPET 12T3AP-SD:D8345	●	–	165	0.16	–	95	0.14	–	155	0.16	–	–	–	–	40	0.11	–	–	–	–
XPET 1504AP-SD:D8345	●	–	165	0.18	–	95	0.16	–	155	0.18	–	–	–	–	40	0.12	–	–	–	–
XPET 1904AP-SD:D8345	●	–	165	0.18	–	95	0.16	–	155	0.18	–	–	–	–	40	0.12	–	–	–	–

EP

EP - bussola di registrazione per punte a fissaggio meccanico

Bussola per regolare il diametro delle punta a fissaggio meccanico. Può essere utilizzata con mandrini ad attacco Weldon Ø32, Ø40 o Ø50 mm. Il diametro esterno della punta viene regolato ruotando la bussola sul suo asse.



L'intervallo di regolazione del diametro è 0.4 - -0.2; l'intervallo di regolazione dell'altezza centrale è 0.2 - -0.15.

Product	DCON WS	DCON MS	BD	OAL	LCOL	kg
	(mm)	(mm)	(mm)	(mm)	(mm)	
EP253253	25.00	32.00	53.00	53.0	48	0.15
EP324058	32.00	40.00	58.00	58.0	53	0.19
EP405085-F	40.00	50.00	76.00	85.0	80	0.25

Codice materiale (BMC)		HM	HM	HM	HM	HM								
Rivestimento		Bright	Bright	Bright	Bright	Bright								
Gruppo standard di base (BSG)		DIN 8093	DIN 8093	DIN 8050	DIN 8094	DIN 8051								
Direzione di taglio		R	R	R	R	R								
Codolo			DIN 6535HA											
Forma alesatore		B	B	A	B	A								
Tolleranza del foro ottenibile (TCHA)		H7	ø.95-5.5 +0.004 ø5.51-12 +0.005	H7	H7	H7								
														
Codice Famiglia Prodotto		B400	B481	B441	B411	B442								
Gamma diametri di taglio PSF		1.00 - 20.00	0.98 - 12.05	10.00 - 20.00	5.00 - 30.00	10.00 - 20.00								
		250	251	253	254	255								
P	P1	■	■	■	■	■								
	P2	■	■	■	■	■								
	P3	■	■	■	■	■								
	P4	■	■	■	■	■								
M	M1	◪	◪	◪	◪	◪								
	M2	◪	◪	◪	◪	◪								
	M3													
	M4													
K	K1	■	■	■	■	■								
	K2	■	■	■	■	■								
	K3	■	■	■	■	■								
	K4													
	K5	■	■	■	■	■								
N	N1	■	■	■	■	■								
	N2	■	■	■	■	■								
	N3	■	■	■	■	■								
	N4	◪	◪	◪	◪	◪								
	N5													
S	S1													
	S2													
	S3													
	S4													
H	H1													
	H2													
	H3													
	H4													

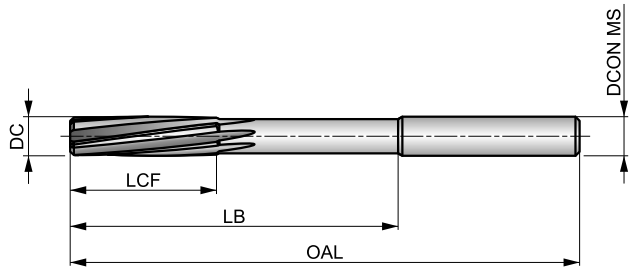
■ Uso primario ◪ Uso possibile

B400

DORMER

Alesatore a macchina in metallo duro tolleranza H7 codolo cilindrico, superficie lucida

Progettato per finiture in tolleranza foro H7. Per prestazioni superiori e maggior durata dell'utensile nell'alesatura di materiali duri e abrasivi. Il design della scanalatura a spirale, con spaziatura asimmetrica accentuata dei taglienti, riduce le vibrazioni e migliora la circolarità del foro, le dimensioni e la finitura superficiale.



HM	Bright	DIN 8093
R		B
H7		

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 279.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■23 B	■26 B	■27 B	■20 B	■18 B	■16 C	■16 B	■13 B	■11 C	■10 B	■8 C	■7 C	◪10 C	◪8 C
M2.1	**M2.2**	**M2.3**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K5.1**	**K5.2**
◪9 C	◪7 C	◪6 B	■20 D	■15 D	■11 D	■21 D	■17 D	■14 D	■18 D	■14 D	■11 D	■19 D	■15 D
K5.3	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**N4.1**	**N4.2**		
■11 D	◪60 D	■45 D	■30 D	■38 D	■35 D	■25 D	■64 E	■38 E	◪19 E	◪35 C	◪30 C		

DCON MS tolleranza h6; DC > = 14 mm con punta in metallo duro.

Product	DC (mm)	OAL (mm)	LCF (mm)	LB (mm)	NOF	DCON MS (mm)
B4001.0	1.00	34.0	5.5	15.00	3	1.00
B4001.2	1.20	38.0	7.5	16.50	3	1.20
B4001.4	1.40	40.0	8.0	18.00	3	1.50
B4001.5	1.50	40.0	8.0	18.00	3	1.50
B4001.6	1.60	43.0	9.0	20.00	3	1.60
B4001.8	1.80	46.0	10.0	22.00	4	1.80
B4002.0	2.00	49.0	11.0	24.00	4	2.00
B4002.2	2.20	53.0	12.0	25.00	4	2.20
B4002.5	2.50	57.0	14.0	29.00	4	2.50
B4002.8	2.80	61.0	15.0	33.00	6	3.00
B4003.0	3.00	61.0	15.0	33.00	6	3.00
B4003.2	3.20	65.0	16.0	37.00	6	3.20
B4003.5	3.50	70.0	18.0	42.00	6	3.50
B4004.0	4.00	75.0	19.0	47.00	6	4.00

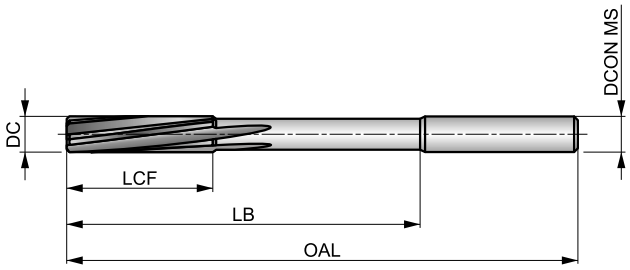
Product	DC (mm)	OAL (mm)	LCF (mm)	LB (mm)	NOF	DCON MS (mm)
B4004.5	4.50	80.0	21.0	52.00	6	4.50
B4005.0	5.00	86.0	23.0	58.00	6	5.00
B4005.5	5.50	93.0	26.0	57.00	6	5.60
B4006.0	6.00	93.0	26.0	57.00	6	5.60
B4006.5	6.50	101.0	28.0	65.00	6	6.30
B4007.0	7.00	109.0	31.0	73.00	6	7.10
B4008.0	8.00	117.0	33.0	81.00	6	8.00
B4009.0	9.00	125.0	36.0	85.00	6	9.00
B40010.0	10.00	133.0	38.0	93.00	6	10.00
B40012.0	12.00	151.0	44.0	111.00	6	10.00
B40014.0	14.00	160.0	47.0	115.00	6	12.50
B40016.0	16.00	170.0	52.0	125.00	6	12.50
B40018.0	18.00	182.0	56.0	137.00	6	14.00
B40020.0	20.00	195.0	60.0	147.00	6	16.00

B481

DORMER

Alesatore a macchina in metallo duro codolo cilindrico - incremento centesimale, finitura lucida

Codolo clilindrico per alte prestazioni per lavorazione CNC. Diverse dimensioni ad incremento centesimale consentono di produrre dimensioni e tolleranze dei fori precisi. Le teste in metallo duro premium offrono prestazioni notevolmente migliorate e una maggiore durata dell'utensile durante l'alesatura di materiali duri e abrasivi. Spaziatura estremamente asimmetrica sulle scanalature per ridurre le vibrazioni.



HM	Bright	DIN 8093
R	DIN 6535HA	B
ø.95-5.5 +0.004 ø5.51-12 +0.005		

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 279.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■23 B	■26 B	■27 B	■20 B	■18 B	■16 C	■16 B	■13 B	■11 C	■10 B	■8 C	■7 C	◪10 C	◪8 C
M2.1	**M2.2**	**M2.3**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K5.1**	**K5.2**
◪9 C	◪7 C	◪6 B	■20 D	■15 D	■11 D	■21 D	■17 D	■14 D	■18 D	■14 D	■11 D	■19 D	■15 D
K5.3	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**N4.1**	**N4.2**		
■11 D	◪60 D	■45 D	■30 D	■38 D	■35 D	■25 D	■64 E	■38 E	◪19 E	◪35 C	◪30 C		

DCON MS tolleranza h6.

Product	DC (mm)	OAL (mm)	LCF (mm)	LB (mm)	NOF	DCON MS (mm)
B4810.98	0.98	50.0	6.0	22.00	3	3.00
B4810.99	0.99	50.0	6.0	22.00	3	3.00
B4811.03	1.03	50.0	6.0	22.00	3	3.00
B4811.50	1.50	50.0	9.0	22.00	3	3.00
B4811.51	1.51	50.0	10.0	22.00	3	3.00
B4811.52	1.52	50.0	10.0	22.00	3	3.00
B4811.53	1.53	50.0	10.0	22.00	3	3.00
B4811.98	1.98	50.0	12.0	22.00	4	3.00
B4811.99	1.99	50.0	12.0	22.00	4	3.00
B4812.00	2.00	50.0	12.0	22.00	4	3.00
B4812.01	2.01	50.0	12.0	22.00	4	3.00
B4812.02	2.02	50.0	12.0	22.00	4	3.00
B4812.03	2.03	50.0	12.0	22.00	4	3.00
B4812.48	2.48	60.0	16.0	32.00	4	3.00
B4812.49	2.49	60.0	16.0	32.00	4	3.00
B4812.50	2.50	60.0	16.0	32.00	4	3.00
B4812.51	2.51	60.0	16.0	32.00	4	3.00
B4812.52	2.52	60.0	16.0	32.00	4	3.00
B4812.53	2.53	60.0	16.0	32.00	4	3.00
B4812.97	2.97	65.0	17.0	37.00	6	4.00
B4812.98	2.98	65.0	17.0	37.00	6	4.00
B4812.99	2.99	65.0	17.0	37.00	6	4.00
B4813.00	3.00	65.0	17.0	37.00	6	4.00
B4813.01	3.01	65.0	17.0	37.00	6	4.00
B4813.02	3.02	65.0	17.0	37.00	6	4.00
B4813.03	3.03	65.0	17.0	37.00	6	4.00
B4813.97	3.97	75.0	19.0	47.00	6	4.00

Product	DC (mm)	OAL (mm)	LCF (mm)	LB (mm)	NOF	DCON MS (mm)
B4813.98	3.98	75.0	19.0	47.00	6	4.00
B4813.99	3.99	75.0	19.0	47.00	6	4.00
B4814.00	4.00	75.0	19.0	47.00	6	4.00
B4814.01	4.01	75.0	19.0	47.00	6	4.00
B4814.02	4.02	75.0	19.0	47.00	6	4.00
B4814.03	4.03	75.0	19.0	47.00	6	4.00
B4814.97	4.97	93.0	23.0	57.00	6	6.00
B4814.98	4.98	93.0	23.0	57.00	6	6.00
B4814.99	4.99	93.0	23.0	57.00	6	6.00
B4815.00	5.00	93.0	23.0	57.00	6	6.00
B4815.01	5.01	93.0	23.0	57.00	6	6.00
B4815.02	5.02	93.0	23.0	57.00	6	6.00
B4815.03	5.03	93.0	23.0	57.00	6	6.00
B4815.97	5.97	93.0	26.0	57.00	6	6.00
B4815.98	5.98	93.0	26.0	57.00	6	6.00
B4815.99	5.99	93.0	26.0	57.00	6	6.00
B4816.00	6.00	93.0	26.0	57.00	6	6.00
B4816.01	6.01	93.0	26.0	57.00	6	6.00
B4816.02	6.02	93.0	26.0	57.00	6	6.00
B4816.03	6.03	93.0	26.0	57.00	6	6.00
B4817.97	7.97	117.0	33.0	81.00	6	8.00
B4817.98	7.98	117.0	33.0	81.00	6	8.00
B4817.99	7.99	117.0	33.0	81.00	6	8.00
B4818.00	8.00	117.0	33.0	81.00	6	8.00
B4818.01	8.01	117.0	33.0	81.00	6	8.00
B4818.02	8.02	117.0	33.0	81.00	6	8.00
B4818.03	8.03	117.0	33.0	81.00	6	8.00

Product	DC	OAL	LCF	LB	NOF	DCON MS
	(mm)	(mm)	(mm)	(mm)		(mm)
B4818.04	8.04	117.0	33.0	81.00	6	8.00
B4819.97	9.97	133.0	38.0	93.00	6	10.00
B4819.98	9.98	133.0	38.0	93.00	6	10.00
B4819.99	9.99	133.0	38.0	93.00	6	10.00
B48110.00	10.00	133.0	38.0	93.00	6	10.00
B48110.01	10.01	133.0	38.0	93.00	6	10.00
B48110.02	10.02	133.0	38.0	93.00	6	10.00
B48110.03	10.03	133.0	38.0	93.00	6	10.00
B48110.04	10.04	133.0	38.0	93.00	6	10.00

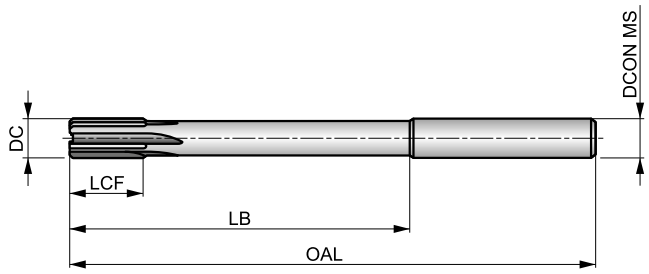
Product	DC	OAL	LCF	LB	NOF	DCON MS
	(mm)	(mm)	(mm)	(mm)		(mm)
B48110.05	10.05	133.0	38.0	93.00	6	10.00
B48111.98	11.98	151.0	44.0	106.00	6	12.00
B48111.99	11.99	151.0	44.0	106.00	6	12.00
B48112.00	12.00	151.0	44.0	106.00	6	12.00
B48112.01	12.01	151.0	44.0	106.00	6	12.00
B48112.02	12.02	151.0	44.0	106.00	6	12.00
B48112.03	12.03	151.0	44.0	106.00	6	12.00
B48112.04	12.04	151.0	44.0	106.00	6	12.00
B48112.05	12.05	151.0	44.0	106.00	6	12.00

B441

DORMER

Alesatore a macchina con punta in metallo duro codolo cilindrico in tolleranza H7

La testa in metallo duro brasato garantisce una maggiore durata dell'utensile e prestazioni superiori quando si alesano fori entro i limiti della tolleranza del foro H7. Il design delle scanalature a spaziatura asimmetrica estrema riduce le vibrazioni e migliora la cilindricità del foro, la finitura superficiale e le dimensioni. Questo utensile offre grandi prestazioni nelle macchine CNC.



HM	Bright	DIN 8050
R		A
H7		

Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 279.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■23 B	■26 B	■27 B	■20 B	■18 B	■16 C	■16 B	■13 B	■11 C	■10 B	■8 C	■7 C	◪10 C	◪8 C
M2.1	**M2.2**	**M2.3**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K5.1**	**K5.2**
◪9 C	◪7 C	◪6 B	■20 D	■15 D	■11 D	■21 D	■17 D	■14 D	■18 D	■14 D	■11 D	■19 D	■15 D
K5.3	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**N4.1**	**N4.2**		
■11 D	◪60 D	■45 D	■30 D	■38 D	■35 D	■25 D	■64 E	■38 E	◪19 E	◪35 C	◪30 C		

DCON MS tolleranza h9; Con punta in metallo duro.

Product	DC	OAL	LCF	LB	NOF	DCON MS
	(mm)	(mm)	(mm)	(mm)		(mm)
B44110.0	10.00	133.0	19.0	87.00	6	10.00
B44111.0	11.00	142.0	19.0	96.00	6	10.00
B44112.0	12.00	151.0	19.0	105.00	6	10.00
B44113.0	13.00	151.0	19.0	105.00	6	10.00
B44114.0	14.00	160.0	19.0	110.00	6	12.50
B44115.0	15.00	162.0	19.0	112.00	6	12.50
B44116.0	16.00	170.0	22.0	120.00	6	12.50
B44117.0	17.00	175.0	22.0	123.00	6	14.00
B44118.0	18.00	182.0	22.0	130.00	6	14.00
B44119.0	19.00	189.0	22.0	131.00	6	16.00
B44120.0	20.00	195.0	22.0	137.00	6	16.00

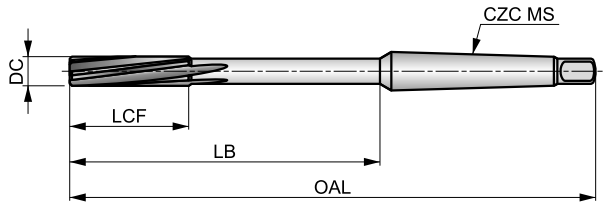
B411

DORMER

Alesatore a macchina con punta in metallo duro codolo conico in tolleranza H7, finitura lucida

La testa in metallo duro brasato offre miglioramenti significativi in termini di prestazioni e una maggiore durata dell'utensile quando si alesano materiali duri e abrasivi. Le scanalature a spirale hanno una spaziatura asimmetrica estrema riducendo efficacemente le vibrazioni e migliorando la simmetria, le dimensioni e la finitura del foro.

HM	Bright	DIN 8094
R		B
H7		



Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 279.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■23 B	■26 B	■27 B	■20 B	■18 B	■16 C	■16 B	■13 B	■11 C	■10 B	■8 C	■7 C	◪10 C	◪8 C
M2.1	**M2.2**	**M2.3**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K5.1**	**K5.2**
◪9 C	◪7 C	◪6 B	■20 D	■15 D	■11 D	■21 D	■17 D	■14 D	■18 D	■14 D	■11 D	■19 D	■15 D
K5.3	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**N4.1**	**N4.2**		
■11 D	◪60 D	■45 D	■30 D	■38 D	■35 D	■25 D	■64 E	■38 E	◪19 E	◪35 C	◪30 C		

DC < = 16mm Testa in metallo duro; DC > 16mm in metallo duro riportato

Product	DC	OAL	LCF	LB	NOF	CZC MS
	(mm)	(mm)	(mm)	(mm)		
B4115.0	5.00	133.0	23.0	67.50	6	MK 1
B4116.0	6.00	138.0	26.0	72.50	6	MK 1
B4117.0	7.00	150.0	31.0	84.50	6	MK 1
B4118.0	8.00	156.0	33.0	90.50	6	MK 1
B4119.0	9.00	162.0	36.0	96.50	6	MK 1
B41110.0	10.00	168.0	38.0	102.50	6	MK 1
B41112.0	12.00	182.0	44.0	116.50	6	MK 1
B41114.0	14.00	189.0	47.0	123.50	8	MK 1
B41115.0	15.00	204.0	50.0	124.00	8	MK 2
B41116.0	16.00	210.0	52.0	130.00	8	MK 2
B41117.0	17.00	214.0	54.0	134.00	6	MK 2
B41118.0	18.00	219.0	56.0	139.00	6	MK 2
B41119.0	19.00	223.0	58.0	143.00	6	MK 2
B41120.0	20.00	228.0	60.0	148.00	6	MK 2
B41122.0	22.00	237.0	64.0	157.00	6	MK 2
B41124.0	24.00	268.0	68.0	169.00	8	MK 3
B41125.0	25.00	268.0	68.0	169.00	8	MK 3
B41126.0	26.00	273.0	70.0	174.00	8	MK 3
B41130.0	30.00	281.0	73.0	182.00	8	MK 3

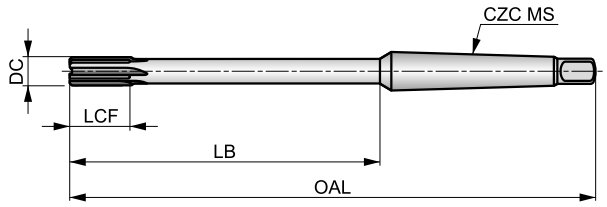
B442

DORMER

Alesatore a macchina tolleranza H7 in metallo duro brasato codolo cono Morse, superficie lucida

Progettato con taglienti a spaziatura asimmetrica accentuata per ridurre le vibrazioni e migliorare le dimensioni del foro, la rotondità e la finitura superficiale. Un imbocco a 45 ° garantisce un centraggio preciso per offrire una migliore qualità del foro e prestazioni. I taglienti in metallo duro brasato offrono una maggiore durata dell'utensile e prestazioni superiori.

HM	Bright	DIN 8051
R		A
H7		



Idoneità del materiale da lavorare, valori iniziali per velocità di taglio (m/min) e avanzamento con Lettera riferimento. Le tabelle con avanzamento al giro si trovano a partire dalla pagina 279.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■23 B	■26 B	■27 B	■20 B	■18 B	■16 C	■16 B	■13 B	■11 C	■10 B	■8 C	■7 C	◪10 C	◪8 C
M2.1	**M2.2**	**M2.3**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**	**K3.3**	**K5.1**	**K5.2**
◪9 C	◪7 C	◪6 B	■20 D	■15 D	■11 D	■21 D	■17 D	■14 D	■18 D	■14 D	■11 D	■19 D	■15 D
K5.3	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**	**N2.3**	**N3.1**	**N3.2**	**N3.3**	**N4.1**	**N4.2**		
■11 D	◪60 D	■45 D	■30 D	■38 D	■35 D	■25 D	■64 E	■38 E	◪19 E	◪35 C	◪30 C		

Product	DC (mm)	OAL (mm)	LCF (mm)	LB (mm)	NOF	CZC MS
B44210.0	10.00	168.0	19.0	102.50	6	MK 1
B44212.0	12.00	182.0	19.0	116.50	6	MK 1
B44214.0	14.00	189.0	19.0	123.50	6	MK 1
B44215.0	15.00	204.0	19.0	124.00	6	MK 2
B44216.0	16.00	210.0	22.0	130.00	6	MK 2
B44217.0	17.00	214.0	22.0	134.00	6	MK 2
B44218.0	18.00	219.0	22.0	139.00	6	MK 2
B44219.0	19.00	223.0	22.0	143.00	6	MK 2
B44220.0	20.00	228.0	22.0	148.00	6	MK 2