



## STOZZATURA E BARRETTE

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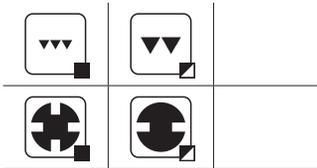
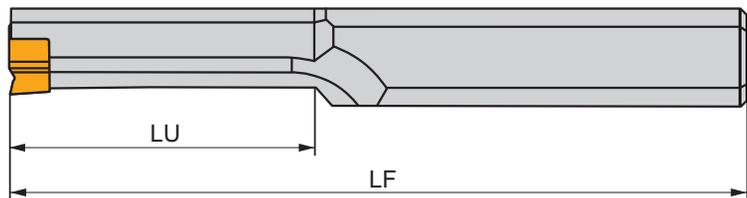
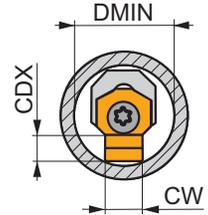
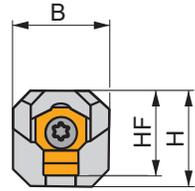
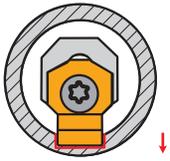
# PHZ



**PRAMET**



**Utensile Stozzatore interno per piccoli diametri con inserti HZ a tagliente singolo**  
 Utensile per Stozzatura interna fino a 12 mm di larghezza di taglio. Corpo trattato per una maggiore durata.

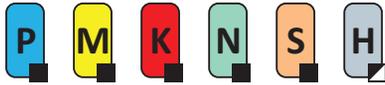


Product	H	HF	B	OAL	LU	CW	DMIN	CDX	kg	G1239	SH21
	(mm)										
<b>N</b> PHZ 90 1104-06	11.3	9	8.5	160	35	3.00	9.5	1.6	0.14	G1239	SH21
PHZ 90 1107-06	11.3	10	7	200	60	—	—	—	0.19	G1240	SH21
PHZ 90 1111-06	11.3	12	—	200	60	—	—	—	0.21	G1240	SH21
PHZ 1512-10	15.5	16.2	—	220	—	—	—	—	0.33	G1224	SH22
PHZ 2014-13	20.6	21.5	—	250	—	—	—	—	0.58	G1225	SH23

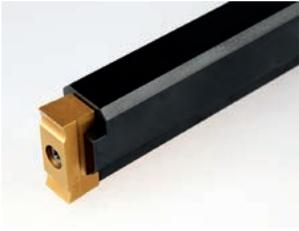
G1224	HZ 1006-60	HZ 1006-80
G1225	HZ 1309-100	HZ 1309-120
G1239	HZ90 0604-30	—
G1240	HZ90 0604-40	HZ90 0604-50

SH21	DVF 3593	0.8	M 2.5	10	TX207PLUS
SH22	DVF 2260	3.6	M 4	15	TX215PLUS
SH23	5513 020-14	8.5	M 6	18	TX225PLUS

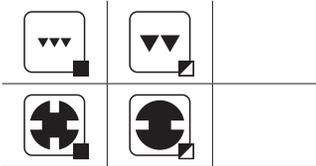
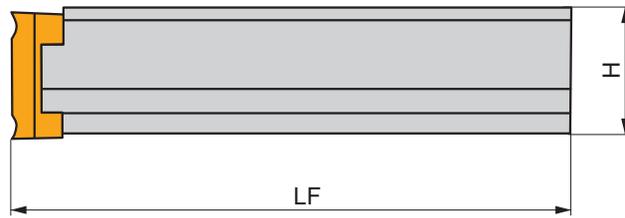
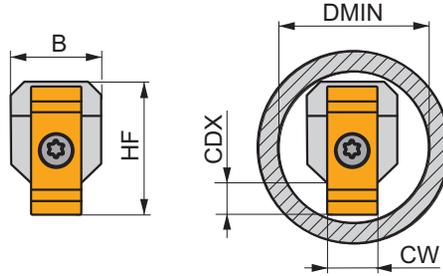
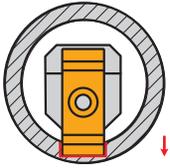
# PHZ-2



**PRAMET**



**Utensile Stozzatore interno per grandi diametri con inserti HZ a doppio tagliente**  
 Utensile per Stozzatura interna fino a 20 mm di larghezza di taglio. Corpo trattato per una maggiore durata.



Product	H	HF	B	OAL	CW	DMIN	CDX	kg		
	(mm)									
<b>N</b> PHZ/2 3625-14	36	37.5	25	300	–	44	–	1.84	G1235	SH23
PHZ/2 4832-18	48	50	32	400	–	58	–	2.00	G1241	SH24

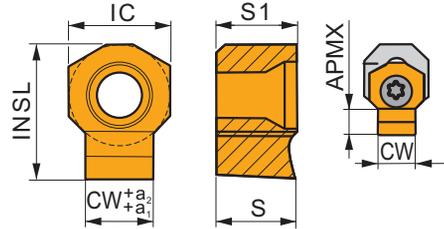
G1235	HZ/2 14-14	HZ/2 16-16
G1241	HZ/2 18-18	HZ/2 20-20

SH23	5513 020-14	8.5	M 6	18	TX225PLUS
SH24	5513 021-03	13.0	M 8	22	DMN 3124

# HZ

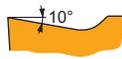


	CW	INSL	APMX	S	S1
	(mm)	(mm)	(mm)	(mm)	(mm)
0604-30	3.00	7.5	1.60	4.66	4.76
0604-40	4.00	8.0	2.50	4.66	4.76
0604-50	5.00	8.0	3.00	4.66	4.76
1006-60	6.00	13.5	4.20	6.25	6.35
1006-80	8.00	13.5	5.20	6.25	6.35
1309-100	10.00	18.5	6.20	9.40	9.53
1309-120	12.00	18.5	7.20	9.40	9.53



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

Product	Interrupted/ Continuous cut	RE (mm)	P		M		K		N		S		H		CW (mm)	CWTOLL (mm)	CWTOLU (mm)
			vc (m/min)	f (mm/rev)													



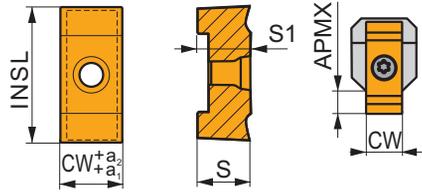
HZ geometria positiva per la stozzatura (mono tagliente).

HZ 1006-60 C11:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	6.00	0.07	0.14
HZ 1006-60 D10:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	6.00	0.03	0.08
HZ 1006-60 H7:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	6.00	0.00	0.01
HZ 1006-60 P9:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	6.00	-0.04	-0.01
HZ 1006-80 C11:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	8.00	0.08	0.17
HZ 1006-80 D10:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	8.00	0.04	0.10
HZ 1006-80 H7:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	8.00	0.00	0.01
HZ 1006-80 P9:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	8.00	-0.05	-0.01
HZ 1309-100 C11:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	10.00	0.08	0.17
HZ 1309-100 D10:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	10.00	0.04	0.10
HZ 1309-100 H7:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	10.00	0.00	0.01
HZ 1309-100 P9:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	10.00	-0.05	-0.01
HZ 1309-120 C11:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	12.00	0.10	0.20
HZ 1309-120 D10:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	12.00	0.05	0.12
HZ 1309-120 H7:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	12.00	0.00	0.02
HZ 1309-120 P9:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	12.00	-0.06	-0.02
HZ90 0604-30 C11:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	3.00	0.06	0.12
HZ90 0604-30 D10:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	3.00	0.02	0.06
HZ90 0604-30 H7:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	3.00	0.00	0.01
HZ90 0604-30 P9:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	3.00	-0.03	-0.01
HZ90 0604-40 C11:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	4.00	0.07	0.14
HZ90 0604-40 D10:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	4.00	0.03	0.08
HZ90 0604-40 H7:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	4.00	0.00	0.01
HZ90 0604-40 P9:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	4.00	-0.04	-0.01
HZ90 0604-50 C11:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	5.00	0.07	0.14
HZ90 0604-50 D10:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	5.00	0.03	0.08
HZ90 0604-50 H7:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	5.00	0.00	0.01
HZ90 0604-50 P9:333TN	*	-	50	0.10	30	0.09	45	0.10	-	-	-	-	5.00	-0.04	-0.01

# HZ-2

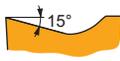


	INSL (mm)	APMX (mm)	S (mm)	S1 (mm)	CW (mm)
<b>14-14</b>	36.0	8.00	13.90	14.00	14.00
<b>16-16</b>	36.0	9.00	13.90	14.00	16.00
<b>18-18</b>	45.0	12.00	15.90	16.00	18.00
<b>20-20</b>	45.0	13.00	15.90	16.00	20.00



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

Product	Intermittent/ Continuous cut	RE (mm)	P		M		K		N		S		H		CW (mm)	CWTOLL (mm)	CWTOLU (mm)
			vc (m/min)	f (mm/rev)													



HZ-2 geometria positiva per la stozzatura (bi-tagliente).

HZ/2 14-14 C11:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	14.00	0.10	0.20
HZ/2 14-14 H7:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	14.00	0.00	0.02
HZ/2 14-14 P9:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	14.00	-0.06	-0.02
HZ/2 16-16 C11:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	16.00	0.10	0.20
HZ/2 16-16 H7:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	16.00	0.00	0.02
HZ/2 16-16 P9:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	16.00	-0.06	-0.02
HZ/2 18-18 C11:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	18.00	0.10	0.20
HZ/2 18-18 H7:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	18.00	0.00	0.02
HZ/2 18-18 P9:333TN	✳	–	50	0.10	30	0.10	45	0.10	–	–	–	–	–	–	18.00	-0.06	-0.02
HZ/2 20-20 C11:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	20.00	0.11	0.24
HZ/2 20-20 H7:333TN	✳	–	50	0.10	30	0.09	45	0.10	–	–	–	–	–	–	20.00	0.00	0.02
HZ/2 20-20 P9:333TN	✳	–	50	0.10	30	0.10	45	0.10	–	–	–	–	–	–	20.00	-0.07	-0.02

# TOOL BITS F



## Barretta rettangolare in HSS-E

Barretta rettangolare rettificata secondo la norma DIN 4964 D. Acciaio HSS-E T2000S con il 10% di cobalto, durezza 65-67 HRC.



HSS-E	DIN 4964D	Bright
h13		

Product	H (mm)	B (mm)	OAL (mm)
8X6X200:T2000S	8	6	200.0
10X2X200:T2000S	10	2	200.0
10X3X200:T2000S	10	3	200.0
10X4X200:T2000S	10	4	200.0
10X5X200:T2000S	10	5	200.0
10X6X200:T2000S	10	6	200.0
10X8X200:T2000S	10	8	200.0
12X3X200:T2000S	12	3	200.0
12X4X200:T2000S	12	4	200.0
12X6X200:T2000S	12	6	200.0
12X8X200:T2000S	12	8	200.0
15X3X200:T2000S	15	3	200.0
15X4X200:T2000S	15	4	200.0
15X5X200:T2000S	15	5	200.0
15X6X200:T2000S	15	6	200.0
15X8X200:T2000S	15	8	200.0
15X10X200:T2000S	15	10	200.0
16X8X200:T2000S	16	8	200.0
16X10X200:T2000S	16	10	200.0

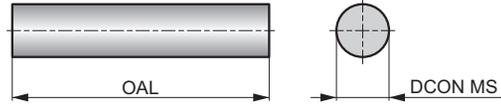
Product	H (mm)	B (mm)	OAL (mm)
16X12X200:T2000S	16	12	200.0
20X3X200:T2000S	20	3	200.0
20X4X200:T2000S	20	4	200.0
20X5X200:T2000S	20	5	200.0
20X6X200:T2000S	20	6	200.0
20X8X200:T2000S	20	8	200.0
20X10X200:T2000S	20	10	200.0
20X12X200:T2000S	20	12	200.0
20X15X200:T2000S	20	15	200.0
25X5X200:T2000S	25	5	200.0
25X6X200:T2000S	25	6	200.0
25X10X200:T2000S	25	10	200.0
25X12X200:T2000S	25	12	200.0
30X4X200:T2000S	30	4	200.0
30X5X200:T2000S	30	5	200.0
30X10X200:T2000S	30	10	200.0
30X15X200:T2000S	30	15	200.0
30X20X200:T2000S	30	20	200.0

# TOOL BITS R



## Barretta tonda in HSS-E

Barretta tonda rettificata secondo la norma DIN 4964 A. Acciaio HSS-E T2000S con il 10% di cobalto, durezza 65-67 HRC.



HSS-E	DIN 4964A	Bright
h9		

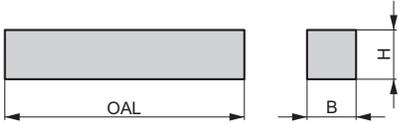
Product	DCON MS		OAL
	(mm)		(mm)
3X200 T:T2000S	3.00		200.0
4X200 T:T2000S	4.00		200.0
5X200 T:T2000S	5.00		200.0
6X200 T:T2000S	6.00		200.0
7X200 T:T2000S	7.00		200.0
8X200 T:T2000S	8.00		200.0
10X200 T:T2000S	10.00		200.0
12X200 T:T2000S	12.00		200.0
14X200 T:T2000S	14.00		200.0
16X200 T:T2000S	16.00		200.0
20X200 T:T2000S	20.00		200.0

# TOOL BITS S



## Barretta quadrata in HSS-E

Barretta quadrata rettificata secondo la norma DIN 4964 B. Acciaio HSS-E T2000S con il 10% di cobalto, durezza 65-67 HRC.



HSS-E	DIN 4964B	Bright
+0 -0.1		

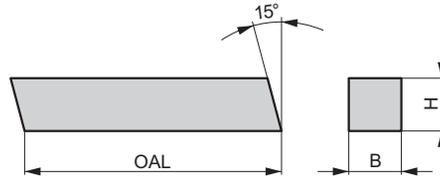
Product	H (mm)	B (mm)	OAL (mm)
4X4X200:T2000S	4	4	200.0
6X6X200:T2000S	6	6	200.0
8X8X200:T2000S	8	8	200.0
10X10X200:T2000S	10	10	200.0
12X12X200:T2000S	12	12	200.0
14X14X200:T2000S	14	14	200.0
15X15X200:T2000S	15	15	200.0
16X16X200:T2000S	16	16	200.0
20X20X200:T2000S	20	20	200.0
25X25X200:T2000S	25	25	200.0

# TOOL BITS SA



## Barretta quadrata in HSS-E con smusso

Barretta quadrata rettificata con estremità smussate secondo la norma DIN 4964 B. Acciaio HSS-E T2000S con il 10% di cobalto, durezza 65-67 HRC.



HSS-E	DIN 4964B	Bright
h13		

Product	H	B	OAL	H	B	OAL
	(mm)	(mm)	(mm)	(inch)	(inch)	(inch)
4X4X200A:T2000S	4	4	200.0	-	-	-
6X6X100A:T2000S	6	6	100.0	-	-	-
6X6X200A:T2000S	6	6	200.0	-	-	-
8X8X100A:T2000S	8	8	100.0	-	-	-
8X8X160A:T2000S	8	8	160.0	-	-	-
8X8X200A:T2000S	8	8	200.0	-	-	-
10X10X100A:T2000S	10	10	100.0	-	-	-
10X10X160A:T2000S	10	10	160.0	-	-	-
10X10X200A:T2000S	10	10	200.0	-	-	-
12X12X100A:T2000S	12	12	100.0	-	-	-
12X12X200A:T2000S	12	12	200.0	-	-	-
14X14X200A:T2000S	14	14	200.0	-	-	-
15X15X200A:T2000S	15	15	200.0	-	-	-
16X16X200A:T2000S	16	16	200.0	-	-	-
20X20X200A:T2000S	20	20	200.0	-	-	-
25X25X200A:T2000S	25	25	200.0	-	-	-
3/16X3/16X2.1/2A:T2000S	-	-	-	3/16	3/16	2.500
1/4X1/4X2.1/2A:T2000S	-	-	-	1/4	1/4	2.500
1/4X1/4X4A:T2000S	-	-	-	1/4	1/4	4.000
5/16X5/16X2.1/2A:T2000S	-	-	-	5/16	5/16	2.500
5/16X5/16X4A:T2000S	-	-	-	5/16	5/16	4.000
3/8X3/8X3A:T2000S	-	-	-	3/8	3/8	3.000
3/8X3/8X4A:T2000S	-	-	-	3/8	3/8	4.000
3/8X3/8X6A:T2000S	-	-	-	3/8	3/8	6.000
1/2X1/2X4A:T2000S	-	-	-	1/2	1/2	4.000
1/2X1/2X6A:T2000S	-	-	-	1/2	1/2	6.000
5/8X5/8X6A:T2000S	-	-	-	5/8	5/8	6.000