

TECHNO DRILL
HPT®



24E-911

 **Punta in metallo duro, gola ampia per scarico truciolo e pattino di guida. Per leghe di alluminio rame, ottone, bronzo.**

 **Solid carbide drill, with wide helix for evacuation of the chips. Suggested for aluminium alloys, copper, brass and bronze.**

 **Foret carbure, avec large goujure pour l'évacuation du cuopeau. Recommandé pour alliages d'aluminium, cuivre, laiton, bronze.**

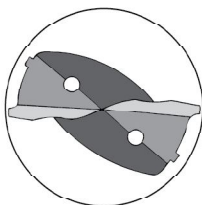
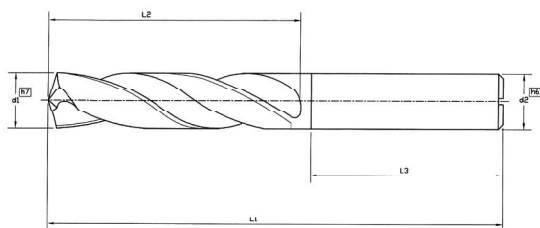


Materiale	Gruppo Materiale	VT	AV							
			Ø 6	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 20	
1	1.1 Acciaio Dolce Magnetico - Magnetic Soft Iron									
	1.2 Acciaio da Costruzione - Structural Case Hardened Steel									
	1.3 Acciaio al Carbonio - Carbon Steel									
	1.4 Acciaio Legato - Alloy Steel									
	1.5 Acciaio Legato Temprato - Alloy Heat Treated Steel									
	1.6 Acciaio Legato Temprato - Alloy Heat Treated Steel									
	1.7 Acciaio Legato 45 HRC - Hardened Steel to 45 HRC									
	1.8 Acciaio Legato 58 HRC - Hardened Steel to 58 HRC									
2	2.1 Acciaio Inossidabile - Stainless steel									
	2.2 Austenico - Austenic									
	2.3 Ferrico + Austenico - Ferritic Austenic									
3	3.1 Ghisa lamellare - Grey Cast Iron									
	3.2 Ghisa lamellare trattata - Grey Cast Iron heat treated									
	3.3 Ghisa sferoidale - Spher Cast Iron									
	3.4 Ghisa sferoidale trattata - Sphere Cast Iron heat treated									
	3.5 Ghisa sferoidale trattata - Sphere Cast Iron heat treated									
	3.6 Ghisa malleabile - Malleable Iron									
	3.7 Ghisa Malleabile trattata - Malleable Iron treated									
4	4.1 Titanio Non Legato - Pure Titanium									
	4.2 Titanio Legato - Titanium Alloys									
	4.3 Titanio Legato - Titanium Alloys									
5	5.1 Nichel non legato - Pure Nichel									
	5.2 Nichel legato - Nichel alloys heat resistant									
	5.3 Nichel legato - Nichel alloys high heat resistant									
6	6.1 Rame non legato - Non-alloy copper	120-180	0,15	0,20	0,25	0,30	0,35	0,40	0,45	
	6.2 Ottone, Bronzo - Short chip brass, bronze, red brass	120-180	0,15	0,20	0,25	0,30	0,35	0,40	0,45	
	6.3 Ottone a truciolo lungo - long chip brass	120-180	0,15	0,20	0,25	0,30	0,35	0,40	0,45	
	6.4 Bronzo alta resistenza - Cu Al Fe alloy (Ampco)	100-160	0,12	0,16	0,20	0,25	0,30	0,35	0,40	
7	7.1 Alluminio MG non legato - Alu MG Non Alloy	180-300	0,30	0,35	0,40	0,45	0,50	0,55	0,60	
	7.2 Alluminio Legato ≤ 5% Si - Alu Cast Alloy Si ≤ 5%	180-300	0,30	0,35	0,40	0,45	0,50	0,55	0,60	
	7.3 Alluminio Legato ≥ 5% ≤ 10 Si - Alu Cast Alloy Si ≥ 5% ≤ 10	180-250	0,30	0,35	0,40	0,45	0,55	0,55	0,60	
	7.4 Alluminio Legato ≥ 10% Si - Alu Cast Alloy Si ≥ 10%	160-250	0,25	0,30	0,35	0,40	0,45	0,50	0,55	
8	6.1 Termoplastici - Thermoplastics									
	6.2 Plastiche termoindurenti - Thermosetting plastics									
	6.3 Plastiche rinforzate - Fibre reinforced plastics									

Gruppi Materiali: 1- Acciaio 2 - Acciai Trattati 3- Ghise 4 - Leghe di Titanio 5 - Leghe di Nichel 6 - Leghe di Rame, Bronzo, Ottone 7 - Leghe di Alluminio 8 - Materie Plastiche

Groups: 1 - Steel 2 - Stainless Steel 3 - Cast Iron 4 - Titanium 5 - Nichel 6 - Copper 7 - Aluminium / Magnesium 8 - Plastics

ZYF-ALL



ZYF-ALL 5 x Ø

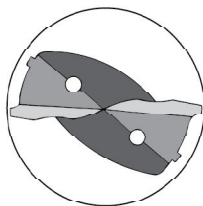
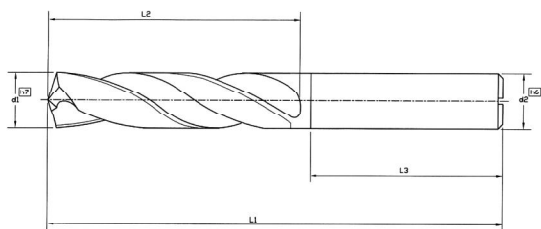
Ø	Ø Gambo	L3	L2	L1	Cod.	€
4,0	6	36	42	80	TDZYFAL5D0400	64,00
4,2	6	36	42	80	TDZYFAL5D0420	64,00
4,5	6	36	42	80	TDZYFAL5D0450	64,00
4,8	6	36	42	80	TDZYFAL5D0480	64,00
5,0	6	36	42	80	TDZYFAL5D0500	64,00
5,1	6	36	42	80	TDZYFAL5D0510	64,00
5,2	6	36	42	80	TDZYFAL5D0520	64,00
5,5	6	36	42	80	TDZYFAL5D0550	64,00
6,0	6	36	42	80	TDZYFAL5D0600	64,00
6,5	8	36	42	90	TDZYFAL5D0650	69,00
6,8	8	36	52	90	TDZYFAL5D0680	69,00
7,0	8	36	52	90	TDZYFAL5D0700	69,00
7,5	8	36	52	90	TDZYFAL5D0750	69,00
7,8	8	36	52	90	TDZYFAL5D0780	69,00
8,0	8	36	52	90	TDZYFAL5D0800	69,00
8,1	10	40	60	102	TDZYFAL5D0810	88,00
8,2	10	40	60	102	TDZYFAL5D0820	88,00
8,5	10	40	60	102	TDZYFAL5D0850	88,00
8,8	10	40	60	102	TDZYFAL5D0880	88,00
9,0	10	40	60	102	TDZYFAL5D0900	88,00
9,5	10	40	60	102	TDZYFAL5D0950	88,00
9,8	10	40	60	102	TDZYFAL5D0980	88,00
10,0	10	40	60	102	TDZYFAL5D1000	88,00
10,2	12	45	73	120	TDZYFAL5D1020	124,00
10,3	12	45	73	120	TDZYFAL5D1030	124,00
10,5	12	45	73	120	TDZYFAL5D1050	124,00
10,8	12	45	73	120	TDZYFAL5D1080	124,00
11,0	12	45	73	120	TDZYFAL5D1100	124,00
11,5	12	45	73	120	TDZYFAL5D1150	124,00
11,8	12	45	73	120	TDZYFAL5D1180	124,00
12,0	12	45	73	120	TDZYFAL5D1200	124,00
12,5	14	45	78	125	TDZYFAL5D1250	162,00
12,8	14	45	78	125	TDZYFAL5D1280	162,00
13,0	14	45	78	125	TDZYFAL5D1300	162,00
13,5	14	45	78	125	TDZYFAL5D1350	162,00
13,8	14	45	78	125	TDZYFAL5D1380	162,00
14,0	14	45	78	125	TDZYFAL5D1400	162,00
14,5	16	48	85	135	TDZYFAL5D1450	210,00
15,0	16	48	85	135	TDZYFAL5D1500	210,00
15,3	16	48	85	135	TDZYFAL5D1530	210,00
15,5	16	48	85	135	TDZYFAL5D1550	210,00
16,0	16	48	85	135	TDZYFAL5D1600	210,00
16,5	18	48	95	145	TDZYFAL5D1650	278,00
17,0	18	48	95	145	TDZYFAL5D1700	278,00
17,5	18	48	95	145	TDZYFAL5D1750	278,00
18,0	18	48	95	145	TDZYFAL5D1800	278,00
18,5	20	50	103	155	TDZYFAL5D1850	344,00
19,0	20	50	103	155	TDZYFAL5D1900	344,00
19,5	20	50	103	155	TDZYFAL5D1950	344,00
20,0	20	50	103	155	TDZYFAL5D2000	344,00

Altri diametri e misure a richiesta
Other diameters and length available on request
Autres diamètres sur demande



ZYF-ALL
180°

A richiesta
On request
Sur demande

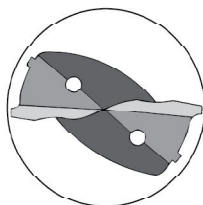
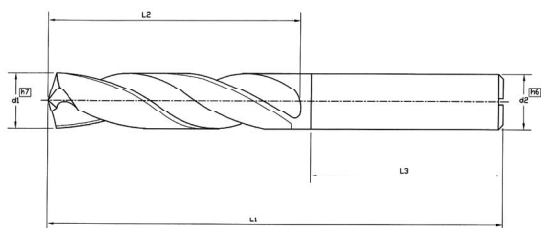


ZYF-ALL 8xØ

Ø	Ø Gambo	L3	L2	L1	Cod.	€
5,0	6	36	57	95	TDZYFAL8D0500	89,00
5,1	6	36	57	95	TDZYFAL8D0510	89,00
5,2	6	36	57	95	TDZYFAL8D0520	89,00
5,5	6	36	57	95	TDZYFAL8D0550	89,00
6,0	6	36	57	95	TDZYFAL8D0600	89,00
6,5	8	36	69	107	TDZYFAL8D0650	118,00
6,8	8	36	69	107	TDZYFAL8D0680	118,00
7,0	8	36	69	107	TDZYFAL8D0700	118,00
7,5	8	36	69	107	TDZYFAL8D0750	118,00
7,8	8	36	69	107	TDZYFAL8D0780	118,00
8,0	8	36	69	107	TDZYFAL8D0800	118,00
8,1	10	40	86	126	TDZYFAL8D0810	164,00
8,2	10	40	86	126	TDZYFAL8D0820	164,00
8,5	10	40	86	126	TDZYFAL8D0850	164,00
8,8	10	40	86	126	TDZYFAL8D0880	164,00
9,0	10	40	86	126	TDZYFAL8D0900	164,00
9,5	10	40	94	134	TDZYFAL8D0950	172,00
9,8	10	40	94	134	TDZYFAL8D0980	172,00
10,0	10	40	94	134	TDZYFAL8D1000	172,00
10,2	12	45	110	157	TDZYFAL8D1020	216,00
10,3	12	45	110	157	TDZYFAL8D1030	216,00
10,5	12	45	110	157	TDZYFAL8D1050	216,00
10,8	12	45	110	157	TDZYFAL8D1080	216,00
11,0	12	45	110	157	TDZYFAL8D1100	216,00
11,5	12	45	110	157	TDZYFAL8D1150	216,00
11,8	12	45	110	157	TDZYFAL8D1180	216,00
12,0	12	45	110	157	TDZYFAL8D1200	216,00
12,5	14	45	134	181	TDZYFAL8D1250	278,00
12,8	14	45	134	181	TDZYFAL8D1280	278,00
13,0	14	45	134	181	TDZYFAL8D1300	278,00
13,5	14	45	134	181	TDZYFAL8D1350	278,00
13,8	14	45	134	181	TDZYFAL8D1380	278,00
14,0	14	45	134	181	TDZYFAL8D1400	278,00
14,5	16	48	155	205	TDZYFAL8D1450	369,00
15,0	16	48	155	205	TDZYFAL8D1500	369,00
15,3	16	48	155	205	TDZYFAL8D1530	369,00
15,5	16	48	155	205	TDZYFAL8D1550	369,00
16,0	16	48	155	205	TDZYFAL8D1600	369,00

Altri diametri e misure a richiesta
Other diameters and length available on request
Autres diamètres sur demande

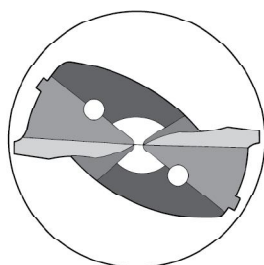
ZYF-ALL



ZYF-ALL 10 x Ø

Ø	Ø Gambo	L3	L2	L1	Cod.	€
5,0	6	36	62	100	TDZYFAL10D050	114,00
5,5	6	36	67	105	TDZYFAL10D055	114,00
6,0	6	36	67	105	TDZYFAL10D060	114,00
6,5	8	36	77	115	TDZYFAL10D065	140,00
7,0	8	36	77	115	TDZYFAL10D070	140,00
7,5	8	36	87	125	TDZYFAL10D075	145,00
8,0	8	36	87	125	TDZYFAL10D080	145,00
8,5	10	40	93	135	TDZYFAL10D085	168,00
9,0	10	40	98	140	TDZYFAL10D090	168,00
9,5	10	40	103	145	TDZYFAL10D095	172,00
10,0	10	40	113	155	TDZYFAL10D100	184,00
10,5	12	45	118	165	TDZYFAL10D105	244,00
11,0	12	45	118	165	TDZYFAL10D110	244,00
11,5	12	45	128	175	TDZYFAL10D115	258,00
12,0	12	45	128	175	TDZYFAL10D120	258,00
12,5	14	45	143	190	TDZYFAL10D125	321,00
13,0	14	45	143	190	TDZYFAL10D130	321,00
13,5	14	45	143	190	TDZYFAL10D135	321,00
14,0	14	45	158	205	TDZYFAL10D140	330,00
14,5	16	48	158	205	TDZYFAL10D145	435,00
15,0	16	48	170	220	TDZYFAL10D150	466,00
15,5	16	48	170	220	TDZYFAL10D155	466,00
16,0	16	48	170	220	TDZYFAL10D160	466,00

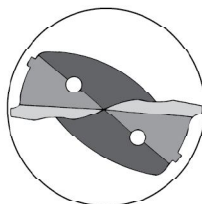
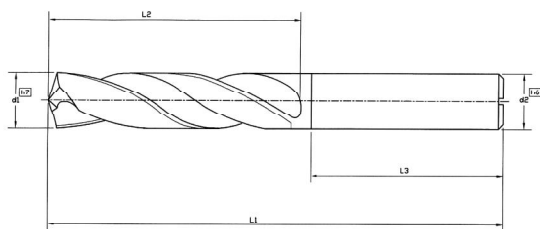
Altri diametri e misure a richiesta
Other diameters and length available on request
Autres diamètres sur demande



 **A richiesta, affilatura di testa con centrino.**

 **Double angle point, available on request.**

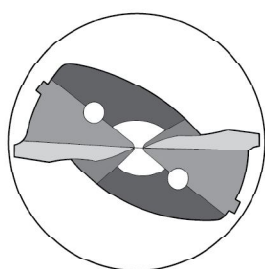
 **Double point d'angle, sur demande.**



ZYF-ALL 15 x Ø

Ø	Ø Gambo	L3	L2	L1	Cod.	€
5,0	6	36	88	126	TDZYFAL15D050	139,00
5,5	6	36	98	136	TDZYFAL15D055	145,00
6,0	6	36	107	145	TDZYFAL15D060	156,00
6,5	8	36	112	150	TDZYFAL15D065	174,00
7,0	8	36	117	155	TDZYFAL15D070	179,00
7,5	8	36	127	165	TDZYFAL15D075	192,00
8,0	8	36	137	175	TDZYFAL15D080	200,00
8,5	10	40	138	180	TDZYFAL15D085	253,00
9,0	10	40	148	190	TDZYFAL15D090	266,00
9,5	10	40	158	200	TDZYFAL15D095	282,00
10,0	10	40	168	210	TDZYFAL15D100	297,00
10,5	12	45	173	220	TDZYFAL15D105	332,00
11,0	12	45	183	230	TDZYFAL15D110	350,00
11,5	12	45	188	235	TDZYFAL15D115	368,00
12,0	12	45	193	240	TDZYFAL15D120	394,00
12,5	14	45	203	250	TDZYFAL15D125	446,00
13,0	14	45	208	255	TDZYFAL15D130	468,00
13,5	14	45	223	270	TDZYFAL15D135	493,00
14,0	14	45	243	290	TDZYFAL15D140	517,00
14,5	16	48	242	290	TDZYFAL15D145	583,00
15,0	16	48	252	300	TDZYFAL15D150	608,00
15,5	16	48	270	320	TDZYFAL15D155	635,00
16,0	16	48	270	320	TDZYFAL15D160	635,00

Altri diametri e misure a richiesta
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Autres diamètres sur demande

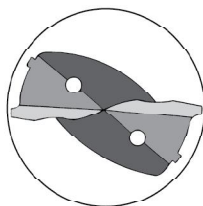
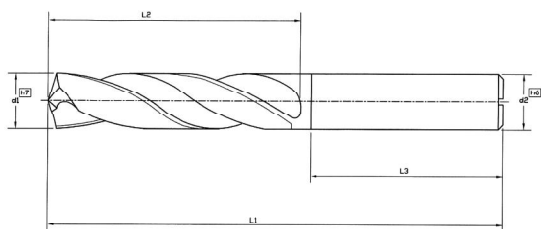


 **A richiesta, affilatura di testa con centrino.**

 **Double angle point, available on request.**

 **Double point d'angle, sur demande.**

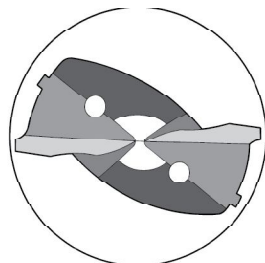
ZYF-ALL



ZYF-ALL 20 x Ø

Ø	Ø Gambo	L3	L2	L1	Cod.	€
5,0	6	36	112	150	TDZYFAL20D050	170,00
5,5	6	36	117	155	TDZYFAL20D055	191,00
6,0	6	36	127	165	TDZYFAL20D060	216,00
6,5	8	36	137	175	TDZYFAL20D065	265,00
7,0	8	36	152	190	TDZYFAL20D070	289,00
7,5	8	36	172	210	TDZYFAL20D075	308,00
8,0	8	36	182	220	TDZYFAL20D080	325,00
8,5	10	40	188	230	TDZYFAL20D085	409,00
9,0	10	40	198	240	TDZYFAL20D090	426,00
9,5	10	40	208	250	TDZYFAL20D095	452,00
10,0	10	40	213	255	TDZYFAL20D100	470,00
10,5	12	45	228	275	TDZYFAL20D105	530,00
11,0	12	45	238	285	TDZYFAL20D110	544,00
11,5	12	45	248	295	TDZYFAL20D115	548,00
12,0	12	45	263	310	TDZYFAL20D120	566,00

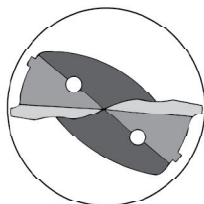
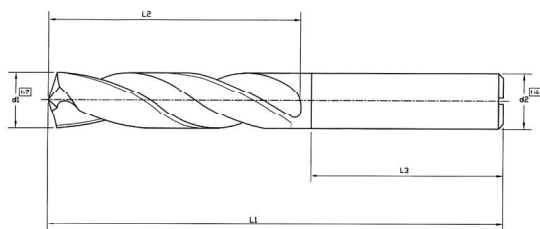
Altri diametri e misure a richiesta
Other diameters and length available on request
Autres diamètres sur demande



 **A richiesta, affilatura di testa con centrino.**

 **Double angle point, available on request.**

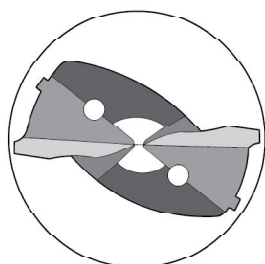
 **Double point d'angle, sur demande.**



ZYF-ALL 25 x Ø

Ø	Ø Gambo	L3	L2	L1	Cod.	€
5,0	6	36	142	180	TDZYFAL25D050	240,00
5,5	6	36	152	190	TDZYFAL25D055	248,00
6,0	6	36	167	205	TDZYFAL25D060	272,00
6,5	8	36	177	215	TDZYFAL25D065	326,00
7,0	8	36	192	230	TDZYFAL25D070	352,00
7,5	8	36	202	240	TDZYFAL25D075	378,00
8,0	8	36	217	255	TDZYFAL25D080	402,00
8,5	10	40	228	270	TDZYFAL25D085	462,00
9,0	10	40	238	280	TDZYFAL25D090	480,00
9,5	10	40	258	300	TDZYFAL25D095	504,00
10,0	10	40	268	310	TDZYFAL25D100	536,00

Altri diametri e misure a richiesta
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Autres diamètres sur demande

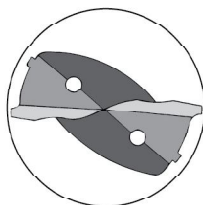
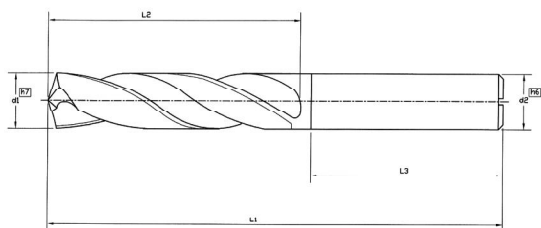


 **A richiesta, affilatura di testa con centrino.**

 **Double angle point, available on request.**

 **Double point d'angle, sur demande.**

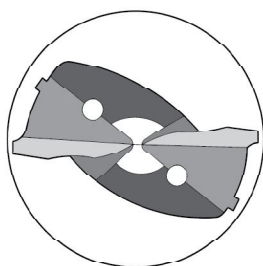
ZYF-ALL






ZYF-ALL 30 x Ø

Ø	Ø Gambo	L3	L2	L1	Cod.	€
5,0	6	36	162	200	TDZYFAL30D050	298,00
5,5	6	36	178	216	TDZYFAL30D055	314,00
6,0	6	36	197	235	TDZYFAL30D060	346,00
6,5	8	36	212	250	TDZYFAL30D065	408,00
7,0	8	36	227	265	TDZYFAL30D070	438,00
7,5	8	36	242	280	TDZYFAL30D075	464,00
8,0	8	36	262	300	TDZYFAL30D080	498,00

Altri diametri e misure a richiesta
Other diameters and length available on request
Autres diamètres sur demande



-  **A richiesta, affilatura di testa con centrino.**
-  **Double angle point, available on request.**
-  **Double point d'angle, sur demande.**

