Frese cilindriche semisferiche a 2, 3 e 4 taglienti serie corta, lunga ed extra lunga

Cylindrical ball nose end mills with 2, 3 or 4 flutes short, long and extra long series

Applicazioni / Application — Adatte per fresature a secco di materiali a medie/alta resistenza, particolarmente indicate per fresatura a copiare in semifinitura e finitura.

Materiale / Material — Metallo duro micrograna ISO K20-K40

Norma / Norm — Standard **Utensili Services**

Rivestimento / Coating — HYPERCUT

Acciai	Acciai INOX	Ghise	Grafite	L.Leggere	Non ferrosi	Titanio	HRSA	HRC < 54	HRC > 54
●	○	●	○	○	○	●	●	●	●
ISO-P	ISO-M	ISO-K	Graphite	L.Alloys	Non-ferrous	Titanium	ISO-S	HRC < 54	ISO-H

Solid **M.D.** Carbide | DIN 6535 **HA** | DIN 6535 **HB** | Profilo **N** Profile | Semisferica Ball nose



Cod. 104



Sgrossatura | Finitura | **Z2** | Elica **30°** Helix

Cod. 105

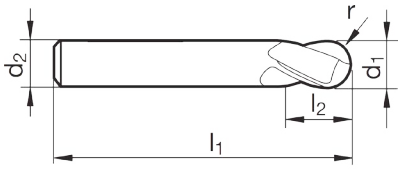


Sgrossatura | Finitura | **Z3** | Elica **30°/32°** Helix

Cod. 106



Sgrossatura | Finitura | **Z4** | Elica **30°/32°** Helix



104	105	106	d_1h_6	d_2h_6	l_1	l_2	r
104.0300	105.0300	106.0300	3	3	40	10	1,5
104.0400	105.0400	106.0400	4	4	50	11	2
104.0500	105.0500	106.0500	5	5	50	13	2,5
104.0600	105.0600	106.0600	6	6	57	16	3
104.0800	105.0800	106.0800	8	8	63	19	4
104.1000	105.1000	106.1000	10	10	72	22	5
104.1200	105.1200	106.1200	12	12	83	26	6
104.1400	105.1400	106.1400	14	14	83	28	7
104.1600	105.1600	106.1600	16	16	92	32	8
104.1800	105.1800	106.1800	18	18	92	32	9
104.2000	105.2000	106.2000	20	20	104	38	10
104.2500	105.2500	106.2500	25	25	123	45	12,5

Corta / Short

104L	105L	106L	d_1h_6	d_2h_6	l_1	l_2	r
104.0300L	105.0300L	106.0300L	3	3	55	20	1,5
104.0400L	105.0400L	106.0400L	4	4	60	20	2
104.0500L	105.0500L	106.0500L	5	5	60	20	2,5
104.0600L	105.0600L	106.0600L	6	6	65	24	3
104.0800L	105.0800L	106.0800L	8	8	80	32	4
104.1000L	105.1000L	106.1000L	10	10	80	32	5
104.1200L	105.1200L	106.1200L	12	12	100	50	6
104.1400L	105.1400L	106.1400L	14	14	115	55	7
104.1600L	105.1600L	106.1600L	16	16	120	60	8
104.1800L	105.1800L	106.1800L	18	18	120	60	9
104.2000L	105.2000L	106.2000L	20	20	127	60	10

Lunga / Long

104XL	105XL	106XL	d_1h_6	d_2h_6	l_1	l_2	r
104.0300XL	105.0300XL	106.0300XL	3	3	70	25	1,5
104.0400XL	105.0400XL	106.0400XL	4	4	72	32	2
104.0500XL	105.0500XL	106.0500XL	5	5	80	32	2,5
104.0600XL	105.0600XL	106.0600XL	6	6	82	40	3
104.0800XL	105.0800XL	106.0800XL	8	8	100	42	4
104.1000XL	105.1000XL	106.1000XL	10	10	100	45	5
104.1200XL	105.1200XL	106.1200XL	12	12	160	75	6
104.1400XL	105.1400XL	106.1400XL	14	14	160	75	7
104.1600XL	105.1600XL	106.1600XL	16	16	160	75	8
104.1800XL	105.1800XL	106.1800XL	18	18	160	75	9
104.2000XL	105.2000XL	106.2000XL	20	20	160	75	10

Extra lunga / Extra long