

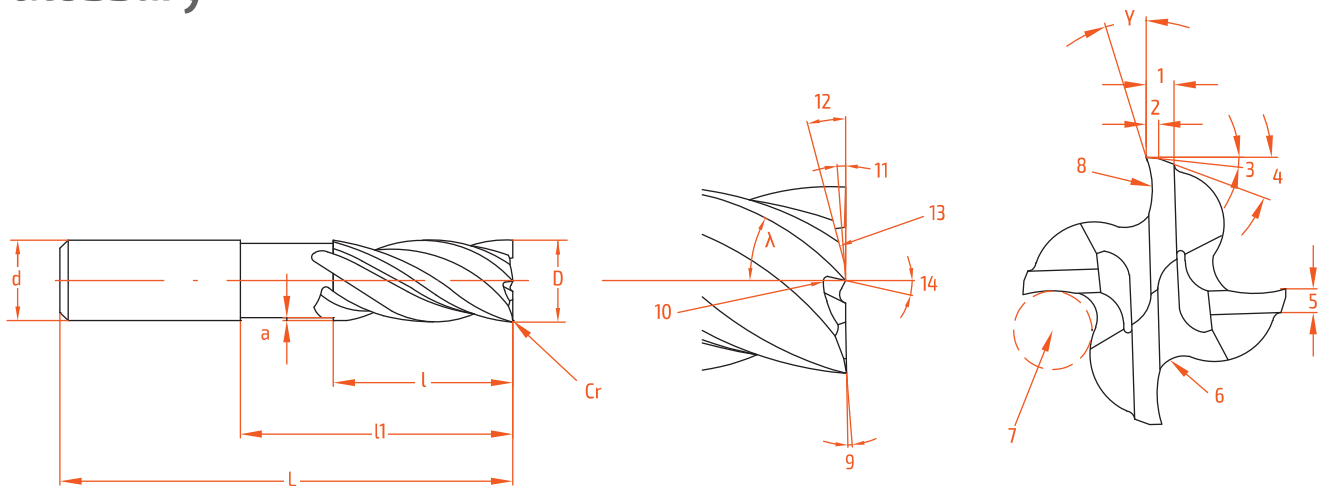
# Informazioni tecniche

## Technical info

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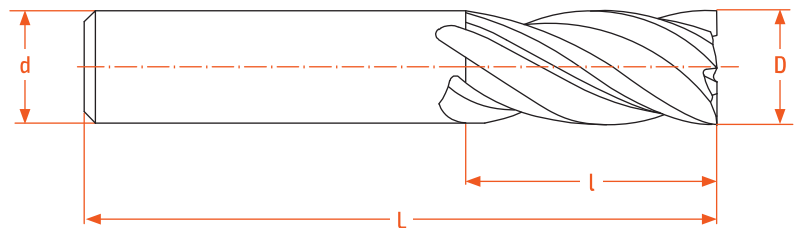
# Glossario

## Glossary



<b>D</b>	Diametro della Fresa	Mill diameter	<b>1</b>	Larghezza spoglia radiale primaria	Radial primary relief width
<b>d</b>	Diametro del Gambo	Shank diameter	<b>2</b>	Larghezza del dente	Land width
<b>L</b>	Lunghezza totale	Overall length	<b>3</b>	Angolo prima spoglia radiale	Radial primary relief angle
<b>l</b>	Lunghezza di taglio	Length of cut	<b>4</b>	Seconda spoglia radiale	Radial secondary clearance angle
<b>l1</b>	Lunghezza ribassata	Neck length	<b>5</b>	Larghezza spoglia assiale primaria	Axial primary relief width
<b>a</b>	Ribassamento del codolo	Neck relief	<b>6</b>	Gola	Flute
<b>Cr</b>	Raggio di raccordo	Corner radius	<b>7</b>	Vano truciolo	Chip room
<b>r</b>	Raggio	Radius	<b>8</b>	Piano di Mordente	Cutting face
<b>z</b>	Numero dei denti	Number of teeth	<b>9</b>	Angolo di rastremazione frontale	End cutting edge concavity angle
<b><math>\lambda</math></b>	Angolo d'elica	Helix angle	<b>10</b>	Gola frontale	End gash
<b>Y</b>	Angolo di spoglia radiale superiore (Mordente)	Radial rake angle	<b>11</b>	Prima spoglia frontale	Axial primary relief angle
			<b>12</b>	Angolo seconda spoglia frontale	Axial secondary clearance angle
			<b>13</b>	Denti frontali	End teeth
			<b>14</b>	Angolo di spoglia frontale superiore (Mordente)	Axial rake angle

# Norma DIN DIN-Standard



Serie Series	CARBIDE								HSS											
	Corta / Short				Lunga / Long				Corta / Short			Normale / Regular			Media / Medium			Lunga / Long		
	6527K				6527L				327			844K			Silmax Norm			844L		
D.	d	L	l z=2/3	l z=4	d	L	l z=2/3	l z=4	d	L	l	d	L	l	d	L	l	d	L	l
1,0	3	38	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,5	3	38	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,0	3	38	3	4	3	38	6	7	6	48	4	6	51	7	-	-	-	6	54	10
2,0	6	50	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,5	3	38	3	4	3	38	7	8	6	49	5	6	52	8	-	-	-	6	56	12
2,5	6	50	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,0	3	38	4	5	3	38	7	8	6	49	5	6	52	8	-	-	-	6	56	12
3,0	6	50	4	5	6	57	7	8	-	-	-	-	-	-	-	-	-	-	-	-
3,5	6	50	4	6	6	57	7	10	-	-	-	-	-	-	-	-	-	-	-	-
4,0	6	54	5	8	6	57	8	11	6	51	7	6	55	11	-	-	-	6	63	19
5,0	6	54	6	9	6	57	10	13	6	52	8	6	57	13	-	-	-	6	68	24
6,0	6	54	7	10	6	57	10	13	6	52	8	6	57	13	6	62	18	6	68	24
7,0	8	58	8	11	8	63	13	16	10	60	10	10	66	16	-	-	-	10	80	30
8,0	8	58	9	12	8	63	16	19	10	61	11	10	69	19	10	75	25	10	88	38
9,0	10	66	10	13	10	72	16	19	10	61	11	10	69	19	-	-	-	10	88	38
10,0	10	66	11	14	10	72	19	22	10	63	13	10	72	22	10	83	33	10	95	45
11,0	-	-	-	-	-	-	-	-	12	70	13	12	79	22	-	-	-	12	102	45
12,0	12	73	12	16	12	83	22	26	12	73	16	12	83	26	12	96	39	12	110	53
13,0	-	-	-	-	-	-	-	-	12	73	16	12	83	26	-	-	-	12	110	53
14,0	14	75	14	18	14	83	22	26	12	73	16	12	83	26	12	96	39	12	110	53
15,0	-	-	-	-	-	-	-	-	12	73	16	12	83	26	-	-	-	12	110	53
16,0	16	82	16	22	16	92	26	32	16	79	19	16	92	32	16	105	45	16	123	63
17,0	-	-	-	-	-	-	-	-	16	79	19	16	92	32	-	-	-	16	123	63
18,0	18	84	18	24	18	92	26	32	16	79	19	16	92	32	16	105	45	16	123	63
19,0	-	-	-	-	-	-	-	-	16	79	19	16	92	32	-	-	-	16	123	63
20,0	20	92	20	26	20	104	32	38	20	88	22	20	104	38	20	121	55	20	141	75
22,0	-	-	-	-	-	-	-	-	20	88	22	20	104	38	20	121	55	20	141	75
24,0	-	-	-	-	-	-	-	-	25	102	26	25	121	45	-	-	-	25	166	90
25,0	-	-	-	-	-	-	-	-	25	102	26	25	121	45	25	141	65	25	166	90
26,0	-	-	-	-	-	-	-	-	25	102	26	25	121	45	-	-	-	25	166	90
28,0	-	-	-	-	-	-	-	-	25	102	26	25	121	45	25	141	65	25	166	90
30,0	-	-	-	-	-	-	-	-	25	102	26	25	121	45	25	141	65	25	166	90
32,0	-	-	-	-	-	-	-	-	32	112	32	32	133	53	32	158	78	32	186	106
40,0	-	-	-	-	-	-	-	-	40	130	38	40	155	63	-	-	-	40	217	125
45,0	-	-	-	-	-	-	-	-	40	130	38	-	-	-	-	-	-	40	217	125
50,0	-	-	-	-	-	-	-	-	50	147	45	50	177	75	-	-	-	50	252	150

# Tolleranze / Allowances

$\mu\text{m} = 0,001 \text{ mm}$

$D_{\text{mm}}$	1 ÷ 3	3 ÷ 6	6 ÷ 10	10 ÷ 18	18 ÷ 30	30 ÷ 50	50 ÷ 80	80 ÷ 120
m7	+12	+16	+21	+25	+29	+34	+41	+48
	+2	+4	+6	+7	+8	+9	+11	+13
d11	-20	-30	-40	-50	-65	-80	-100	-120
	-80	-105	-130	-160	-195	-240	-290	-340
e8	-14	-20	-25	-32	-40	-50	60	-72
	-28	-38	-47	-59	-73	-89	-106	-126
f8	-6	-10	-13	-16	-20	-	-	-
	-20	-28	-35	-43	-53	-	-	-
h5	0	0	0	0	0	0	0	0
	-4	-5	-6	-8	-9	-11	-13	-15
h6	0	0	0	0	0	0	0	0
	-6	-8	-9	-11	-13	-16	-19	-22
h7	0	0	0	0	0	0	0	0
	-10	-12	-15	-18	-21	-25	-30	-35
h8	0	0	0	0	0	0	0	0
	-14	-18	-22	-27	-33	-39	-46	-54
h9	0	0	0	0	0	0	0	0
	-25	-30	-36	-43	-52	-62	-74	-87
h10	0	0	0	0	0	0	0	0
	-40	-48	-58	-70	-84	-100	-120	-140
h11	0	0	0	0	0	0	0	0
	-60	-75	-90	-110	-130	-160	-190	-220
h12	0	0	0	0	0	0	0	0
	-100	-120	-150	-180	-210	-250	-300	-350
js16	+300	+375	+450	+550	+650	+800	+950	+1100
	-300	-375	-450	-550	-650	-800	-950	-1100
k10	+40	+48	+58	+70	+84	+100	+120	+140
	0	0	0	0	0	0	0	0
k11	+60	+75	+90	+110	+130	+160	+190	+220
	0	0	0	0	0	0	0	0
k12	+100	+120	+150	+180	+210	+250	+300	+350
	0	0	0	0	0	0	0	0
P9	-6	-12	-15	-18	-22	-26	-32	-37
	-31	-42	-51	-61	-74	-88	-106	-124
H11	+60	+75	+90	+110	+130	+160	+190	+220
	0	0	0	0	0	0	0	0

$D_{\text{mm}}$	1 ÷ 3	3 ÷ 6	6 ÷ 10	10 ÷ 14	14 ÷ 18	18 ÷ 24	24 ÷ 30	30 ÷ 40
z9	+51	+65	+78	+93	+103	+125	+140	+174
	+26	+35	+42	+50	+60	+73	+88	+112

## Tabella durezza / Hardness table

Rm (N/mm <sup>2</sup> )	HV 10 (Vickers)	HB (Brinell)	HRC (Rockwell)
240	75	71	-
255	80	76	-
270	85	81	-
285	90	86	-
305	95	90	-
320	100	95	-
335	105	100	-
350	110	105	-
370	115	109	-
385	120	114	-
400	125	119	-
415	130	124	-
430	135	128	-
450	140	133	-
465	145	138	-
480	150	143	-
495	155	147	-
510	160	152	-
530	165	157	-
545	170	162	-
560	175	166	-
575	180	171	-
595	185	176	-
610	190	181	-
625	195	185	-
640	200	190	-
660	205	195	-
675	210	199	-
690	215	204	-
705	220	209	-
720	225	214	-
740	230	219	-
755	235	223	-
770	240	228	-
785	245	233	-
800	250	238	22
820	255	242	23
835	260	247	24
860	268	255	25
870	272	258	26
900	280	266	27
920	287	273	28

Rm (N/mm <sup>2</sup> )	HV 10 (Vickers)	HB (Brinell)	HRC (Rockwell)
940	293	278	29
970	302	287	30
995	310	295	31
1020	317	301	32
1050	327	311	33
1080	336	319	34
1110	345	328	35
1140	355	337	36
1170	364	346	37
1200	373	354	38
1230	382	363	39
1260	392	372	40
1300	403	383	41
1330	413	393	42
1360	423	413	44
1400	434	413	44
1440	446	424	45
1480	458	435	46
1530	473	449	47
1570	484	460	48
1620	497	472	49
1680	514	488	50
1730	527	501	51
1790	544	517	52
1845	560	532	53
1910	578	549	54
1980	596	567	55
2050	615	584	56
2140	639	607	57
-	655	622	58
-	675	-	59
-	698	-	60
-	720	-	61
-	745	-	62
-	773	-	63
-	800	-	64
-	829	-	65
-	864	-	66
-	900	-	67
-	940	-	68
-	-	-	-
-	-	-	-

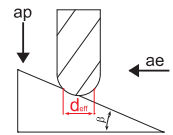
# Formule / Formulas

<b>R<sub>m</sub></b> (N/mm <sup>2</sup> )	<b>HV10</b> (Vickers)	<b>HB</b> (Brinell)
Velocità di rotazione / Revolutions per minute	[giri/minuto] [Rpm]	$n = \frac{Vc \times 1000}{D \times \Pi}$
Avanzamento / Feed speed	[mm/min]	$F = Fz \times z \times n$
Velocità di taglio / Cutting speed	[m/min]	$Vc = \frac{D \times \Pi \times n}{1000}$
Avanzamento per giro / Feed per revolution	[mm]	$f = fz \times z$
Avanzamento per dente / Feed per tooth	[mm]	$fz = \frac{F}{z \times n}$
Volume di truciolo / Chip removal rate	[cm <sup>3</sup> /min]	$Q = \frac{ae \times ap \times F}{1000}$

Diametro effettivo per frese semisferiche con angolo di penetrazione 0° < β < 90°

Effective diameter for ball nose end mills at a set angle 0° < β < 90°

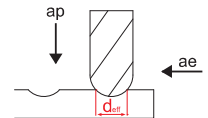
$$D_{eff} = D \times \sin \left[ \beta + \cos^{-1} \left( \frac{D - 2 \times ap}{D} \right) \right] \quad [mm]$$



Diametro effettivo per frese semisferiche con angolo di penetrazione β=0°

Effective diameter for ball nose end mills at a set angle β=0°

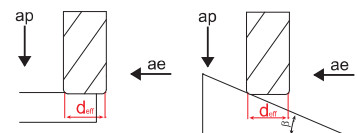
$$D_{eff} = 2 \times \sqrt{(D \times ap - ap^2)} \quad [mm]$$



Diametro effettivo per frese toriche con angolo di penetrazione 0° < β < 90°

Effective diameter for corner radius end mills at a set angle 0° < β < 90°

$$D_{eff} = D - 2 \times Cr + 2 \times Cr \times \sin \left[ \beta + \cos^{-1} \left( 1 - \frac{ap}{Cr} \right) \right] \quad [mm]$$



<b>Parametro</b> Parameter	<b>Unità di misura</b> Units of measurement	<b>Description</b> Descrizione
D	[mm]	Diametro della fresa / End mill diameter
z	[Nr]	Numero dei denti / Number of teeth
Cr	[mm]	Raggio di raccordo / Corner radius
ae	[mm]	Profondità radiale di passata / Cutting width
ap	[mm]	Profondità assiale di passata / Cutting depth
D <sub>eff</sub>	[mm]	Diametro in impegno effettivo / Effective engagement diameter
β	[gradi] [degrees]	Angolo di penetrazione / Setting angle

## Gruppo materiali / Materials group

### Acciaio <800 N/mm<sup>2</sup> Steel <800 N/mm<sup>2</sup>

Non legati / Unalloyed

Wrknr	DIN
1.0402	C22
1.0406	C25
1.0501	C35
1.0503	C45
1.1133	20Mn5
1.1231	Ck67
1.1248	Ck75
1.1274	Ck101

Legati / Alloyed

Wrknr	DIN
1.3505	100Cr6
1.5752	14NiCr14
1.5919	15CrNi6
1.6523	21NiCrMo2
1.6546	40NiCrMo2 2
1.6587	17CrNiMo6
1.7015	15Cr3
1.7131	16MnCr5
1.7176	55Cr3
1.7218	25CrMo4
1.7220	34CrMo4
1.7223	41CrMo4
1.8159	50CrV4

### Acciaio <1000 N/mm<sup>2</sup> Steel <1000 N/mm<sup>2</sup>

Non legati / Unalloyed

Wrknr	DIN
1.0535	C55
1.0601	C60
1.1157	40Mn4
1.1165	30Mn5
1.1167	36Mn5
1.1170	28Mn6
1.1203	Ck55
1.1206	Ck50
1.1221	Ck60

Legati / Alloyed

Wrknr	DIN
1.5710	36NiCr6
1.5755	31NiCr14
1.6511	36CrNiMo4
1.7033	34Cr4
1.7034	37Cr4
1.7035	41Cr4
1.7045	42Cr4
1.7218	25CrMo4
1.7220	34CrMo4
1.7223	41CrMo4
1.7225	42CrMo4
1.8159	50CrV4
1.8507	34CrAlMo5
1.8509	41CrAlMo7
1.8515	31CrMo12

Acciai legati per utensili  
Alloyed tool steels

Wrknr	DIN
1.2067	100Cr6
1.2330	35CrMo4
1.2332	47CrMo4
1.2510	100MnCrW4
1.2516	120WV4
1.2542	45WCrV7
1.2833	100V1
1.2842	90MnCrV8

### Ghisa Cast Iron

Wrknr	DIN
0.6010	GG-15
0.6015	GG-10
0.6020	GG-20
0.6030	GG-30
0.6040	GG-40

### Acciaio <1300 N/mm<sup>2</sup> Steel <1300 N/mm<sup>2</sup>

Legati / Alloyed

Wrknr	DIN
1.5710	36NiCr6
1.6511	36CrNiMo4
1.6580	30CrNiMo8
1.6582	34CrNiMo6
1.7220	34CrMo4
1.7223	41CrMo4
1.7225	42CrMo4
1.7361	32CrMo12
1.8159	50CrV4

Acciai legati per utensili  
Alloyed tool steels

Wrknr	DIN
1.2311	40CrMnMo7
1.2343	X38CrMoV5 1
1.2344	X40CrMoV5 1
1.2365	X32CrMoV3 3
1.2581	X30WCrV9 3
1.2714	56NiCrMoV7

### Acciaio da stampi Mold steel

Acciai legati per utensili  
Alloyed tool steels

Wrknr	DIN
1.2080	X210Cr12
1.2201	X165CrV12
1.2376	X96CrMoV12
1.2379	X155CrMo12 1
1.2436	X210CrW12
1.2601	X165CrMoV12
1.2609	X165CrVMo12 1
1.2631	X50CrMoW9 1 1
1.2706	X3NiCrMo18 8 5
1.2709	X3NiCrMoTi18 9 5
1.2880	X165CrCoMo12

Acciai resistenti al calore  
Heat-resistant steels

Wrknr	DIN
1.4718	X45CrSi9 3
1.4742	X10CrAl18
1.4845	X12CrNi25 21
1.4878	X12CrNiTi18 9
1.4914	-
1.4920	X15CrMo12 1
1.4923	X22CrMoV12 1
1.4924	-

# Gruppo materiali

## Materials group

### Acciaio inossidabile / Stainless Steel

Ferritico/martensitico / Ferritic/martensitic

Wrknr	Std	DIN
1.4057	AISI 431	X20CrNi17 2
1.4301	AISI 304	X5CrNi18 9
1.4000	AISI 403	X6Cr13
1.4005	AISI 416	X12CrS13
1.4006	AISI 410	X10Cr13
1.4021	AISI 420	X20Cr13
1.4057	AISI 431	X20CrNi17 2
1.4104	AISI 430 F	X12CrMoS17
1.4112	AISI 440 B	X90CrMoV18
1.4113	AISI 434	X6CrMo17
1.4125	AISI 440 C	X105CrMo17

Austenitico / Austenitic

Wrknr	Std	DIN
1.4303	AISI 308	X5CrNi18 12
1.4305	AISI 303	X10CrNiS18 9
1.4306	AISI 304 L	X2CrNi19 11
1.4310	AISI 301	X12CrNi17 7
1.4401	AISI 316	ZX5CrNiMo18 10
1.4404	AISI 316 L	X2CrNiMo17 13 2
1.4406	AISI 316 LN	X2CrNiMoN17 12 2
1.4435	AISI 316 L	X2CrNiMo18 14 3
1.4436	AISI 316	X5CrNiMo17 13 3
1.4438	AISI 317 L	X2CrNiMo18 16 4
1.4460	AISI 329	X8CrNiMo27 5
1.4541	AISI 321	X6CrNiTi18 10
1.4550	AISI 347-348	X6CrNiNb18 10
1.4571	AISI 316 Ti	X6CrNiMoTi17 12 2
1.4573	AISI 316 Ti	X10CrNiMoTi18 12
1.4580	AISI 316 Cb	X6CrNiMoNb17 12 2
1.4583	AISI 318	X10CrNiMoNb18 12

### Titanio / Titanium

Leghe di Titanio 340-450HB / Titanium alloys 340-450HB

Wrknr	Std	DIN
3.7124	-	TiCu2
3.7144	-	TiAl6Sn2Zr4Mo2
3.7154	-	TiAl6Zr5
3.7165	-	TiAl6V4
3.7174	-	TiAl6V6Sn2
3.7184	-	TiAl4Mo4Sn2
-	-	Ti6Al6V2Sn
-	-	Ti7Al4Mo
-	-	Ti8Al1Mo1V
-	-	Ti6Al2Sn4Zr2MoSi
-	-	Ti5Al6Sn2Zr1Mo0.25Si
-	-	Ti6Al4VELI
-	-	Ti6Al2Sn4Zr6Mo
-	-	Ti6Al6V2Sn
-	-	Ti7Al4Mo

### Leghe CrCo / CrCo Alloys

Wrknr	Std	DIN
-	ASTM F75	Co28Cr6Mo
-	ASTM F99	Co28Cr6Mo
-	ASTM F90	Co20Cr15W10Ni
-	ASTM F562	Co35Ni20Cr10Mo

### PH Duplex

PH

Wrknr	Std	DIN
1.4504	17-7 PH	-
1.4542	AISI630	X5CrNiCuNb17 4
1.4545	15-5 PH	-
1.4564	17-7 PH	-
-	17-4 PH	-

Duplex

Wrknr	Std	DIN
-	A240 (S31200)	-
1.4410	-	-
1.4462	-	-

### Superleghe / Superalloys

Superleghe / Superalloys

Wrknr	Std	DIN
1.4876	Incoloy 800	X10NiCrAlTi32 20
1.4945	-	X6 CrNiWNB16 16
1.4962	-	X12CrNiWTi 16 3
2.4360	Monel 400	NiCu30Fe
2.4375	Monel K500	NiCu30Al
2.4603	Hastelloy X	NiCr30FeMo
2.4617	Hastelloy B-2	-
2.4630	Nimonic 75	NiCr20Ti
2.4631	Nimonic 80A	NiCr20TiAl
2.4634	Nimonic 105	NiCo20Cr15MoAlTi
2.4640	Inconel 600	NiCr15Fe
2.4668	Inconel 718	NiCr19Fe18Nb5Mg
2.4670	Nimocast 713	-
2.4674	Nimocast PK24	-
2.4816	Inconel 600	NiCr15Fe
2.4856	Inconel 625	NiCr22Mo9Nb
2.4858	Inconel 600	NiCr21Mo

Superleghe difficili da lavorare / Superalloys difficult to work

Wrknr	Std	DIN
1.4943	Z6NCTDV	X4NiCrTi 25 15
-	25.15B	-
1.4980	A-286	X5NiCrTi
2.4603	Hastelloy X	NiCr30FeMo
2.4617	Hastelloy B-2	-
2.4632	Nimonic 90	NiCr20Co18Ti
2.4668	Inconel 718	NiCr19Fe18Nb5Mg
2.4670	Nimocast 713	-
2.4674	Nimocast PK24	-
2.4812	Hastelloy C	-
2.4856	Inconel 625	NiCr22Mo9Nb
2.4983	Udimet 500	-

Superleghe molto difficili da lavorare

Superalloys very difficult to work

Wrknr	Std	DIN
-	Alacrite 601	-
-	Alacrite 602	-
-	AMS 5759	-
-	IN-738	-
-	MAR-M200	-
-	MAR-M246	-
-	MAR-M302	-
-	MAR-M322	-
-	MAR-M432	-
-	MAR-M509	-
2.4654	Rene 41	-
-	Rene 77	-
-	Rene 95	-
-	Rene 100	-
-	Rene 220	-
-	Stellite	-
2.6554	Waspaloy	-



**Alluminio e leghe**  
**Aluminium and Alloys**

Alluminio puro / Pure Aluminium

<b>Wrknr</b>	<b>DIN</b>
3.0205	Al99

**Leghe malleabili non indurite (30-80HB)**  
Non-hardened malleable alloys (30-80HB)

<b>Wrknr</b>	<b>DIN</b>
3.0505	AlMn0.5Mg0.5
3.0506	AlMn0.6
3.0515	AlMn1
3.0517	AlMnCu
3.0525	AlMn1Mg0.5
3.0526	AlMn1Mg1
3.0915	AlFeSi
3.3307	Al99.85Mg0.5
3.3308	Al99.5Mg0.5
3.3315	AlMg1
3.3316	AlMg1.5
3.3317	Al99.85Mg1
3.3318	Al99.9Mg1
3.3326	AlMg1.8
3.3345	AlMg4.5
3.3523	AlMg2.5
3.3525	AlMg2Mn03
3.3527	AlMg2Mn0.8
3.3535	AlMg3
3.3537	AlMg2.7Mn
3.3545	AlMg4Mn
3.3547	AlMg4.5Mn
3.3549	AlMg5Mn
3.3555	AlMg5

**Leghe malleabili indurite (70-150HB)**  
Hardened malleable alloys (70-150HB)

<b>Wrknr</b>	<b>DIN</b>
3.0615	AlMgSiPb
3.1255	AlCuSiMn
3.1305	AlCu2.5Mg0.5
3.1325	AlCuMg1
3.1355	AlCuMg2
3.1645	AlCuMgPb
3.1655	AlCuBiPb
3.2307	Al99.85MgSi
3.2315	AlMgSi1
3.3206	AlMgSi0.5
3.3208	Al99.9MgSi
3.3210	AlMgSi0.7
3.3211	AlMg1SiCu
3.4335	AlZn4.5Mg1
3.4337	Al99.8ZnMg
3.4345	AlZnMgCu0.5
3.4365	AlZnMgCu1.5
3.1371	G-AlCu4TiMg

**Rame e leghe**  
**Copper and Alloys**

Non Legati / Unalloyed

<b>Wrknr</b>	<b>DIN</b>
2.0040	OF-Cu

**Leghe malleabili non indurite**  
Non-hardened malleable alloys

<b>Wrknr</b>	<b>DIN</b>
2.0205	CuZn0.5

**Leghe malleabili indurite**  
Hardened malleable alloys

<b>Wrknr</b>	<b>DIN</b>
2.0850	CuNi2Be

**A truciolo lungo**  
Long-chip

<b>Wrknr</b>	<b>DIN</b>
2.0220	CuZn5

**A truciolo corto**  
Short-chip

<b>Wrknr</b>	<b>DIN</b>
2.0331	CuZn36Pb1.5

**Leghe CuNiZn a truciolo corto**  
Short-chip CuNiZn alloys

<b>Wrknr</b>	<b>DIN</b>
2.0730	CuNi12Zn24

**Leghe a base CuNi**  
CuNi-based alloys

<b>Wrknr</b>	<b>DIN</b>
2.0830	CuNi25

**Resina Termo Plastica**  
**Thermoplastics**

**Leghe malleabili non indurite (30-80HB)**  
Non-hardened malleable alloys (30-80HB)

<b>Wrknr</b>	<b>DIN</b>
P E	Baylon
P P	Daplen
P V C	Coroplast
P S	Hostyron
P M M A	Acrylglas
P T F E	Hostaflon
P A	Akulon
P C	Makralon
P I	-
P F	Alberit
M F	Albanit
U F	Bakelite
P U R	Baydur
S I	Baysilon
U P	Alpolit
U P	Viapal
E P	Araldit
B F K	-
C F K	-
G F K	-
M F K	-
S F K	-