

# FRESE A TAZZA IN HSS-G RETTIFICATE PER FORARE LAMIERE IN ACCIAIO, FERRO, LEGHE LEGGERE, TUTTI I MATERIALI METALLICI, PLASTICA DURA

HSSG fully ground hole cutters/Scies tréfans HSSG rectifiées/

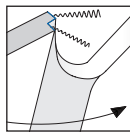
Coronas perforadoras HSS-G rectificadas/Cortadores de furos totalmente retificados HSS-G

**21001**

**HSS-G**

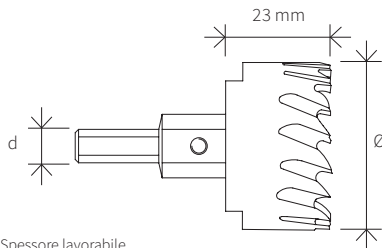


Confezione  
Packaging

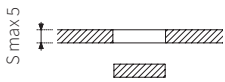


HSS-G  
HRC = 64

Taglio laterale:  
miglior estrazione  
dei trucioli  
Side cut; easy chips  
removal



Spessore lavorabile  
Material tickness workable



**R ≤ 800 N/mm<sup>2</sup>**

Applicazioni  
Applications



Acciaio  
Steel



Metalli  
Metals



Plastica  
Plastic



Emulsione  
Lubrificant

Innovativo disegno dei denti  
e taglio laterale: migliore  
scarico dei trucioli con grande  
rendimento del taglio.

Upgrade teeth design and side  
cut: easy chips removal with high  
cutting performances

Ø	Z	cod.
*10	5	2100101000
12	5	2100101200
13	5	2100101300
14	6	2100101400
15	6	2100101500
16	6	2100101600
17	6	2100101700
18	6	2100101800
19	8	2100101900
20	8	2100102000
21	8	2100102100
22	8	2100102200
23	8	2100102300
24	8	2100102400
25	8	2100102500
26	10	2100102600
27	10	2100102700
28	10	2100102800
29	10	2100102900
30	10	2100103000
31	12	2100103100
32	12	2100103200
33	12	2100103300
34	12	2100103400
35	12	2100103500
36	12	2100103600
37	12	2100103700
38	12	2100103800
39	12	2100103900
40	14	2100104000

Ø	Z	cod.
41	14	2100104100
42	14	2100104200
43	14	2100104300
44	16	2100104400
45	16	2100104500
46	16	2100104600
47	16	2100104700
48	16	2100104800
49	16	2100104900
50	16	2100105000
51	18	2100105100
52	18	2100105200
53	18	2100105300
54	18	2100105400
55	18	2100105500
56	18	2100105600
57	18	2100105700
58	18	2100105800
59	18	2100105900
60	18	2100106000
65	20	2100106500
70	20	2100107000
75	22	2100107500
80	22	2100108000
85	24	2100108500
90	24	2100109000
95	24	2100109500
100	24	2100110000
120	30	2100112000

\*Integrale  
\*One piece



pcs.

cod.



Ø ≥ 20mm

5

21005098

Gambo  
Arbor

Per frese  
Fit hole cutters

L	d	M	cod.
56	8	10 x 1,25	21005099
56	10	12 x 1,25	21005100
56	10	14 x 1,5	21005102
60	12	16 x 1,5	21005101



Punta Pilota AISI M2  
Arbor

Per frese  
Fit hole cutters

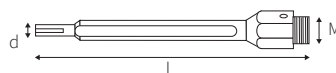
d	cod.
4 x 50	21005109
6 x 52	21005110



Prolunga 400mm  
Extension 400mm

Per frese  
Fit hole cutters

L	d	M	cod.
400	13	12 x 1,25	21005120
400	13	14 x 1,5	21005122
400	13	16 x 1,5	21005121



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**21001**

**HSS-G**



codice code	n. pezzi No. pieces	Ø
21010100	39	12 ÷ 50 x 1 mm
21010101	31	12 ÷ 40 x 1 + 45-50 mm
21010102	21	18 ÷ 35 x 1 + 36 - 38 - 40 mm
21010104	11	16 - 18 - 20 - 21 - 22 - 25 27 - 28 - 30 - 32 - 35 mm



codice code	n. pezzi No. pieces	Ø
21010300	8	16 - 18 - 20 - 22 - 25 - 30 - 32 - 35 mm
21010301	6	16 - 18 - 20 - 22 - 25 - 30 mm

## VELOCITÀ DI TAGLIO PER FRESE A INCASSARE, SVASARE E SBAVARE IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for countersinks and deburring tools in accordance with the materials to work/ Tableau des paramètres de coupe recommandés pour les fraises et les outils d'égavurage en fonction des matériaux à travailler/Tabla de parámetros de corte recomendados para avellanadoras y desbarbadoras en función de los materiales a trabajar/Tabela de parâmetros de corte recomendados para ferramentas de rebarbação e escareamento em função dos materiais a trabalhar

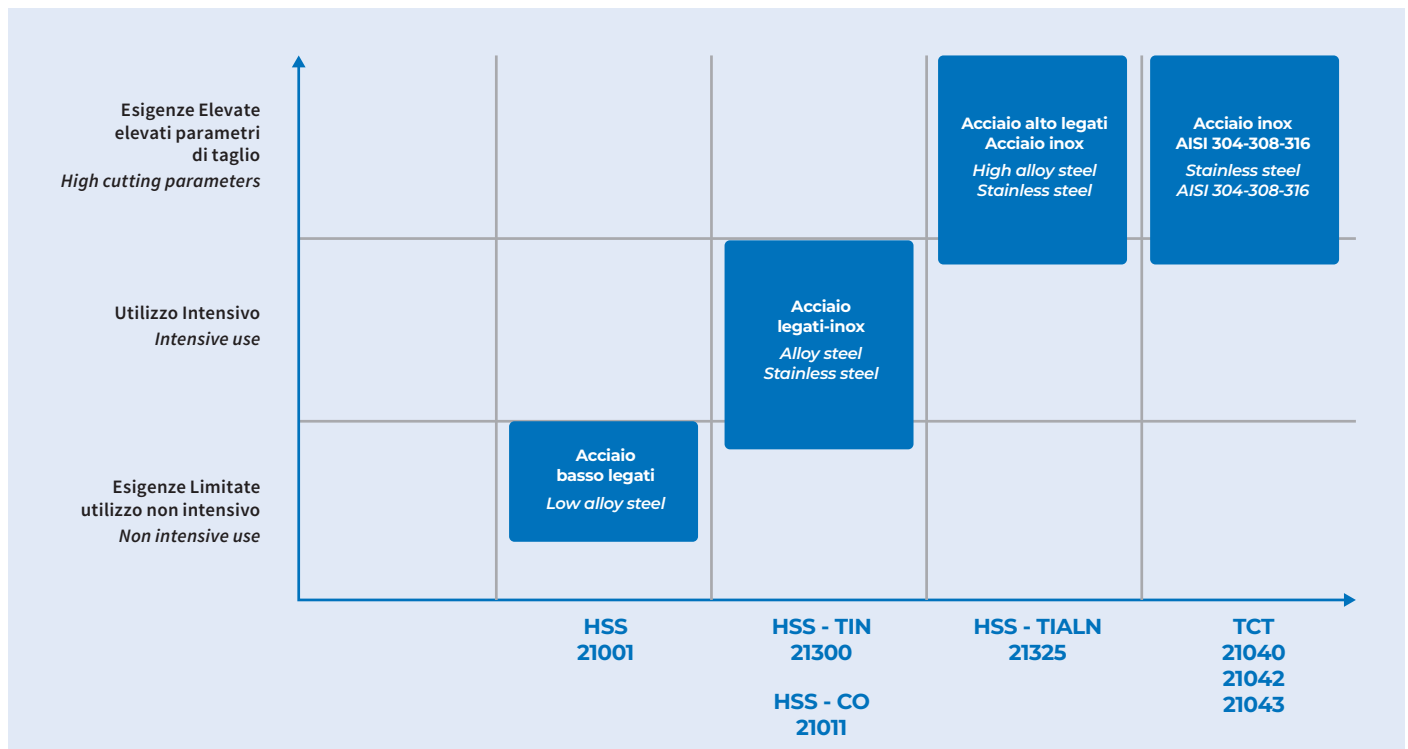


### Frese a tazza Hole cutters

Materiale da lavorare Work-piece material	Ø Fresa / Hole cutter mm												Refrigerante Coolant
	12÷17	18÷24	25÷32	33÷38	39÷44	46÷51	52÷57	58÷64	65÷70	71÷80	81÷90	91÷100	
	n. giri/min - rpm												
<b>Acciaio basso legato</b> Low alloy steel	550	380	300	240	200	170	150	130	120	110	100	90	
<b>Acciaio inox e alto legato</b> Stainless steel high alloy steel	230	160	130	100	80	70	60	60	50	50	40	40	
<b>Ghisa</b> Cast iron	280	190	150	120	100	90	80	70	60	60	50	40	
<b>Leghe leggere</b> Light alloys	870	590	470	370	310	270	240	210	190	170	150	140	
<b>Alluminio</b> Aluminium	870	590	470	370	310	270	240	210	190	170	150	140	
<b>Plastica</b> Plastics	660	450	350	280	240	210	180	160	150	130	120	100	

## GUIDA ALLA SCELTA DELLA TAZZA

Choosing chart/ Tableau de sélection/Tabla de selección/Seleção da tabela



Dentatura ricavata interamente di rettifica, taglio laterale rompitruciolo, molla di espulsione del dischetto.  
Grande rendimento, precisione di foratura nel taglio anche profondo di tutte le lamiere in acciaio, leghe leggere, materiali metallici in genere, utensile riaffilabile.

*Fully ground cutting teeth with chipbreaker, regrindable. High performances and precision in hole-making into metal sheets, light alloys, all kind of metals.*