






















TTD2030235

Type: Short drill with reinforced shank





















d1	d2	l1	l2
2,35	3,00	45	10,00

Coolant holes	Cut	Point angle	Spiral angle	Cutting edges Z
No	Right	140°	30°	2

Coated	Coating type	Material	Material type	Norm
Yes	TiAlN	MD	SMG SP	TUSA

Machinable Materials				
Cod.	Material type	Machinability	Cutting speed Vc	Advancement per revolution fn
		Recommended Part. recommended Not recommended	(m/min)	(mm/rev)
P01	Unalloyed steels up to 800 N/mm2		80 : 120	0,245
P02	Low alloy steels from 800 N/mm2 to 1100 N/mm2		60 : 100	0,245
P03	Highly alloyed steels from 1100 N/mm2 to 1400 N/mm2		40 : 80	0,195
M01	Ferritic stainless steels		20 : 40	0,070
M02	Martensitic stainless steels		25 : 50	0,095
M03	Martensitic stainless steels - PH		20 : 30	0,070
M04	Austenitic stainless steels		20 : 30	0,070
K01	Gray/lamellar cast iron		80 : 120	0,355
K02	Nodular/nodular cast iron		80 : 120	0,355
N01	Drawn aluminum alloys		150 : 200	0,145
N02	Die-cast aluminum alloys		150 : 200	0,130
N03	Copper		80 : 120	0,095
N04	Brass - Bronze		60 : 100	0,120
N05	Lead-free brass		100 : 140	0,095
S01	Super alloys (Inconel - Hastelloy - Nimonic)		20 : 40	0,011
S02	Pure titanium (Grade 2 - Grade 4)		20 : 40	0,070
S03	Titanium alloys (Grade 5)		15 : 30	0,075
S04	Cobalt Chrome Alloys		20 : 40	0,030
H01	Hardened steels up to 55 HRC		20 : 40	0,015

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SWISS HIGH PRECISION TOOLS
