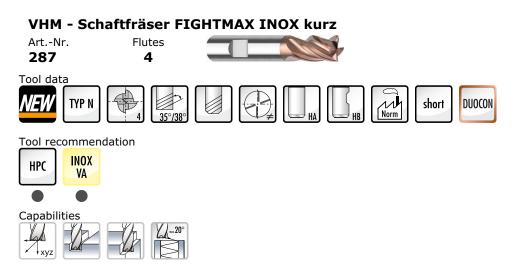


Technical information

Art.-Nr. 287 / 1 - Fightmax INOX short





Areas of application and special features

HPC-tool with the latest micro geometry for INOX machining, unequal divided, with an unequal helix and additional defined cutting edge rounding.

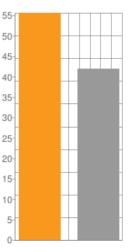
Competitive advantages and profitability

Highest tool life with moderate cutting data.

Example application

ArtN Mater			onstant steels <700 N/r	nm² (<2	205 HB)
		Inovato	ols –		
D1	12,00	mm	Diameter		Material
z	4		Flutes		Q (a
ae	6,000	mm	Row pitch	55-	
ар	12,000	mm	Cutting depth	50-	_
vc	140,00	m/min	Cutting speed	45	
n	3714	U/min	Rotation speed	40-	
fz	0,05200	mm	Feed per tooth	35-	
vf	772,43	mm/min	Feed rate	30-	
Q	55,61510331	cm³/min	Material removal rate	25-	
hm	0,03310	mm	Middle chipping thickness	20-	
K/M		€/std	Machine hourly cost	15-	
K/W		€	Tool cost	10-	
т		min	Tool life	5-	
v		cm³	Processing volume	0	
ть		min	Process time		
€/Ws		€	Cost workpiece		

Material removal rate Q (cm³/min)



Competitor: Art.-Nr.:

	Calculator									
D1	12,00	mm	Diameter							
z	4		Flutes							
ae	6	mm	Row pitch							
ар	12	mm	Cutting depth							
vc	110,01	m/min	Cutting speed							
n	2918	U/min	Rotation speed							
fz	0,05000	mm	Feed per tooth							
vf	583,62	mm/min	Feed rate							
Q	42,02064000	cm³/min	Material removal rate							
hm	0,03183	mm	Middle chipping thickness							
K/M		€/std	Machine hourly cost							
K/W		€	Tool cost							
т		min	Tool life							
v		cm³	Processing volume							
Тb		min	Process time							
€/Ws		€	Cost workpiece							



Cutting data and application recommendations

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	Caption: Ideal		D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1
ap: 1,00 Good ae: 1,00 Applica		ble applicable		8,00 fz mm	10,00 fz mm	12,00 fz mm	16,00 fz mm	20,00	fz	fz	fz	fz mm	fz mm	fz	fz	fz
laterial νc φ m/min Grad		fz mm	fz mm													
General steels <500 N/mm² (<150 HB)																
General steels <700 N/mm² (<205 HB)																
Tempering steel <850 N/mm² (<25 HRC)															
Tempering steel <1000 N/mm² (<32 HR	C)															
Tempering steel <1400 N/mm² (<44 HR	C)															
Hardened steel 45-55 HRC (1400-2000	N/mmª															
Hardened steel 55-60 HRC (>2000 N/mr	m²)															
Hardened steel 60-65 HRC																
Cast iron <180HB																
Malleable cast iron																
Cast iron with nodular graphite																
Aluminium long-chipping																
Aluminium short-chipping																
Aluminium alloyed over >8% S																
Copper, brass, bronze, red brass																
Plastics - thermoplast																
Plastics - duroplast																
GFK/CFK (fibreglass/carbon fibre plastics)																
Graphite																
Rust and acid constant steels <700 N/mm² (<20 99 50		0,021	0,027	0,034	0,044	0,063	0,084									
Rust and acid constant steels >700 N/mm² (>2(71 30		0,017	0,022	0,027	0,035	0,050	0,067									
Inconel, Hastelloy, Nimonic, Monel																
Titanium																

	Caption: Ideal		D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1
ap: 1,00 ae:0,50	oear Good Applicable .imited applica			8,00 fz mm	10,00 fz mm	12,00 fz mm	16,00 fz mm	20,00 fz mm	fz	fz	fz	fz	fz	fz	fz mm	fz mm
Material		φ Grad	fz mm													
General steels <500 N/mm² (<150 HB)																
General steels <700 N/mm² (<205 HB)																
Tempering steel <850 N/mm² (<25 HRC	:)															
Tempering steel <1000 N/mm² (<32 HR	:C)															
Tempering steel <1400 N/mm² (<44 HR	(C)															
Hardened steel 45-55 HRC (1400-2000	N/mm²															
Hardened steel 55-60 HRC (>2000 N/m	m²)															
Hardened steel 60-65 HRC																
Cast iron <180HB																
Malleable cast iron																
Cast iron with nodular graphite																
Aluminium long-chipping																
Aluminium short-chipping																
Aluminium alloyed over >8% S																
Copper, brass, bronze, red brass																
Plastics - thermoplast																
Plastics - duroplast																
GFK/CFK (fibreglass/carbon fibre plastics)																
Graphite																
Rust and acid constant steels <700 N/mm ² (<20 140 50		0,025	0,032	0,040	0,052	0,075	0,100									
Rust and acid constant steels >700 N/mm ² (>2(100 30		0,020	0,026	0,032	0,042	0,060	0,080									
Inconel, Hastelloy, Nimonic, Monel																
Titanium																