

CoroMill® Plura HFS ISO S 5×Dc

Optimized solid carbide end mill for titanium pocketing

Optimized milling solution for titanium pockets

CoroMill® Plura HFS 5×D is a new solid carbide end mill dedicated for titanium pocketing that is available with tool length up to 5 times diameter.

Equipped with the innovative 'Form control' design, the end mill is ideal for machining high, thin walls in a stable manner without bending while yielding excellent surface finish.



Innovative features


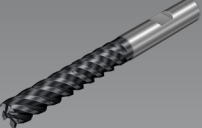

- Innovative patented geometry with helix angle dependent on the cutting depth
- Conical core for increased tool stiffness
- Corner radius specifically treated for Ti machining
- Uneven tooth pitch for reaching high speeds (up 230 m/min)
- Equipped with 1745 grade that is optimized for roughing Ti-based alloys
- Axial hole coolant and chip-breaker for safe chip evacuation

Why choose Coromill® Plura HFS 5×D?

- With length up to 5×D, this end mill allows you to machine pockets in a single high feed side milling step, avoiding mismatch, saving time and increasing productivity
- 'Form Control' design ensures reduced bending, maximum stability and excellent surface finish resulting in improved machining security and tool life
- With a single solid end mill suited for both roughing and finishing applications, you can reduce inventory



Choose the right end mill for your Ti machining in High Feed Side Milling

End mill	Cutting depth	Application
 <p>CoroMill® Plura HFS ISO S</p>	Up to 2×Dc	First choice for maximizing productivity
 <p>CoroMill® Plura HFS 5xDc ISO S</p>	Up to 5×Dc	Suitable for thin and high walls such as in pockets
 <p>CoroMill® 316 for ISO S</p>	Up to 1.5×Dc	Suitable for high overhangs thanks to EH Coromant coupling system

The Standard offer

Family	Dc range	Re/CHW	Shank	No. of flutes	Internal Coolant	Grade
2F380-ASD	2–20 mm	0.5–6.35 mm	Weldon	5	Axial	1745
2F380-ASD (inch)	0.25–1 inch	0.03–0.12 inch	Weldon	5	Axial	1745

Standard Assortment and Tailor Made are made the same

Thanks to Design Automation, using 3D model automatic generation, Standard and Tailor Made, are now following the same process for design and manufacturing.



Tailor Made offer means:

- No engineering time
- Instantaneous turnaround of design and quotation
- Reconditioning quote included
- Same Sandvik Coromant quality
- Delivery guaranteed from 3 to 5 weeks

Performance

+110%
MRR

+233%
Tool life

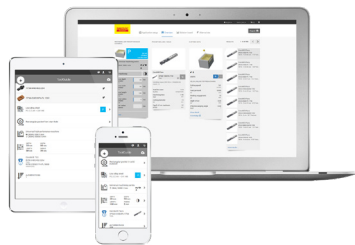
Component:	Aerospace component - Housing
Material:	Ti6Al4V
Operation:	Side and face milling
Machine:	BT50

	Competitor	Sandvik Coromant
Tool	Special cutter Mitsubishi	Z1900910043 Mid 7878645 D12 R2,5
Z_n	4	5
n , rpm	1061	1061
v_c , m/min (ft/min)	40	40
v_f , mm/min (in/min)	106.1	122
f_z , mm/z (in/z)	0.025	0.023
a_p , mm (inch)	10	60
a_e , mm (inch)	0.16	0.16
MRR, cm³/min (in³/min)	1.8	3.8
Tool life, pcs	3	10

For more information, contact your local Sandvik Coromant representative or visit www.sandvik.coromant.com

Valuable services

CoroPlus® ToolGuide



Find the right cutting conditions for your application.

Reconditioning



Reconditioning service is available.

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