FIVE REASONS FOR Y-AXIS PARTING



Y-axis parting

2. Less vibration – less noise

3. You get more done in a day

With a six-time higher blade stiffness, you can increase the feed or use a longer overhang without losing stability.



4. No more bandsawing

Y-axis blades allow parting-off larger diameters than what has previously been



5. It makes your machine better

Reach the full potential of your multi-task machine or machining center by utilizing the Y-axis.

Customer cases

Component	Material	Diameter, mm (inch)	Feed current method, mm/rev (in/rev)	Feed Y-axis parting, mm/rev (in/rev)	Productivity increase	Tool life increase
Magnetic valve	Stainless steel HB365	65 (2.56)	0.15 (0.006)	0.3 (0.012)	100%	70%
Bolt	316L stainless steel	60 (2.36)	0.15 (0.006)	0.3 (0.012)	100%	50%
Bearing roller	Bearing steel	40 (1.57)	0.12 (0.005)	0.3 (0.012)	150%	40%
Pump housing	Stainless steel HB365	55 (2.17)	0.12 (0.005)	0.3 (0.012)	200%	±0%
Aerospace blank	Inconel 718	180 (7.1)	Bandsaw (20 min)	0.15 (0.006)	550%	Not evaluated

Machine tool Y-axis turn-mill machines The Y-axis was added to were introduced in the late move the live tool across the development 1990s to add live tooling to spindle face, creating a vertical turning centers. dimension perpendicular to milestones the Z- and X-axis plane. The Y-axis is now a standard feature in nearly all multi-task be driven only in the same two machines and axes of motion as the turning optional in many new tools, i.e. the X- and Z-axes. www.sandvik.coromant.com/corocutgd

What is Y-axis parting?

By rotating the insert pocket 90 degrees and feeding the tool along the Y-axis, you get a much more beneficial direction of the cutting force, resulting in reduced vibration and higher stability.

Almost unbelievably simple.

