

A Large Part, Five-Axis One-Stop Shop

TOYODA

CHALLENGE

Metalcraft of Mayville, Wisconsin is known by most as the OEM of SCAG Power Equipment, but at their 230,000 square foot West Bend facility, they also maintain large-scale welding and fabrication operations for other OEM customers like John Deere, Oshkosh Truck, Lockheed Martin, and Caterpillar. When large part contracts became available, adding competitive machining proved crucial over just traditional fabrication services to become a one-stop shop. Metalcraft's machine was not keeping up with customer demand or machining to required tolerances. After being down for eight months, a \$140,000 quote for repairs sent Metalcraft looking for alternative solutions.

GOALS

- Equipment that could handle larger envelope of work
- Five-axis, five-sided machining capabilities
- Increased accuracy to reduce waste on high-cost parts
- Highspeed machining of hard metals

SOLUTION

Metalcraft went with Toyoda horizontal machining centers **DESIGNED FOR COMPLEX, LARGE PART MACHINING**. They feature either a 10,000 or 15,000 RPM integral tilting spindle and rapid feed rates of 1,260 ipm (32 m/min) on the X and Y axes and 1,654 ipm (42 m/min) on the Z axis. Metalcraft of Mayville's Toyoda Fleet:

- FH1250SX-5Axis (2)

OUTCOME

▶ REDUCED OPERATIONS & HANDLING

By adding five-axis machining to their core competencies, Metalcraft has greater control over their lead times by eliminating operations and setups, as they see a push from OEMs for the full production package.

▶ LONGER TOOL LIFE

The large scope capabilities of the FH1250SX-5Axis reduced the need for specialized tools—and the tool life is much longer, even on the larger machines with hard metal applications.

▶ UNPARALLELED ACCURACY

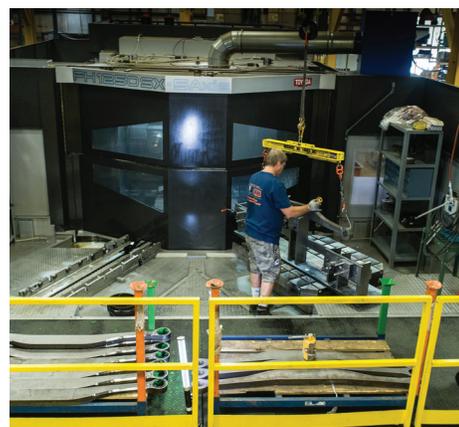
Prior solutions were unable to hold accuracy with tight tolerances, and the previous machine was inconsistent. The FH1250SX-5Axis machines deliver on precision, no matter the job.

▶ REDUCED COSTS

To maintain their workload, Metalcraft was outsourcing machining jobs while the machine was down. With the new Toyoda's, Metalcraft can expect to see a quick return on investment instead of paying a premium for a service they could do in house.

▶ ADDED VALUE

Metalcraft's core competencies were welding and metal fabrication—not machining. By adding the CNC machines, they have added value that wins large scope jobs. Metalcraft has an edge on the competition by offering fabrication and machining, under one roof.



Metalcraft of Mayville FH1250SX-5Axis

Partner with Toyoda and find your solution.

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