

DTC90 Machining Centre for fabrication of parts from profiles and extrusions.

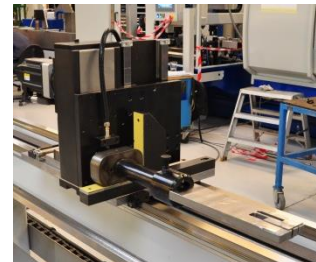
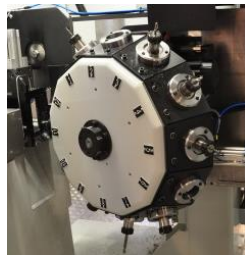
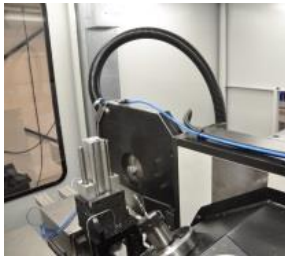


Improve your business while saving costs.

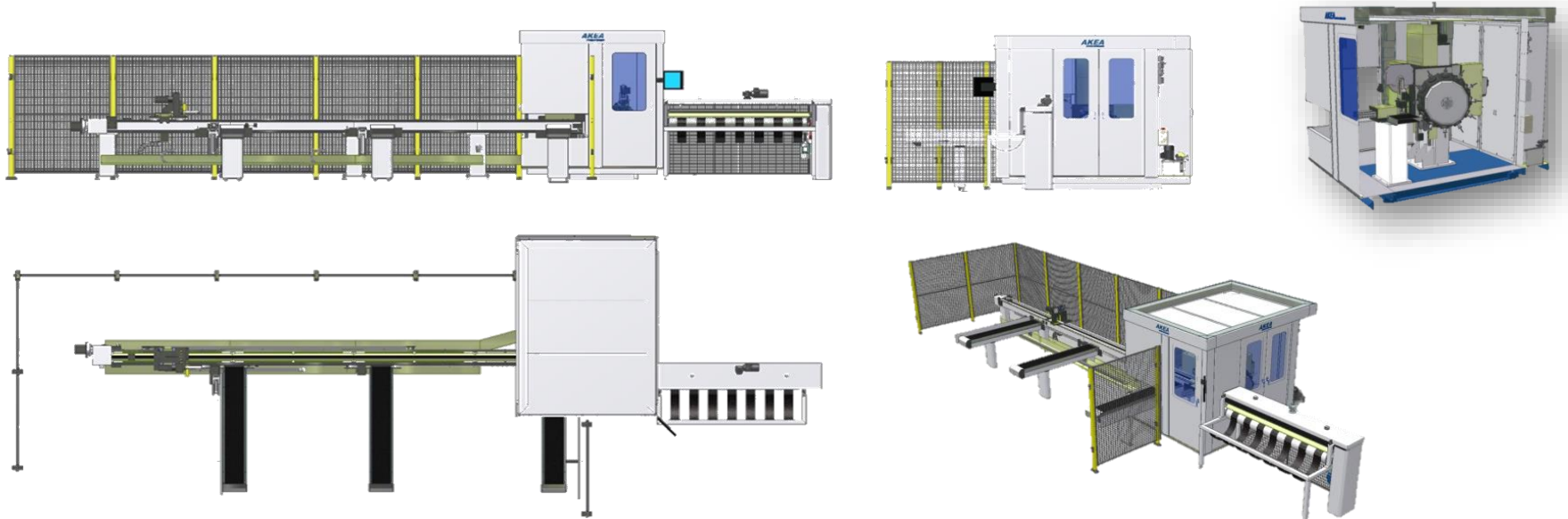
The ideal solution for manufacturing parts with combined machinings, scalable products, and variable configurations.

- Furniture.
- Doors and windows.
- Building accessories.
- Building structures.
- Automotive parts.
- Transportation material

Our manufacturing solution is carefully designed to give your business the leading edge of your industry.



DTC90 Machining Centre for fabrication of parts from profiles and extrusions.



## features:

- 3-axis CNC machining.
- High speed tool change. 2 sec.
- Milling, drilling and tapping 360 degree rotation.
- 12 station tool holder.
- CNC miter cutting +/- 30 degree.
- Machining on all sides of work piece.
- Optimized work holding system.
- Automatic loading from magazine.
- Feeder gripper with bar rotation.
- Automatic sorting and collecting of finished parts.
- Protected work area.

## Customer testimonials:

*Simple and yet very efficient. With its clean design and easy to operate features, this machine is the ideal work horse for our production. Every detail is designed to cut production costs.*

*Best CNC-machine investment we have yet made. We achieved higher output, better quality, less noise at much lower production costs.*

*We are certainly looking to get the next machine shortly.*

## Range of operation:

- Profile length: 1-6,5 m.
- Profile size: 90x90, 150x50 mm.
- Material types: Steel, Aluminium . Metals and composites.
- Tool size: 1-30 mm.
- Work area: 300x300x300 mm.
- Cycle times: Up to 1000 opr/h.
- Extended ranges on request.

## DTC90 System description:

**The DTC90-Sperling machining centre** is designed for efficient and easy fabrication of parts from steel and metal profiles. The entire process is automatic, from loading in of stock length materials, to sorting and collecting the finished items. The machining centre can run unattended for long periods, and is safe to run after working hours.

**The loading magazine** has capacity to hold materials for several hours of unattended production. Both the magazine and the feed forward unit are modular build, and therefore the machining range can easily be extended from the standard 6 meter material length, to any desired length. The minimum stock length that can be loaded from the magazine is 1,5 meter.

**The machining station** is completely enclosed in a protective cabinet. It is equipped with large access doors and windows, to make service access and inspection easy. The machine base is made of a heavy welded steel construction, filled with concrete, to give maximum stability and eliminate vibrations from the machining process. It is equipped with a 3-axis machining system.

**The machining spindle** with a 12 station tool change station makes it very effective when working with different tools. The tool change time is as little as 2 seconds. The machining operations can be a combination of milling operations and drilling/tapping operations. Milling operations can be contours, pockets, slots and holes. Machining of all sides of the profiles, is provided by the feeder gripper unit, which can rotate the material in any angle.

**The Saw unit** for the cut to length operation is dimensioned according to material types required. This can be selected as a fixed 90 degree unit or a cnc-controlled miter cut unit for variable angular cuts.

**The work holding** system is often custom designed to be optimized for the planned operation range and the types of materials to be machined. Standard shapes can usually be held by a simple vise, where specialized extrusions may require special clamping jaws.

**The machining process** ends with the cut to length operation, where the finished part is separated, and ejected to the outlet conveyor. Depending of the actual production range, a selection of different sorting and collecting systems are available, for the collection of finished parts.

The production runs continuously until the loading magazine is empty, the collecting system is full. –Or the production order is completed.

**Programming** is made easy to learn and use, by the windows based programming interface.

The working cycles of the machine is preprogrammed in the control system, so it does not require specialized skills to make new production programs. The programming is parametric, where drawing information can be transferred directly to the interface. All product information is stored in a database, and can be recalled at any time later.

The system can operate with several part orders at the same time, and uses nesting facilities to minimize the material waste. All of the parameters for machining, as well as parts, orders, tools and operations, are stored in a protected database. A new production batch can be initiated at any time, just by entering the desired amount of each part.

