

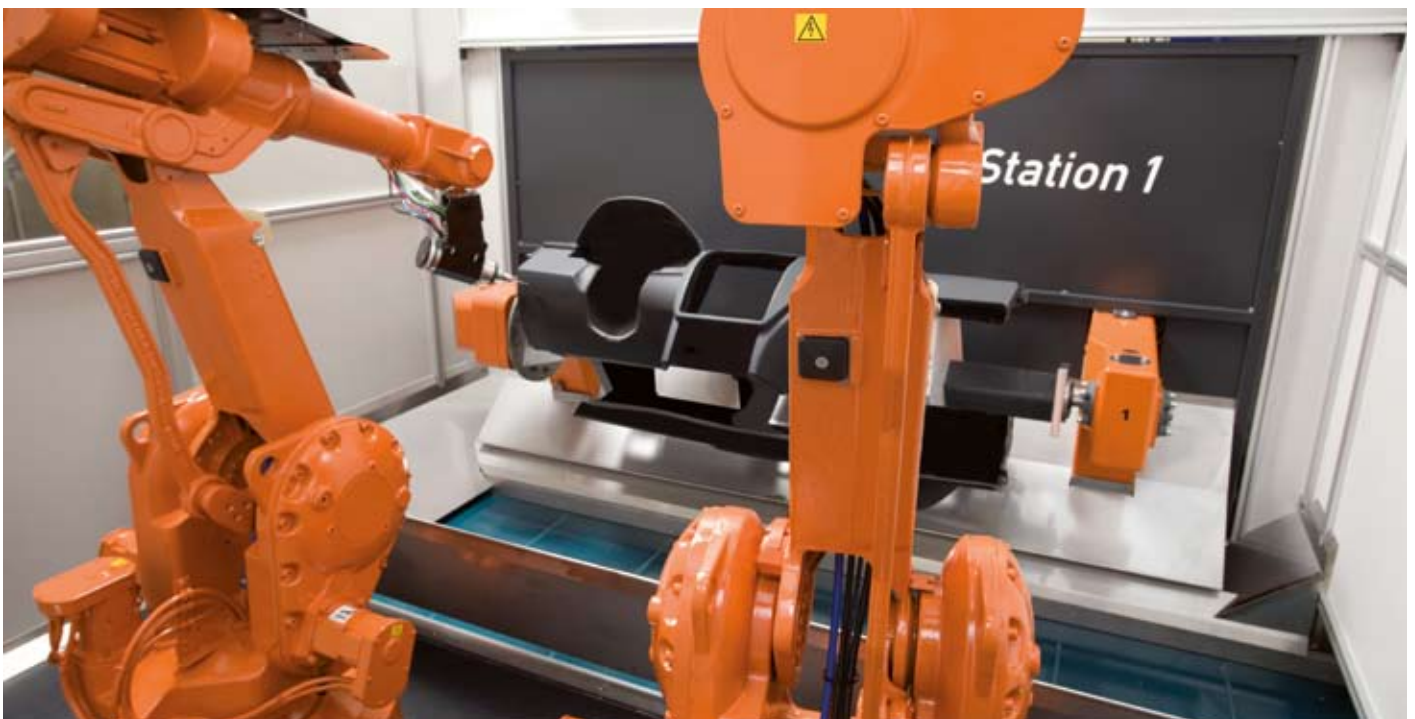


FlexTrim Milling Machines

Plastics
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FlexTrim Milling Machines: High productivity and attractive price/performance ratio

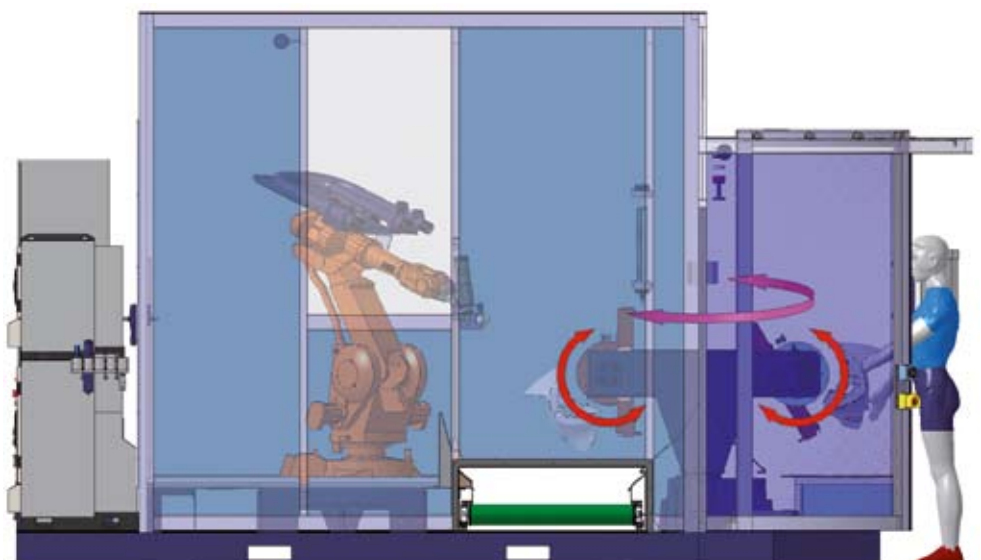
FRIMO *FlexTrim* milling machines have been specially developed to process complex 3-D plastic components. Their exceptional flexibility makes them particularly well-suited for manufacturing variants, e.g. in combination with punching operations or for small and medium scale production runs. The newest generation of *FlexTrim* milling machines offers an attractive price/performance ratio. The new rotary table and product fixture concept ensures excellent ergonomic conditions for the operator and optimal component access for the milling robots. The use of multiple product fixtures per station reduces the number of necessary changes, thereby increasing productivity.



FlexTrim milling machine with two robots machining a sample part

New rotary table and product fixture concept

The innovative design of the rotary table and product fixtures not only enables the rotation of both workstations but also an additional rotary movement of the product fixtures. As a result, the *FlexTrim* milling machine achieves a high productivity without fixture changes and offers excellent ergonomics and component access at the same time.



FlexTrim milling machine – schematic diagram

FlexTrim Milling Machines: Good ergonomics and optimal component access

Options

- High quality product fixtures with mechanical or vacuum-assisted clamping
- Control display for product positioning on the fixture
- Handling cart for product fixtures
- Automatic tool change station
- Additional sound insulation package
- Automatic waste disposal with wide removal conveyor belt
- Siemens PLC
- Spare parts and service packages



FlexTrim milling machine, interior view



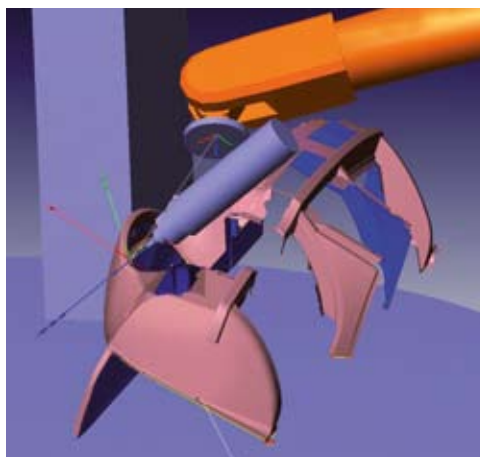
FlexTrim milling machine, exterior view

Technical data

Product part size:	approx. 1.5 m x 0.6 m x 0.6 m (W x D x H) e.g. instrument panel
Footprint:	approx. 3.0 m x 5.2 m (W x D)
Machine height:	approx. 3.0 m
Total weight:	approx. 4.5 t

Offline programming

An offline programming system can be used to validate the performance level of FlexTrim milling machines right from the beginning, in the project planning phase. Offline programming also makes it possible to minimize the start-up time of machines and product fixtures.



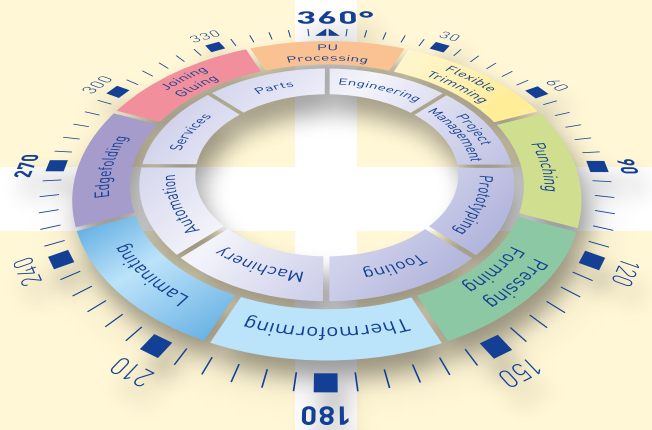
Example of an offline programming validation

Advantages

- Attractive price/performance ratio
- High productivity, good ergonomics and optimal component access
- Use of multiple product fixtures per workstation possible
- Use of one or two robots (can be added later)
- High process reliability
- Excellent cut quality through optimally matched machine-fixture combination
- Defined cutting depth, e.g. for substrate/foam weakening
- High flexibility through fast tool and fixture change
- Compatibility with all standard milling spindles
- Easy start-up, operation, maintenance and cleaning



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