

Modig TransFlex System

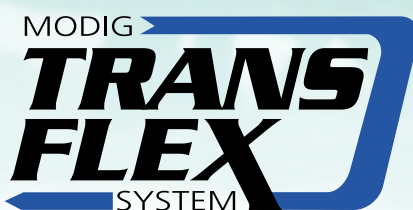
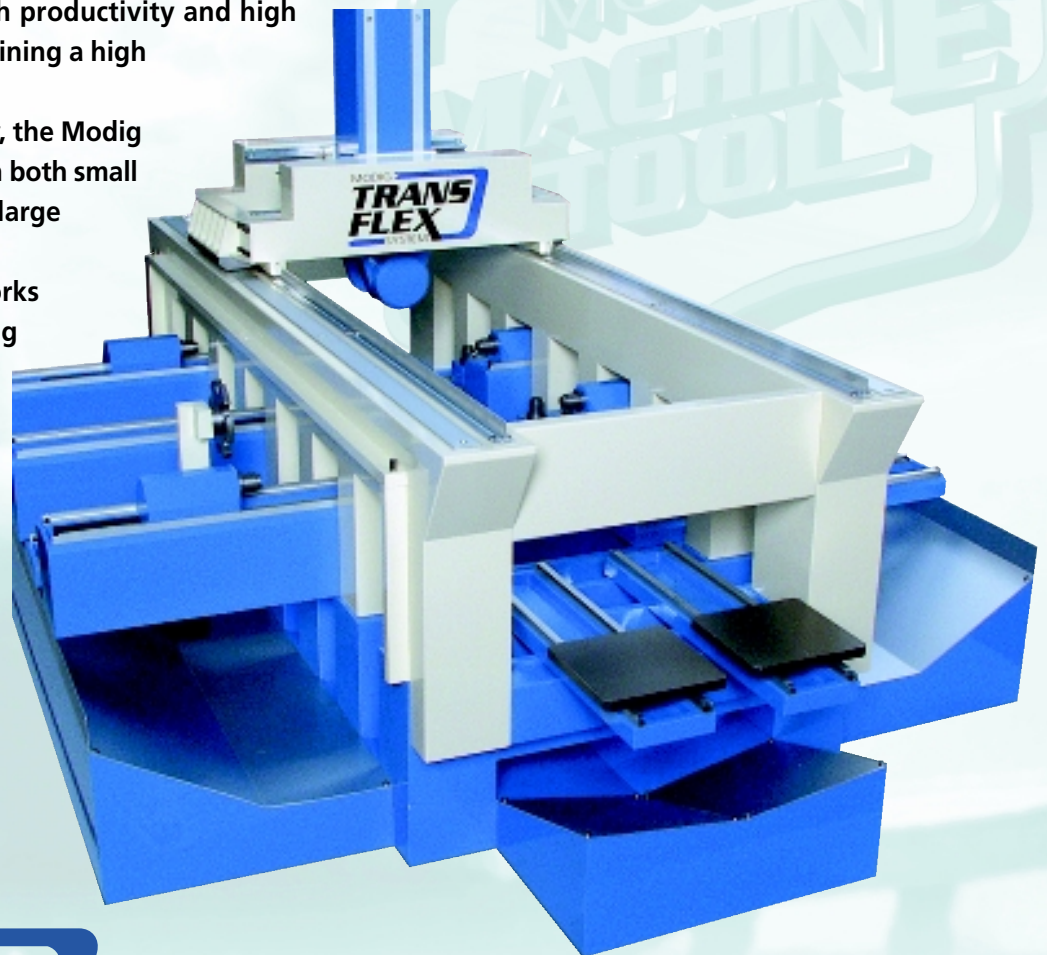


New generation of multi-spindle machining centre

The Modig TransFlex is designed to meet the increasing demands for high productivity and high accuracy while still maintaining a high degree of flexibility.

As a result of its flexibility, the Modig TransFlex is cost efficient in both small batch manufacturing and large volume part production.

The TransFlex machine works on the principle of moving the work piece to the spindle, performing the machining operation and then re-position the work piece to the next spindle which is ready for the next operation.



- **Extremely high productivity and flexibility**
- **No tool changing time**
- **No spindle ramp up and ramp down time**
- **Multiple and optimised spindles**
- **No re clamping of work piece**
- **Outstanding dynamic performance with linear motors**
- **Short set-up time**

Extremely high productivity and flexibility

is reached as the non-chargeable time in the machine has been dramatically reduced, due to elimination of tool change time, etc.

As all spindles have their own tool changer, the machine can be set-up for manufacturing of several components. The fixture is attached to the machine through a quick lock reference mechanism in order to reduce the change over time.

No tool changing time

The tool change, is performed in the background whilst another spindle is in operation. The spindles have reached their required speed well in time before they will go into operation. With this principle, the spindle acceleration and de-acceleration as well as the tool changing time is deducted from the cycle time.

Multiple and optimised spindles

The number of spindles in the machine is a choice based on the application and customer requirements. Up to 10 spindles can be installed.

All spindles are optimised for the operations they are intended for. The range of spindles covers every operation from tapping, drilling, milling to heavy duty machining.

No re clamping of work piece

The TransFlex spindles can be installed in horizontal or vertical positions. This flexibility together with up to 5-axes machining capability, offers multiple side machining and in most cases in a one single part set-up.

Outstanding dynamic performance with linear motors

The TransFlex operates with very high speeds and accelerations.

With the linear motors in X, Y and Z directions, interpolation and positioning can be used with very tight tolerances.

Short change over time

is reached since the machine changes the fixtures automatically.

If necessary, the complete tool changer disk, one per spindle, can be replaced in a few seconds. Number of tools per disk depends on the production requirements.

Technical data

General:

Number of spindles	Up to 10 spindles
Number of CNC axes	Up to 5 axes

Axis movements:

X-axis	165 in (4.700 mm)
Y-axis	40 in (1.000 mm)
Z-axis	24 in (600 mm)
C-axis	±180°
A-axis	±90°

Performance:

Without any limitations of operation

Rapid traverse	4.725 in/min (120 m/min)
Acceleration/de acceleration	1 g

Part Size and Weight:

Larger work pieces can be machined with some limitation

Length	27.5 in (700 mm)
Width	11,8 in (300 mm)
Height	7,9 in (200 mm)
Part weight	165 lbs (75-275 kg)