



TOOL CARRIERS • MOLD CARRIERS

TRANSPORT SYSTEMS • ROTARY TABLES

STEINER-Mold Carriers and STEINER-Rotary Tables are the result of experience gained in over 30 years of industrial application using the latest developments in the markets for tool-carriers and transport systems. Continual improvements in design and manufacture mean that individual customer requirements can be implemented at short notice and at attractive prices. In close cooperation with our customers this can be achieved both by modifying existing models as well as a complete redesign of special designs.

Depending on the size and weight of the tools, respectively the necessary clamping forces, control of the mold carriers is actuated either pneumatically or hydraulically. Sufficient stability is provided by pneumatic locking devices, mechanical interlocks or by the kinematical system of the upper table movement itself.





THE OPEN DESIGN

This design is especially distinguished by its innovative kinematics, which on the one hand permit a wide opening of the upper platen and operation from three sides and on the other hand when closed ensures high clamping forces thanks to a stable locking system.

This model is applied for small and medium-sized parts, for example for automotive and aircraft seat cushions.

The vertical stroke and application of the clamping force are applied by air actuators in the base.

The special advantages of the FT06 are:

- In relation to its clamping forces its design is very light and is therefore a low-cost design.
- Free accessibility to the form from the top and from three sides.
- Designed with clamping surfaces open (support profiles) or closed with aluminium table tops.
- Adjustment of the under table either manually by means of a threaded spindle or optionally by a motorized spindle.

Weights and Measurements	
Width	1.100 mm
Depth	1.300 mm
Height (closed state)	1.600 mm
Height (open state)	1.800 mm
Weight (without tool)	285 kg
Installation Size And Weights – Foam Tools	
Width	1.000 mm
Depth	900 mm
Height	300 mm
Max. weight upper platen	70 kg
Max. weight base	200 kg
Clamping force (at 6 bar)	75 kN
Carrier Movements	
Parallel stroke - base	150 mm
Pivoting angle top	0° - 75°
Pivoting angle - base	± 15° fixed adjustment
Cycle Times	
Closing times	< 3 s
Operation	
All movements	pneumatic

THE SMALL DESIGN

Proven field of application for the currently smallest STEINER mold carrier is the overmolding of components with PUR. The swivel mounted base allows an ergonomic operator position as well as optimal ventilation.

The clamping force application is via a compact cylinder and two guide columns with longitudinal compensation to avoid thermal tension from heated forms.

The special advantages of the FT08 are:

- Compact, lightweight (< 200 kg) and therefore cost-effective construction.
- Lower and upper tables can be independently swivelled.
- Foaming possible in both the open or closed states.
- Step less adjustment of the lower table also possible with a motorized spindle.



Weights and Measurements	
Width	685 mm
Depth	775 mm
Height (closed state)	965 mm
Height (open state)	1.375 mm
Weight (without tool)	190 kg
Installation Size And Weights – Foam Tools	
Width	500 mm
Depth	500 mm
Height	140 mm
Max. weight upper platen	40 kg
Max. weight base	100 kg
Clamping force (at 6 bar)	5 kN
Carrier Movements	
Parallel stroke - base	50 mm
Pivoting angle top	0° - 90°
Pivoting angle - base	0° - 40°
Cycle Times	
Closing times	< 2 s
Operation	
All movements	pneumatic

THE BIG DESIGN

The FTH01 has proven itself to be the hydraulic standard mold carrier of STEINER-Engineering. Its main field of application is the production of rigid foam insulation segments.

The vertical stroke is achieved by four hydraulic cylinders, whereby the parallel control of the base table is guaranteed during the lifting movement by a scissor system.

The special advantages of the FTH01 are:

- Swivel locking arms for better access in the open state.
- Locking by means of hydraulic cylinders.
- Open position hydraulically secured by counterbalance valves.
- Standard with lifting force compensation.

Weights and Measurements	
Width	2.500 mm
Depth	1.350 mm
Height (closed state)	1.350 mm
Height (open state)	1.925 mm
Weight (without tool)	800 kg
Installation Size And Weights – Foam Tools	
Width	2.200 mm
Depth	900 mm
Height	700 mm
Max. weight upper platen	250 kg
Max. weight base	300 kg
Clamping force (at 130 bar)	140 kN
Carrier Movements	
Parallel stroke - base	300 mm
Pivoting angle top	0° - 60°
Pivoting angle - base	0° - 0°
Cycle Times	
Closing times	< 3 s
Operation	
All movements	hydraulic



ROTARY TABLES

We offer our customers STEINER rotary tables with a platform dimension of up to 14 metres as a transport system for tool carriers. The drive is either in tact or as standard continuously on the outside diameter. A drive with roller-bearings and precision cut teeth on the circumference of the rotating table is applied.

This arrangement ensures high dynamic qualities requiring at the same time only low drive requirements. The already high positioning and repeat action accuracy can be increased by an additional centering station.

Equipment features:

- Power supply and data interchange via slip ring unit
- Air and vacuum supply via rotary feed-through
- Media input – water or steam possible
- Ground support rollers and tracks under the table

As an alternative to our rotating tables we can also offer our customers stationary STEINER Linear plants.

Technical Details RT (General Guide)	
Outside diameter	up to 14 m
Height of platform	approx. 400 mm
Max. Load	approx. 30 t
Drive	< 5 kW
Type of drive	Servo geared motor





SPECIAL DESIGNS

In some cases the integration of the tool, respectively partial functions of the tool in the mold can result in economic benefits for our customers. For such cases we can offer individually designed special forms.

In simple forms heating or cooling functions are often integrated into the mold carrier; with complex forms the integration of core slides or centering devices for inserts may be of

advantage. For STEINER Engineering as manufacturers of special machines with the competence to solve your problems the designing of special forms is a standard procedure.

True to our motto "Large enough to cope with highest demands, small enough to offer individual solutions".



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