

SCHMIDT® Rotary & Linear Indexing Systems

For efficient Production

SCHMIDT® rotary indexing systems are the basis for an economic rationalization. All **SCHMIDT® press types** can be integrated in a rotary indexing system. Mostly, the machines are designed

for manual loading. The machine designs are as varied as the requirements. Depending on the requirements of the customer, an individual design is planned.

Rotary indexing systems with automatically rotary indexing plate

The press base PU10 with mounted, ground plate serves as the platform. Press and rotary indexing table are aligned and pinned together. The indexer table resist safely the occurring forces. The switch cabinet and the operating elements are defined according to requirements.

Typically, other systems, such as a second press, automatic parts feeder or automatic parts ejector, are integrated. Optionally, receptacles and tools are delivered.

Electromechanical rotary indexing table	
Types	Several drive sizes are available depending on the weight of the component or the diameter of the rotary table
Divisions	2, 3, 4, 6, 8, 10, 12, 16, 20, 24; other divisions on request
Direction of rotation	Every rotary table can either be indexed to the left or to the right
Brake	Auto-adjusting
NC rotary table	
Types	Several drive sizes are available depending on the weight of the component or the diameter of the rotary table
Divisions	Freely programmable
Direction of rotation	Freely programmable
Indexing plate	
Diameter of the indexing plate	Standard: Diameter 520 mm or other diameters up to 1200 mm also possible depending on the requirements
Drill pattern in pitch circle	Standard: Fit bore 20 H7, or drill pattern in consultation with the customer
Material	Standard: Barnished steel, 18 mm thick, or anodized aluminum, 20 mm, with larger diameters

Safety concepts

For the safety of the users, the machine is completely protected with aluminum profiles and macrolon windows. There are different possibilities for protection on the front side:

The indexing plate moves out of the protective device – manual loading

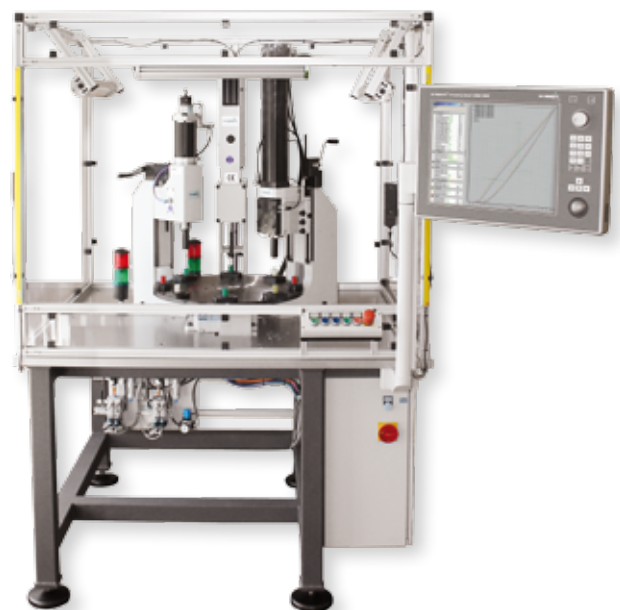
With this concept, the parts are fed from the outside. Simultaneously, the press processes are carried out in the interior of the machine.

Light Curtain

The use of a light curtain requires that possible trap points due to the rotary indexing plate are avoided. For this, the height of the component is decisive among other things.

Front cover flap to the inside

The components rotate through the small aperture in the protective guarding. With each possible intervention in this position the flap moves to the inside and stops the rotary table.



Complete indexing table inside the protective guarding

Full covering

- Automatic loading
With this version, the front guarding is closed
- Manual loading
With this version a light curtain or pneumatic safety door is available

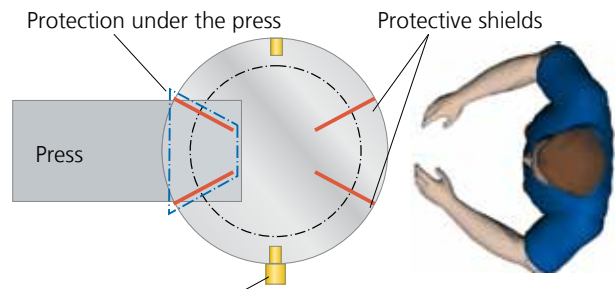


Without guarding

The delivery of machine components is carried out after consultation with the customer.

Rotary indexing system with manually rotary indexing plate

This low-cost model consists of a manually rotary indexing plate with automatic indexing. Due to the concept, there is no risk of crushing when rotating the plate so that simple constructions are possible. During indexing, the pressing tool is completely closed. This version is mostly delivered as two-division manual workstation. Thanks to the small and compact design, the rotary indexing table can be mounted directly on the fixture mounting plate of the press.



Receiver: contactless, two-channel safety door switch

Linear indexing System for individual complete Solutions

The **SCHMIDT® linear indexing system** creates advantages for individual customer solutions by

- Flexible positioning of the workpiece carrier via a highly dynamic servo drive. The center distance of the chain links is 180 mm as a constructive space for workpiece carrier
- Accuracy in the positioning of the workpiece carrier in three axes $< +/- 0.05$ mm
- Roller bearings, lubricated for life and maintenance-free movements of the linear sequencer. The bearings of the workpiece carrier run in hardened and grounded guideways
- Flexible positioning times: 0.15 – 0.7 seconds, depending on cycle length and mass moments of inertia of the workpiece construction
- Combination with standardized, loosely linked buffer system for the realization of a temporally decoupled hand workplace

- Freely programmable lengths: 18 mm/20 mm/22.5 mm/45 mm/60 mm/90 mm/180 mm/360 mm/720 mm
- Possibility of expansion by modular design
- User friendly access to the modules

