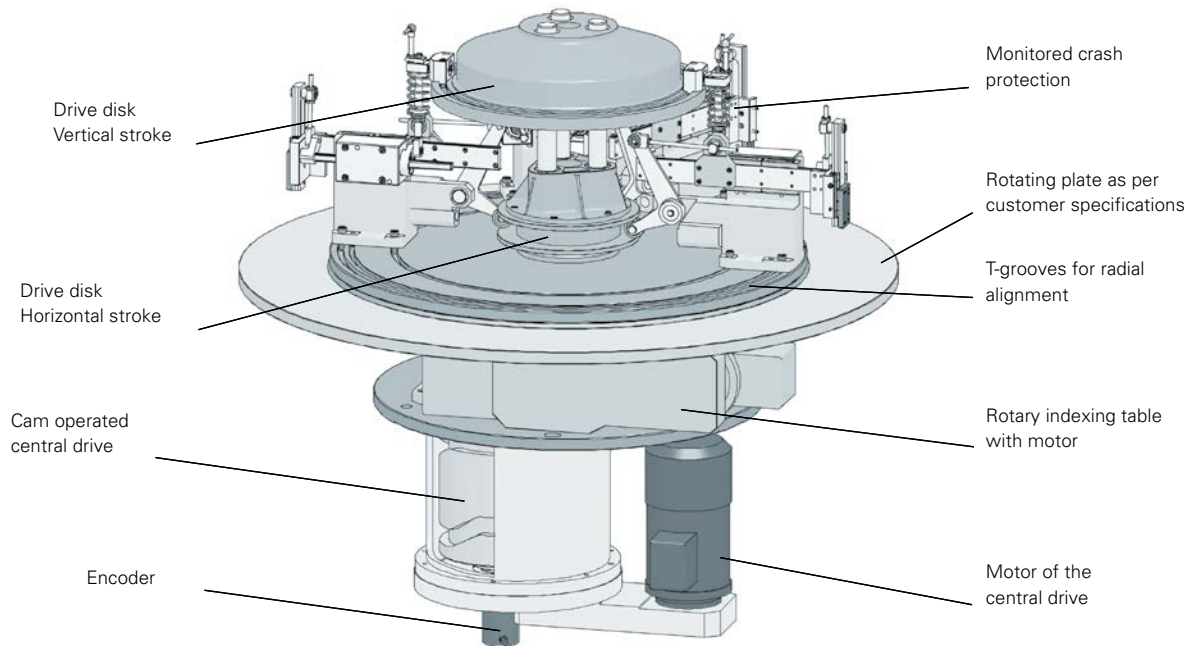


## CENTRAL DRIVE



### 360° BARREL CAM ROTATION = 4 VERTICAL STROKES + 2 HORIZONTAL STROKES = 1 COMPLETE CYCLE

A 360° rotation of the barrel cam of the central drive generates a complete cycle of the pick-and-place units. Lifting and pressing modules are moved by the lower drive disk (only).

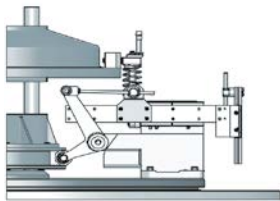


Figure 1: Pos. cam cylinder: 0°  
Pos. manipulator: down-retracted

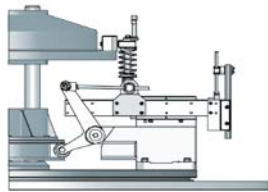


Figure 2: Pos. cam cylinder: 75°  
Pos. manipulator: up-retracted

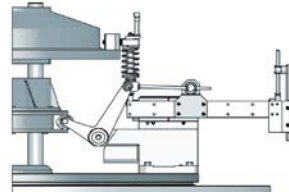


Figure 3: Pos. cam cylinder: 112°  
Pos. manipulator: up-extended

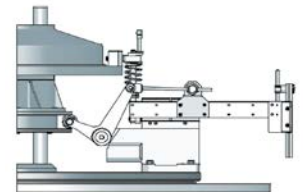


Figure 4: Pos. cam cylinder: 180°  
Pos. manipulator: down-extended

## TECHNICAL DATA

Repeatability:	± 0.03 mm
Max. horizontal stroke (handling module):	140 mm
Max. vertical stroke (handling module):	50 mm
Mechanical standard speeds/min. at 50 Hz:	32*, 48*, 60*, 75*
Max. handling weight (kg):	2

Drive of the rotary table and central unit:	AC brake motor
Motor voltage:	400 V / 50 Hz or 440-480 V / 60 Hz
Drive output:	0.25 - 0.37 kW
Monitoring sensor:	24 V, PNP N/O contact

\* Reduction possible with frequency converter.

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## OPTIONS AND ADJUSTMENTS



To complete your Pick-o-Mat, plates and base frames can be manufactured as per your drawings



EF2 frequency converter control system for fast and simple start-up

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## STANDARDISED YET INDIVIDUAL

Alongside a large variety of parameters for adapting our standard components, we can manufacture the following components for adapting or completing your Pick-o-Mat in accordance with your drawings:

- Base frame with levelling elements for stable mounting of the basic machine (see also SR/SK model line)
- Base plate for mounting the central drive and your additional devices such as feeder equipment
- Rotary plate for mounting your workpiece carriers in accordance with your drilling pattern and with the desired outer diameter
- Adapter plate on the handling module for mounting your grippers

Looking at the CAD models of all standard modules of the Pick-o-Mat which have been made available on our website allows fast and secure project planning and design.

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## FAST START-UP AND GUARANTEED QUALITY

Every Pick-o-Mat is subjected to comprehensive testing and measurements prior to shipping, guaranteeing seamless integration into your complete system.

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## SIMPLE AND SECURE CONTROL

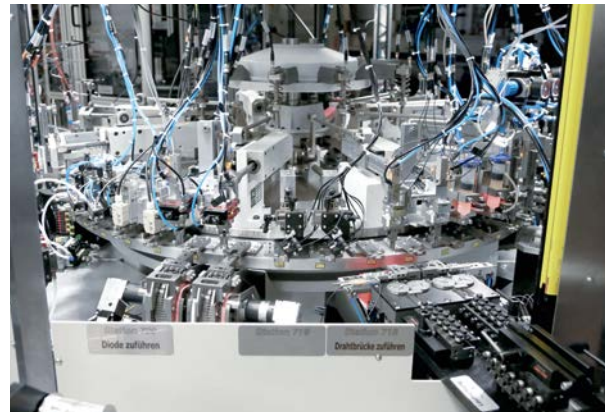
An encoder mounted on the cam axis of the central drive transmits the current position. The direct relationship between the rotation angle of the cam and the position of the gripper enables easy and secure control of all other modules within the rotary table.

Alongside the compact control and monitoring components offered by WEISS, the integrated mechanical overload protection ensures the safe operation of your machine.

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## AFFORDABLE AND QUICKLY AVAILABLE

Thanks to the combination of WEISS components manufactured in large numbers to make up your individual automated assembly systems, we can deliver the entire machine in a very short time and at an unbeatable price.



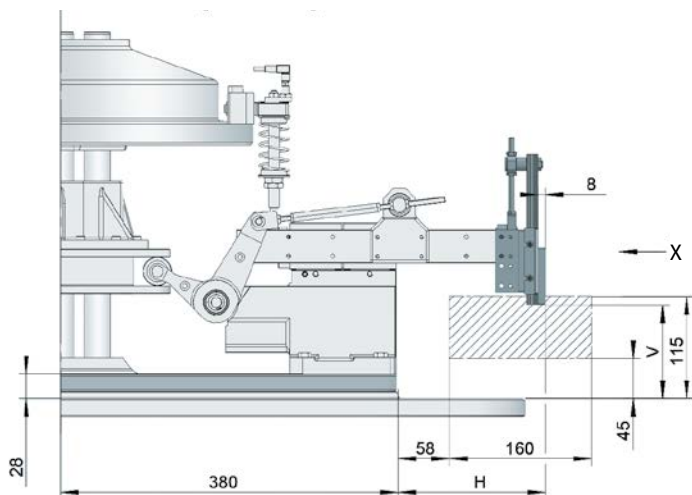
Application example for the assembly of small parts at Hammermeister Sondermaschinenentwicklung GmbH



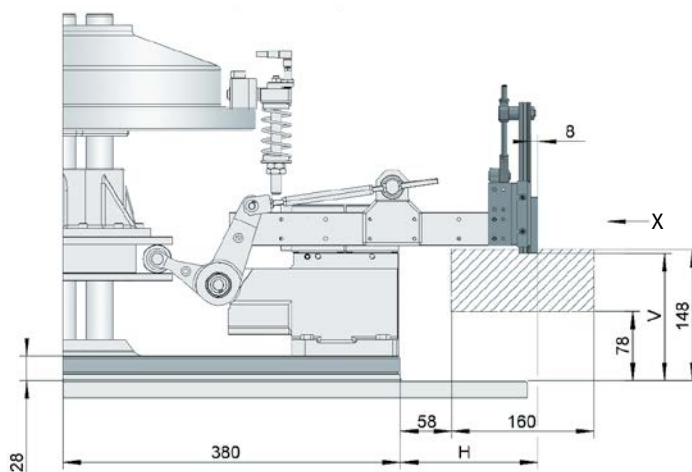
# PM 1100E HANDLING MODULE

If required, the vertical guide assembly can be mounted at two heights with a difference of 33 mm (see figures for assembly 1 and assembly 2).

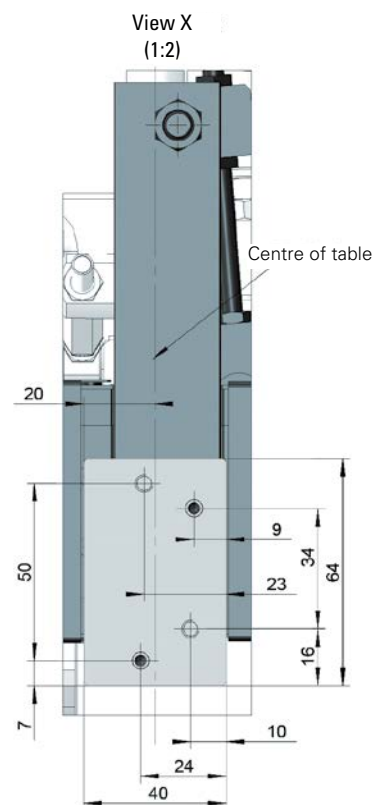
For all stroke variants, the stroke including adjustment limits can only lie within the grey shaded area. For pre-adjustment prior to assembly, the adjusting **dimensions H and V** must be specified when ordering. The final adjustment is performed by the customer after fitting the gripper.



**Assembly 1** – bottom vertical rail  
Position of the handling unit: top – outside



**Assembly 2** – top vertical rail  
Position of the handling unit: top – outside



Standard adapter plate (40 x 64 x 8 mm) with drilling pattern (2x DRM 5 H7; 2x M5) for mounting to the guide (customised configurations possible)

## TECHNICAL DATA

Maximum extra weight: 2 kg (depending on speed and number of modules)

Standard strokes:

Vertical stroke [mm]	30	40	50**		
of which linear without crossover (approx.) [mm]	25	30	37.5		
Horizontal stroke [mm]	80	90*	100	120	140
of which linear without crossover (approx.) [mm]	65	75	85	100	115

\* The horizontal stroke of 90 mm can only be realised in combination with vertical strokes of 40 mm and 50 mm.

\*\* Only **Assembly 1** possible, adjusting dimension V must be between 56mm and 120mm.