

TH 1000F

TECHNICAL DATA

$n_{1\text{Max}}$	Max. motor speed:	2400 1/min
$n_{2\text{Max}}$	Max. output speed:	12 1/min
i_{tot}	Overall gear ratio:	200
	Indexing precision:	30 arcsec ($\pm 15''$)
A_r	Axial run-out of the drive flange:	(at \varnothing 1000 mm) 0.03 mm
C_r	Concentricity of the output flange:	0.03 mm
m	Total weight, including motor:	approximately 1500 kg

The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

LOAD DATA (for the stationary central part)

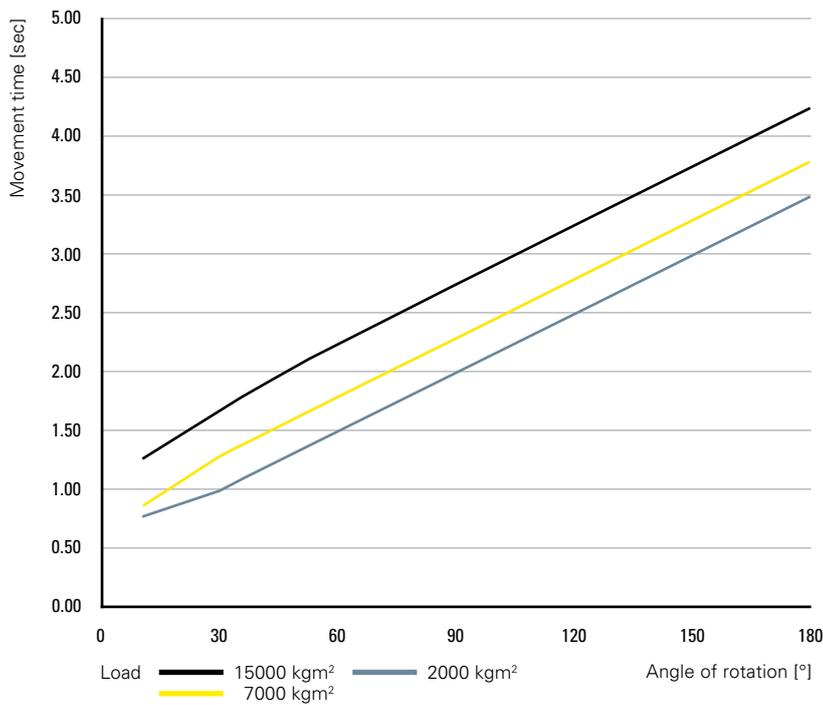
T_{SP}	Permitted torque:	2000 Nm
M_{TSP}	Permitted tilting moment:	6000 Nm
F_{ASP}	Permitted axial force:	45000 N
F_{RSP}	Permitted radial force:	19000 N

Combined loads and permitted process forces only after inspection by WEISS.

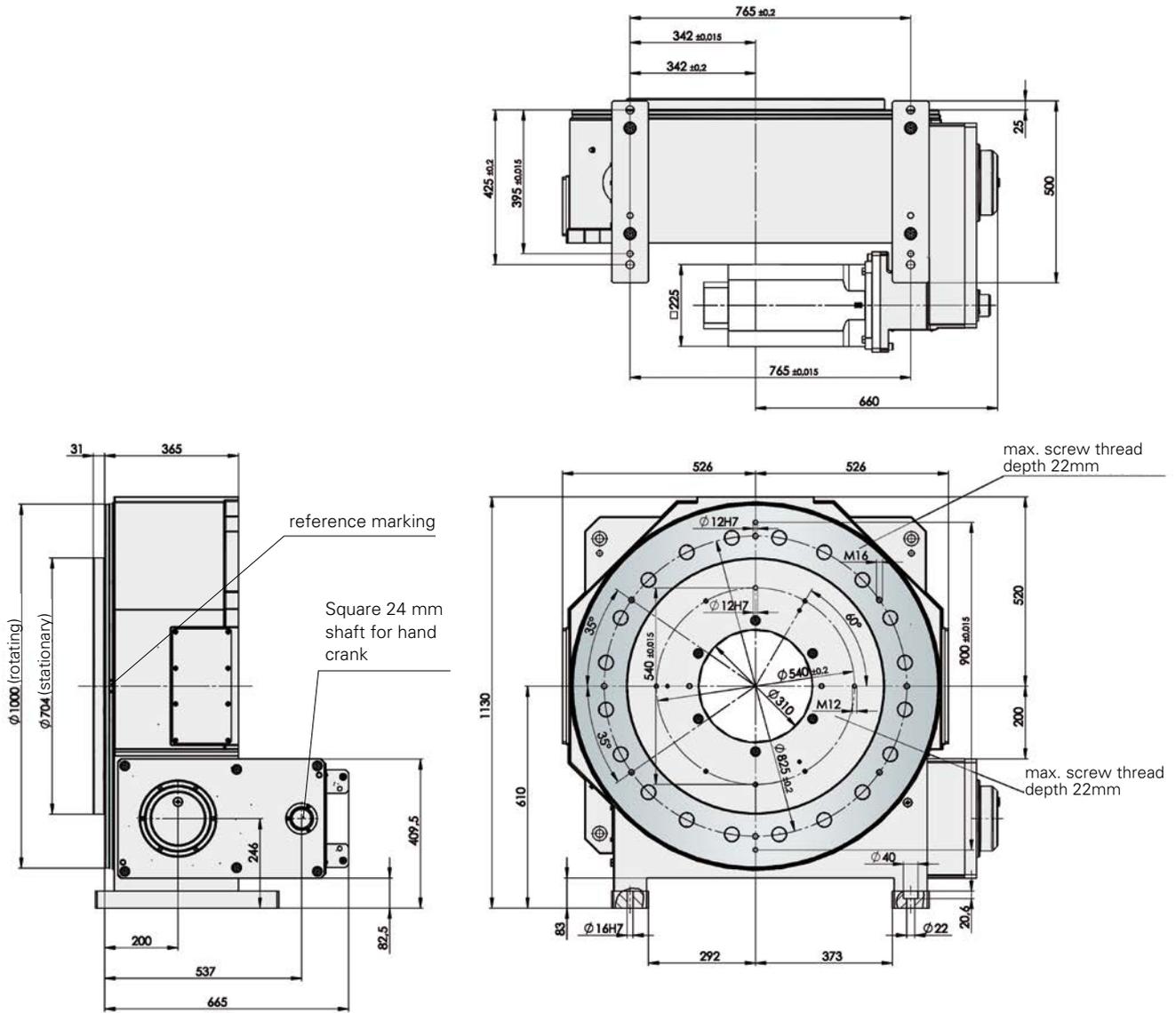
LOAD DATA (for the output flange)

$M_{2T\text{dyn}}$	Permitted dynamic tilting moment:	25000 Nm
$F_{2A\text{dyn}}$	Permitted dynamic axial force:	120000 N
$F_{2R\text{dyn}}$	Permitted dynamic radial force:	100000 N

TIMING DIAGRAM (please contact us for other requests)



DIMENSIONS



The shown position of the dial plate corresponds to the home position (state of delivery).

It is possible to fit popular alternative motors from various manufacturers. The drive flange geometries are motor-dependent.

TO

FREELY PROGRAMMABLE ROTARY TABLES | TO TORQUE ROTARY TABLE



Precise and fast mechanical integration through pin holes, secure electrical commissioning through perfectly matched control packages.

TO TORQUE ROTARY TABLE: DYNAMIC, FLEXIBLE, PRECISE

MATCHED BASE FRAMES AND PLATES

Simple integration into existing equipment. Highly dynamic, high-precision and ready-for-installation rotary table solution with unbeatable price-performance.

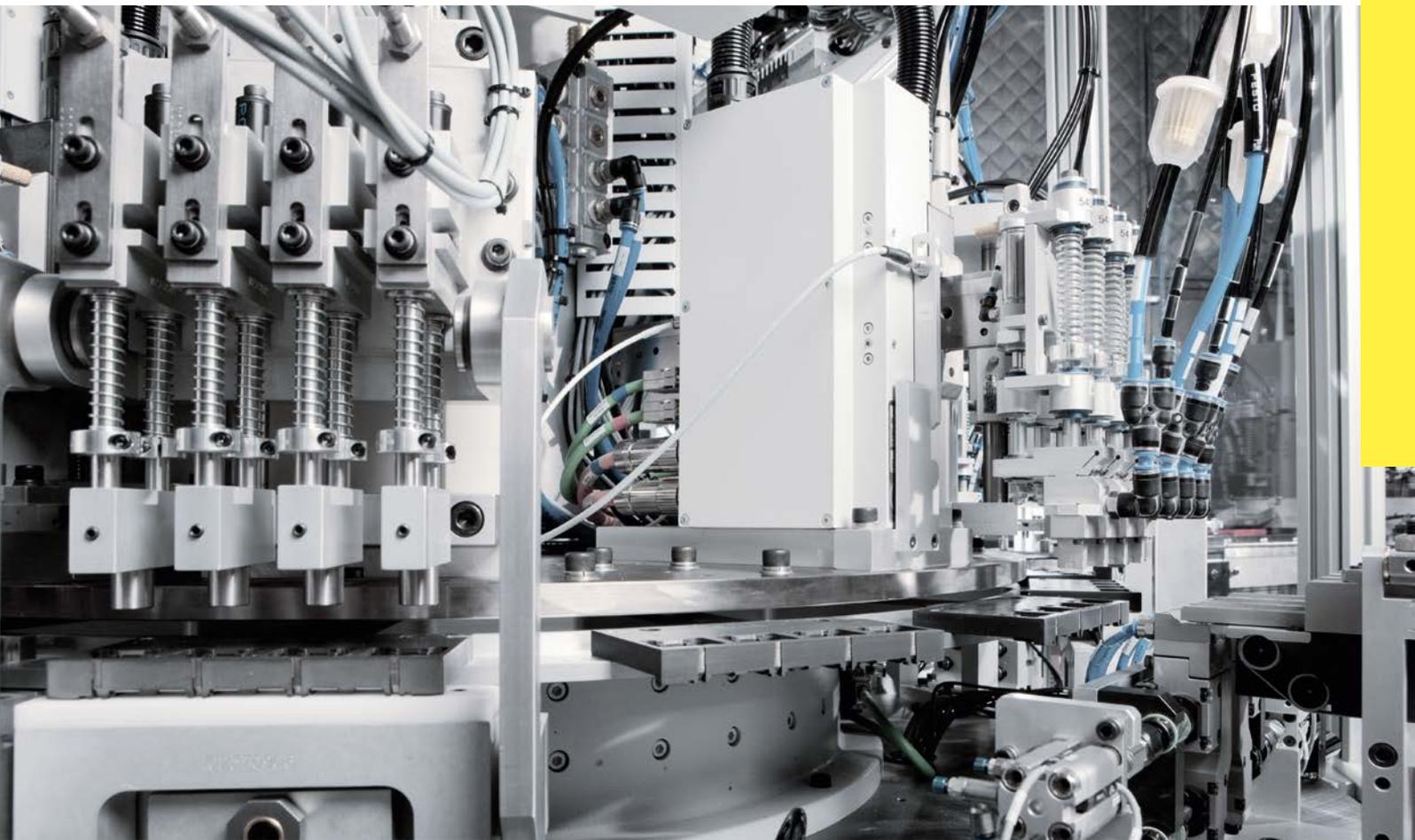


THE CLEANLINE. FOR CLEANROOM APPLICATIONS.

Comparable to air purity class 1 as per US Standard 209E.



The custom machine from INNOVATIVE Products & Equipment assembles and tests plastic parts for irrigation systems. The heart of the installation, a TO 750, beats at 75 cycles per minute. The four-track design allows production of 300 components per minute. The HP140 Pick&Place units perform component handling.



Direct drive rotary table with impressive dynamics and extremely high degree of repeat accuracy. User-programmable and also suitable for use in clean rooms. The direct drive rotary table allows the shortest indexing times at the highest precision.

ADVANTAGES

- Extremely dynamic
- Extremely high repeat accuracy
- Absolute measuring system
- High degree of reliability, long service life
- Zero backlash
- No wearing parts
- Direct, rigid connection of the load to the drive
- Compact design, small footprint, high level of torque

GENERAL INFORMATION

- Direction of rotation: user-programmable
- All motors are equipped with overtemperature protection (PTC)
- Possible installation location: any (Please consult WEISS for overhead mounting positions)
- The TO rotary tables are “lubricated for life”
- For a surcharge, a positioning accuracy measurement report can also be drawn up and a compensation table incorporated for error compensation in a further step. However, this requires a mechanical zero point alignment.