All NR rings allow customer-specific drive motors to be connected

NR ROTARY RING TABLE: FLEXIBLE IN EVERY RESPECT

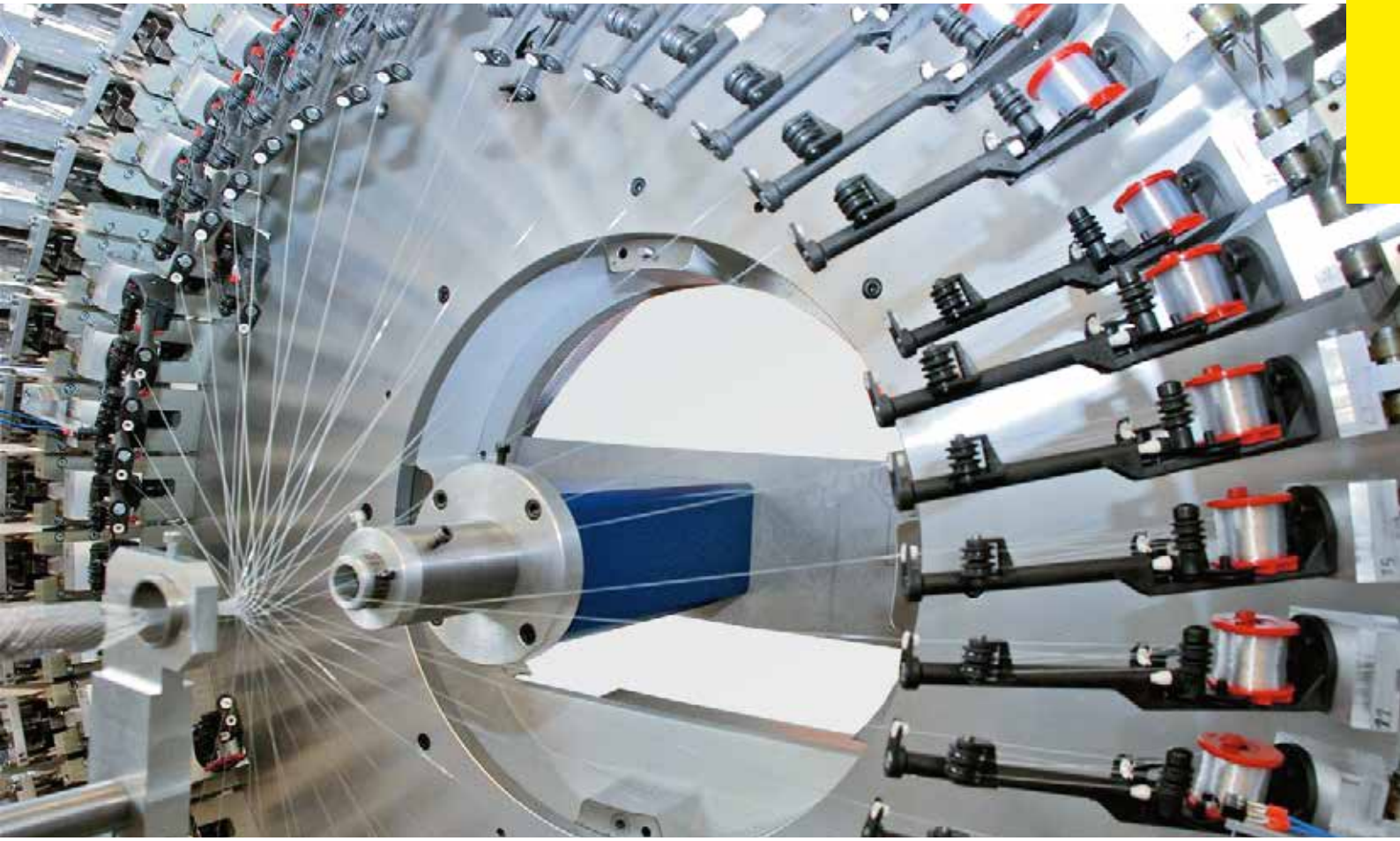
WHEN IT'S GOT TO BE EXACT

We manufacture high-precision plates from AlMg4.5Mn (also available anodised on request), as well as steel plates (also available chemically nickel-plated on request), as per your drawings. With test protocol – everything from a single source.

OR RATHER A HEAVY DUTY ROTARY TABLE?

Our CR heavy duty rotary table range is available for heavy loads.

Production of technical braidings at Bossert + Kast: the NR 750 rotary ring table is used as a gear-driven turntable: large bearing, integrated gears, large central opening.



Rotary ring table with very large central opening, extremely flat design and high parts accuracy. The ring-shaped design allows extra free design space. The rotating aluminium ring can be adjusted to your specifications in terms of diameter and thickness.

ADVANTAGES

- Ring-shaped rotary table with very large central opening
- High level of parts accuracy through locking on the outer edges
- Highly dynamic with smooth acceleration
- Flat, compact design – compatible with our tried and tested machines
- Four sizes
- Absolute measuring system
- Simplest control system, identical to our rotary tables
- Excellent price-performance
- Appealing design

NR 750Z

TECHNICAL DATA

Dial ring inside diameter:	Max. 490 mm
Dial ring outside diameter:	Min. 750 mm
Surface of the dial ring:	Anodised
Direction of rotation:	Clockwise - counter clockwise or reciprocating
Cycle rate:	Up to approx. 120 cycles/min, depending on mass moment of inertia and angle of rotation
Voltage:	400…480 V ± 10%, 42…62 Hz special voltages upon request
Weight:	Approx. 230 kg
Mounting position:	Dial ring horizontal
Indexing precision (arcsec):	± 18"
Indexing precision in radian measurement:	± 0.033 mm (at Ø 750 mm)
Max. axial run-out of ring:	* 0.05 mm (at Ø 750 mm)
Max. concentricity:	* 0.03 mm
Max. parallelism of rotating plate surface to bottom housing surface:	* 0.05 mm (at Ø 750 mm)
Max. outer diameter:	1500 mm (or following consultation)

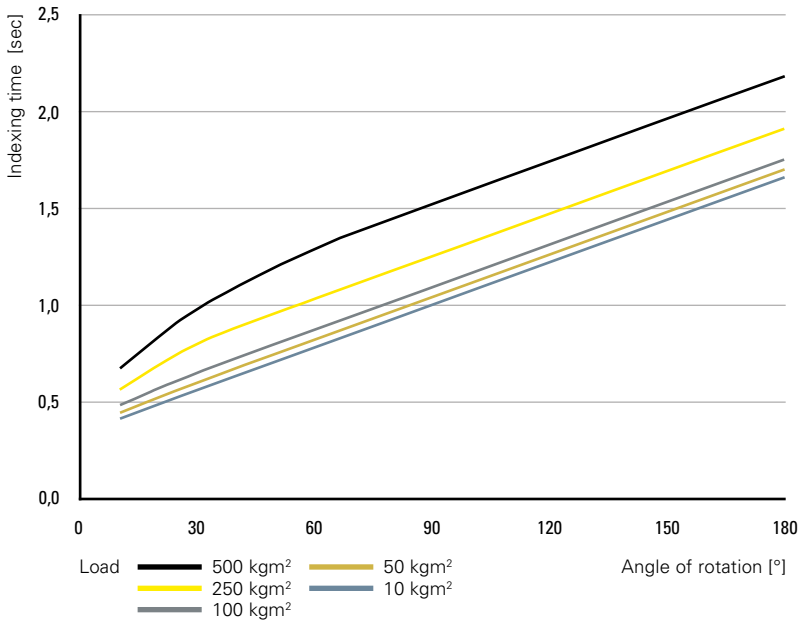
DRIVING DATA**

i_{Total}	90 / or 180
$M_{Motor\ max}$	30 Nm
$M_{Brake\ max}$	15 Nm
$n_{Motor\ max}$	2000 rpm

* Attention! In order to reach the above axial and radial run-out tolerances, please ensure that the axial run-out of the mounting plate is accurate.

** It is possible to fit popular alternative motors from various manufacturers. We are happy to advise you if you require any further information.

TIMING DIAGRAM



Please add the mass moment of inertia of your fixtures and parts to the mass moment of inertia of the rotary ring. Standard dimensions of the rotary ring (I/D = Ø 490 mm, O/D = Ø 750 mm, thickness = 20 mm, material Al) J = 1.4 kgm²

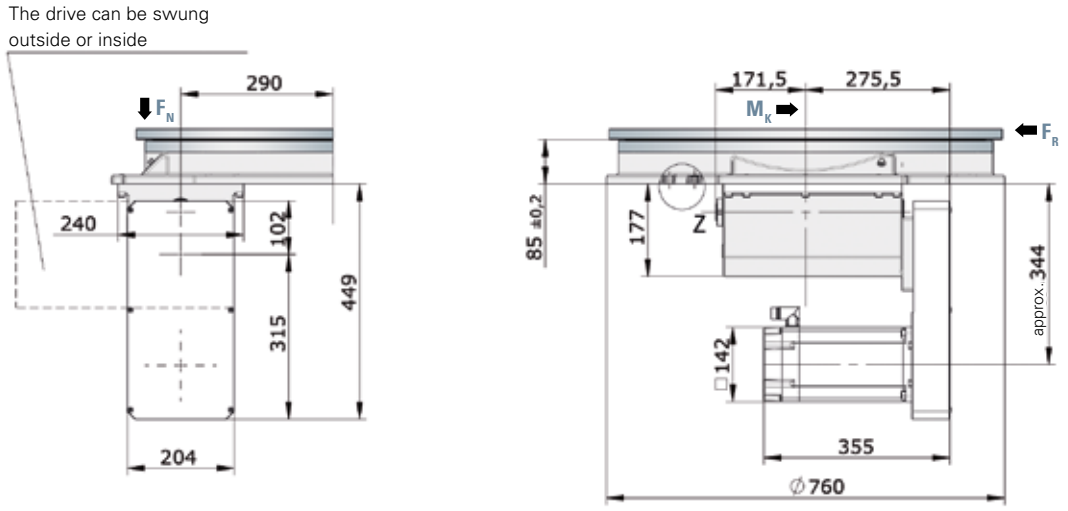
LOAD DATA

Perm. axial force	Perm. tilting moment	Perm. torque	Perm. radial force
F_N : 3500 N (static)	**M_K : 750 Nm** (static)	**T_R : 2180 Nm** (static)	**F_R : 7000 N** (static)

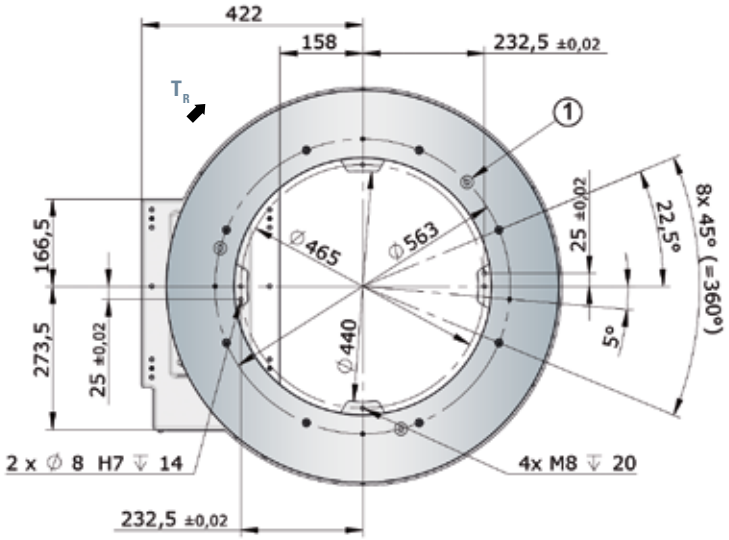
max. centrical load on the ring at M_K = 0 Nm and F_R = 0 N on demand. Combined loads only after inspection by WEISS.

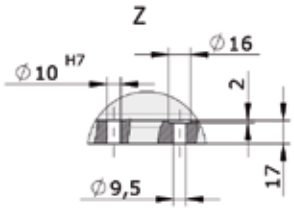
DIMENSIONS

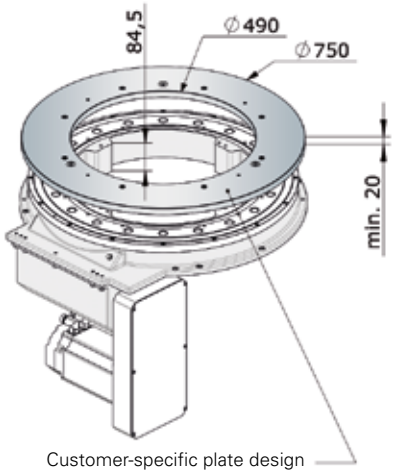
The shown position of the rotating ring corresponds to the home position (state of delivery). Additional indexing plates are not included in the standard delivery scope and are subject to an extra charge. They are calculated separately as per your details.



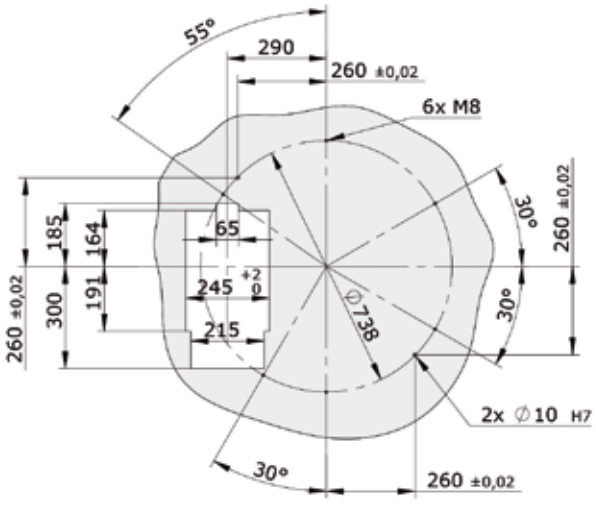
① Auxiliary holes for production:
based on the plate diameter; 3x120°







Customer-specific plate design



NR 1100Z

TECHNICAL DATA

Dial ring inside diameter:	Max. 800 mm
Dial ringt outside diameter:	Min. 1100 mm
Surface of the dial ring:	Anodised
Direction of rotation:	Clockwise - counter clockwise or reciprocating
Cycle rate:	Up to approx. 120 cycles/min, depending on mass moment of inertia and angle of rotation
Voltage:	400…480 V ± 10%, 42…62 Hz special voltages upon request
Weight:	Approx. 310 kg
Mounting position:	Dial ring horizontal
Indexing precision (arcsec):	± 18"
Indexing precision in radian measurement:	± 0.048 mm (at Ø 1100 mm)
Max. axial run-out of ring:	* 0.06 mm (at Ø 1100 mm)
Max. concentricity:	* 0.04 mm
Max. parallelism of rotating plate surface to bottom housing surface:	* 0.06 mm (at Ø 1100 mm)
Max. outer diameter:	2200 mm (or following consultation)

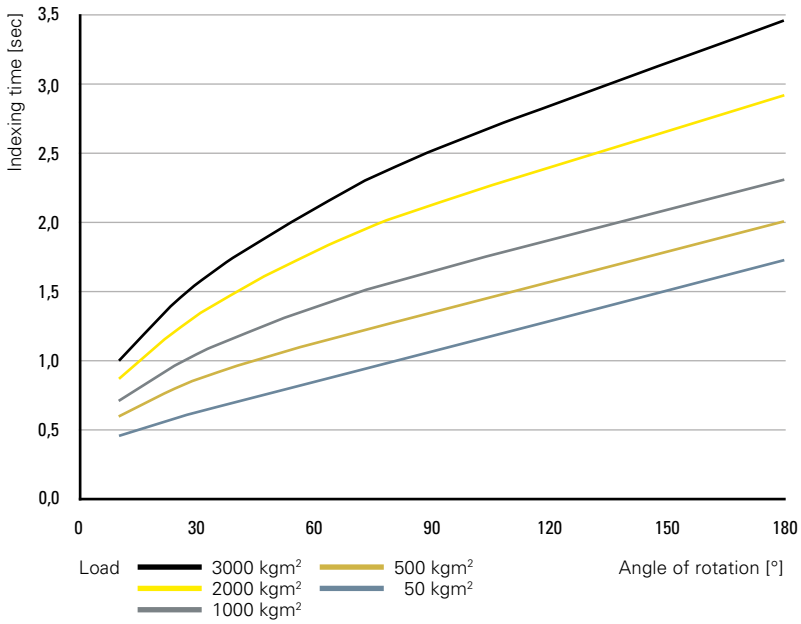
DRIVING DATA**

i_{Total}	88
$M_{Motor\ max}$	50 Nm
$M_{Brake\ max}$	32 Nm
$n_{Motor\ max}$	2000 rpm

* Attention! In order to reach the above axial and radial run-out tolerances, please ensure that the axial run-out of the mounting plate is accurate.

** It is possible to fit popular alternative motors from various manufacturers. We are happy to advise you if you require any further information.

TIMING DIAGRAM



Please add the mass moment of inertia of your fixtures and parts to the mass moment of inertia of the rotary ring. Standard dimensions of the rotary ring (I/D = Ø 800 mm, O/D = Ø 1100 mm, thickness = 25 mm, material Al) J = 7 kgm².

LOAD DATA

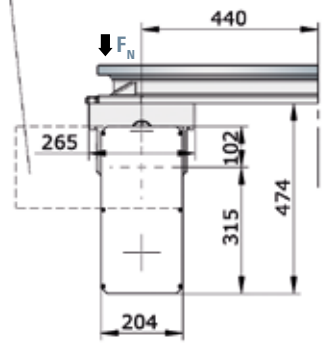
Perm. axial force	Perm. tilting moment	Perm. tourqe	Perm. radial force
F_N : 6000 N (static)	**M_K : 2500 Nm** (static)	**T_R : 3500 Nm** (static)	**F_R : 12000 N** (static)

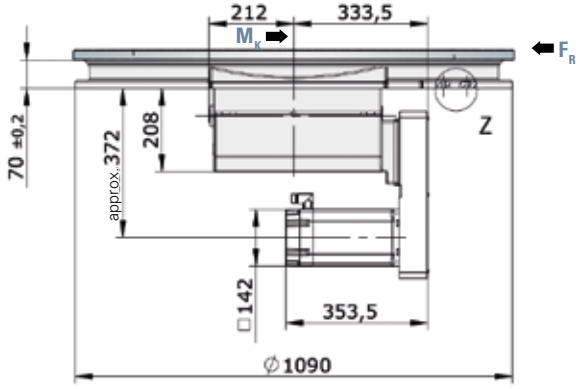
max. centrical load on the ring at M_K = 0 Nm and F_R = 0 N on demand. Combined loads only after inspection by WEISS.

DIMENSIONS

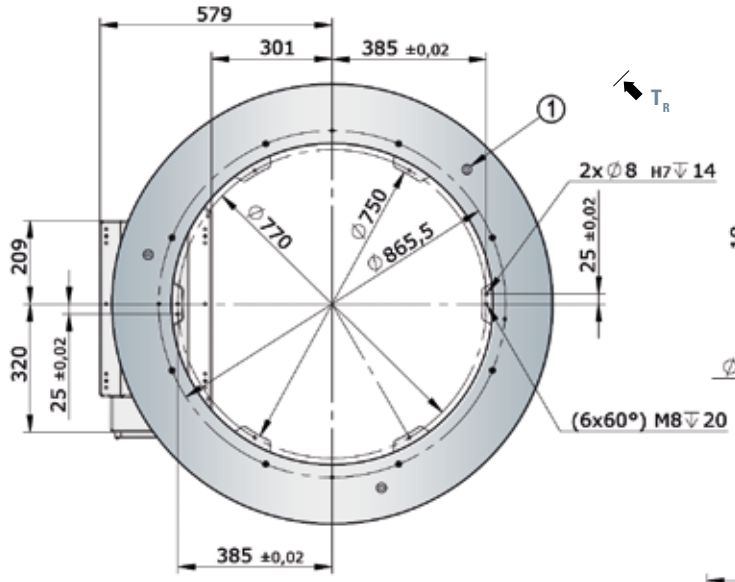
The shown position of the rotating ring corresponds to the home position (state of delivery). Additional indexing plates are not included in the standard delivery scope and are subject to an extra charge. They are calculated separately as per your details.

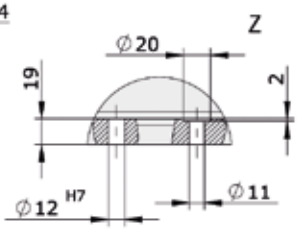
The drive can be swung outside or inside

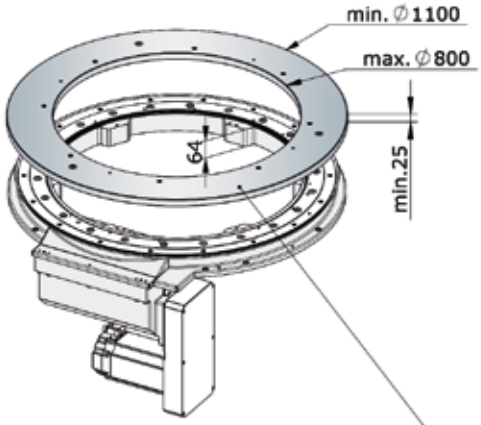


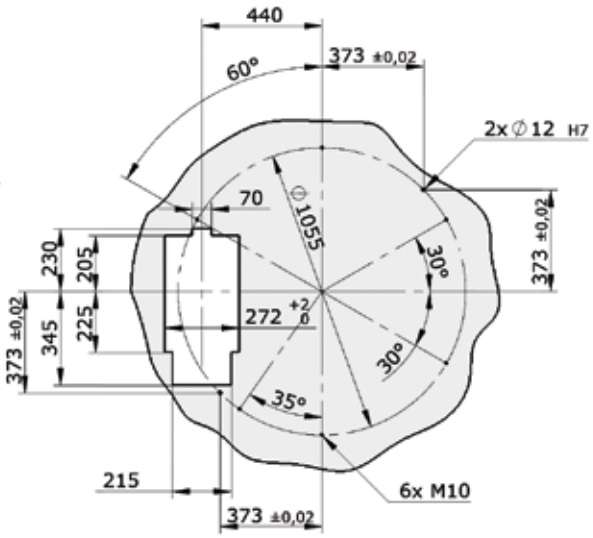


① Auxiliary holes for production: based on the plate diameter; 3x120°









Customer-specific plate design
(included in the scope of functions offered by the TR)
Do not drill through the plate in the min/max area.

NR 1500Z

TECHNICAL DATA

Dial ring inside diameter:	Max. 1135 mm
Dial ringt outside diameter:	Min. 1500 mm
Surface of the dial ring:	Anodised
Direction of rotation:	Clockwise - counter clockwise or reciprocating
Cycle rate:	Up to approx. 120 cycles/min, depending on mass moment of inertia and angle of rotation
Voltage:	400…480 V ± 10%, 42…62 Hz special voltages upon request
Weight:	Approx. 400 kg
Mounting position:	Dial ring horizontal
Indexing precision (arcsec):	± 15"
Indexing precision in radian measurement:	± 0.055 mm (at Ø 1500 mm)
Max. axial run-out of ring:	* 0.08 mm (at Ø 1500 mm)
Max. concentricity:	* 0.04 mm
Max. parallelism of rotating plate surface to bottom housing surface:	* 0.08 mm (at Ø 1500 mm)
Max. outer diameter:	3000 mm (or following consultation)

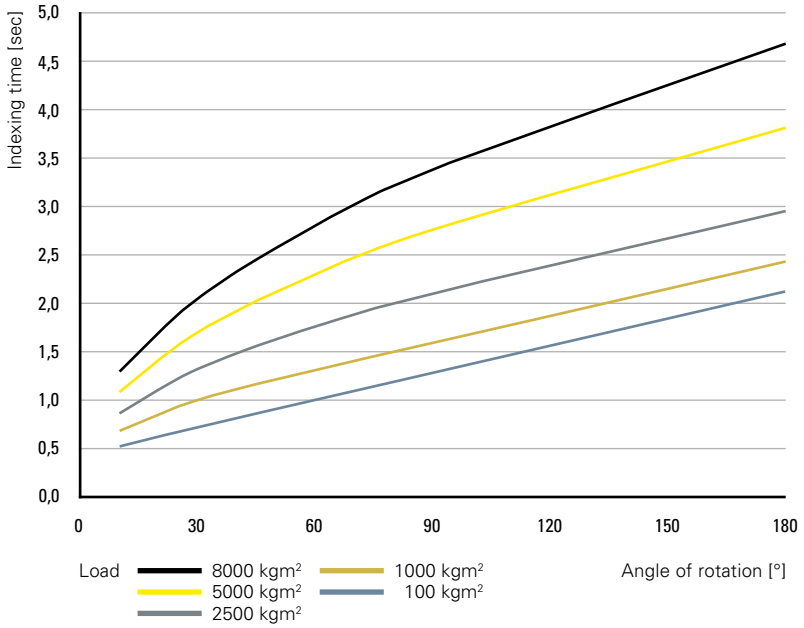
DRIVING DATA**

i_{Total}	112
$M_{Motor\ max}$	55 Nm
$M_{Brake\ max}$	32 Nm
$n_{Motor\ max}$	2000 rpm

* Attention! In order to reach the above axial and radial run-out tolerances, please ensure that the axial run-out of the mounting plate is accurate.

** It is possible to fit popular alternative motors from various manufacturers. We are happy to advise you if you require any further information.

TIMING DIAGRAM



Please add the mass moment of inertia of your fixtures and parts to the mass moment of inertia of the rotary ring. Standard dimensions of the rotary ring (I/D = Ø 1135 mm, O/D = Ø 1500 mm, thickness = 25 mm, material Al) J = 22.5 kgm²

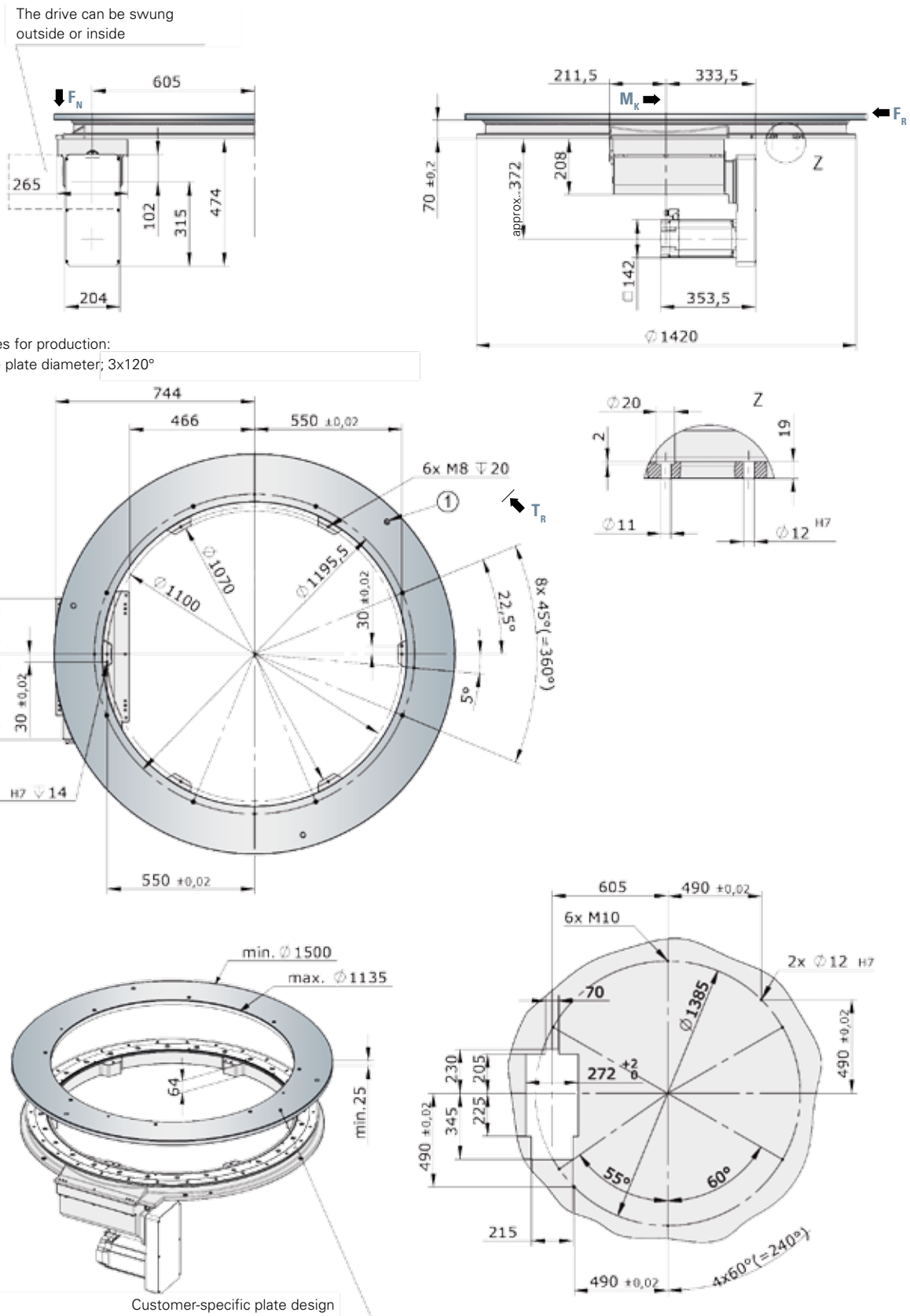
LOAD DATA (for rotary ring)

Perm. axial force	Perm. tilting moment	Perm. tourqe	Perm. radial force
F_N : 8000 N (static)	**M_K : 3200 Nm** (static)	**T_R : 4500 Nm** (static)	**F_R : 16000 N** (static)

Max. centrical load on the ring at M_K = 0 Nm and F_R = 0 N on demand. Combined loads only after inspection by WEISS.

DIMENSIONS

The shown position of the rotating ring corresponds to the home position (state of delivery). Additional indexing plates are not included in the standard delivery scope and are subject to an extra charge. They are calculated separately as per your details.



① Auxiliary holes for production:
based on the plate diameter; 3x120°

Customer-specific plate design
(included in the scope of functions offered by the TR)
Do not drill through the plate in the min/max area.

NR 2200Z

TECHNICAL DATA

Dial ring inside diameter:	Max. 1135 mm
Dial ringt outside diameter:	Min. 1500 mm
Surface of the dial ring:	Anodised
Direction of rotation:	Clockwise - counter clockwise or reciprocating
Cycle rate:	Up to approx. 120 cycles/min, depending on mass moment of inertia and angle of rotation
Voltage:	400…480 V ± 10%, 42…62 Hz special voltages upon request
Weight:	Approx. 400 kg
Mounting position:	Dial ring horizontal
Indexing precision (arcsec):	± 15"
Indexing precision in radian measurement:	± 0.055 mm (at Ø 1500 mm)
Max. axial run-out of ring:	* 0.08 mm (at Ø 1500 mm)
Max. concentricity:	* 0.04 mm
Max. parallelism of rotating plate surface to bottom housing surface:	* 0.08 mm (at Ø 1500 mm)
Max. outer diameter:	3000 mm (or following consultation)

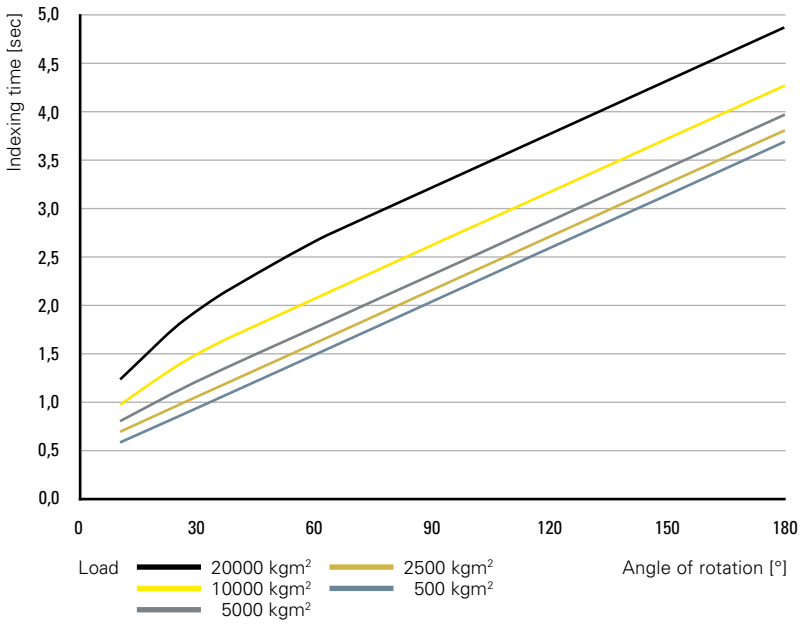
DRIVING DATA**

i_{Total}	1220
$M_{Motor\ max}$	80 Nm
$M_{Brake\ max}$	32 Nm
$n_{Motor\ max}$	2000 rpm

* Attention! In order to reach the above axial and radial run-out tolerances, please ensure that the axial run-out of the mounting plate is accurate.

** It is possible to fit popular alternative motors from various manufacturers. We are happy to advise you if you require any further information.

TIMING DIAGRAM



Please add the mass moment of inertia of your fixtures and parts to the mass moment of inertia of the rotary ring.
For the standard ring (I/D = 1135 mm, O/D = 2200 mm, thickness = 30 mm, material Al) J = 22.5 kgm²

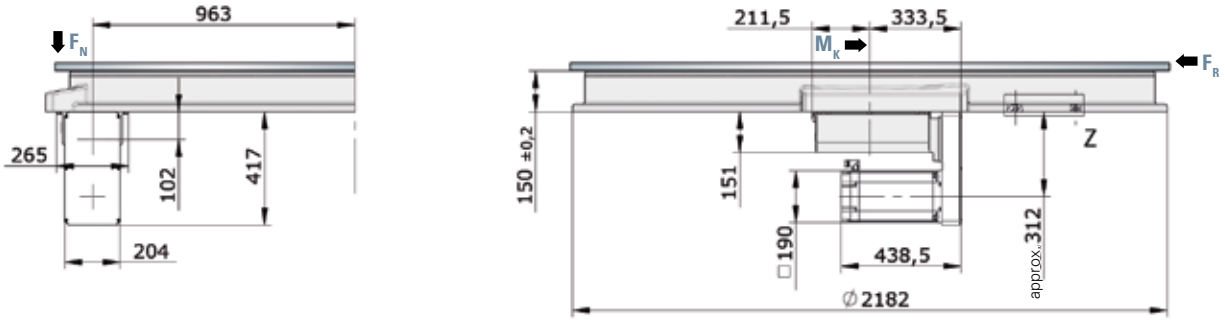
LOAD DATA (for rotary ring)

Perm. axial force	Perm. tilting moment	Perm. tourqe	Perm. radial force
F_N : 15000 N (static)	**M_K : 4500 Nm** (static)	**T_R : 10000 Nm** (static)	**F_R : 30000 N** (static)

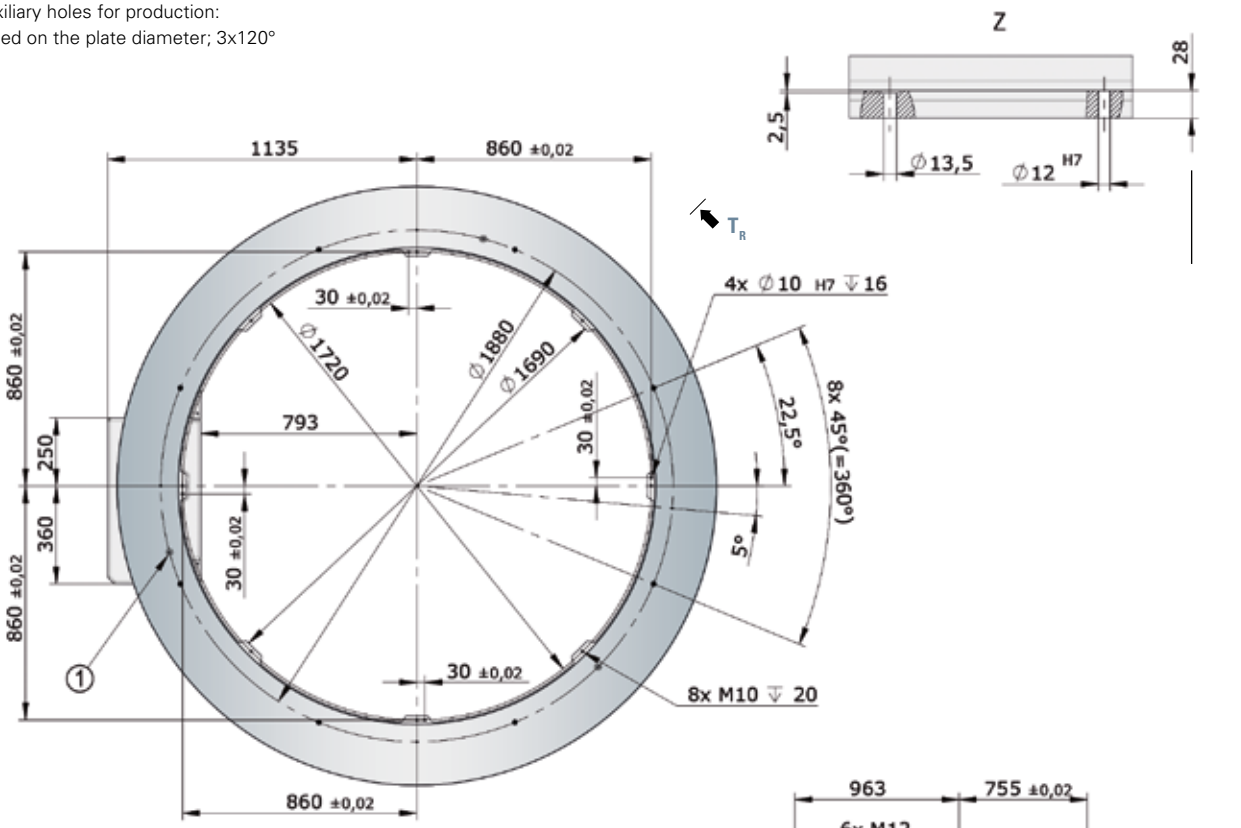
Max. centrical load on the ring at M_K = 0 Nm and F_R = 0 N on demand. Combined loads only after inspection by WEISS.

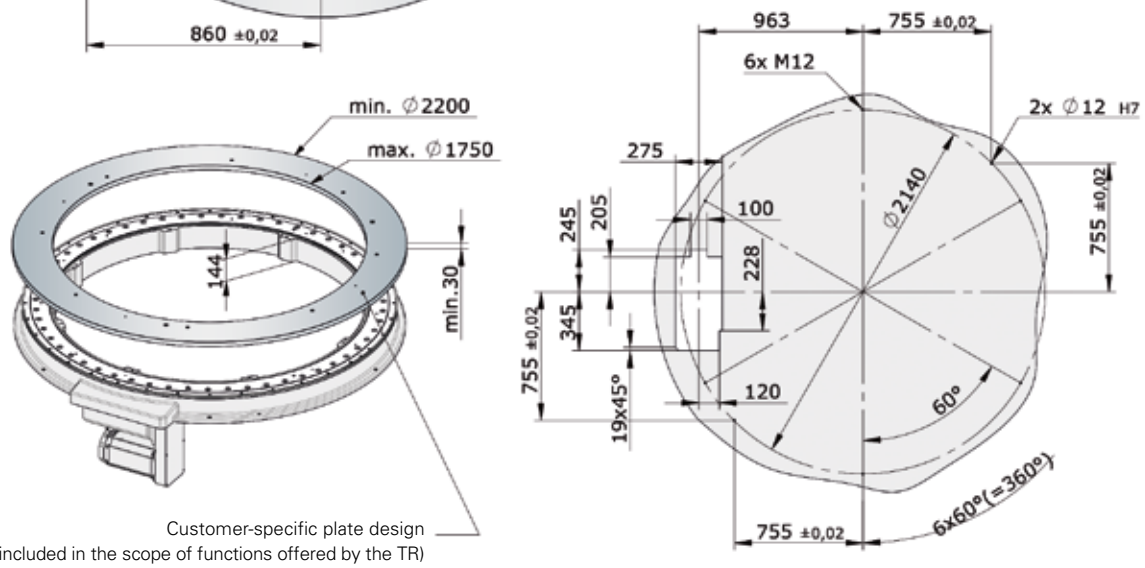
DIMENSIONS

The shown position of the rotating ring corresponds to the home position (state of delivery). Additional indexing plates are not included in the standard delivery scope and are subject to an extra charge. They are calculated separately as per your details.



① Auxiliary holes for production:
based on the plate diameter; 3x120°





Customer-specific plate design
(included in the scope of functions offered by the TR)
Do not drill through the plate in the min/max area.