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

NR ROTARY RING TABLE: FLEXIBLE IN EVERY RESPECT

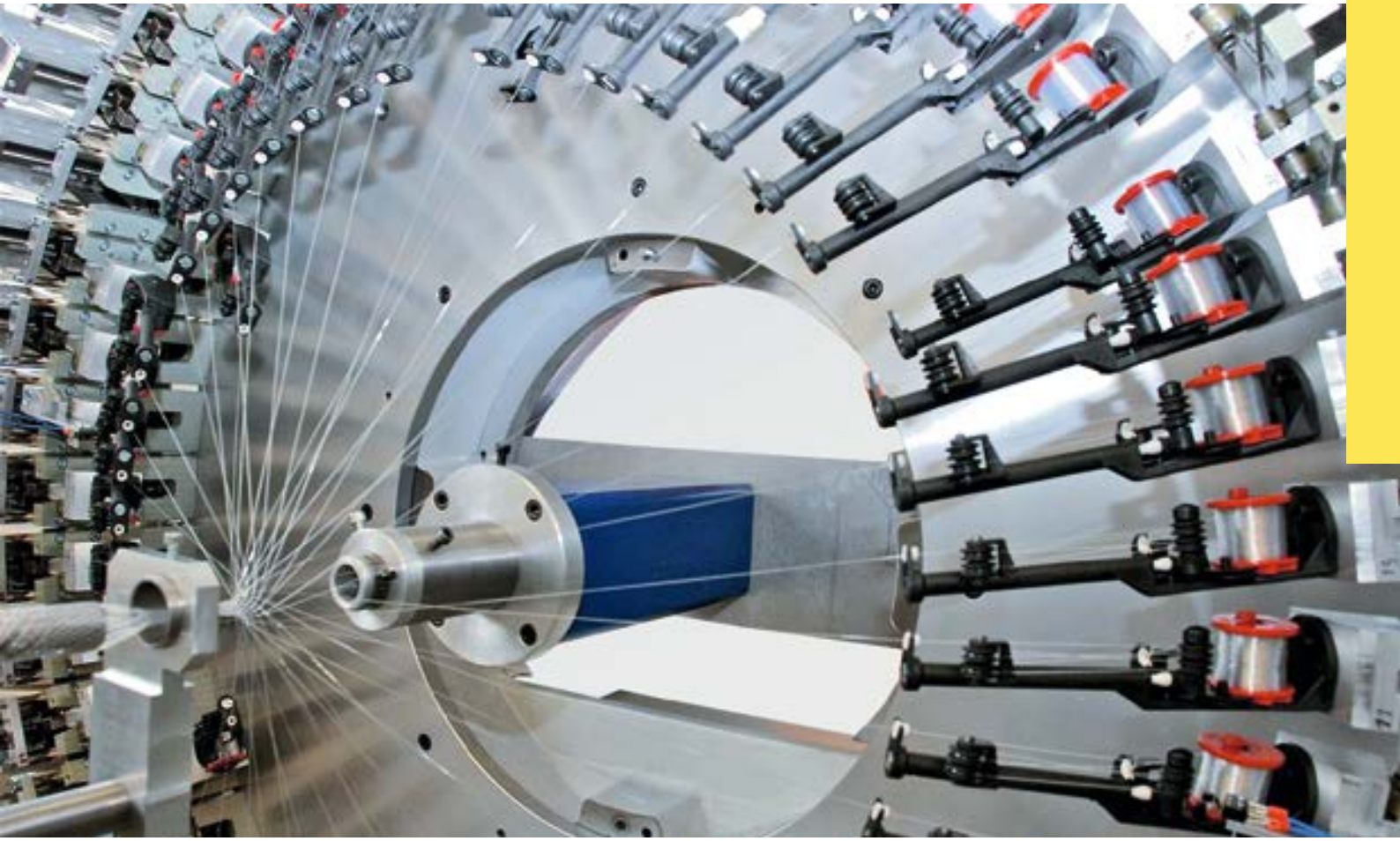
WHEN IT'S GOT TO BE EXACT

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.

FREELY AND INTUITIVELY PROGRAMMABLE

W.A.S. 2 – WEISS Application Software: secure and fast commissioning with free-of-charge user software.

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.

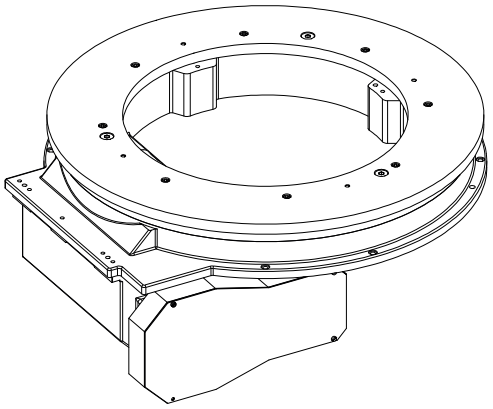


Rotary ring table with very large central opening, extremely flat design and high parts accuracy. The ring-shaped design allows extra free design space. The rotating aluminium ring can be adjusted to your specifications in terms of diameter and thickness.

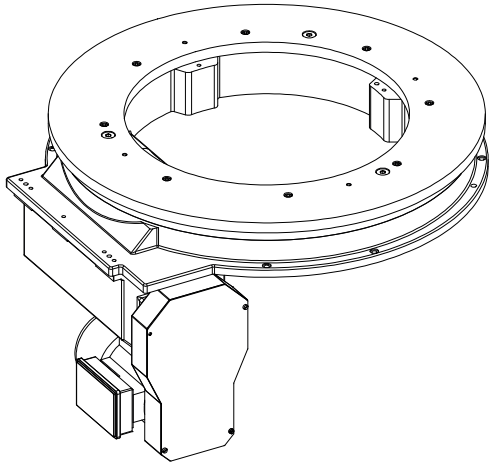
ADVANTAGES

- 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
- Excellent price-performance
- Appealing design
- Optionally available with standard motor and control package with W.A.S. 2

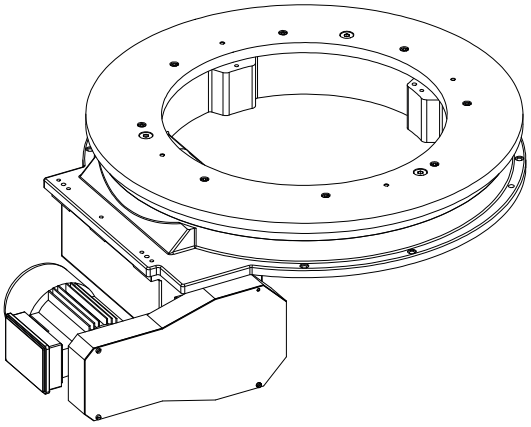
VERSIONS: DRIVE POSITION



DRIVE HOUSING INSIDE / DP 1

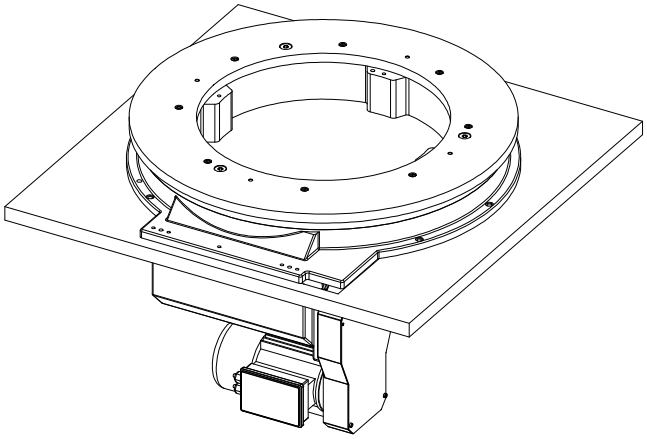


DRIVE HOUSING BELOW / DP 2

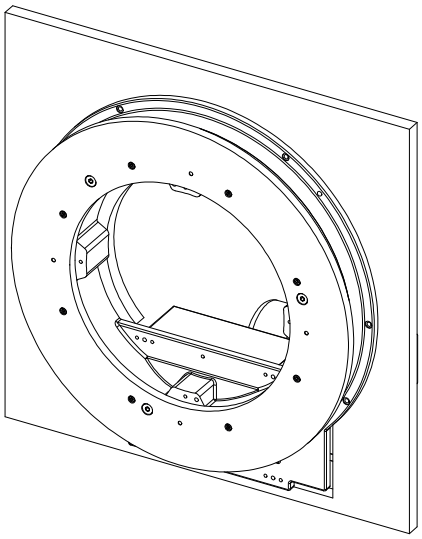


DRIVE HOUSING OUTSIDE / DP 3

VERSIONS: MOUNTING POSITION



STANDARD / MP 1



VERTICAL DRIVE AT BASE / MP 2
(only possible for model NR0750A)

GENERAL INFORMATION ON THE MODEL RANGE

- NR rotary ring table can be operated clockwise, anti-clockwise and also in reversing mode.
- The NR rotary ring tables are "lubricated for life"!
- All NR rotary indexing rings can be equipped with servo motors. The size of the motors should be optimally matched to the respective rotary indexing ring configuration so that the drive can never damage the rotary indexing ring.
- The aluminium rotating ring should be anodised so that the seal at the bottom runs on a low-wear surface.

OPTIONS

- Possible installation location: vertical rotary axis with output flange at the top
- Custom installation location, only possible for the NR0750A: horizontal rotary axis with cam housing at the base
- The 8LSA model range from B+R or the MS2N model range from Bosch Rexroth are available as standard servo motors.
- It is possible to fit popular alternative motors from various manufacturers.
- Standard colour: RAL7035 (other colours available on request)

NR 750Z

GENERAL INFORMATION

· Maximum recommended equipment diameter D_{tp}: approximately 1500 mm

TECHNICAL DATA

$n_{1\ Max}$	Max. motor speed:	2000 1/min
$n_{2\ Max}$	Max. output speed:	23 1/min
i_{tot}	Overall gear ratio:	Level K: 90 Level G: 180
	Indexing precision:	36 arcsec (± 18")
A_r	Axial run-out of the drive flange:	(at Ø 635 mm) 0.05 mm
A_r	Axial run-out, including the rotary ring:	(at Ø 750 mm) 0.07 mm
C_r	Concentricity of the output flange:	0.03 mm
P	Parallelism between the output flange and screw-on surface of the housing:	0.05 mm
m	Total weight without rotary ring or motor:	230 kg

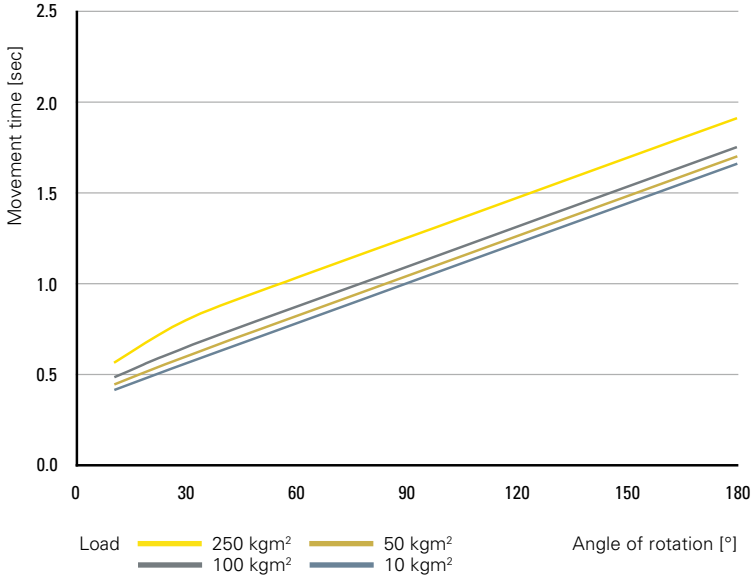
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Permitted dynamic tilting moment:	750 Nm
$F_{2A\ dyn}$	Permitted dynamic axial force:	7000 N
$F_{2R\ dyn}$	Permitted dynamic radial force:	7000 N

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

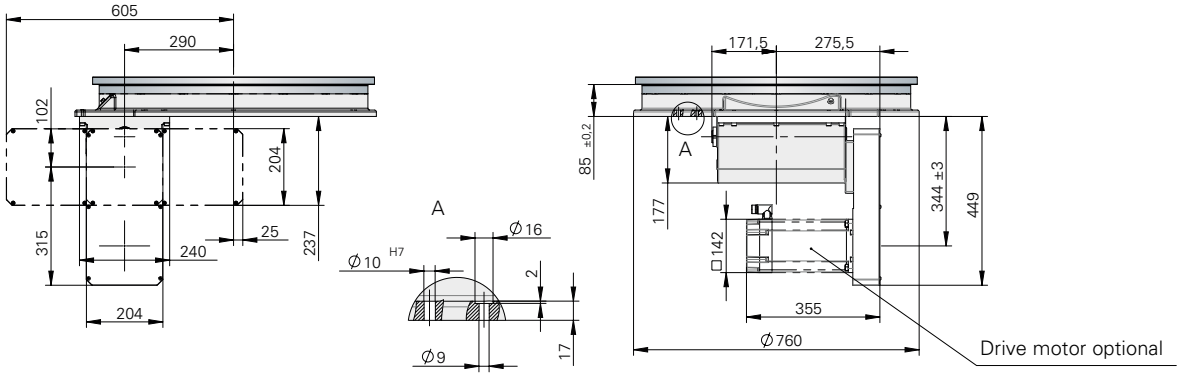
TIMING DIAGRAM

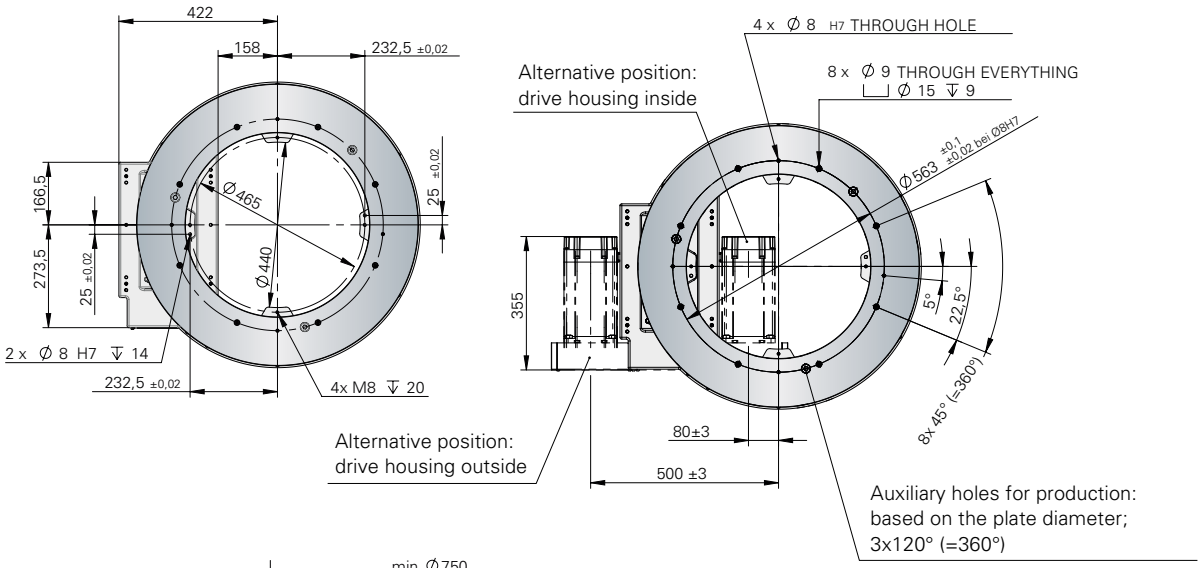


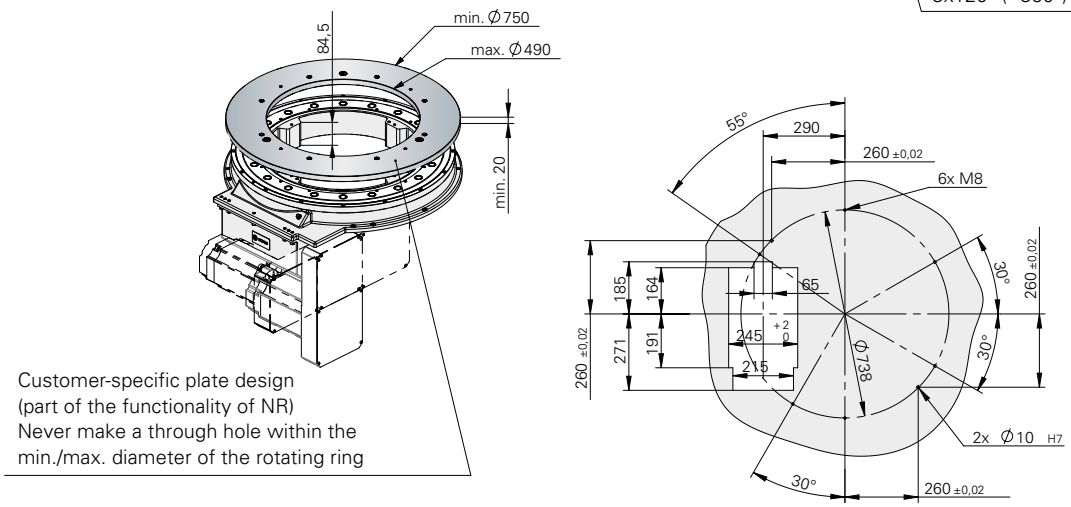
The mass moment of inertia of the aluminium rotary ring in standard dimensions is 1.4 kgm².

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.







NR 1100Z

GENERAL INFORMATION

· Maximum recommended equipment diameter D_{tp}: approximately 2200 mm

TECHNICAL DATA

$n_{1\ Max}$	Max. motor speed:	2000 1/min
$n_{2\ Max}$	Max. output speed:	23 1/min
i_{tot}	Overall gear ratio:	Level K: 88 Level G: 176
	Indexing precision:	36 arcsec (± 18")
A_r	Axial run-out of the drive flange:	(at Ø 945 mm) 0.06 mm
A_r	Axial run-out, including the rotary ring:	(at Ø 1100 mm) 0.07 mm
C_r	Concentricity of the output flange:	0.04 mm
P	Parallelism between the output flange and screw-on surface of the housing:	0.06 mm
m	Total weight without rotary ring or motor:	310 kg

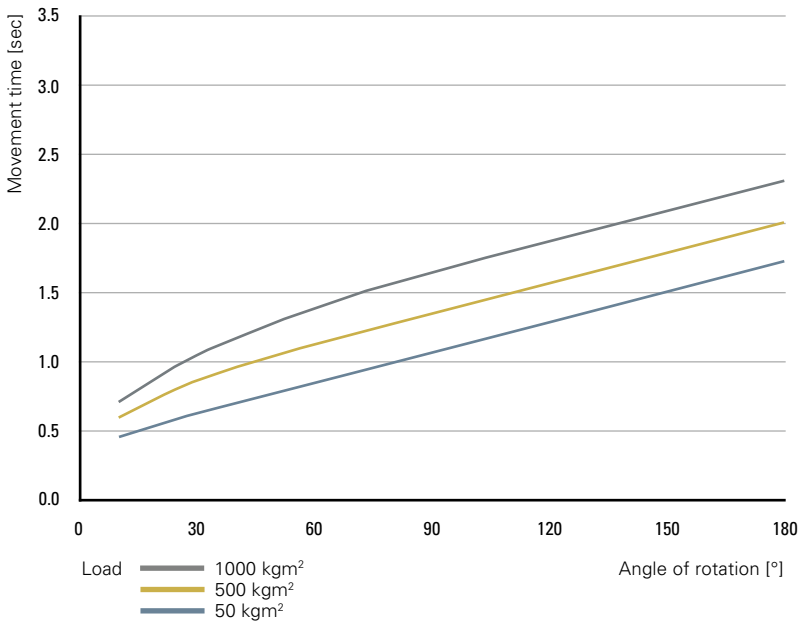
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Permitted dynamic tilting moment:	2500 Nm
$F_{2A\ dyn}$	Permitted dynamic axial force:	12000 N
$F_{2R\ dyn}$	Permitted dynamic radial force:	12000 N

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

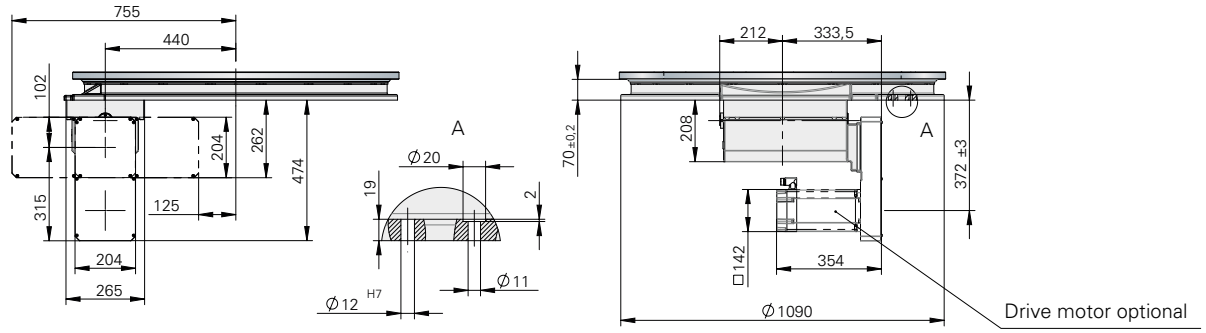
TIMING DIAGRAM

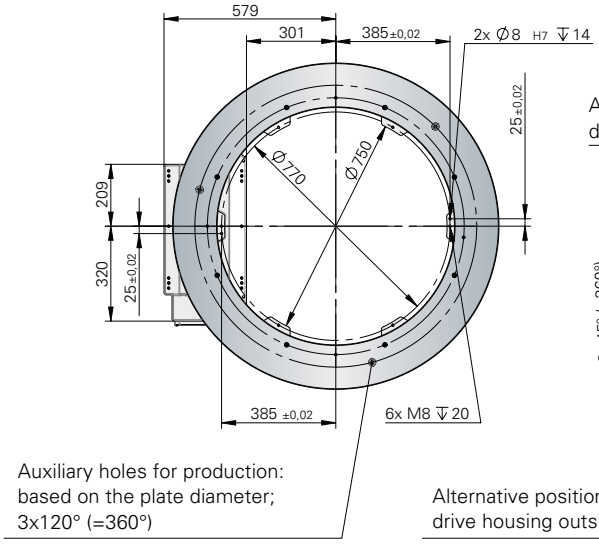


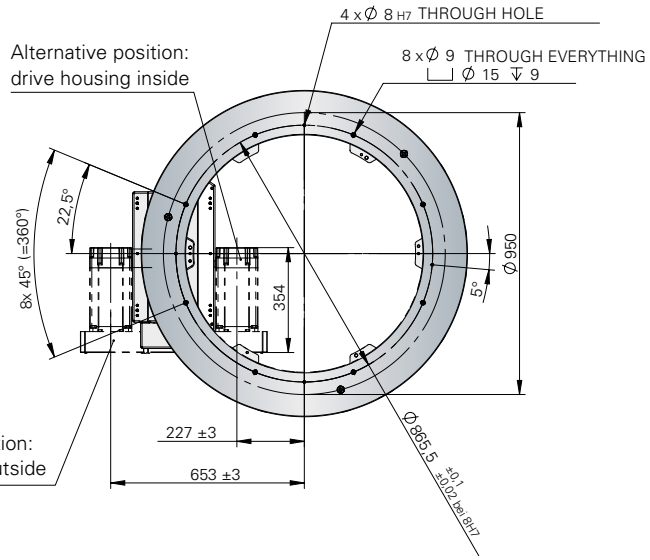
The mass moment of inertia of the aluminium rotary ring in standard dimensions is 7.0 kgm².

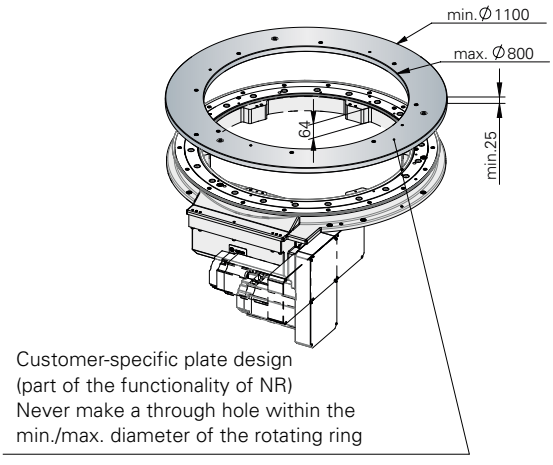
DIMENSIONS

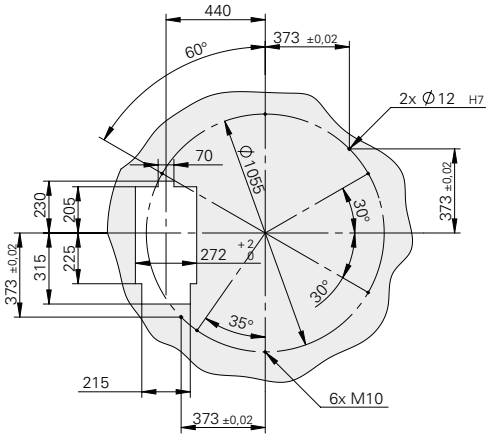
The shown position of the rotating ring corresponds to the home position (state of delivery). Additional indexing plates are not included in the standard delivery scope and are subject to an extra charge. They are calculated separately as per your details.











NR 1500Z

GENERAL INFORMATION

· Maximum recommended equipment diameter D_{tp}: approximately 3000 mm

TECHNICAL DATA

$n_{1\ Max}$	Max. motor speed:	2000 1/min
$n_{2\ Max}$	Max. output speed:	18 1/min
i_{tot}	Overall gear ratio:	Level K: 112 Level G: 224
	Indexing precision:	30 arcsec (± 15")
A_r	Axial run-out of the drive flange:	(at Ø 1275 mm) 0.08 mm
A_r	Axial run-out, including the rotary ring:	(at Ø 1500 mm) 0.1 mm
C_r	Concentricity of the output flange:	0.04 mm
P	Parallelism between the output flange and screw-on surface of the housing:	0.08 mm
m	Total weight without rotary ring or motor:	400 kg

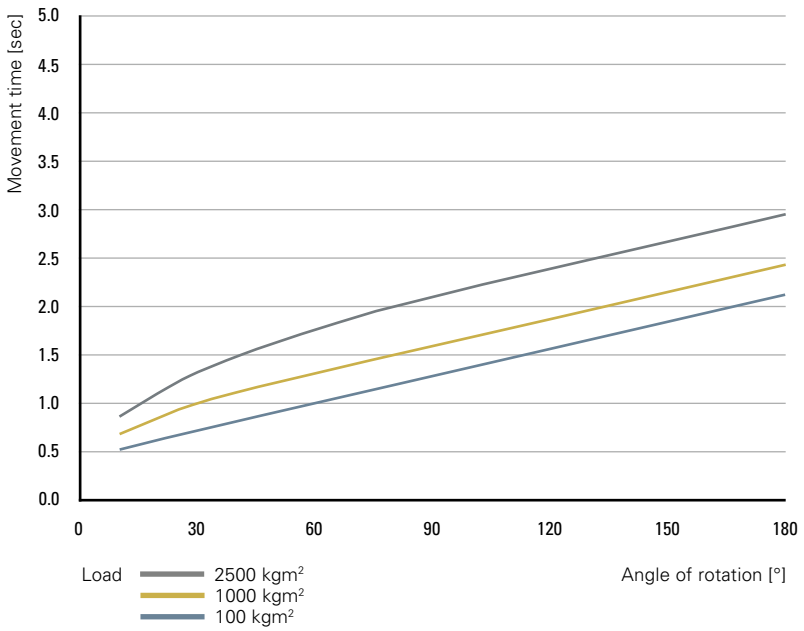
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Permitted dynamic tilting moment:	3200 Nm
$F_{2A\ dyn}$	Permitted dynamic axial force:	16000 N
$F_{2R\ dyn}$	Permitted dynamic radial force:	16000 N

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

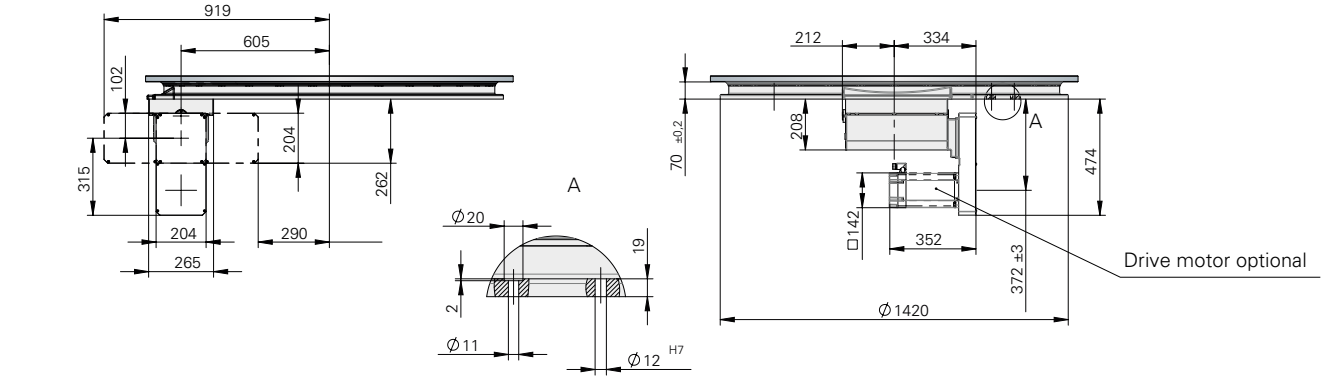
TIMING DIAGRAM

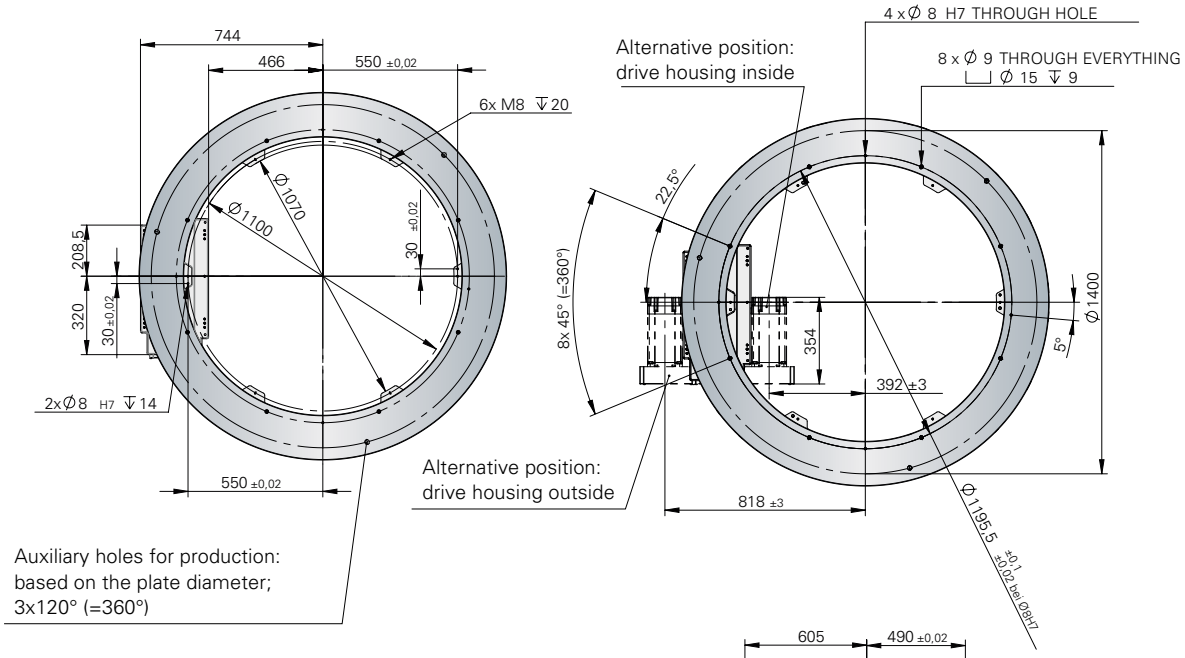


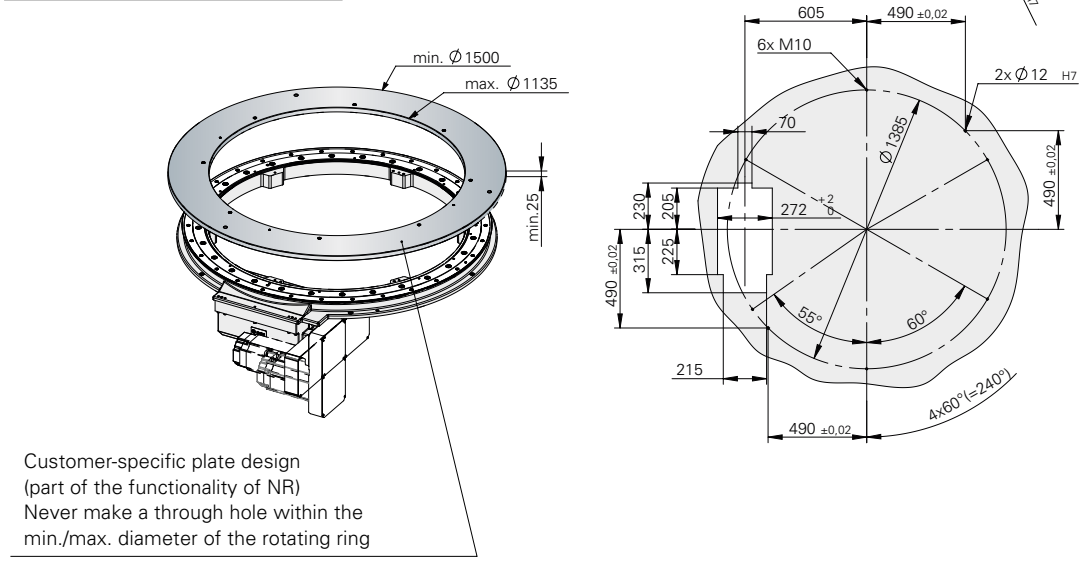
The mass moment of inertia of the aluminium rotary ring in standard dimensions is 22.5 kgm².

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.







NR 2200Z

GENERAL INFORMATION

· Maximum recommended equipment diameter D_{tp}: approximately 4400 mm

TECHNICAL DATA

$n_{1\ Max}$	Max. motor speed:	2000 1/min
$n_{2\ Max}$	Max. output speed:	9 1/min
i_{tot}	Overall gear ratio:	Level K: 220 Level G: 440
	Indexing precision:	24 arcsec (± 12")
A_r	Axial run-out of the drive flange:	(at Ø 1990 mm) 0.08 mm
A_r	Axial run-out, including the rotary ring:	(at Ø 2200 mm) 0.15 mm
C_r	Concentricity of the output flange:	0.05 mm
P	Parallelism between the output flange and screw-on surface of the housing:	0.08 mm
m	Total weight without rotary ring or motor:	950 kg

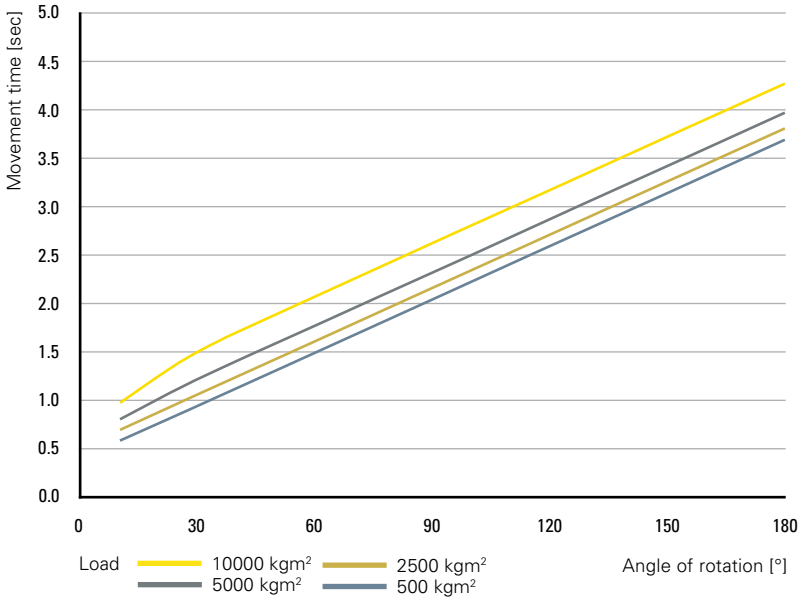
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Permitted dynamic tilting moment:	4500 Nm
$F_{2A\ dyn}$	Permitted dynamic axial force:	30000 N
$F_{2R\ dyn}$	Permitted dynamic radial force:	30000 N

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

TIMING DIAGRAM



The mass moment of inertia of the aluminium rotary ring in standard dimensions is 111.7 kgm².

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.