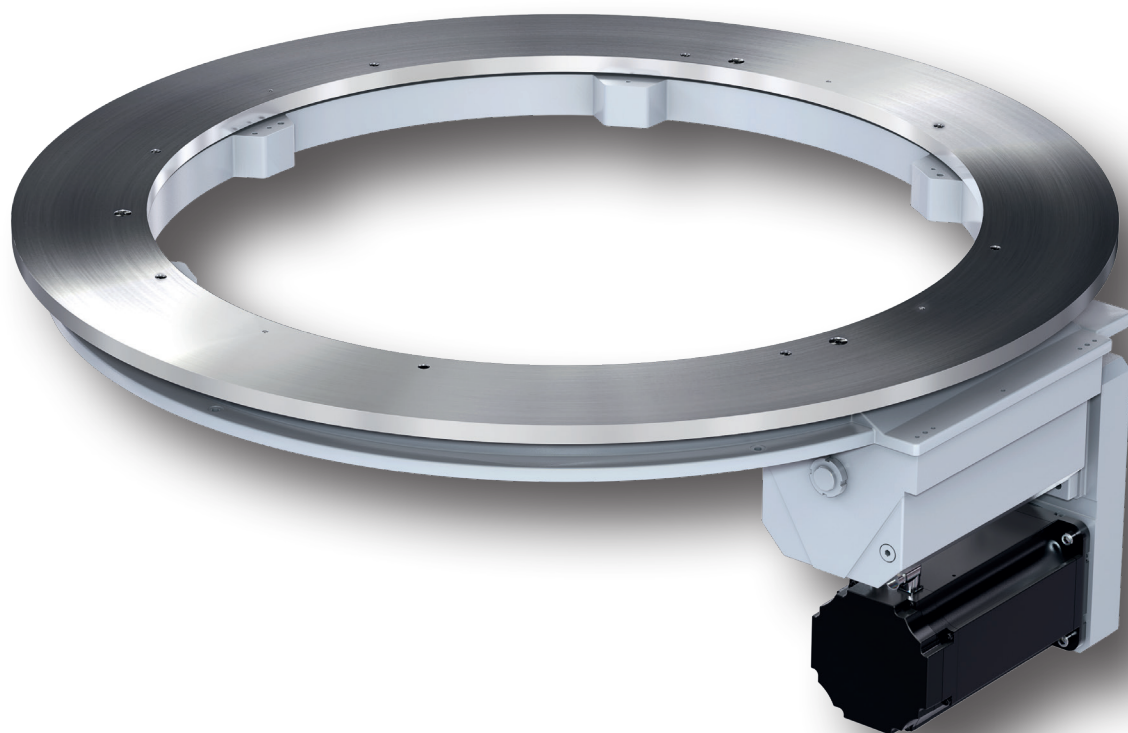


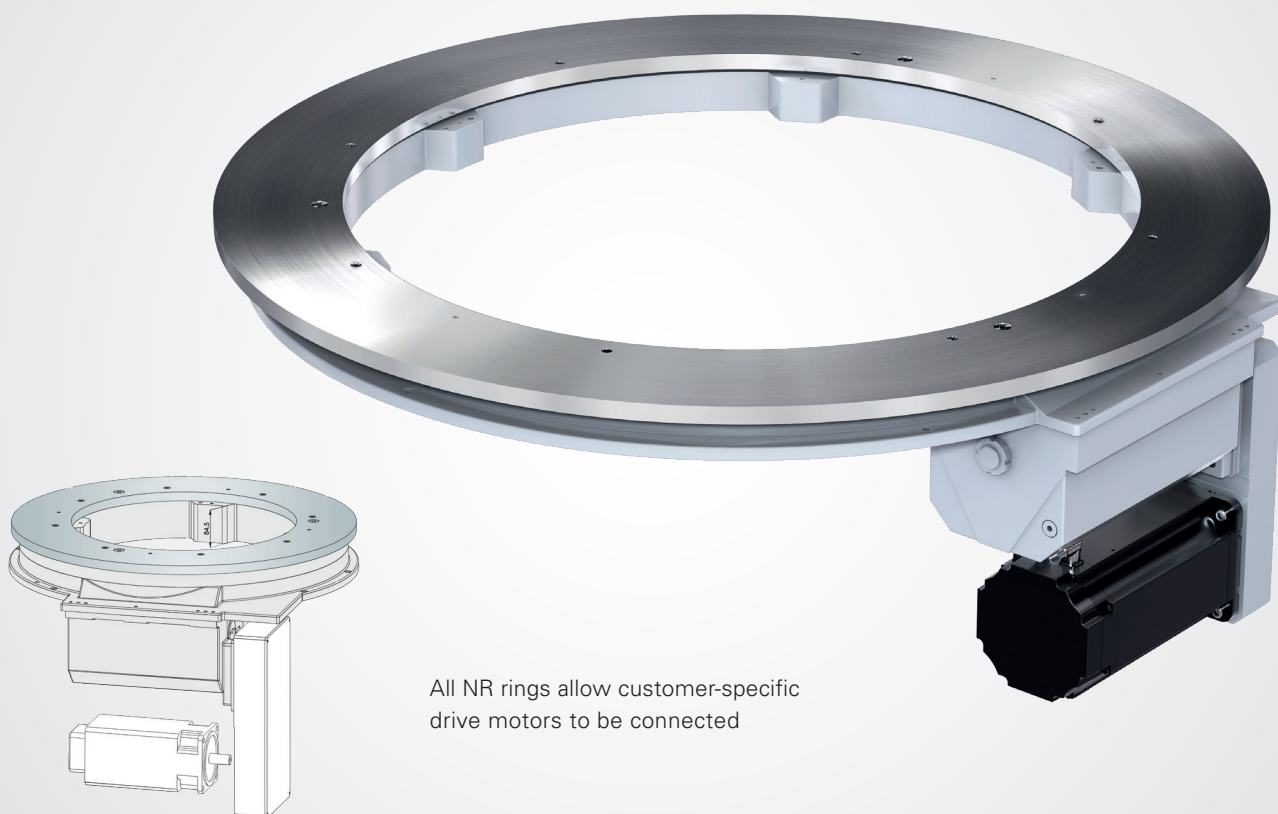


# ROTARY INDEXING TABLE NR



# NR

ROTARY INDEXING TABLES | NR ROTARY INDEXING RING



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.

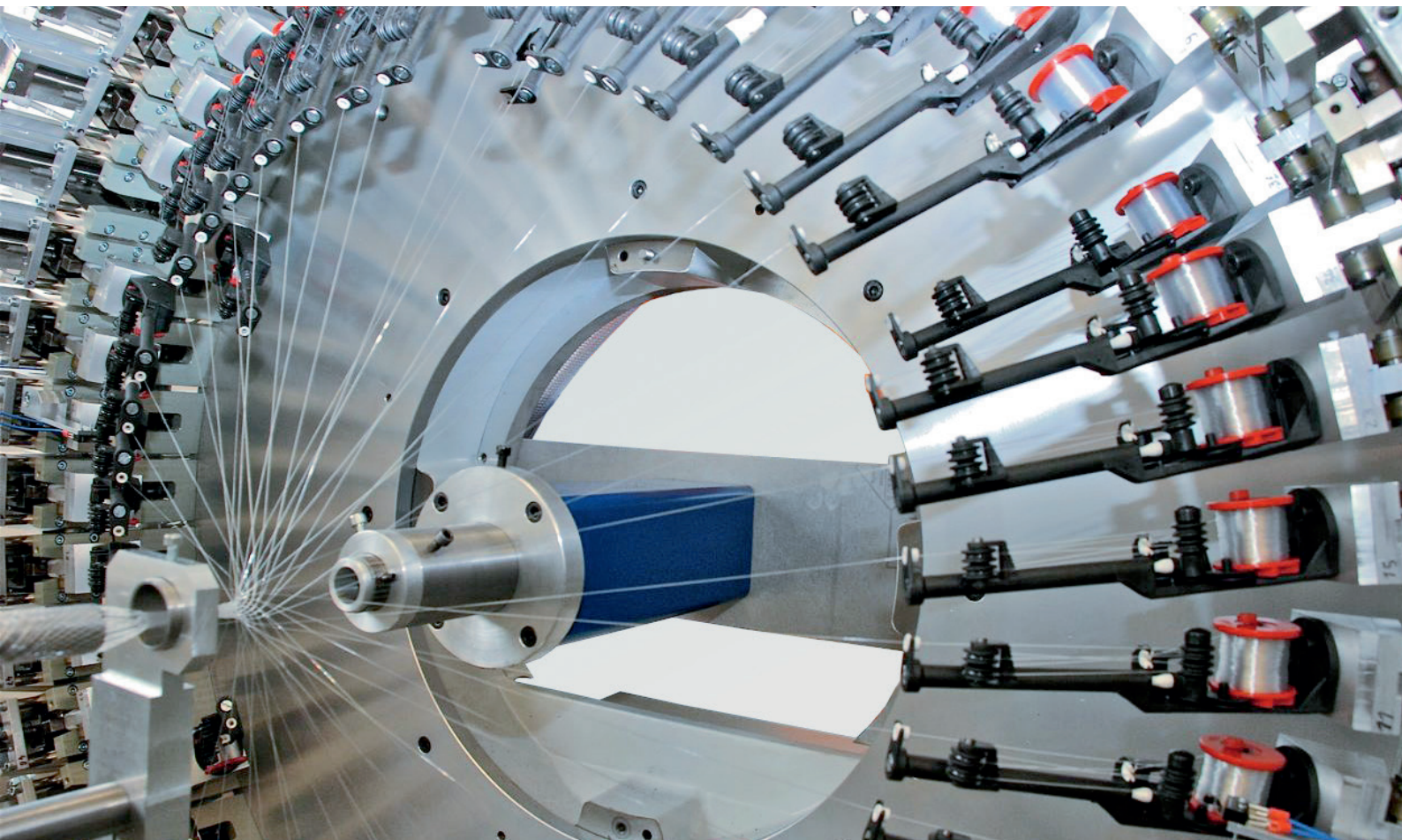


### FREELY AND INTUITIVELY PROGRAMMABLE

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.



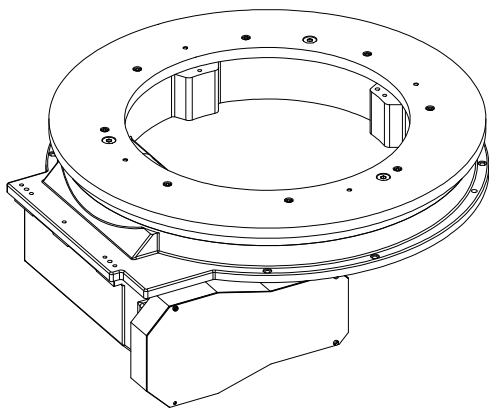
Rotary ring table with very large central opening, extremely flat design and high parts accuracy. The ring-shaped design allows extra free design space. The rotating aluminium ring can be adjusted to your specifications in terms of diameter and thickness.

## ADVANTAGES

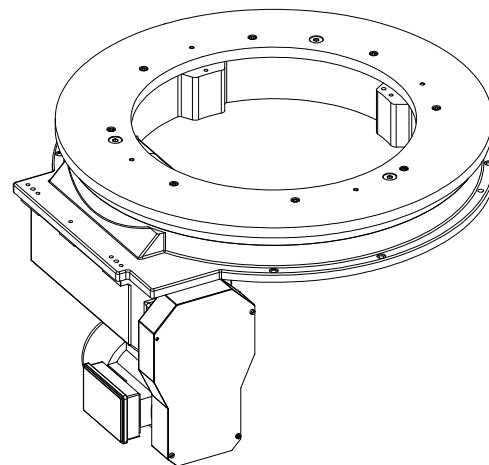
- Ring-shaped rotary table with very large central opening
- High level of parts accuracy through locking on the drive cam
- Highly dynamic with smooth acceleration
- Flat, compact design – compatible with our tried and tested machines
- Four sizes
- Excellent price-performance
- Appealing design
- Optionally available with standard motor and control package with W.A.S. 2

---

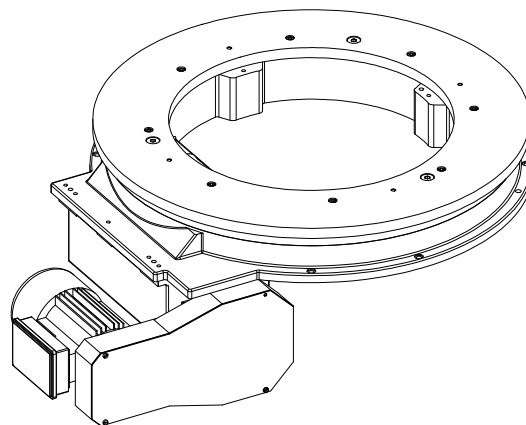
VERSIONS: DRIVE POSITION



DRIVE HOUSING INSIDE/DP 1

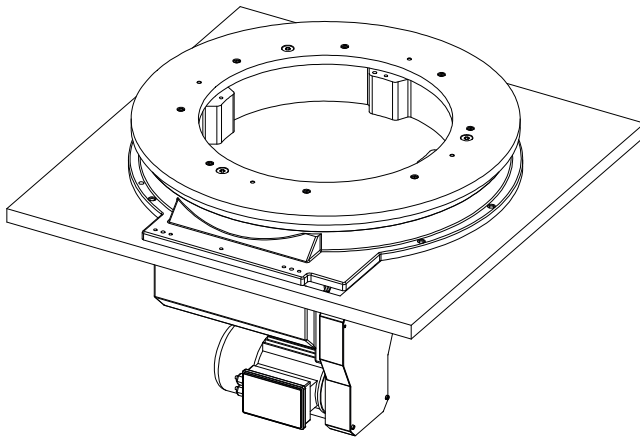


DRIVE HOUSING BELOW /DP 2



DRIVE HOUSING OUTSIDE/DP 3

## VERSIONS: MOUNTING POSITION



STANDARD / MP 1

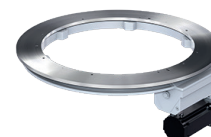
## GENERAL INFORMATION ON THE MODEL RANGE

- 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
- The 8LSA model range from B+R is available as standard servo motor.
- 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 (with consulting from WEISS larger diameters are possible)

## TECHNICAL DATA

$n_{2 \text{ Max}}$	Max. output speed:	23 1/min
$i_{\text{tot}}$	Overall gear ratio:	Level K: 90 Level G: 180
	Indexing precision:	36 arcsec ( $\pm 18''$ )
$A_r$	Axial run-out of the drive flange:	(at $\varnothing 635$ mm) 0.05 mm
$A_r$	Axial run-out, including the rotary ring:	(at $\varnothing 750$ mm) 0.07 mm
$C_r$	Radial run-out 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

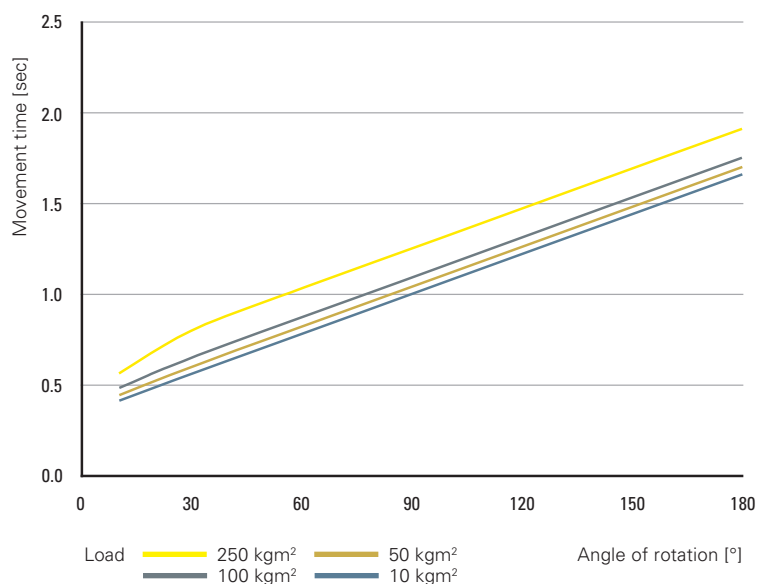
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## LOAD DATA (for the output flange)

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

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

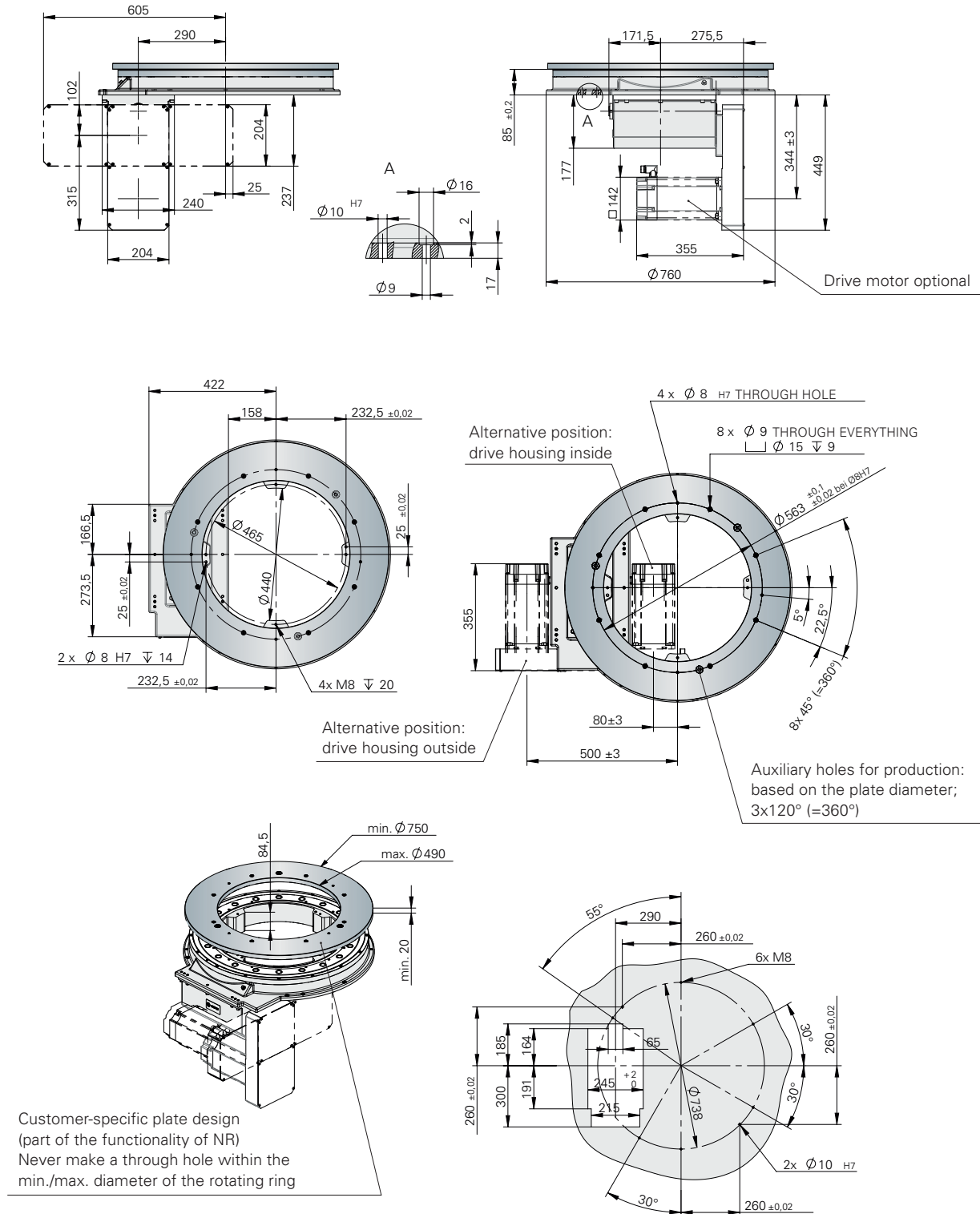
## TIMING DIAGRAM



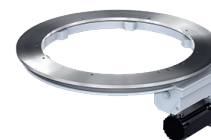
The mass moment of inertia of the aluminium rotary ring in standard dimensions is 1.4 kgm².

## 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.



**Attention:** When the rotary table is recessed in the base plate, the pocket must be 15 mm larger than the outer contour of the table. Please note that unmachined cast surfaces of the housing are tolerated according to DIN ISO 8062 GTB17.



# NR 1100Z

## GENERAL INFORMATION

- Maximum recommended equipment diameter  $D_{tp}$ : approximately 2200 mm (with consulting from WEISS larger diameters are possible)

## TECHNICAL DATA

$n_{2 \text{ Max}}$	Max. output speed:	23 1/min
$i_{\text{tot}}$	Overall gear ratio:	Level K: 88 Level G: 176
	Indexing precision:	36 arcsec ( $\pm 18''$ )
$A_r$	Axial run-out of the drive flange:	(at $\varnothing 945$ mm) 0.06 mm
$A_r$	Axial run-out, including the rotary ring:	(at $\varnothing 1100$ mm) 0.07 mm
$C_r$	Radial run-out 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

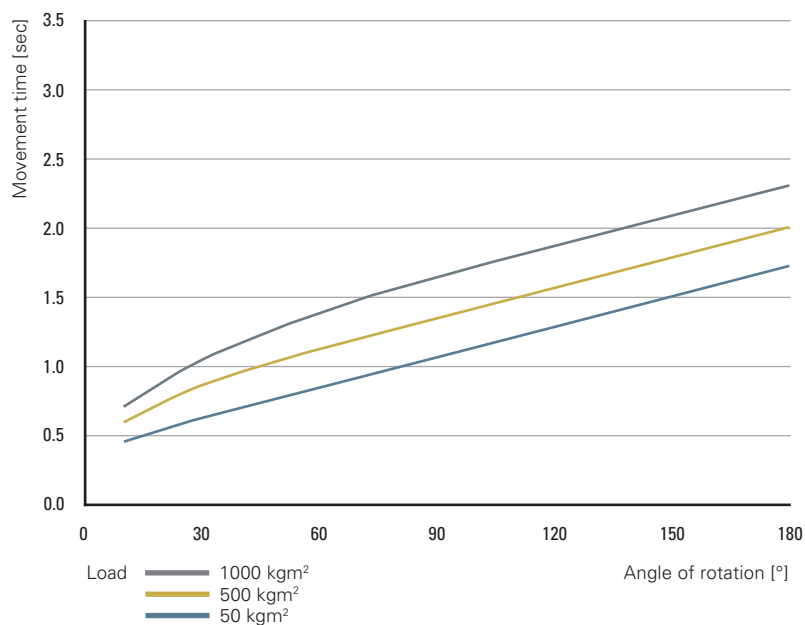
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## LOAD DATA (for the output flange)

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

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

## TIMING DIAGRAM

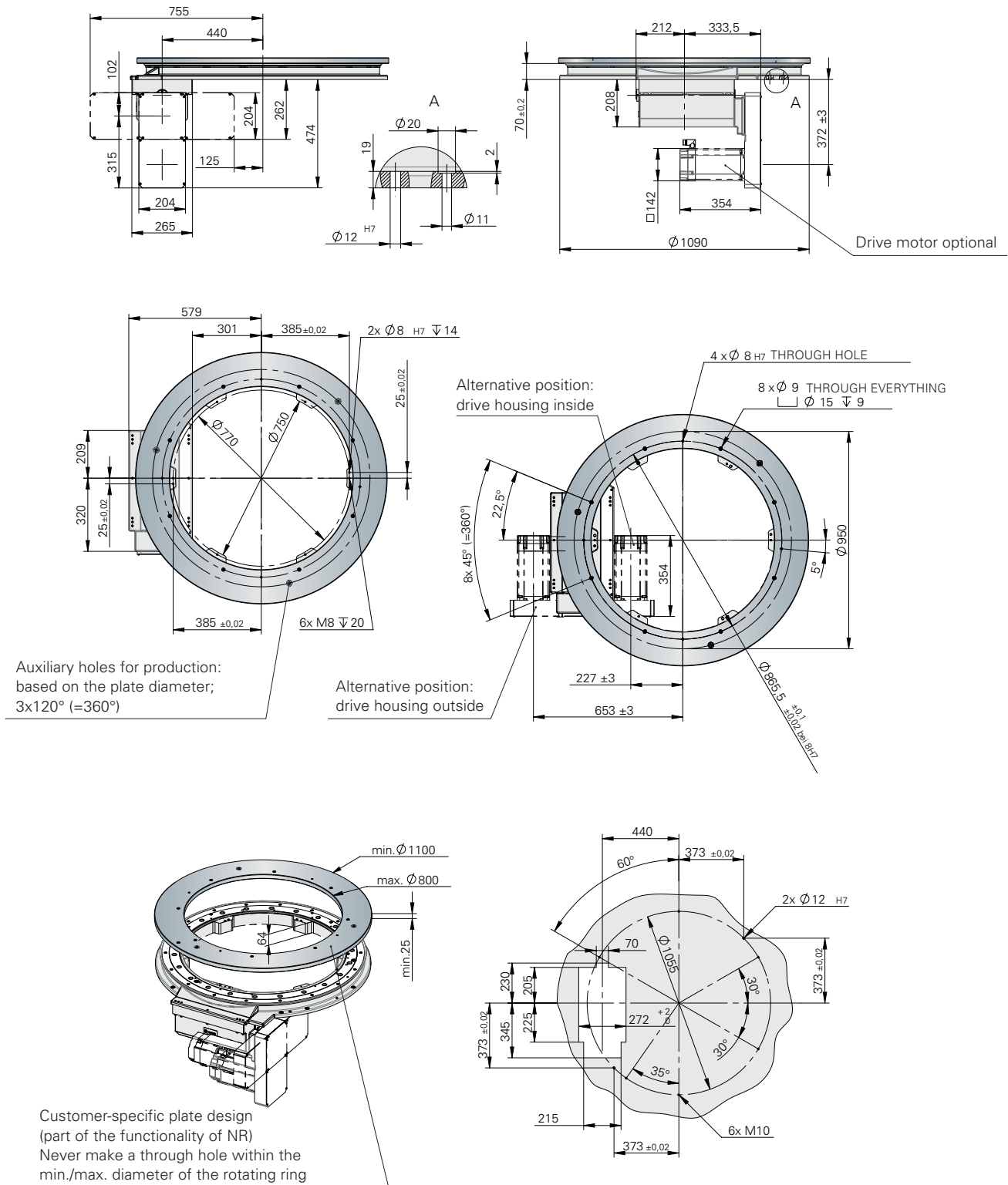


The mass moment of inertia of the aluminium rotary ring in standard dimensions is 7.0 kgm<sup>2</sup>.

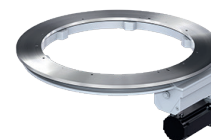


## DIMENSIONS

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.



**Attention:** When the rotary table is recessed in the base plate, the pocket must be 15 mm larger than the outer contour of the table.  
Please note that unmachined cast surfaces of the housing are tolerated according to DIN ISO 8062 GTB17.



# NR 1500Z

## GENERAL INFORMATION

- Maximum recommended equipment diameter  $D_{tp}$ : approximately 3000 mm (with consulting from WEISS larger diameters are possible)

## TECHNICAL DATA

$n_{2 \text{ Max}}$	Max. output speed:	18 1/min
$i_{\text{tot}}$	Overall gear ratio:	Level K: 112 Level G: 224
	Indexing precision:	30 arcsec ( $\pm 15''$ )
$A_r$	Axial run-out of the drive flange:	(at $\varnothing 1275$ mm) 0.08 mm
$A_r$	Axial run-out, including the rotary ring:	(at $\varnothing 1500$ mm) 0.1 mm
$C_r$	Radial run-out 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

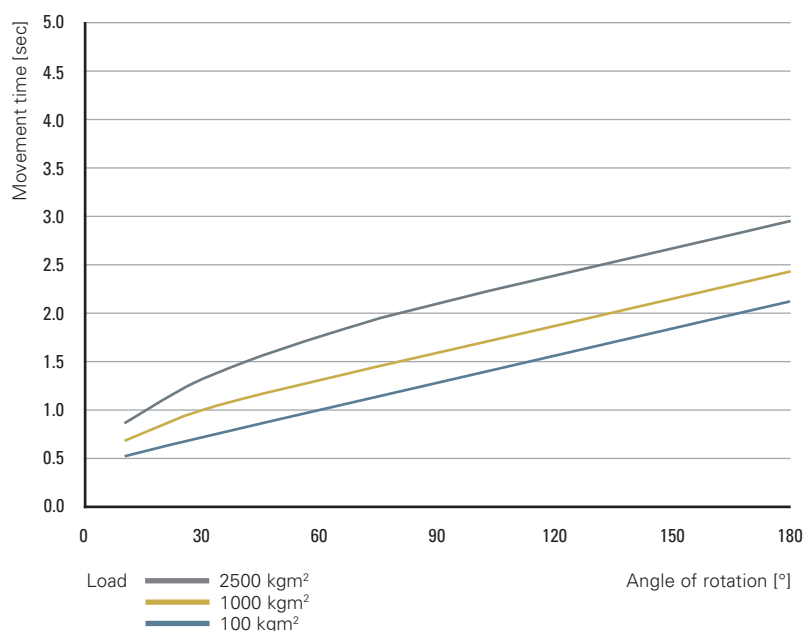
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## LOAD DATA (for the output flange)

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

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

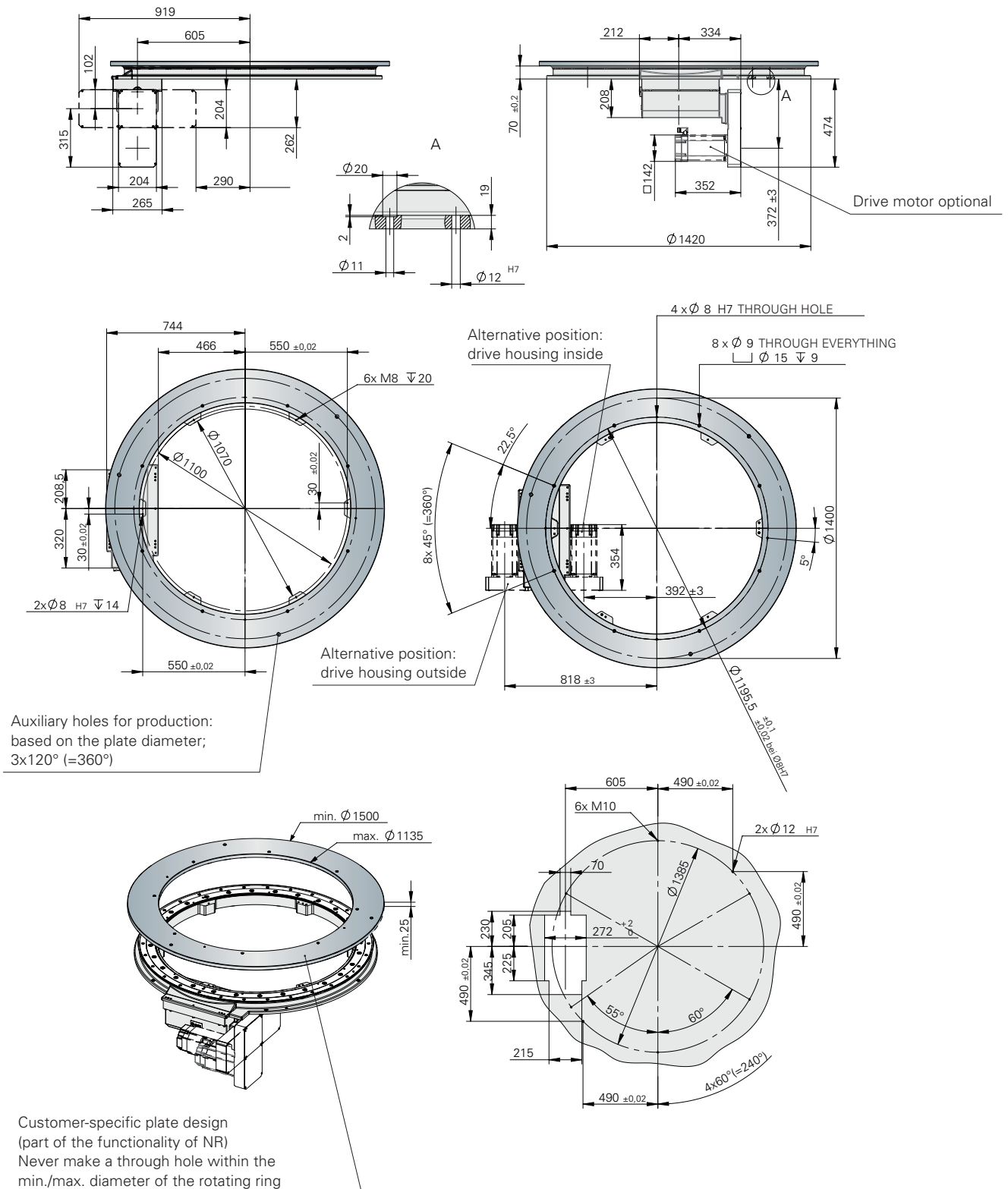
## TIMING DIAGRAM



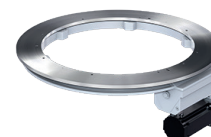
The mass moment of inertia of the aluminium rotary ring in standard dimensions is 22.5 kgm².

## 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.



**Attention:** When the rotary table is recessed in the base plate, the pocket must be 15 mm larger than the outer contour of the table.  
Please note that unmachined cast surfaces of the housing are tolerated according to DIN ISO 8062 GTB17.



# NR 2200Z

## GENERAL INFORMATION

- Maximum recommended equipment diameter  $D_{tp}$ : approximately 4400 mm (with consulting from WEISS larger diameters are possible)

## TECHNICAL DATA

$n_{2 \text{ Max}}$	Max. output speed:	9 1/min
$i_{\text{tot}}$	Overall gear ratio:	Level K: 220 Level G: 440
	Indexing precision:	24 arcsec ( $\pm 12''$ )
$A_r$	Axial run-out of the drive flange:	(at $\varnothing 1990$ mm) 0.08 mm
$A_r$	Axial run-out, including the rotary ring:	(at $\varnothing 2200$ 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

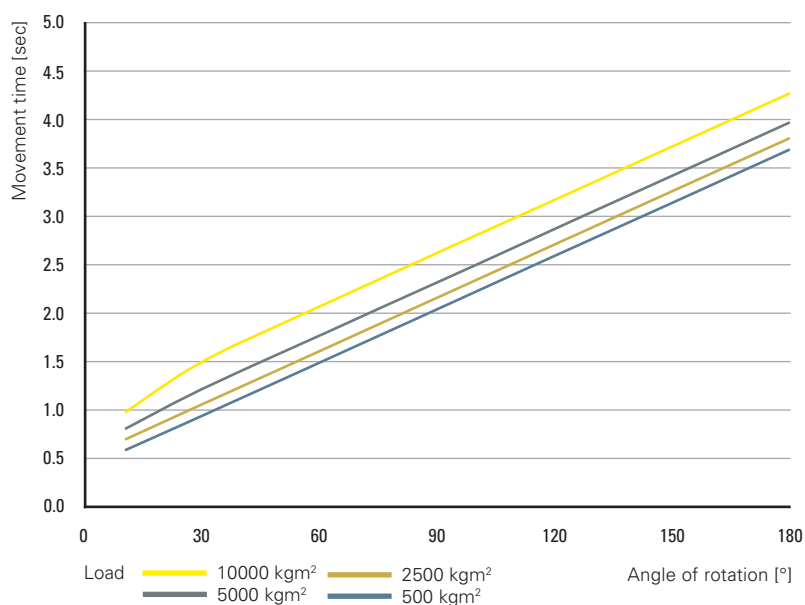
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## LOAD DATA (for the output flange)

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

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

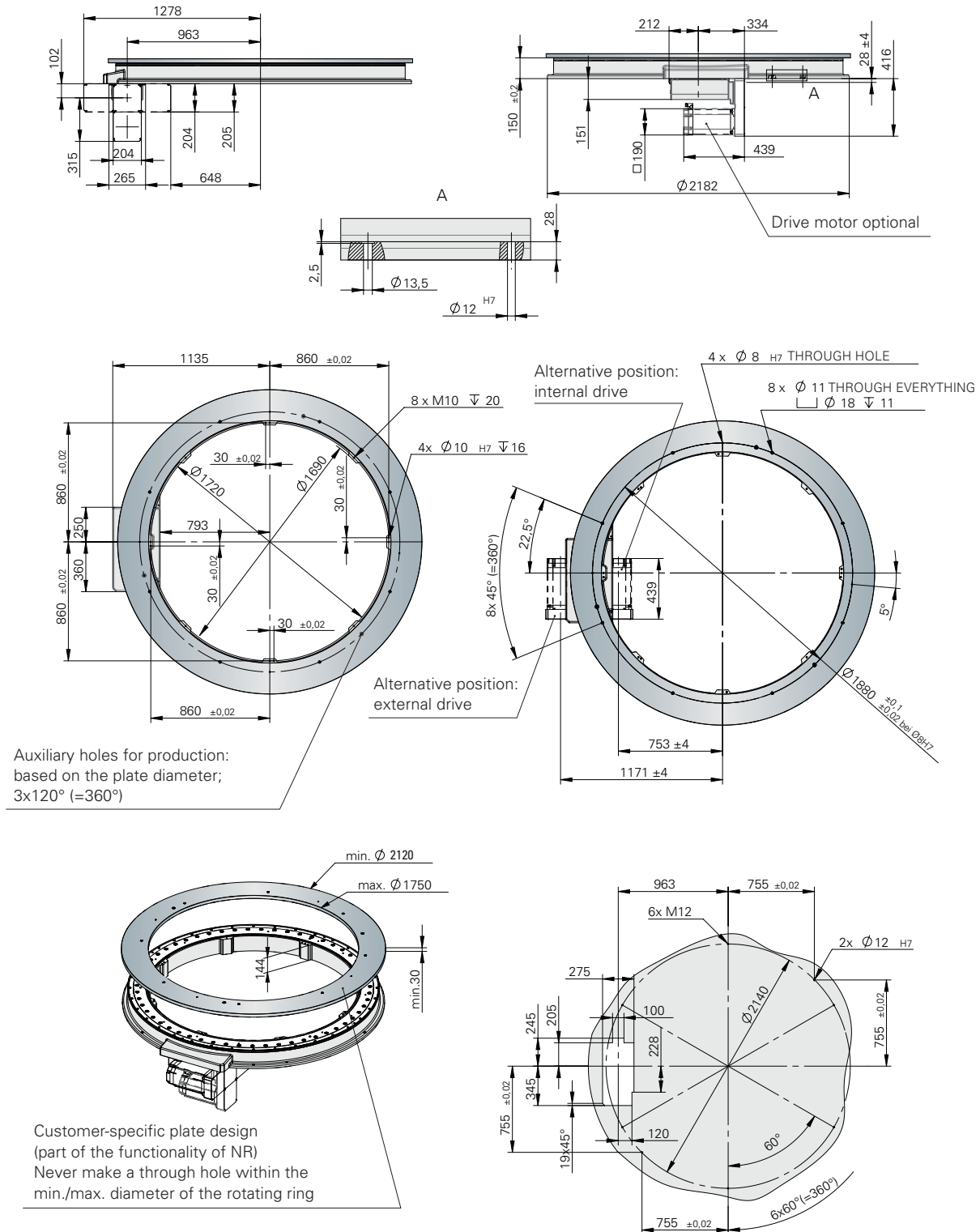
## TIMING DIAGRAM



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.



**Attention:** When the rotary table is recessed in the base plate, the pocket must be 15 mm larger than the outer contour of the table.  
Please note that unmachined cast surfaces of the housing are tolerated according to DIN ISO 8062 GTB17.



INSPIRING PEOPLE **GREAT SOLUTIONS**

**WEISS GMBH**

Siemensstrasse 17 74722 Buchen Germany

Phone +49 6281 5208-0 Fax +49 6281 5208-99

[info@weiss-world.com](mailto:info@weiss-world.com)

[weiss-world.com](http://weiss-world.com)

**Disclaimer**

The WEISS product catalogue has been compiled with the greatest of care. Nonetheless, the details given are only for non-binding general information and do not replace in-depth individual consulting for a purchase decision. WEISS GmbH assumes no liability for the correctness, completeness, quality of the information provided nor that it is up to date. Liability for material defects and deficiencies in title pertaining to the information, in particular for its correctness, freedom from third-party intellectual property rights, completeness and usability is excluded – except in cases of intent or fraud. WEISS GmbH shall be freed from all other liability, unless it is mandatorily liable pursuant to the German Product Liability Law for intentional or fraudulent action or for a breach of significant contractual duties. Liability due to a breach of significant contractual duties is restricted to typical, foreseeable damages – except in cases of intent or gross negligence

**Copyright**

© WEISS GmbH, Buchen, Germany. All rights reserved. All content such as texts, images and graphics, as well as arrangements thereof, are subject to protection by copyright and other laws on the protection of intellectual property. Content of this catalogue may not be copied, distributed or changed for commercial purposes. Some content is further subject to third-party copyright. The intellectual property is protected by various laws such as the industrial property rights, trademark rights, and copyright of WEISS GmbH.