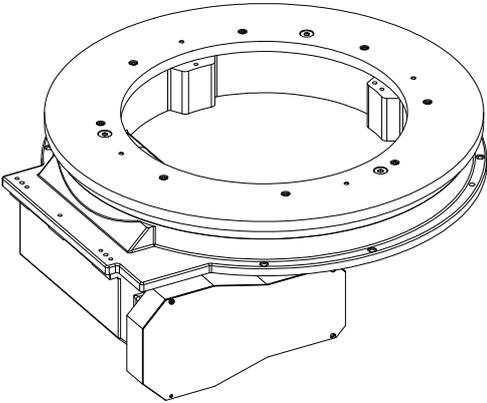
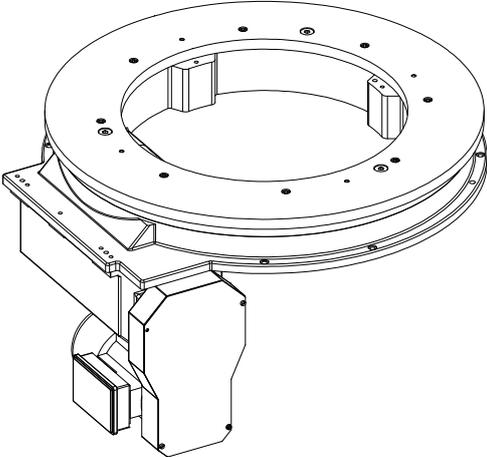


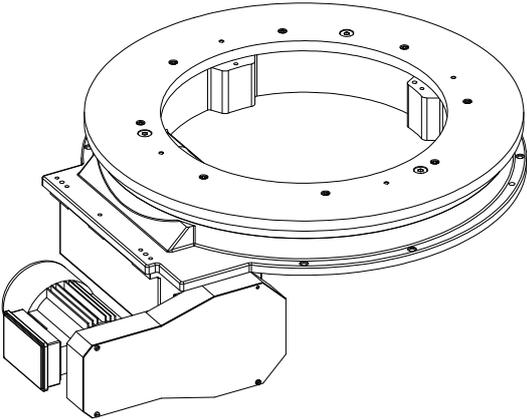
VERSIONS: DRIVE POSITION



DRIVE HOUSING INSIDE/DP 1

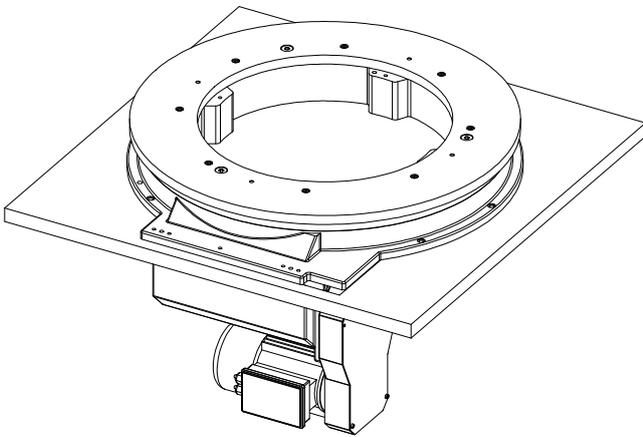


DRIVE HOUSING BELOW /DP 2

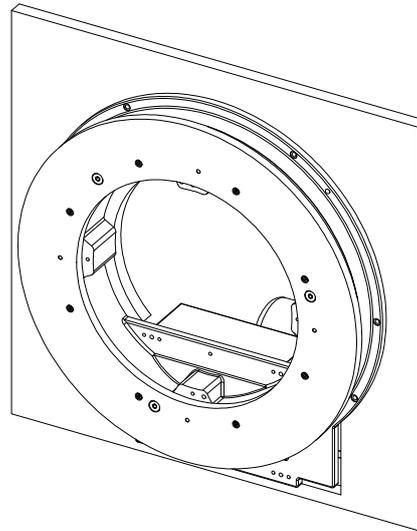


DRIVE HOUSING OUTSIDE/DP 3

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**VERSIONS: MOUNTING POSITION**


STANDARD / MP 1


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

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**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.

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**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

|                   |  |                                   |
|-------------------|--|-----------------------------------|
| $n_{2\text{Max}}$ | Max. output speed:   | 23 1/min                          |
| $i_{\text{tot}}$  | Overall gear ratio:  | Level K: 90<br>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 |
| $C_r$             | Concentricity of the output flange:  | 0.03 mm                           |
| <b>P</b>          | Parallelism between the output flange and screw-on surface of the housing: | 0.05 mm                           |
| <b>m</b>          | Total weight without rotary ring or motor:                                 | 230 kg                            |

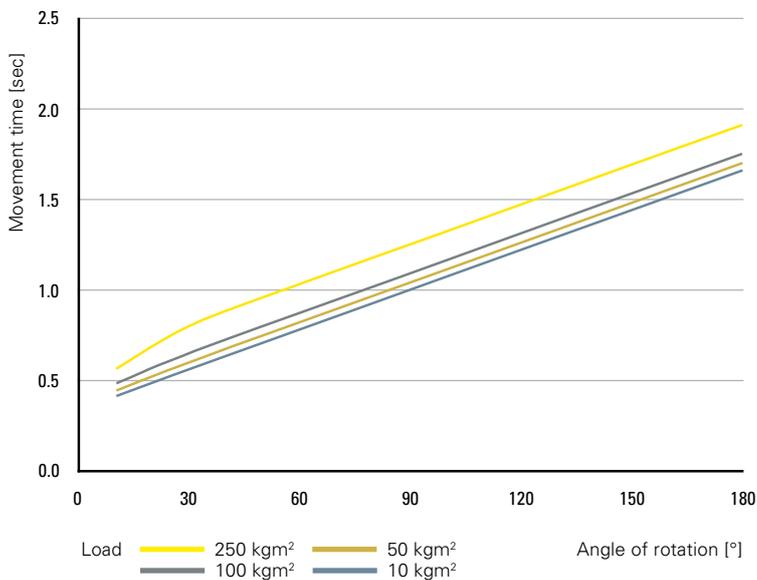
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## 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 kgm<sup>2</sup>.



# NR 1100Z



## GENERAL INFORMATION

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

## TECHNICAL DATA

|                     |  |                                    |
|---------------------|--|------------------------------------|
| $n_{2 \text{ Max}}$ | Max. output speed:   | 23 1/min                           |
| $i_{\text{tot}}$    | Overall gear ratio:  | Level K: 88<br>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 |
| $C_r$               | Concentricity of the output flange:  | 0.04 mm                            |
| <b>P</b>            | Parallelism between the output flange and screw-on surface of the housing: | 0.06 mm                            |
| <b>m</b>            | Total weight without rotary ring or motor:                                 | 310 kg                             |

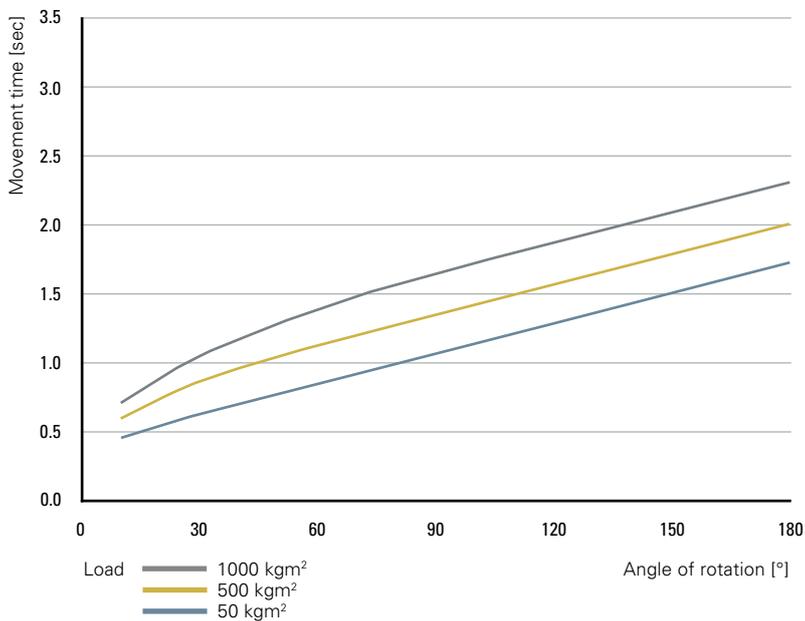
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## 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.

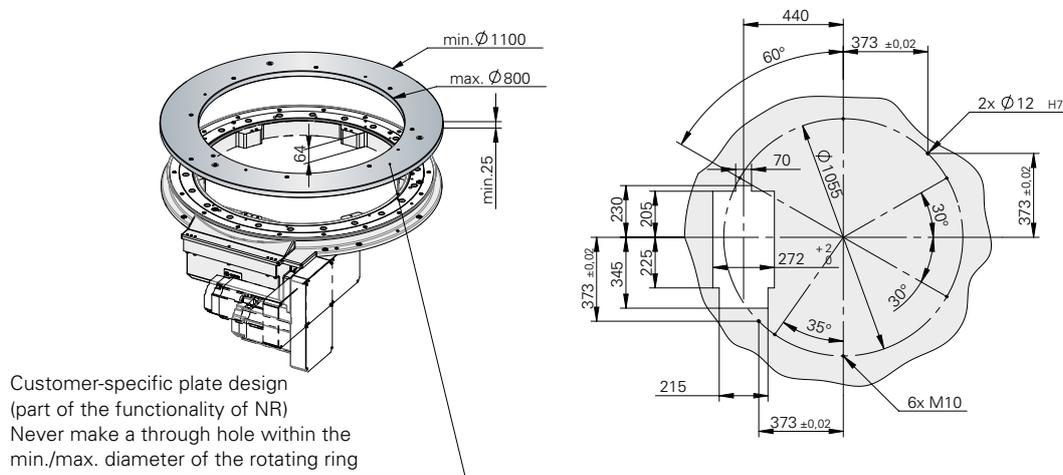
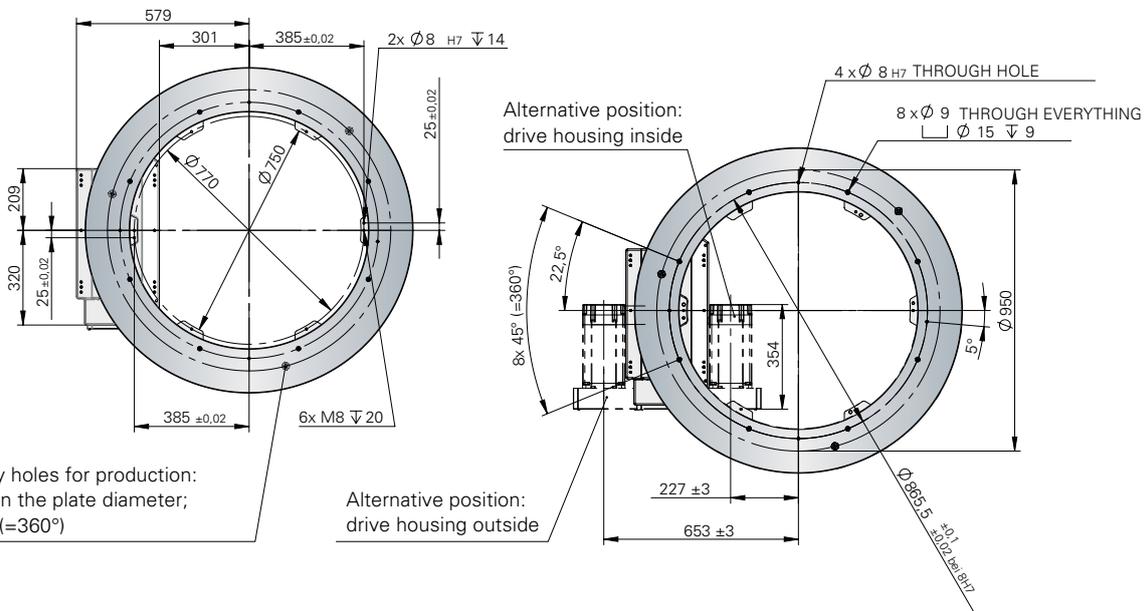
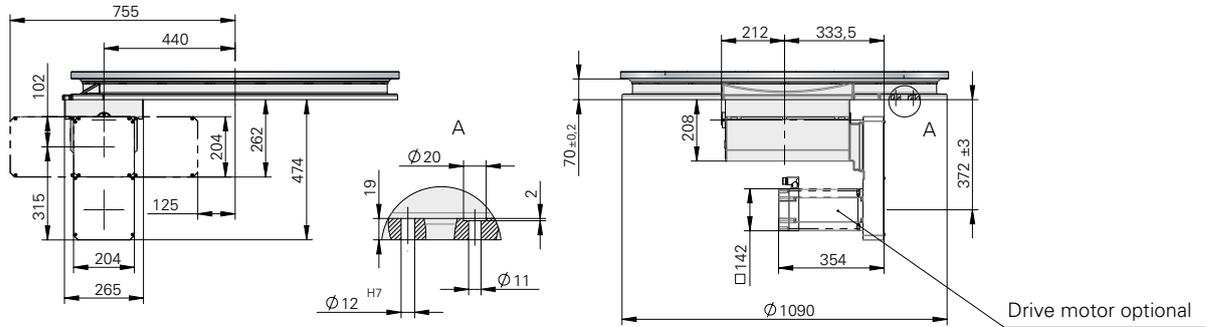
## TIMING DIAGRAM



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.



# NR 1500Z



## GENERAL INFORMATION

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

## TECHNICAL DATA

|                   |  |                                    |
|-------------------|--|------------------------------------|
| $n_{2\text{Max}}$ | Max. output speed:   | 18 1/min                           |
| $i_{\text{tot}}$  | Overall gear ratio:  | Level K: 112<br>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  |
| $C_r$             | Concentricity of the output flange:  | 0.04 mm                            |
| <b>P</b>          | Parallelism between the output flange and screw-on surface of the housing: | 0.08 mm                            |
| <b>m</b>          | Total weight without rotary ring or motor:                                 | 400 kg                             |

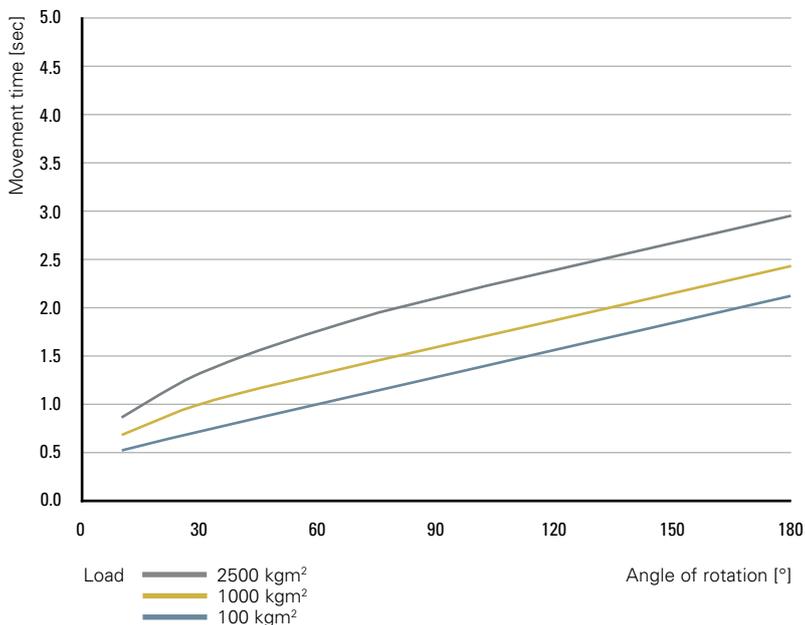
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## 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 kgm<sup>2</sup>.



# NR 2200Z



## GENERAL INFORMATION

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

## TECHNICAL DATA

|                   |  |                                    |
|-------------------|--|------------------------------------|
| $n_{2\text{Max}}$ | Max. output speed:   | 9 1/min                            |
| $i_{\text{tot}}$  | Overall gear ratio:  | Level K: 220<br>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                             |

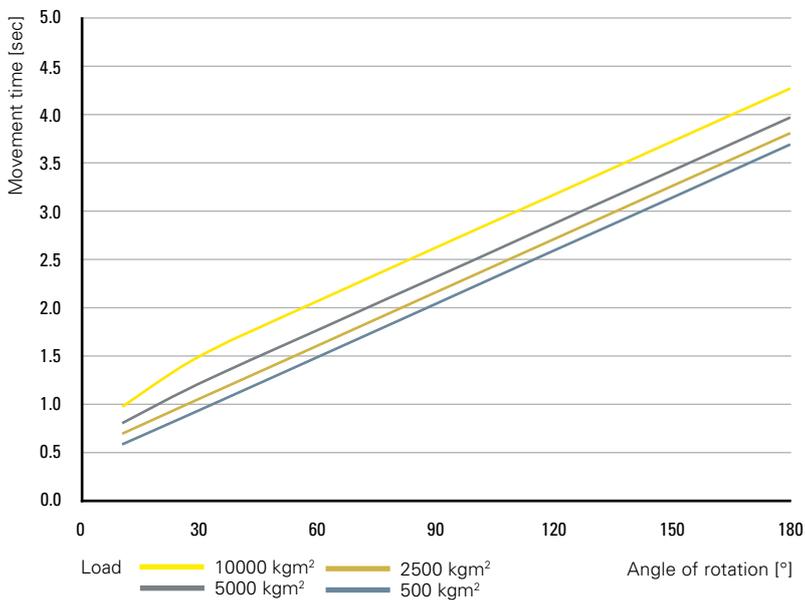
The values stated for axial run-out and concentricity can only be achieved with precise mounting surfaces.

## 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.

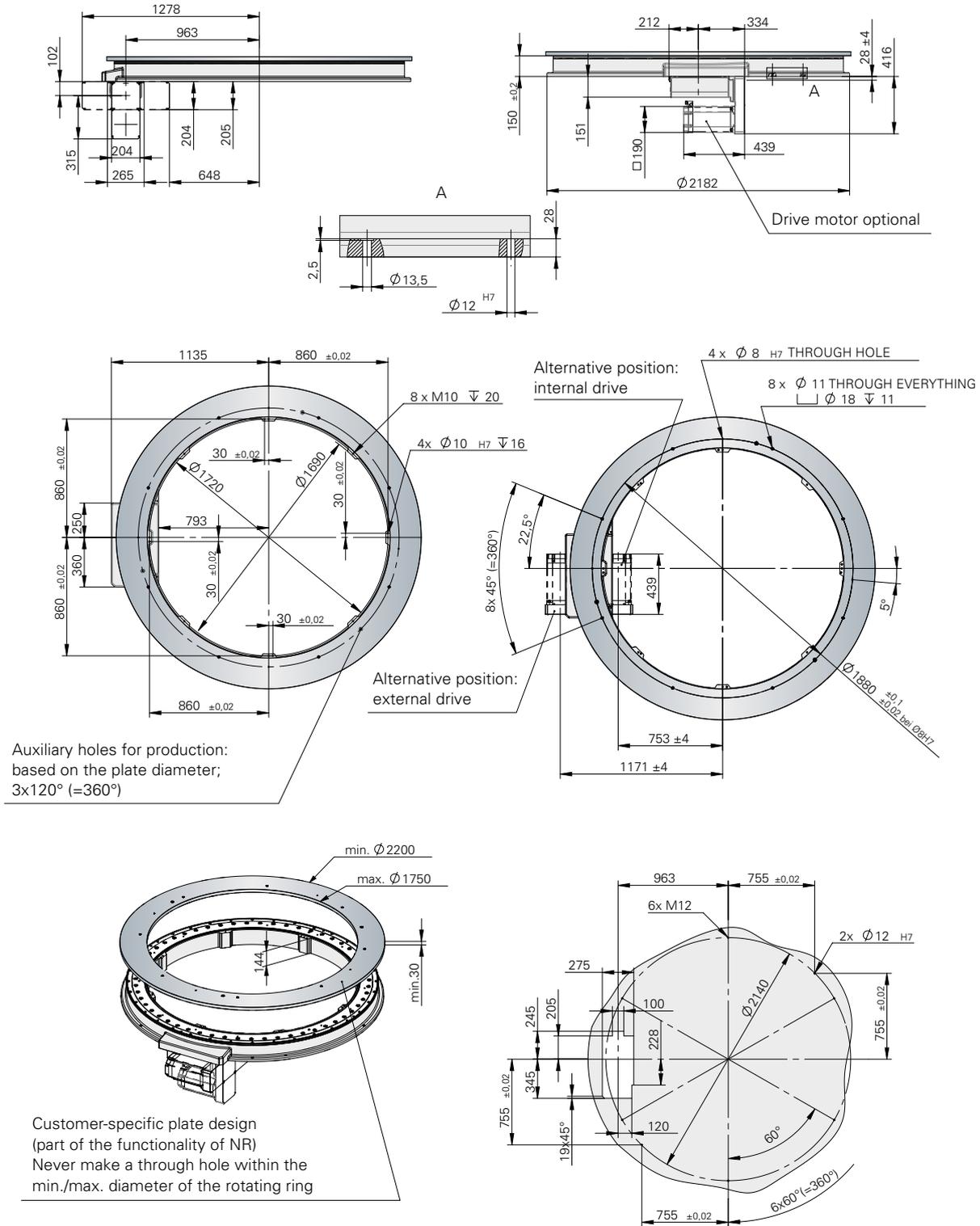
## TIMING DIAGRAM



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



# CR/TH

FREELY PROGRAMMABLE ROTARY TABLES | CR/TH HEAVY DUTY ROTARY TABLE



## CR/TH HEAVY DUTY ROTARY TABLE: MAKES LIGHT WORK OF HEAVY LOADS

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### FOR HORIZONTAL AXES

User-programmable rotary barrel drive of the TH range for horizontal loads and high breakdown torque levels. With screw-on surfaces for Buhl pinning and optional rotary encoder.

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### FREELY AND INTUITIVELY PROGRAMMABLE

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

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### THE TECHNOLOGY MAKES THE DIFFERENCE

The cam drive, positioned far toward the outside, enables the highest precision and dynamic performance.



This cooling carousel at one of Cirex's casting stations in the Netherlands has a diameter of 10 metres and weighs 30 tonnes. It is driven by a CR. A special bearing has been fitted to handle the high tilting moment as a result of the uneven load.



Flat heavy duty rotary table with large central opening. A real powerhouse. User-programmable. The flat design frees up space for ergonomically optimal workplaces.

## ADVANTAGES

- Extremely flat design
- Large central opening for optimum feed-through of supply cables
- Extremely smooth and quiet running (<70 dBA)
- Splashproof
- Covered gaskets for protection from welding sparks
- The flexible motor flange principle makes it easy to connect third-party motors
- Maximum power transmission with zero backlash thanks to multiple cam rollers that are tensioned against one another and meshed
- positioning and repeatability accuracy
- CR range with available manual hand crank
- Impressive price-performance
- Mounted on high-precision needle bearings to handle the heaviest loads in both the axial and radial direction
- Permanent status monitoring through W.A.S. 2 – WEISS Application Software mit unserem Standard-Steuerungspaket

## GENERAL INFORMATION

- CR/TH heavy duty rotary indexing tables are user-programmable
- CR/TH heavy duty rotary indexing tables are "lubricated for life"!
- Freely accessible square shaft available for attaching a hand-wheel or hand crank (except on CR0400 model).

## OPTIONS

- Possible installation location: vertical rotary axis (please consult WEISS for overhead or other installation positions).
- Additional rotary encoder option: standard manufacturer Heidenhain, type ROQ 425 with the EnDat 2.1 interface (other types or manufacturers available on request).
- 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.
- Standard colour: RAL7035 (other colours available on request)