

Technology that inspires



# PRODUCT RANGE

Mechanics | Software | Electronics



Excerpt of the WEISS Product Range

## TR ROTARY INDEXING RING



fixed speed

4

I would like to commission my installation quickly and efficiently



3

I require machine frames, mounting bases or custom equipment



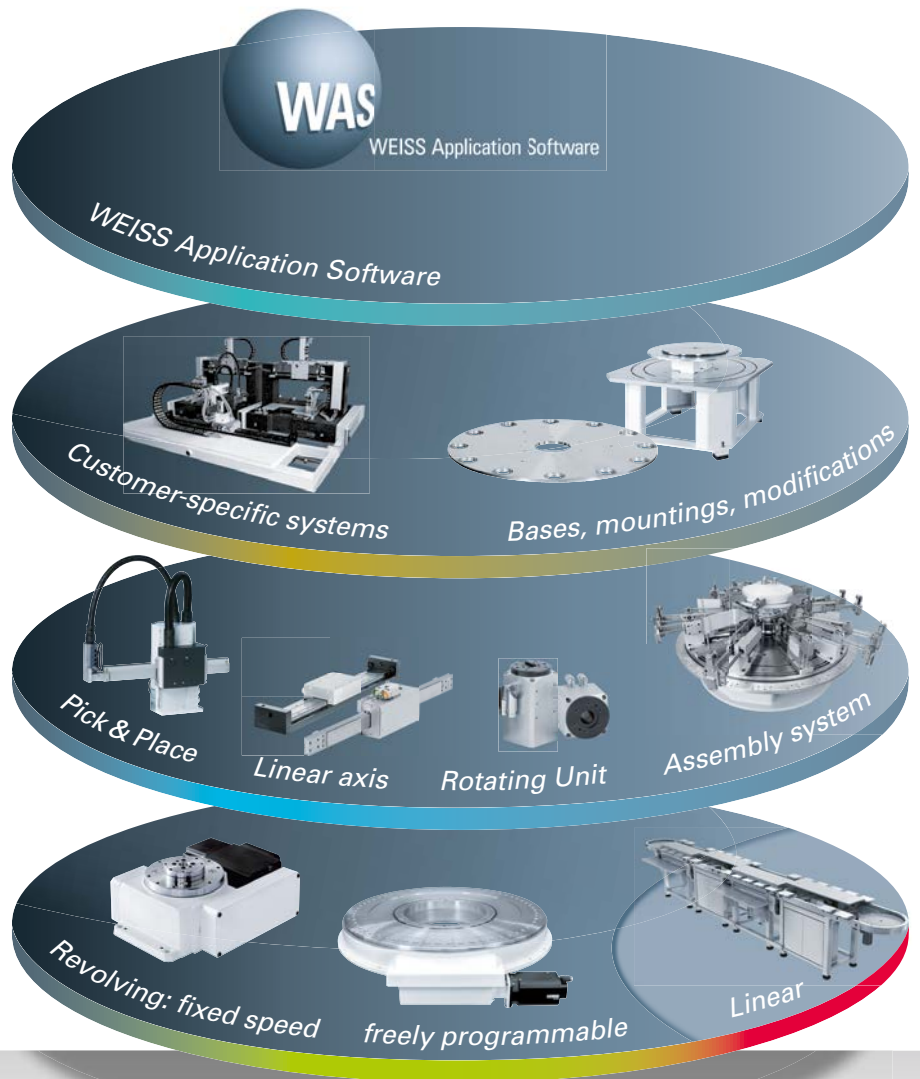
2

I require handling components



1

My transport is...



## Four steps to perfect automation



**Fixed position rotary indexing tables**

TC rotary indexing table  
TR rotary indexing ring



TC



TR

**User-programmable rotary indexing tables**

NC rotary indexing table NR rotary indexing ring  
CR/TH heavy duty ring TO torque rotary indexing table  
TW rotary indexing table



NC



NR



CR



TO



TW

**Linear assembly system**

LS 280



LS

**Handling module**

HP Pick&Place HL Linear axis  
HG/HN Linear axes ST/SW rotary unit  
SH Lifting-rotating unit PM Pick-o-Mat



HP



HL

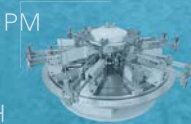
HG/HN



ST/SW



SH



PM

**Customer specific solutions**

SR/SK indexing machine bases  
Additional indexing plate



Plates



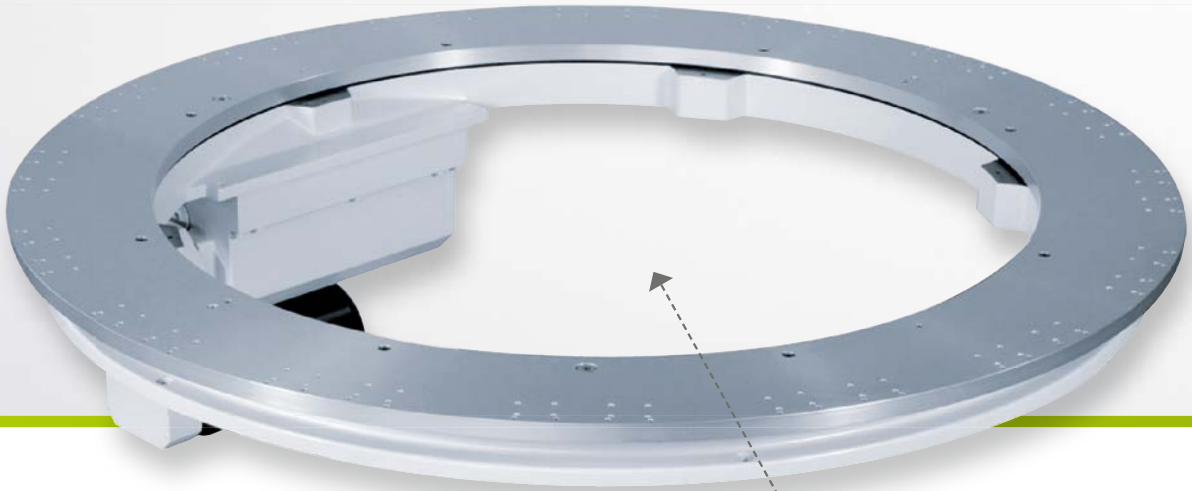
SK

**WAS-Software**

WEISS Application Software (WAS)



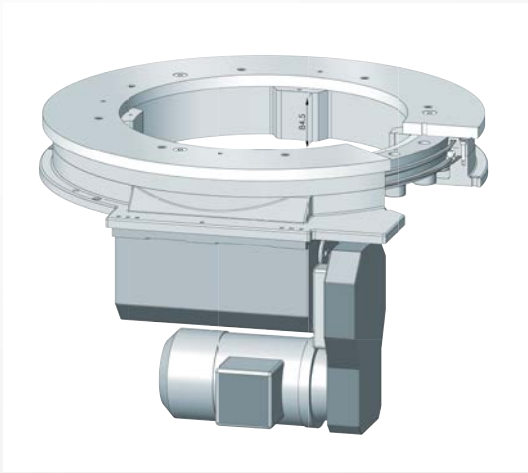
WAS



The TR with large through hole. Making sure everything that needs to fit does fit.

## TR rotary indexing ring: New application possibilities

Rotary indexing ring 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.



Custom dimensions available: The diameter and thickness of the rotating aluminium ring can be adjusted to your own specifications.



The TR full solution: Tailor-made electrical accessories. Control card, electronic protection or frequency converter.

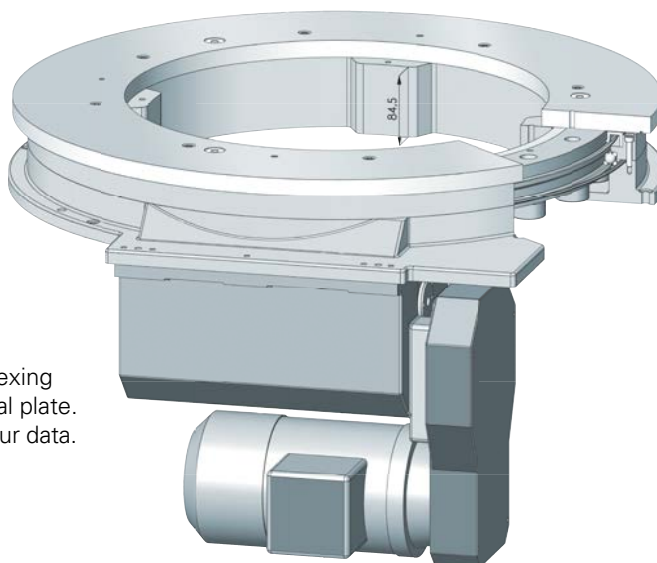


Our CR heavy duty ring range is available for heavy loads.

### Advantages at a glance

- Ring-shaped rotary indexing 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
- The diameter and thickness of the rotating aluminium ring can be adjusted to your own specifications
- Available as a user-programmable NR-version (please also see the „User-programmable rotary indexing tables“ section)
- NR version with absolute measuring system
- Simplest control system, identical to our rotary indexing tables
- Excellent price-performance
- Appealing design

# TR 750



The scope of delivery of the rotary indexing table does not include the additional dial plate. It will be calculated in accordance to your data.

## Inertia Loading

Step		s	a	b	c	d	e	f	g	h
<b>Indexing</b>										
4	$J_{max}$	-	<b>3.4</b>	<b>9.9</b>	<b>15.2</b>	<b>32.2</b>	<b>58.9</b>	<b>86.9</b>	<b>218.5</b>	<b>327</b>
	$t_s$	-	0.42	0.53	0.66	0.81	1.01	1.26	1.94	2.48
6	$J_{max}$	-	<b>12</b>	<b>22</b>	<b>36</b>	<b>57</b>	<b>90</b>	<b>144</b>	<b>345</b>	<b>560</b>
	$t_s$	-	0.42	0.53	0.66	0.81	1.01	1.26	1.94	2.48
8	$J_{max}$	-	<b>19</b>	<b>31</b>	<b>49</b>	<b>78</b>	<b>120</b>	<b>195</b>	<b>460</b>	<b>750</b>
	$t_s$	-	0.42	0.53	0.66	0.81	1.01	1.26	1.94	2.48
10	$J_{max}$	-	<b>31</b>	<b>50</b>	<b>79</b>	<b>125</b>	<b>190</b>	<b>305</b>	<b>720</b>	<b>1170</b>
	$t_s$	-	0.40	0.50	0.62	0.77	0.96	1.20	1.85	2.35
12	$J_{max}$	<b>18</b>	<b>45</b>	<b>72</b>	<b>112</b>	<b>175</b>	<b>270</b>	<b>425</b>	<b>1015</b>	<b>1650</b>
	$t_s$	0.27	0.40	0.50	0.62	0.77	0.96	1.20	1.85	2.35
16	$J_{max}$	<b>20</b>	<b>57</b>	<b>90</b>	<b>140</b>	<b>190</b>	<b>335</b>	<b>530</b>	<b>1260</b>	<b>2045</b>
	$t_s$	0.26	0.39	0.48	0.60	0.74	0.92	1.16	1.78	2.27
20	$J_{max}$	<b>29</b>	<b>72</b>	<b>115</b>	<b>175</b>	<b>275</b>	<b>420</b>	<b>665</b>	<b>1575</b>	<b>2560</b>
	$t_s$	0.26	0.39	0.48	0.60	0.74	0.92	1.16	1.78	2.27
24	$J_v$	<b>35</b>	<b>85</b>	<b>135</b>	<b>210</b>	<b>330</b>	<b>505</b>	<b>800</b>	<b>1890</b>	<b>3070</b>
	$t_s$	0.26	0.39	0.48	0.60	0.74	0.92	1.16	1.78	2.27
30	$J_{max}$	<b>35</b>	<b>110</b>	<b>170</b>	<b>265</b>	<b>410</b>	<b>635</b>	<b>1000</b>	<b>2365</b>	<b>3840</b>
	$t_s$	0.26	0.39	0.48	0.60	0.74	0.92	1.16	1.78	2.27

$J$  = max. admissible mass inertia loading (kgm<sup>2</sup>)  $t_s$  = cycle time (seconds). The time from signal "start" to message "indexer locked" is approx. 80 – 130 ms longer than the above cycle time, the exact time will depend on the motor, the speed of PLC and the optimization settings. **EF2** - control system for brake wear reduction recommended (see page 58).

## Load data (for indexing ring)

$F_N$ : vertical force on the locked ring <b>3500 N</b>	$M_k$ : permanent tilting moment acting on the locked ring <b>750 Nm</b>
$T_R$ : permanent tangential moment acting on the locked ring <b>2500 Nm</b>	$F_R$ : permanent radial force acting on the locked ring <b>7000 N</b>

max. central load on the indexer at  $M_k = 0$  Nm and  $F_R = 0$  N on demand. Combined loads only after inspection by WEISS.

# TR 750

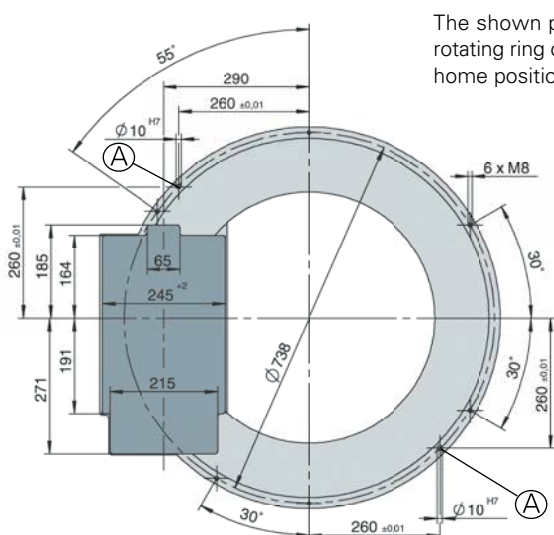
## Technical data

**Dial ring inside diameter:** Max. 490 mm  
**Dial ring outside diameter:** Min. 750 mm  
**Surface of the dial ring:** Anodized  
**Direction:** Clockwise - counter clockwise or reciprocating  
**Cycle rate:** Up to approx. 120 cycles/min, depending on inertia loading and number of stops  
**Voltage:** 230 / 400 V 50 Hz special voltages upon request  
**Weight:** Approx. 230 kg  
**Mounting position:** Dial ring horizontal

**Indexing precision (degree seconds):** ± 18" (Higher indexing precision upon request)  
**Indexing precision in radian measurement:** ± 0.033 mm (at Ø 750 mm)  
**Max. flatness of ring:** \* 0.05 mm (at Ø 750 mm)  
**Max. run out:** \* 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)

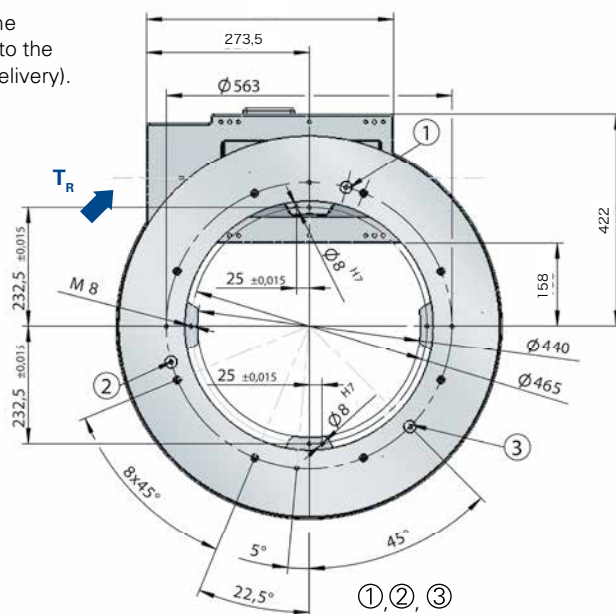
\*Attention! In order to reach the above tolerances, please ensure that the flatness of the mounting plate is accurate.

## Assembly hole and bore pattern



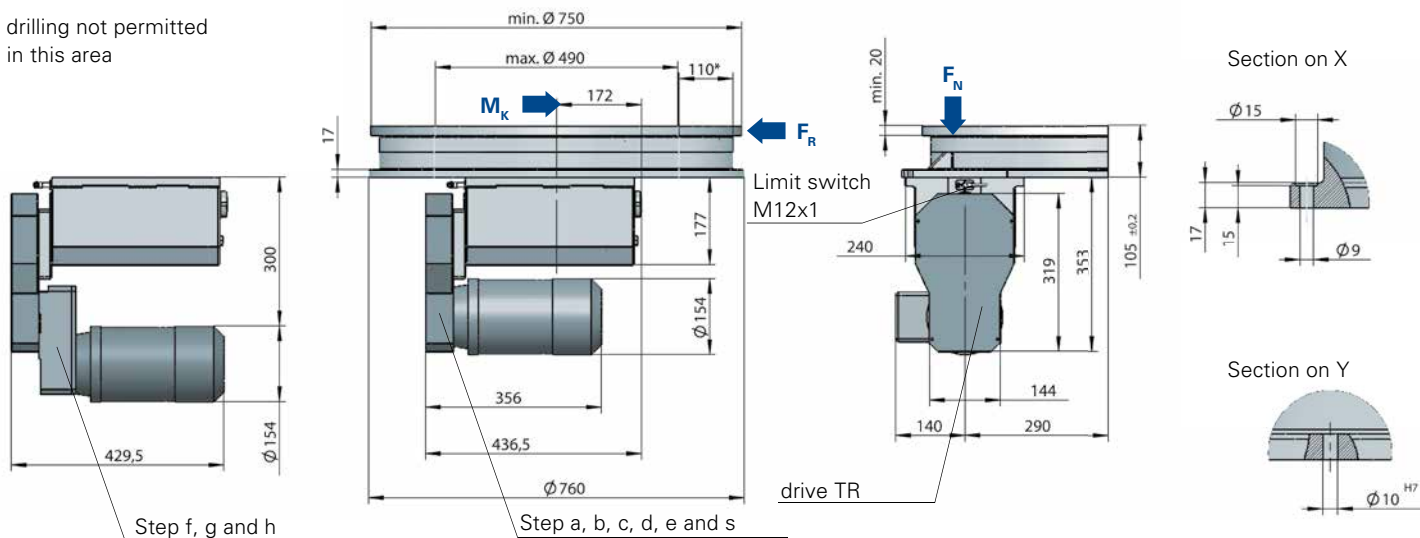
Ⓐ Two fit bores for pinning the cast iron ring onto the base plate.

The shown position of the rotating ring corresponds to the home position (state of delivery).

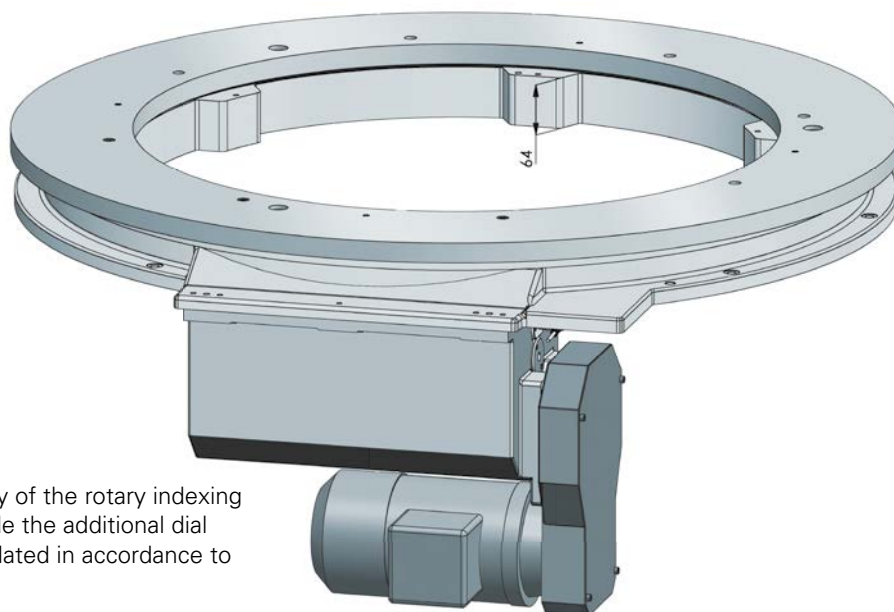


①, ②, ③ additional threads at Ø 563 mm for the production of the dial plate, depending of outer diameter Ø 750 mm.

\* drilling not permitted in this area



# TR 1100



The scope of delivery of the rotary indexing table does not include the additional dial plate. It will be calculated in accordance to your data.

Step		s	a	b	c	d	e	f	g	h	i
<b>Indexing</b>											
4	$J_{max}$	-	-	<b>11.3</b>	<b>18.8</b>	<b>41.4</b>	<b>57.5</b>	<b>92.5</b>	<b>177.6</b>	<b>295.6</b>	<b>443.3</b>
	$t_s$	-	-	0.53	0.59	0.82	0.90	1.15	1.41	2.16	2.75
6	$J_{max}$	-	<b>13</b>	<b>34</b>	<b>43</b>	<b>92</b>	<b>114</b>	<b>190</b>	<b>290</b>	<b>675</b>	<b>1010</b>
	$t_s$	-	0.42	0.53	0.59	0.82	0.90	1.15	1.41	2.16	2.75
8	$J_{max}$	-	<b>26</b>	<b>48</b>	<b>61</b>	<b>126</b>	<b>155</b>	<b>255</b>	<b>385</b>	<b>925</b>	<b>1510</b>
	$t_s$	-	0.42	0.53	0.59	0.82	0.90	1.15	1.41	2.16	2.75
10	$J_{max}$	-	<b>42</b>	<b>80</b>	<b>100</b>	<b>185</b>	<b>245</b>	<b>405</b>	<b>610</b>	<b>1455</b>	<b>2365</b>
	$t_s$	-	0.39	0.51	0.56	0.78	0.86	1.09	1.33	2.05	2.61
12	$J_{max}$	<b>21</b>	<b>62</b>	<b>116</b>	<b>143</b>	<b>260</b>	<b>350</b>	<b>495</b>	<b>860</b>	<b>2045</b>	<b>3325</b>
	$t_s$	0.29	0.39	0.51	0.56	0.78	0.86	1.09	1.33	2.05	2.61
16	$J_{max}$	<b>38</b>	<b>86</b>	<b>146</b>	<b>180</b>	<b>355</b>	<b>435</b>	<b>715</b>	<b>1070</b>	<b>2540</b>	<b>4125</b>
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
20	$J_{max}$	<b>57</b>	<b>109</b>	<b>185</b>	<b>225</b>	<b>450</b>	<b>550</b>	<b>895</b>	<b>1340</b>	<b>3175</b>	<b>5160</b>
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
24	$J_v$	<b>65</b>	<b>135</b>	<b>225</b>	<b>275</b>	<b>540</b>	<b>660</b>	<b>1075</b>	<b>1605</b>	<b>3810</b>	<b>6190</b>
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
30	$J_{max}$	<b>90</b>	<b>170</b>	<b>280</b>	<b>345</b>	<b>675</b>	<b>825</b>	<b>1345</b>	<b>2010</b>	<b>4765</b>	<b>7740</b>
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
36	$J_{max}$	<b>110</b>	<b>205</b>	<b>340</b>	<b>415</b>	<b>815</b>	<b>995</b>	<b>1620</b>	<b>2415</b>	<b>5720</b>	<b>9290</b>
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52

$J$  = max. admissible mass inertia loading (kgm<sup>2</sup>)  $t_s$  = cycle time (seconds). The time from signal "start" to message "indexer locked" is approx. 80 – 130 ms longer than the above cycle time, the exact time will depend on the motor, the speed of PLC and the optimization settings. **EF2** - control system for brake wear reduction recommended (see page 58).#

### Load data (for indexing ring)

$F_N$ : vertical force on the locked ring <b>6000 N</b>	$M_K$ : permanent tilting moment acting on the locked ring <b>2500 Nm</b>
$T_R$ : permanent tangential moment acting on the locked ring <b>3500 Nm</b>	$F_R$ : permanent radial force acting on the locked ring <b>12000 N</b>

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



# TR 1100

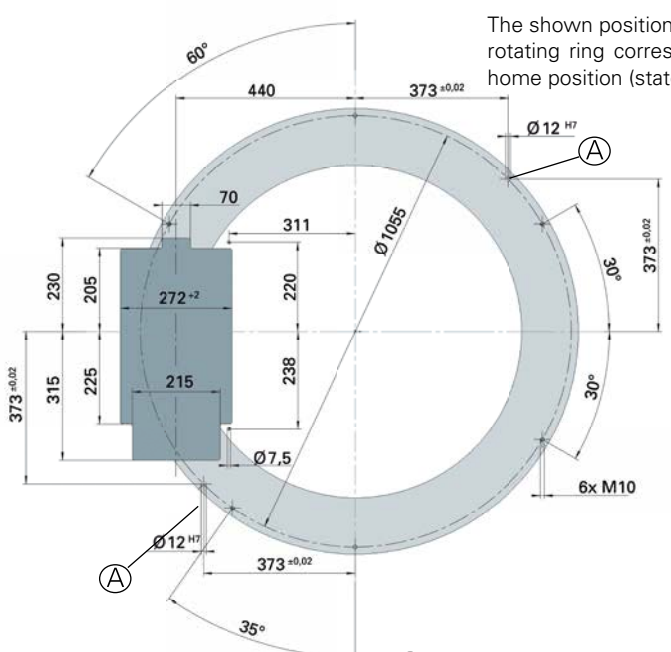
## Technical data

**Dial ring inside diameter:** Max. 800 mm  
**Dial ring outside diameter:** Min. 1100 mm  
**Surface of the dial ring:** Anodized  
**Direction:** Clockwise - counter clockwise or reciprocating  
**Cycle rate:** Up to approx. 120 cycles/min, depending on inertia loading and number of stops  
**Voltage:** 230 / 400 V 50 Hz special voltages upon request  
**Weight:** Approx. 310 kg  
**Mounting position:** Dial ring horizontal

**Indexing precision (degree seconds):** ± 18" (Higher indexing precision upon request)  
**Indexing precision in radian measurement:** ± 0.048 mm (at Ø 1100 mm)  
**Max. flatness of ring:** \* 0.06 mm (at Ø 1100 mm)  
**Max. run out:** \* 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)

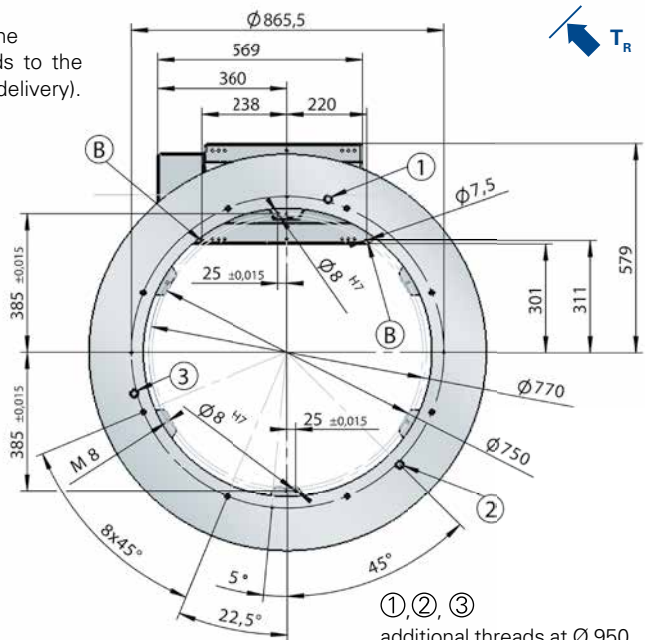
## Assembly hole and bore pattern

\*Attention! In order to reach the above tolerances, please ensure that the flatness of the mounting plate is accurate.



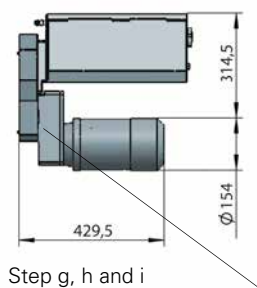
The shown position of the rotating ring corresponds to the home position (state of delivery).

Ⓐ Two fit bores for pinning the cast iron ring onto the base plate.

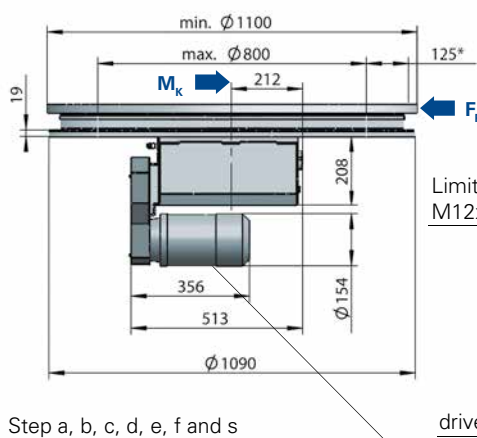


①, ②, ③ additional threads at Ø 950 mm for the production of the dial plate, depending of outer diameter Ø 1100 mm.

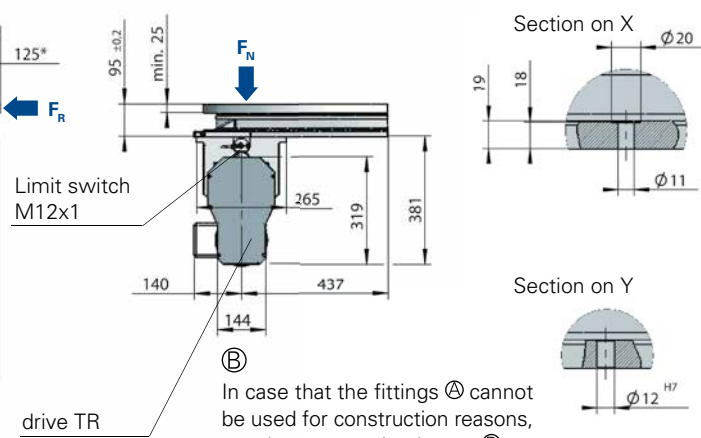
\* drilling not permitted in this area



Step g, h and i

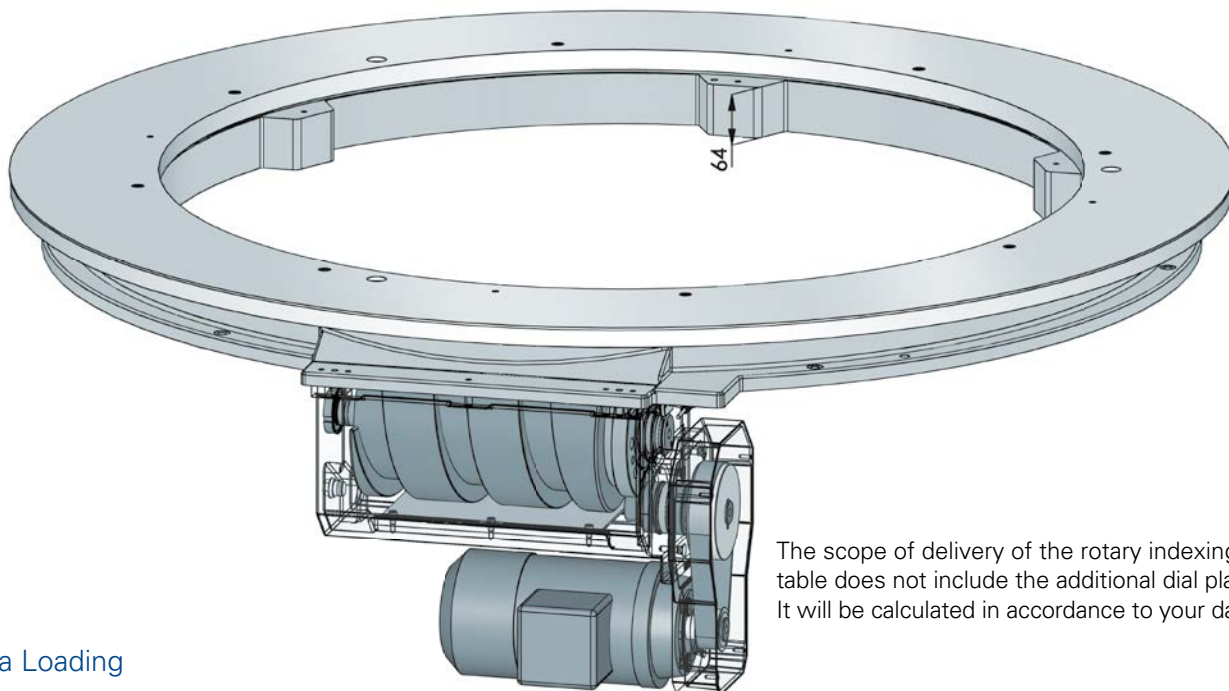


Step a, b, c, d, e, f and s



Ⓑ In case that the fittings Ⓐ cannot be used for construction reasons, so please use the bores Ⓑ as alignment. Then, go ahead with boring the casting together with the base plate and open the pin holes by rubbing.

# TR 1500



The scope of delivery of the rotary indexing table does not include the additional dial plate. It will be calculated in accordance to your data.

## Inertia Loading

Step		s	a	b	c	d	e	f	g	h	i
<b>Indexing</b>											
8	$J_{max}$	-	-	57	74	163	203	342	520	1258	1792
	$t_s$	-	-	0.53	0.59	0.82	0.90	1.15	1.41	2.16	2.75
10	$J_{max}$	-	48	100	127	265	330	545	825	1975	2395
	$t_s$	-	0.39	0.51	0.56	0.78	0.86	1.09	1.33	2.05	2.61
12	$J_{max}$	-	75	149	185	380	470	775	1165	2785	3330
	$t_s$	-	0.39	0.51	0.56	0.78	0.86	1.09	1.33	2.05	2.61
16	$J_{max}$	43	108	190	235	480	590	965	1440	3460	5325
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
20	$J_{max}$	69	140	243	301	605	740	1215	1820	4330	7040
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
24	$J_{max}$	87	172	295	365	730	890	1460	2185	5200	8455
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
30	$J_{max}$	114	221	375	460	915	1120	1830	2740	6505	10570
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
36	$J_v$	141	270	455	560	1105	1350	2200	3290	7810	12690
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52
48	$J_{max}$	324	600	995	1215	2375	2900	4720	7045	16685	27095
	$t_s$	0.28	0.38	0.49	0.54	0.75	0.83	1.05	1.29	1.98	2.52

$J$  = max. admissible mass inertia loading (kgm<sup>2</sup>)  $t_s$  = cycle time (seconds). The time from signal "start" to message "indexer locked" is approx. 80 – 130 ms longer than the above cycle time, the exact time will depend on the motor, the speed of PLC and the optimization settings. **EF2** - control system for brake wear reduction recommended (see page 58).

## Load data

$F_N$ : vertical force on the locked ring <b>8000 N</b>	$M_K$ : permanent tilting moment acting on the locked ring <b>3200 Nm</b>
$T_R$ : permanent tangential moment acting on the locked ring <b>5000 Nm</b>	$F_R$ : permanent radial force acting on the locked ring <b>16000 N</b>

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

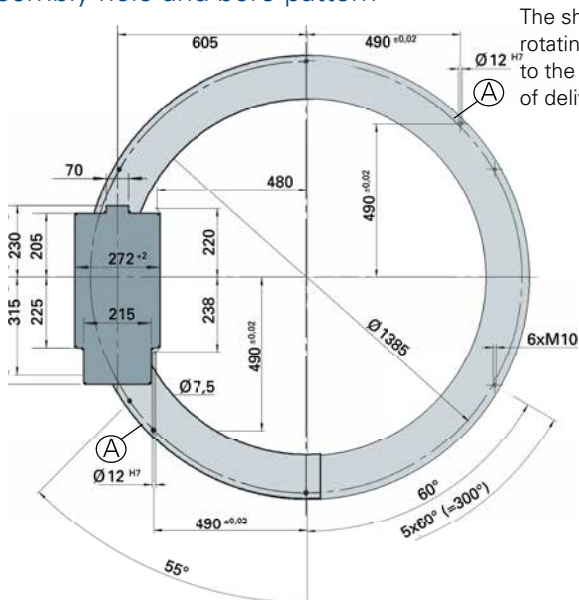
# TR 1500

## Technical data

**Dial ring inside diameter:** Max. 1135 mm  
**Dial ring outside diameter:** Min. 1500 mm  
**Surface of the dial ring:** Anodized  
**Direction:** Clockwise - counter clockwise or reciprocating  
**Cycle rate:** Up to approx. 120 cycles/min, depending on inertia loading and number of stops  
**Voltage:** 230 / 400 V 50 Hz special voltages upon request  
**Weight:** Approx. 400 kg  
**Mounting position:** Dial ring horizontal

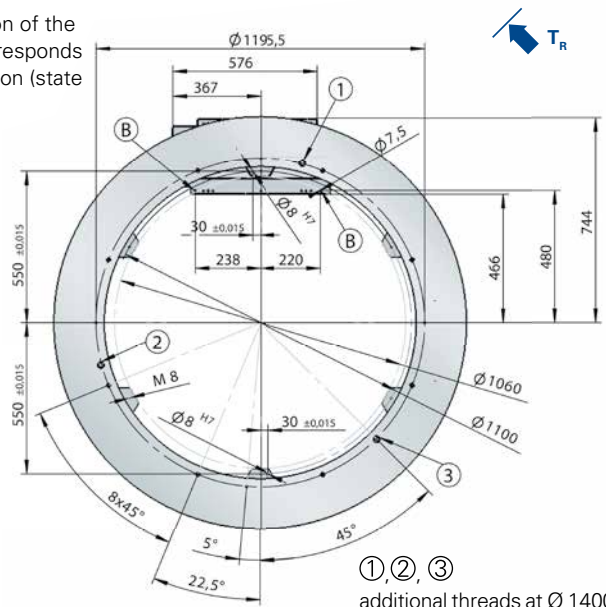
**Indexing precision (degree seconds):** ± 15" (Higher indexing precision upon request)  
**Indexing precision in radian measurement:** ± 0.055 mm (at Ø 1500 mm)  
**Max. flatness of ring:** \* 0.08 mm (at Ø 1500 mm)  
**Max. run out:** \* 0.04 mm  
**Max. parallelism of rotating plate surface to bottom housing surface:** \* 0.08 mm (at Ø 1500 mm)  
**Max. outer diameter:** 3000 mm (or following consultation)

## Assembly hole and bore pattern



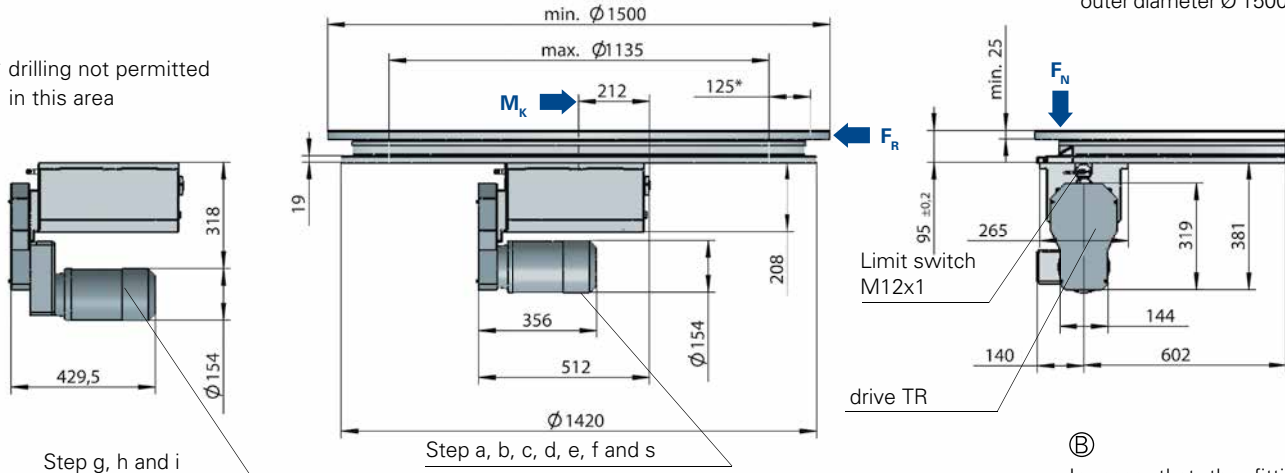
The shown position of the rotating ring corresponds to the home position (state of delivery).

Ⓐ Two fit bores for pinning the cast iron ring onto the base plate.

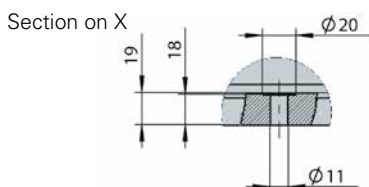


①, ②, ③ additional threads at Ø 1400 mm for the production of the dial plate, depending of outer diameter Ø 1500 mm.

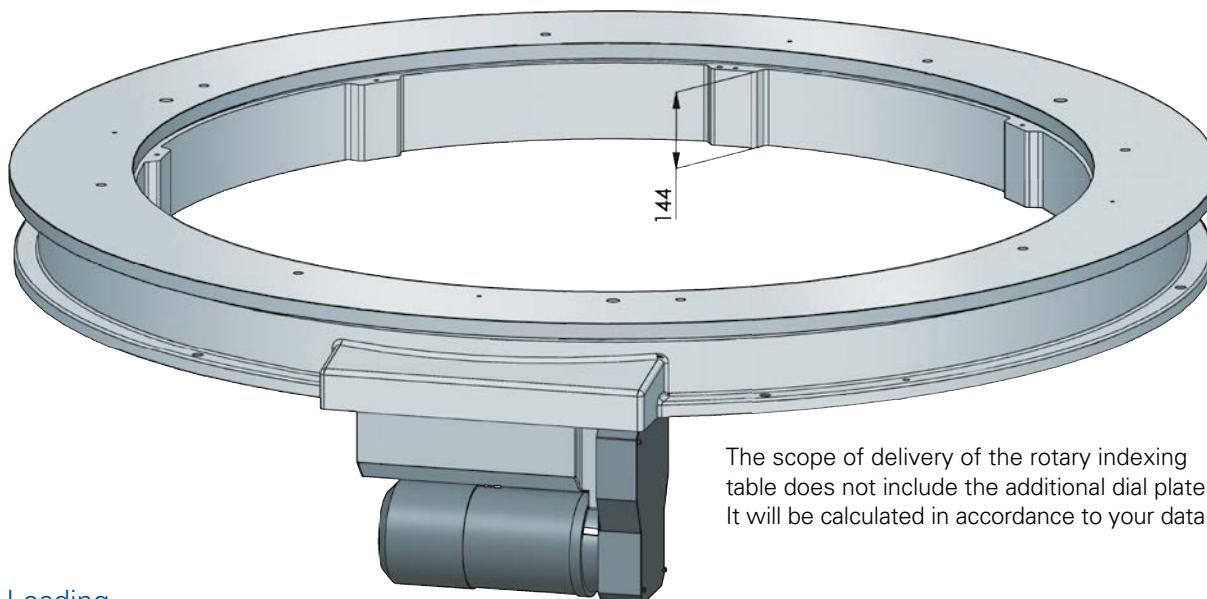
\* drilling not permitted in this area



Ⓑ In case that the fittings Ⓐ cannot be used for construction reasons, so please use the bores Ⓑ as alignment. Then, go ahead with boring the casting together with the base plate and open the pin holes by rubbing.



# TR 2200



The scope of delivery of the rotary indexing table does not include the additional dial plate. It will be calculated in accordance to your data.

## Inertia Loading

Step		a	b	c	d	e	f	g
<b>Indexing</b>								
14	<b>J<sub>max</sub></b>	-	-	-	<b>525</b>	<b>720</b>	<b>1010</b>	<b>2400</b>
	<b>t<sub>s</sub></b>	-	-	-	0.77	0.86	0.97	1.48
16	<b>J<sub>max</sub></b>	-	-	<b>420</b>	<b>995</b>	<b>1030</b>	<b>1640</b>	<b>3075</b>
	<b>t<sub>s</sub></b>	-	-	0.62	0.77	0.86	0.97	1.48
18	<b>J<sub>max</sub></b>	-	-	<b>600</b>	<b>1325</b>	<b>1370</b>	<b>2140</b>	<b>3955</b>
	<b>t<sub>s</sub></b>	-	-	0.62	0.77	0.86	0.97	1.48
20	<b>J<sub>max</sub></b>	-	<b>511</b>	<b>797</b>	<b>1550</b>	<b>1750</b>	<b>2670</b>	<b>4945</b>
	<b>t<sub>s</sub></b>	-	0.50	0.62	0.77	0.86	0.97	1.48
24	<b>J<sub>max</sub></b>	-	<b>665</b>	<b>1180</b>	<b>1805</b>	<b>2455</b>	<b>3255</b>	<b>7230</b>
	<b>t<sub>s</sub></b>	-	0.50	0.62	0.77	0.86	0.97	1.48
30	<b>J<sub>max</sub></b>	-	<b>707</b>	<b>1245</b>	<b>2010</b>	<b>2580</b>	<b>3420</b>	<b>8240</b>
	<b>t<sub>s</sub></b>	-	0.46	0.57	0.70	0.78	0.89	1.36
36	<b>J<sub>max</sub></b>	<b>465</b>	<b>900</b>	<b>1545</b>	<b>2465</b>	<b>3135</b>	<b>4155</b>	<b>9940</b>
	<b>t<sub>s</sub></b>	0.37	0.46	0.57	0.70	0.78	0.89	1.36
48	<b>J<sub>max</sub></b>	<b>762</b>	<b>1281</b>	<b>2140</b>	<b>3370</b>	<b>4165</b>	<b>5625</b>	<b>13335</b>
	<b>t<sub>s</sub></b>	0.37	0.46	0.57	0.70	0.78	0.89	1.36

J = max. admissible mass inertia loading (kgm<sup>2</sup>) t<sub>s</sub> = cycle time (seconds). The time from signal "start" to message "indexer locked" is approx. 80 – 130 ms longer than the above cycle time, the exact time will depend on the motor, the speed of PLC and the optimization settings.  
**EF2** - control system for brake wear reduction recommended (see page 58).

## Load data (for indexing ring)

<b>F<sub>N</sub></b> : vertical force on the locked ring <b>15000 N</b>	<b>M<sub>K</sub></b> : permanent tilting moment acting on the locked ring <b>4500 Nm</b>
<b>T<sub>R</sub></b> : permanent tangential moment acting on the locked ring <b>15000 Nm</b>	<b>F<sub>R</sub></b> : permanent radial force acting on the locked ring <b>30000 N</b>

max. central load on the indexer at **M<sub>K</sub>** = 0 Nm and **F<sub>R</sub>** = 0 N on demand. Combined loads only after inspection by WEISS.



# EF2 rotary table control system

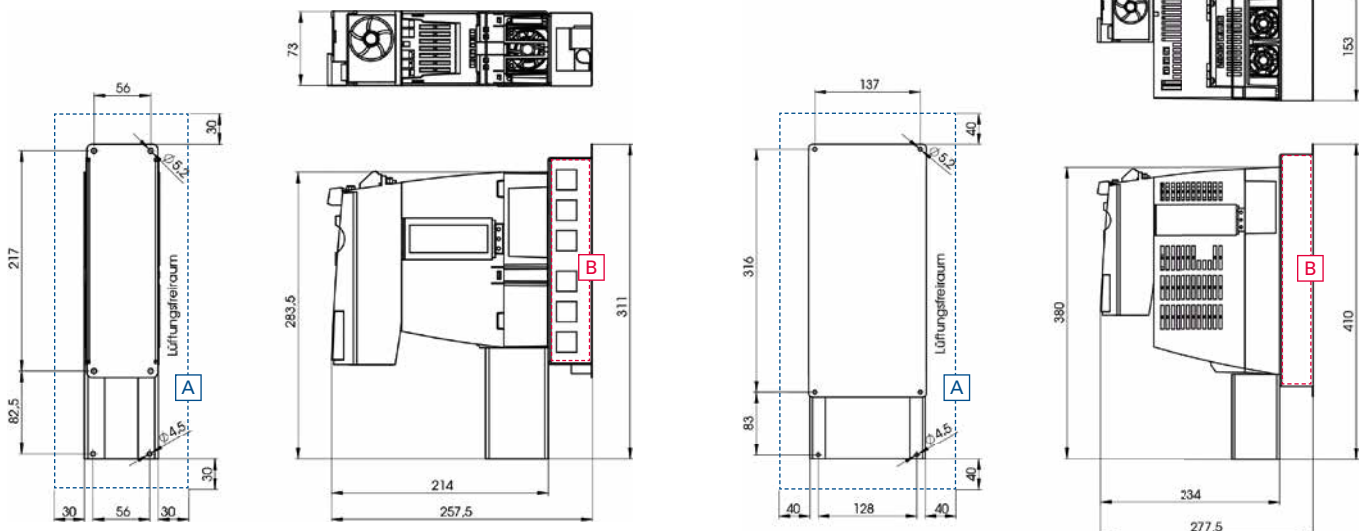
## Advantages

The EF2 rotary table control system enables fast and convenient control of rotary indexing tables of all sizes belonging to the TC and TR series. The control system is designed for operation of the TC and TR rotary indexing tables and offers the following advantages:

- Frequency converter control system designed specifically for WEISS electromechanical rotary indexing tables
- Intuitive, web-based user interface for faster commissioning
- No brake wear, soft start-up from intermediate positions is gentle on gearing
- Increased performance through fully automatic optimisation cycle
- Remote support and remote diagnostics options
- Worldwide use thanks to various mains standards
- Compact hardware (all-in-one)
- Fieldbus connection: Profibus and Profinet
- Interface: Digital I/O
- Integrated SIL2 safety function
- Additional SIL3 measures possible



## Fitting dimensions



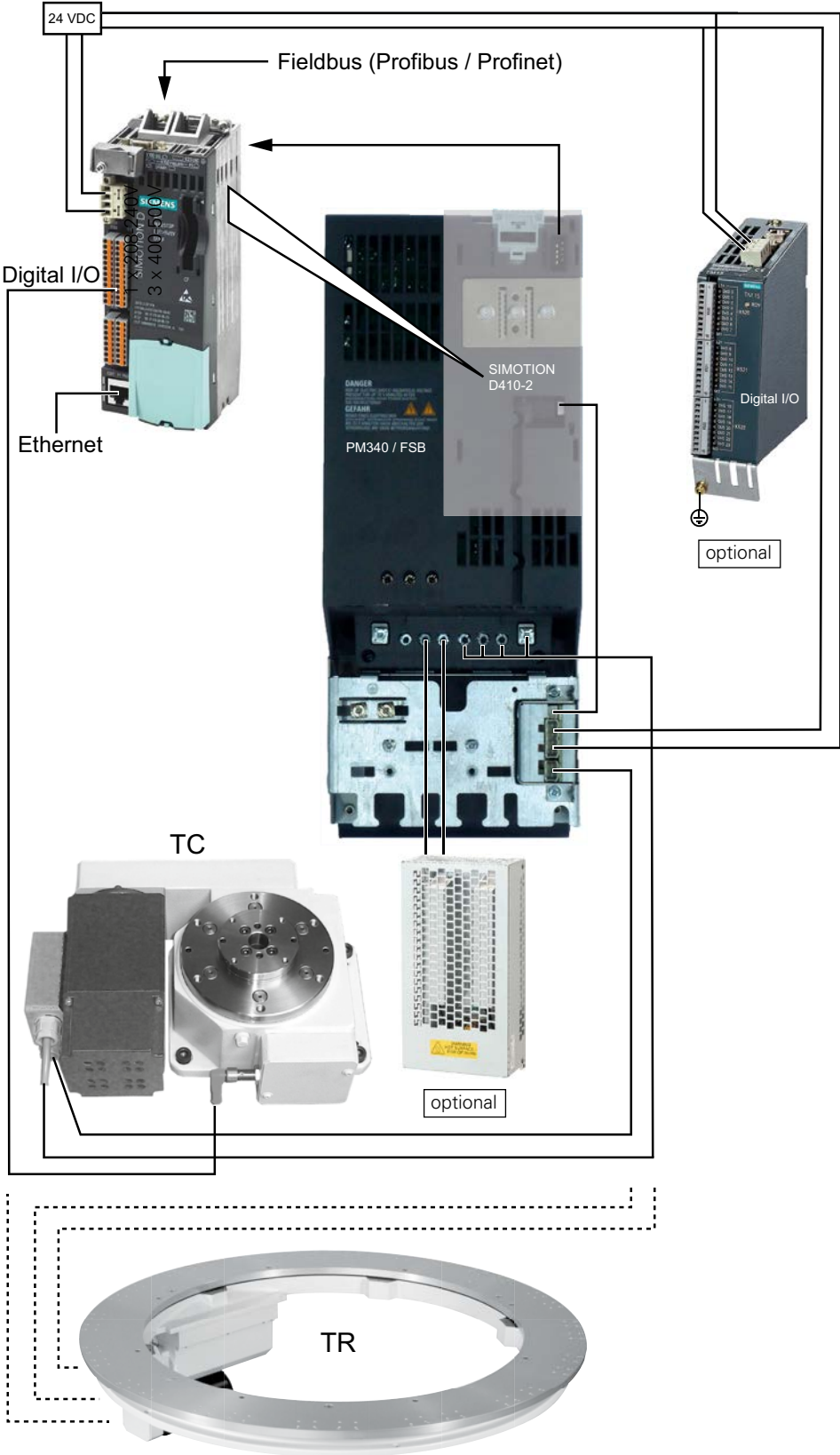
**FSA size (EF2037, EF2150)**

**FSB size (EF2220, EF2300)**

[A] Ventilation clearance

[B] Brake resistance

# Block diagram EF2



# Control card TS 004E

## Advantages

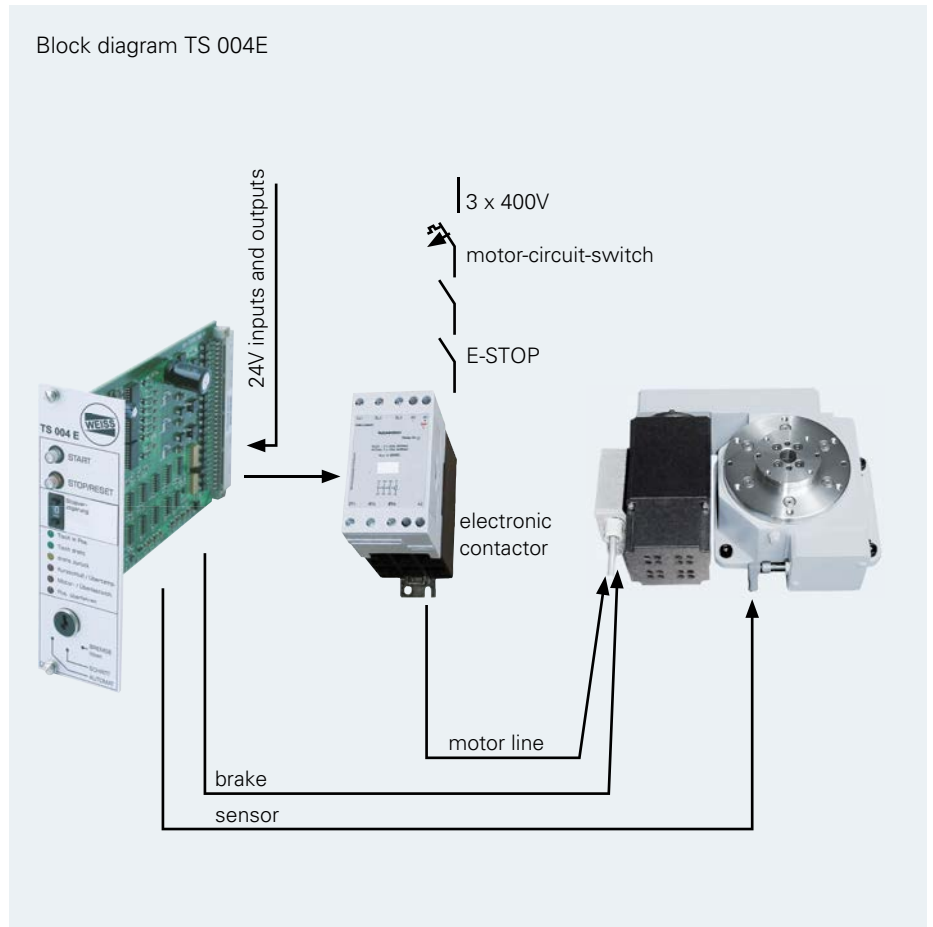
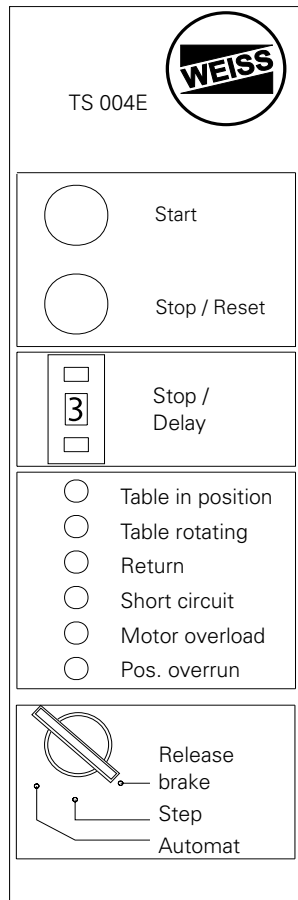
- User friendly push buttons on front panel.
- Easy to optimize the cycle time of the indexer.
- Motor protection through cycle time monitoring.
- Allows failure analysis by telephone.
- EWR: Considerable extension of the service life of the brake by reduction of the motor speed before braking

## Dimensions (L x W x H)

- Control card:  
Eurocard 100 x 160 mm  
Front plate 3HE/8TE  
Multipoint plug, 64-pin in accordance with DIN 41612 Type B
- PCB holder: 220 x 130 x 50 mm
- Housing for rear wall mounting: 235 x 135 x 67 mm
- Housing for rail mounting: 245 x 135 x 67 mm
- Housing for front panel installation: 235 x 135 x 67 mm
- Installation opening: 136 x 68 mm

## Installation options

- In a 19" rack (in conjunction with terminal PCB TS 004 K1)
- In the PCB holder
- In the protective housing





# Machine Dimensioning TR

Enquiry  Enclosure with order

Dear customer,

Thank you for your interest in our Indexing Rings. To enable us to supply you with the correct unit for your application, we kindly ask you to answer the following questions:

## Model

TR 750A  TR 1100A  TR 1500A  TR 2200A

Indexing \_\_\_\_\_  Drive on the bottom

## Switching time

Based on the calculated mass inertia, do you require:

- The shortest switching time
- A longer switching time of approx. \_\_\_\_\_ sec
- Angle of rotation \_\_\_\_\_ °
- Standing time \_\_\_\_\_ sec

## Additional Components (optional)

- Add. raised support for fixed stationary plate: H \_\_\_\_\_ mm
- Add raised support for indexing ring: H \_\_\_\_\_ mm
- Base frame model (according to chapter customer-specific solutions)

## Colour

- RAL 7035 (light grey-standard)
- Special colour RAL \_\_\_\_\_ (extra charge)
- Lugs used:  Yes  No (Lugs painted)

## Required to specify your TR table

The following specification regarding your configuration is fundamental for the calculation of the mass moment of inertia.

### Indexing ring

Outer Diameter: \_\_\_\_\_ mm  
 Inner Diameter: \_\_\_\_\_ mm  
 Thickness: \_\_\_\_\_ mm  
 Material:  AlMg4.5Mn  other \_\_\_\_\_

### Fixtures and parts

Number: \_\_\_\_\_  
 Weight per station: \_\_\_\_\_ kg  
 Diameter of the center of gravity: \_\_\_\_\_ mm

Please draw a sketch of how your load is build on the table.

Total mass inertia: \_\_\_\_\_ kg m<sup>2</sup> (additional indexing plate and add-ons)

## Additional indexing plate

- Included in the scope of offer and delivery
- Processing according to drawing No. \_\_\_\_\_

## Electrical data

### Drive

- Three-phase braking motor (standard)

### Motor

- Voltage 3 x 400 V / 50 Hz (standard)
- Other: \_\_\_\_\_ V / \_\_\_\_\_ Hz

### Brake

- Braking voltage 24 V = (recommended)
- Other: \_\_\_\_\_ V

It is recommended to drive the motor with an electronic contactor!

- Electronic contactor\*
- Electronic reversing contactor\*

\* not necessary with frequency converter control system EF1/EF2

## Control EF1 / EF2 / TS 004 E

- Frequency converter control system EF1 (Lenze)**
- Frequency converter control system EF2 (Siemens)**  
 interface Profibus + ProfiNet onboard
- TM 15 Module for interface Digitale I/O
- SIL3 (STO) - motor contactor + safty relay

## Use of the WEISS control card TS 004 E

- terminal PCB for 19" rack
- PCB card holder
- Protective housing for:
  - Rear wall mounting  Front panel mounting
  - Rail mounting  Frontdoor, lockable and transparent
- Front panel language for WEISS control card TS 004E
- German  Italian  English  Dutch  French

## For technical enquiries

Company: \_\_\_\_\_

Name: \_\_\_\_\_

Country: \_\_\_\_\_

Desired delivery date: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

eMail: \_\_\_\_\_

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