

DE 5/FR rotary unit



- The rotary unit is a module for the horizontal rotation and transport of workpiece carriers
- With this, branch-offs and crossings are also possible for heavy workpiece pallets (up to 400 kg)

Product description

- Can be used with all standard workpiece pallets in the longitudinal conveyor
- Incl. Section with integrated drive
- Set roller spacing $p = 130 \text{ mm}$
- Reversible
- Total weight up to 400 kg, depending on WT size
- Electric rotary drive with internal motor mounting
- Rotary range of a total of 270° , divided in 90° steps

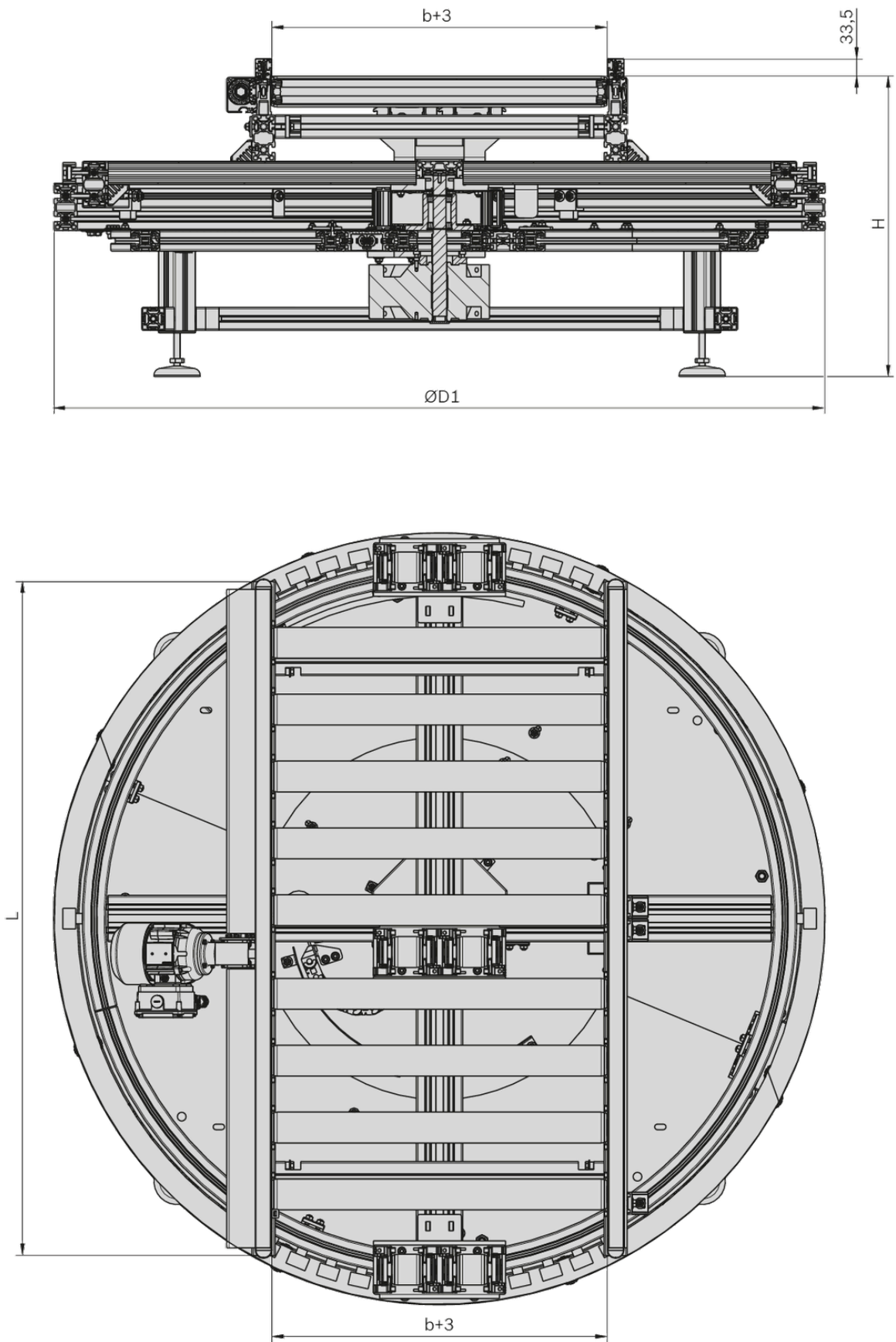
Sensor application matrix

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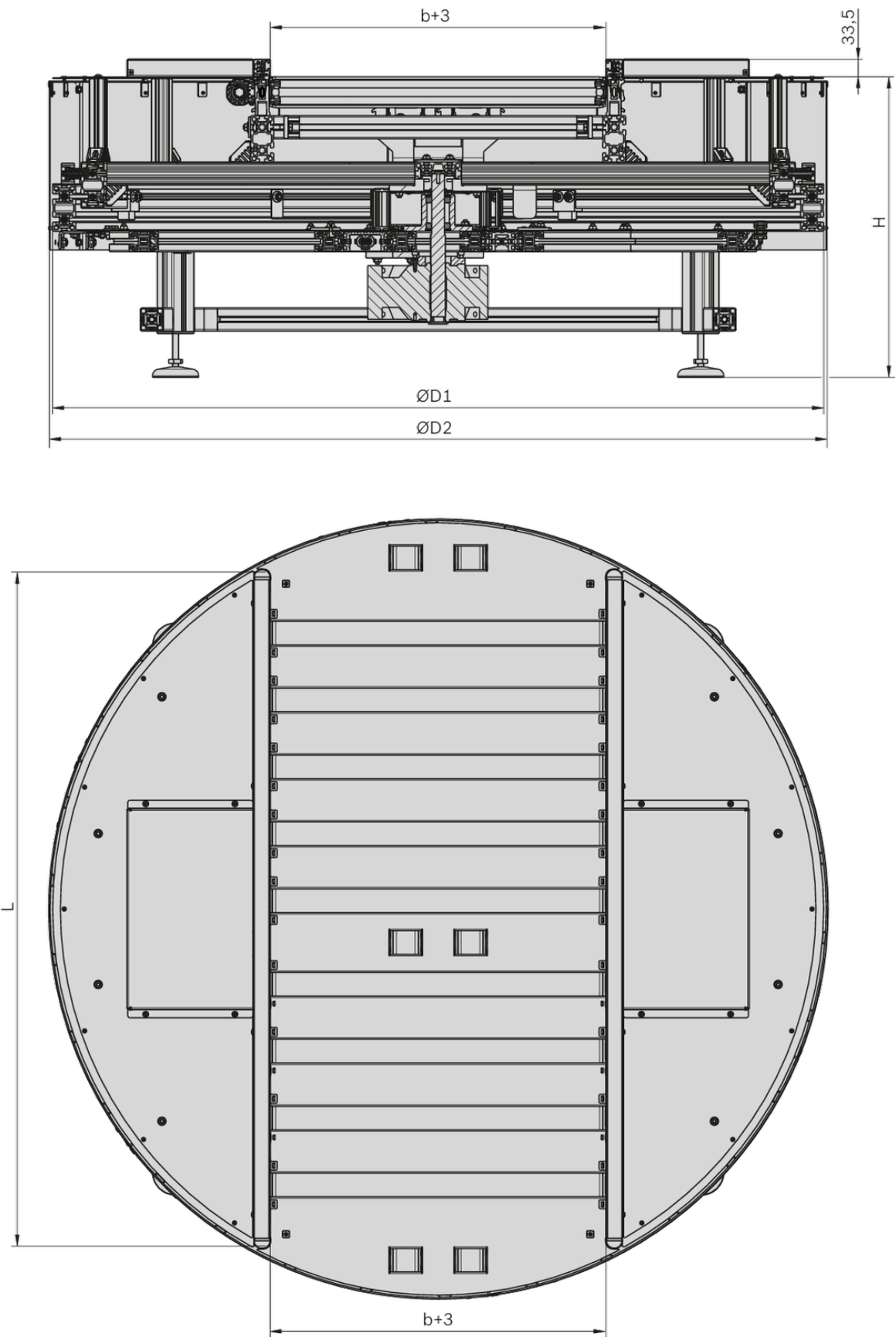
Technical data

No.			3842998862
Required compressed air connection	p	bar	5 ... 6
Pneumatic push-in fitting	Ø	mm	6
Rotary movement time		s	90°: 4 180°: 7 270°: 10

Dimensions



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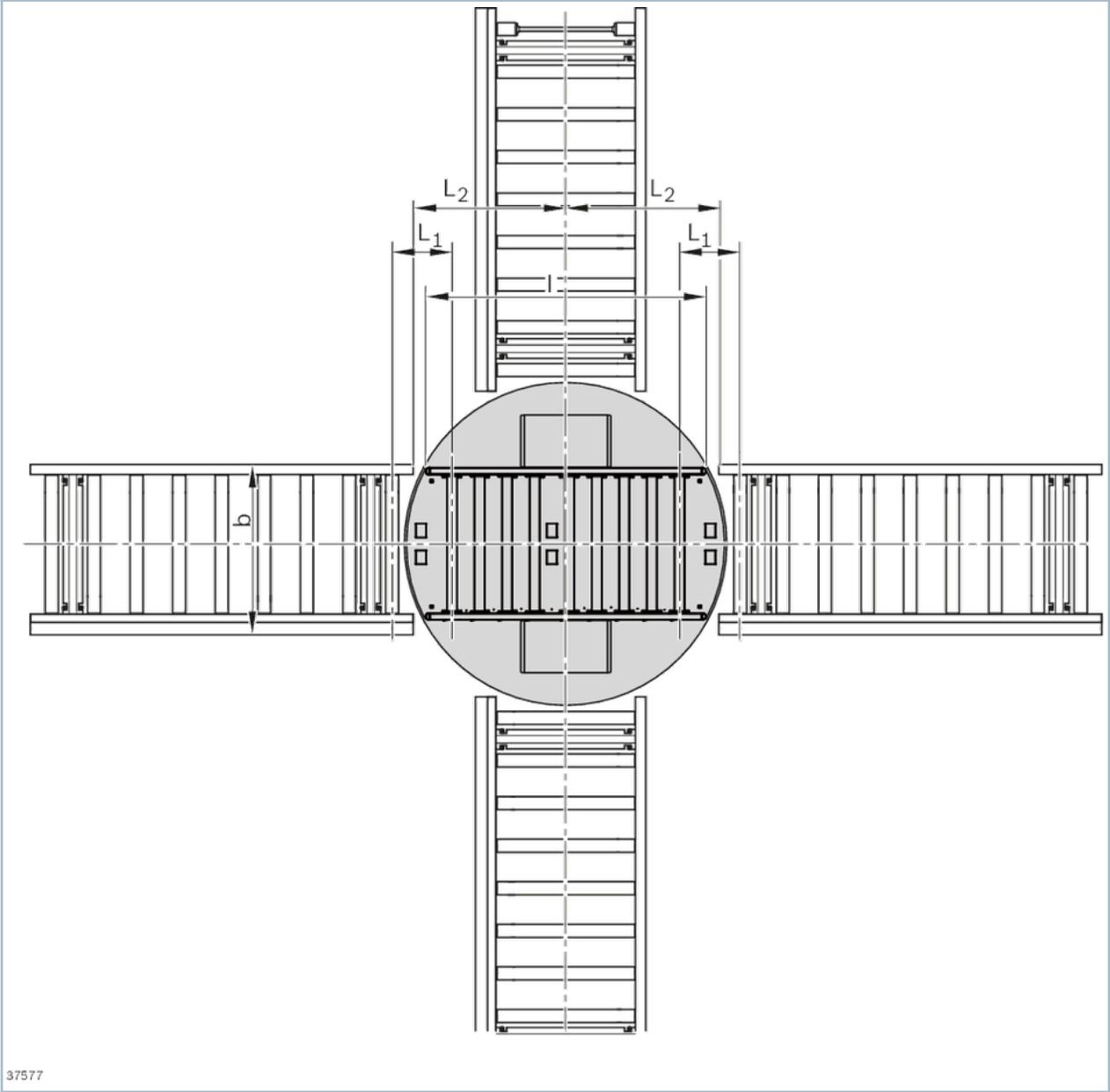


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Track width in the direction of transport	Belt section length	ø without protective cover	ø with protective cover	Transportation height
b	L	D1	D2	H

Track width in the direction of transport	Belt section length	ø without protective cover	ø with protective cover	Transportation height
b	L	D1	D2	H
mm	mm	mm	mm	mm
455	1000	1140	1156	585 ... 1400
650	1310	1500	1516	585 ... 1400
845	1180	1500	1516	585 ... 1400

Distance of connecting ST 5 conveyor units / AS 5 drive units



Distance of connecting ST 5 conveyor units / AS 5 drive units

WT 5 workpiece pallet with central separation				
b_{WT} [mm]	L_{WT} [mm]	I [mm]	L_1 [mm]	L_2 [mm]
455	455	1000	224,3 / 244	581,5 ¹⁾ / 585
455	650	1000	224,3 / 244	581,5 ¹⁾ / 585
650	650	1310	308,75	780
650	845	1310	308,75	780
845	845	1180	373,5	780
845	1040	1180	373,5	780

b_{WT} = Breite Werkstückträger

L_{WT} = Length of the drive unit assembled at the DE 5

¹⁾For a layout with curves, diverters and junctions, the connection bridges 3 842 998 604 and 3 842 998 605 must be used as section connected to the rotary unit.

Accessories

Required accessories

Anchoring of the rotate unit at the floor

For each bolting point:

- 1x foundation bracket, 3842146815
- 1x dowel, 3842526560
- 2x T-bolts, 3842528718
- 2x flange nuts, 3842345081

Sensors

- For controlling the position (0° / 90° / 180° / 270°) 4x M12 with M8, $S_N = 4$ mm, flush, 3842549812
- or alternatively: 4x M12 with M12, $S_N = 4$ mm, flush, 3842549814
- For stopping and locking the rotary movement (VE) 4x M8 with M8, $S_N = 2$ mm, flush, 3842551761
- For WT end position and running in of workpiece pallets with deceleration (ramp) 3x M12 with M12, $S_N = 8$ mm, not flush, 3842557633
- or alternatively: 3x M12 with M8, $S_N = 8$ mm, not flush, 3842549813
- For stopping and locking the workpiece pallet (VE) 2x M8 with M8, $S_N = 2$ mm, flush, 3842551761
- For end position of the rotary movement 1x M12 with M8, $S_N = 4$ mm, flush, 3842549811

Frequency converters

- 1x for the motor for rotary movement
- 1x for the motor of the belt section of the drive unit (deceleration and start-up of the workpiece pallet)

I/O module (PROFIBUS® or Ethernet)

- For connection of proximity switches for control of the workpiece pallet
- For connection of necessary solenoid valves for control of the stop gates

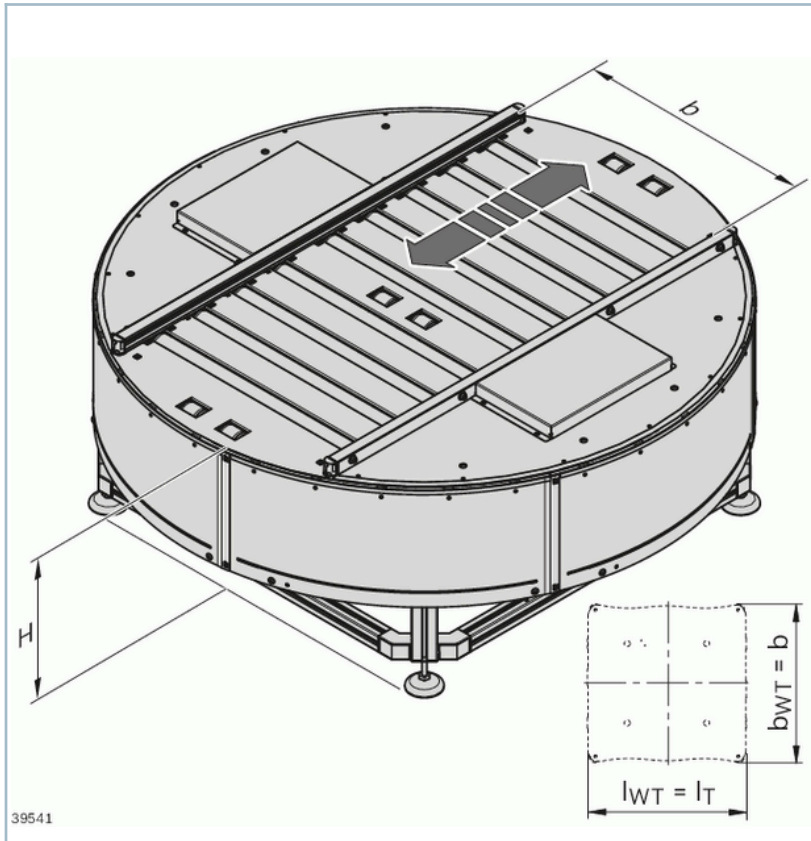
Delivery notes

Condition of Delivery

Ready-to-install incl. supports

Protective covers (traversing mechanism and section) mounted optionally; protective covers cannot be ordered separately

Ordering codes



Order Parameter

No.		3842998862
b (mm)	Track width in direction of transport	455; 650; 845
H	Transportation height	585 ... 1400
CT	Type of protection 0: without 1: with	0; 1
LG	Lateral guide material 1: Steel 2: Plastic 3: Aluminum	1; 2; 3
BG	Bevel wheel material 1: Plastic 2: Sintered metal	1; 2

TR	Roller material 1: galvanized 2: nitrocarburized	1; 2
v_N (m/min)	Nominal speed	2; 4; 6; 9; 12; 15; 18
U, f (V, Hz)	Voltage, frequency	see motor data

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