

## DE 5 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  $270^\circ$ , divided in  $90^\circ$  steps

### Sensor application matrix

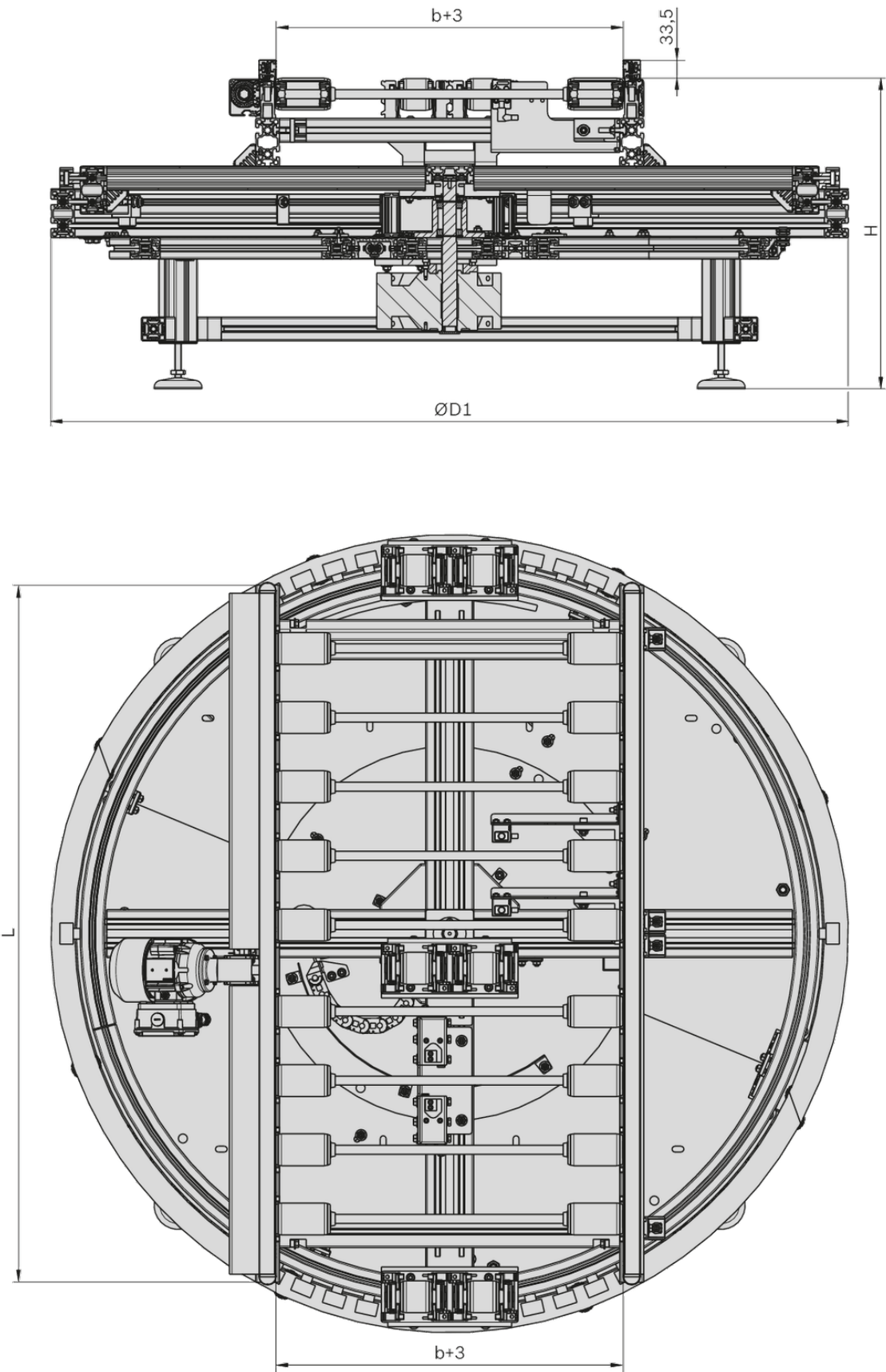
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## Technical data

|                                    |   |     |                               |
|------------------------------------|---|-----|-------------------------------|
| No.                                |   |     | 3842998863                    |
| Required compressed air connection | p | bar | 5 ... 6                       |
| Pneumatic push-in fitting          | Ø | mm  | 6                             |
| Rotary movement time               |   | s   | 90°: 4<br>180°: 7<br>270°: 10 |

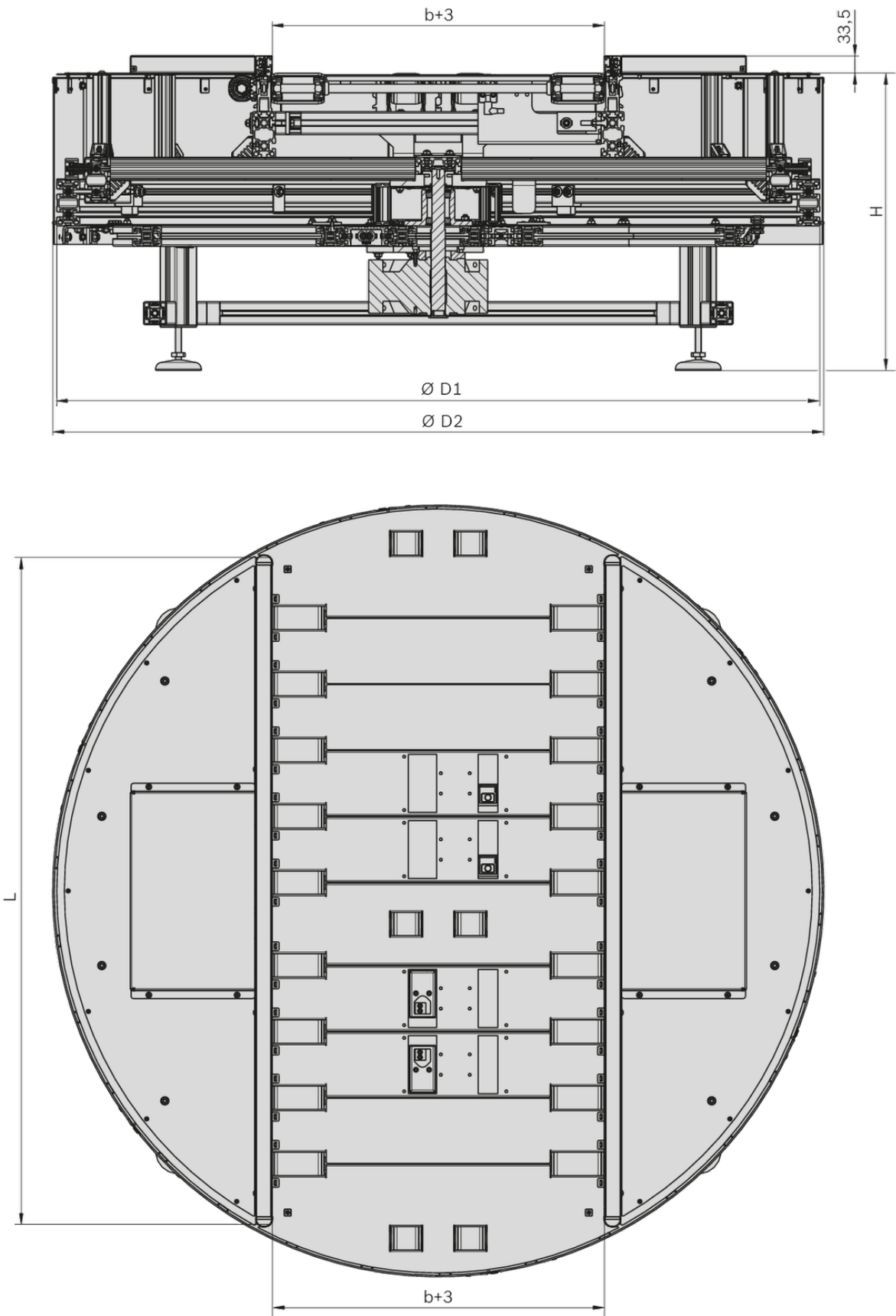
## Dimensions

Rotate unit without protective cover



37579

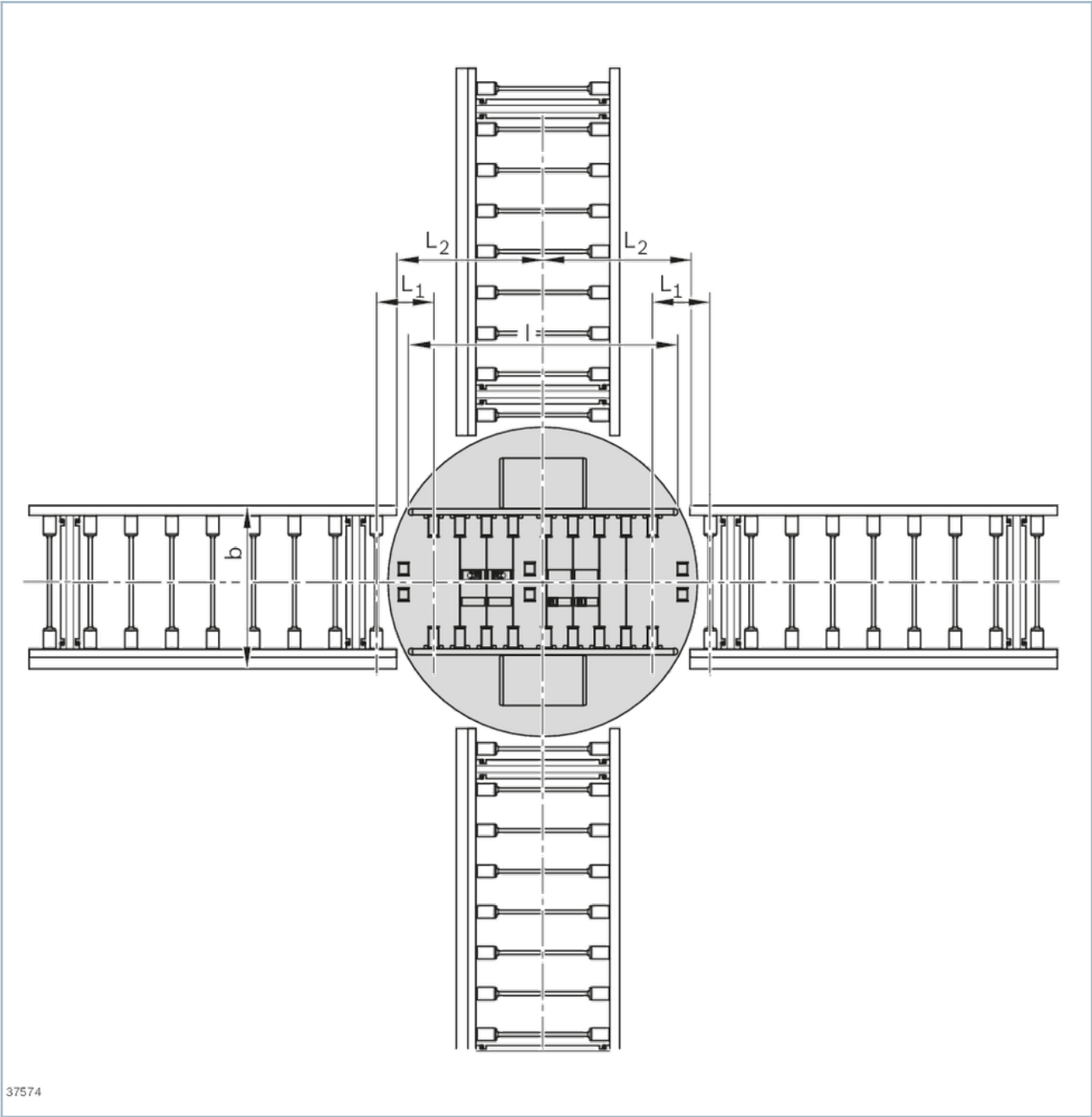
Rotate unit with protective cover



37590

| 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 <sup>1)</sup> / 585 |
| 455                                           | 650           | 1000     | 224,3 / 244 | 581,5 <sup>1)</sup> / 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

<sup>1)</sup>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

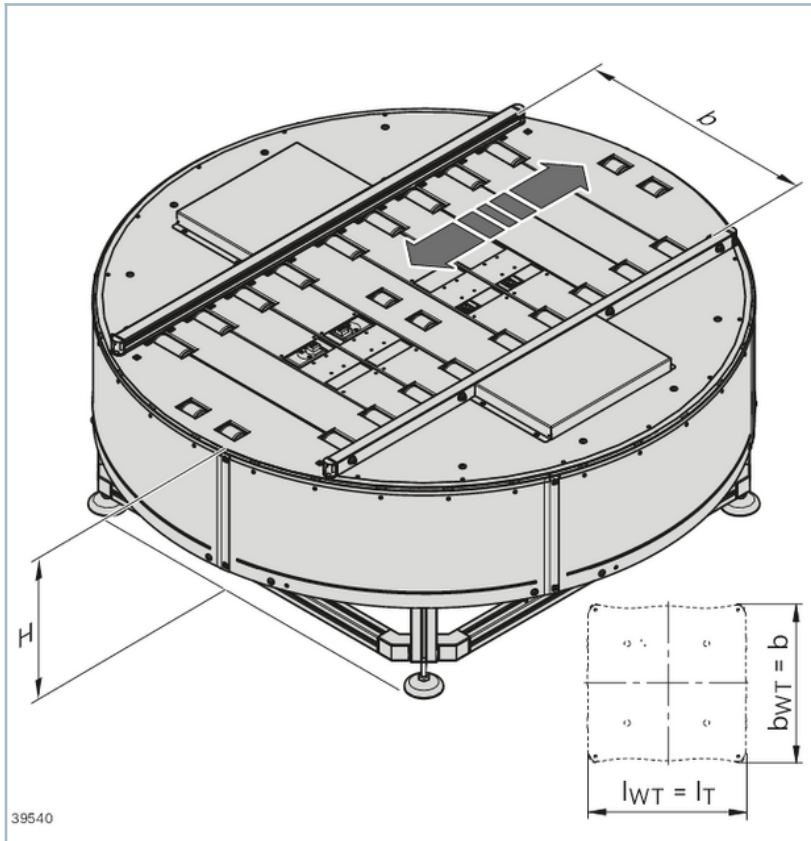
# Delivery notes

## 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.                 |                                              | 3842998863                                    |
| b (mm)              | Track width in direction of transport        | 455; 650; 845                                 |
| $l_T$ (mm)          | Length in direction of transport             | 455; 650; 845; 1040                           |
| $b \times l_T$ (mm) | Combination Options                          | 455x455; 650<br>650x650; 845<br>845x845; 1040 |
| H                   | Transportation height                        | 585 ... 1400                                  |
| CT                  | Type of protection<br>0: without<br>1: with  | 0; 1                                          |
| VE                  | Stop gate<br>0: without<br>1: with stop gate | 0; 1                                          |

|               |                                                                 |                        |
|---------------|-----------------------------------------------------------------|------------------------|
| LG            | Lateral guide material<br>1: Steel<br>2: Plastic<br>3: Aluminum | 1; 2; 3                |
| BG            | Bevel wheel material<br>1: Plastic<br>2: Sintered metal         | 1; 2                   |
| TR            | Roller material<br>1: galvanized<br>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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