

Reaching the height. Step by step

G-platform® Assembly platforms by goracon®

The assembly platforms by goracon were specially developed for the assembly of concrete towers for wind energy plants.

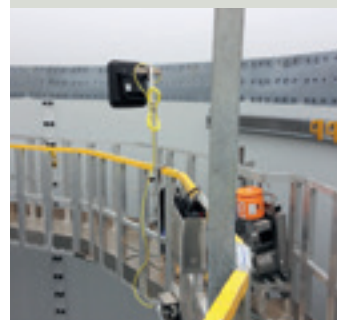
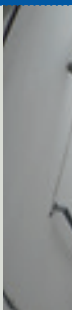
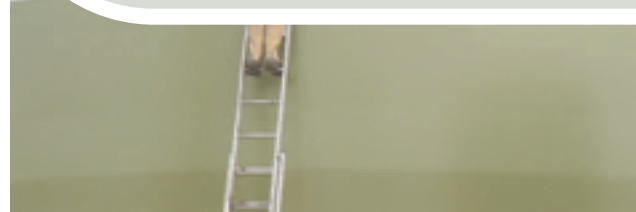
In this case, the innovation lies in that the concrete towers are built from the inside. In the traditional assembly the concrete tower is scaffolded from outside and then refitted part by part. Not only is this extremely time-consuming during the assembly, but also the set-up of these scaffolds binds precious time resources and tower crane capacities.

During the assembly of concrete segments with the **G-platform®**, the platform is connected inside the first concrete ring by a mobile crane, in compliance with the requirements for passenger transport.

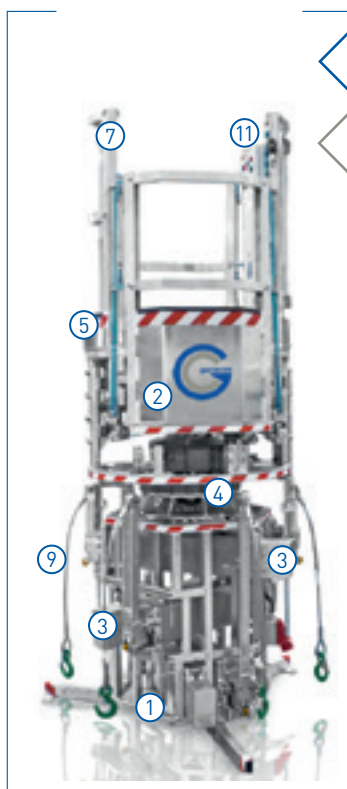
If the following concrete tower segment is attached, the crane has already been positioned properly in order to elevate the **G-platform®** to the next level. After lowering the crane gear, the **G-platform®** is inserted and pulled to the next tower section.

During the upward movement, the assembly operators must not leave the **G-platform®**.

The fixation inside the concrete segment is carried out by spring-actuated hang-up crossbars of the **G-platform®** adaptable to the respective diameter of the tower. The superior platform rotatable over 360° of the **G-platform®** is additionally equipped with 4 to 6 telescopic bars as soon as the tower segments are conically reduced. This continuous rotation of the superior platform and the telescopic bars guarantees safe and easy work everywhere inside the concrete segments.



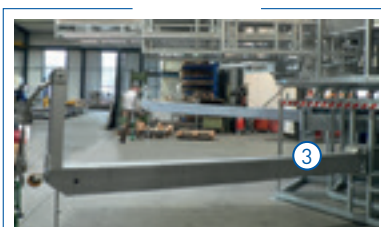
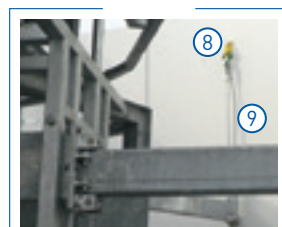
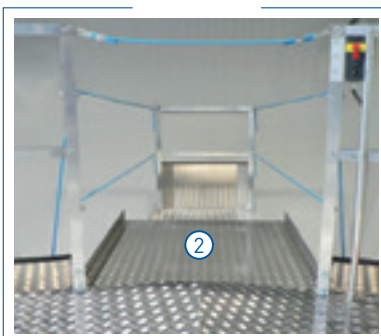
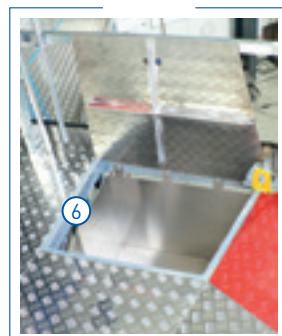
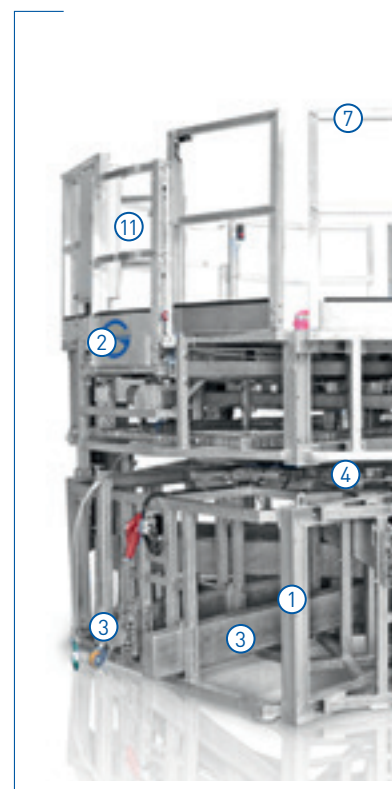
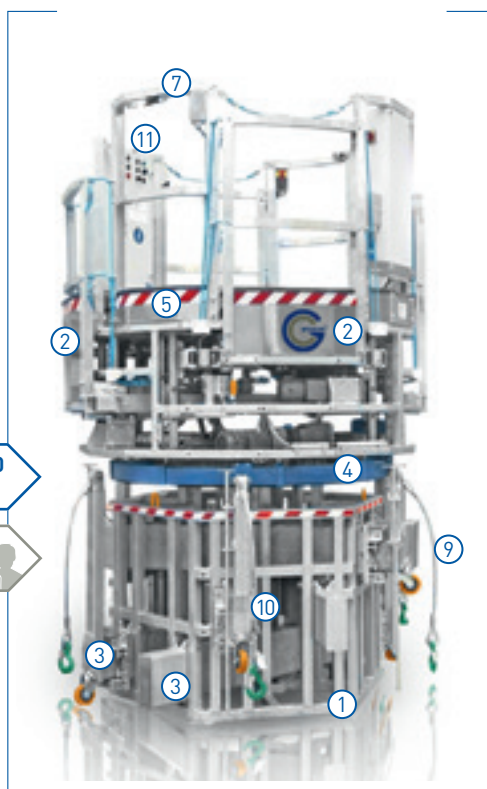




GW-1410
Module 0

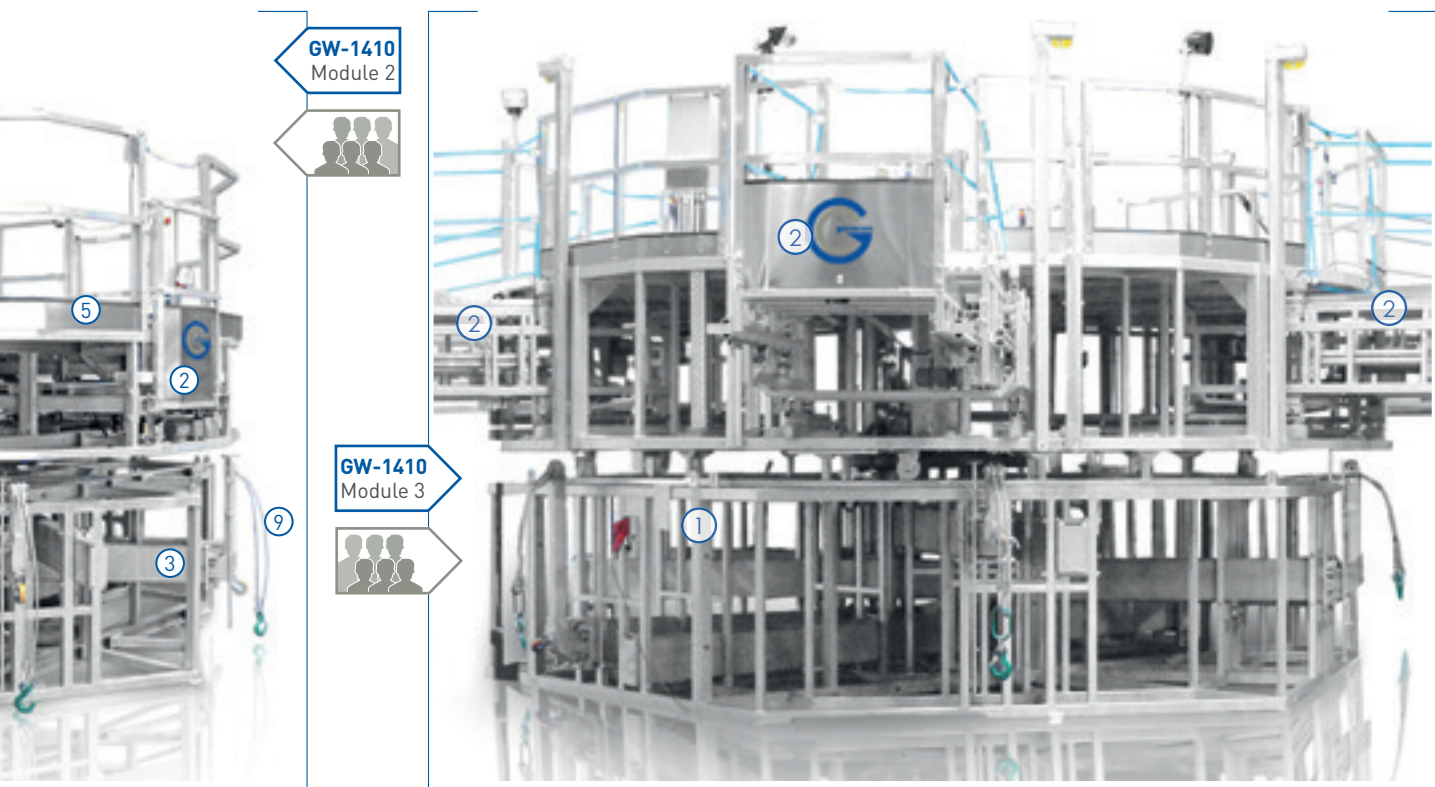


GW-1410
Module 1



Characteristics

- 1 Substructure
- 2 Telescope stages
- 3 Telescopic arms
- 4 Rotational connection
- 5 Top part of the platform
- 6 Storage compartment
- 7 Guard rail
- 8 Console
- 9 Safety cables
- 10 Safety pin
- 11 Central control box



Technical data* GW-1410	Module 0	Module 1	Module 2	Module 3
Telescope walk actuators	electrical	electrical	electrical	electrical
Vertical actuation	by crane (with authorization for passenger train)	by crane (with authorization for passenger train)	by crane (with authorization for passenger train)	by crane (with authorization for passenger train)
Carrying capacity/ bearing strength	500 kg / 2 persons + tools / load	1000 kg / 4 persons + tools / load	1000 kg / 6 persons + tools / load	1500 kg / 6 persons + tools / load
Self-weight	950 kg	1900 kg	4900 kg	14000 kg
Bars reeled-out	Ø 1820 mm	Ø 3380 mm	Ø 7580 mm	Ø 13200 mm
Bars reeled-in	Ø 1150	Ø 1800	Ø 3800	Ø 7130
Building height	2950 mm	3000 mm	3800 mm	4100 mm
Electrical connection net	400 VAC 3~/N/PE 50 Hz 2 kW (with integrated EC 32A 15 kW plug)	400 VAC 3~/N/PE 50 Hz 3 kW (with integrated EC 32A 15 kW plug)	400 VAC 3~/N/PE 50 Hz 3 kW (with integrated EC 32A 15 kW plug)	400 VAC 3~/N/PE 50 Hz 3 kW (with integrated EC 32A 15 kW plug)

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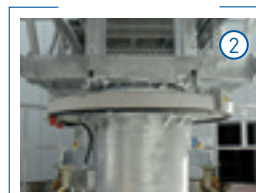
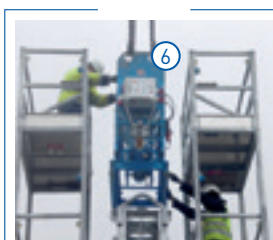


GW-3000-01
Module 1



Characteristics GW-3000-01

- 1 Top part of the platform
- 2 Rotational connection
- 3 Substructure
- 4 Telescopic arms
- 5 Safety cables
- 6 Pump container

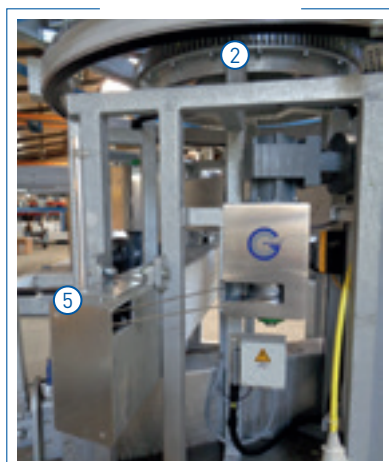


GW-3000-01
Module 2



Technical data* GW-3000-01	Module 1	Module 2
Tower actuation	electrical by electric motor / 0,25 kW	electrical by electric motor / 0,25 kW
slewing ring actuation	electrical by electric motor / 0,18 kW	electrical by electric motor / 0,18 kW
Telescope walk actuation	electrical by electric motor / 0,18 kW	—
Carrying capacity/bearing strength	3520 kg, max. 6 persons max. 3 persons per tower	4720 kg, max. 6 persons max. 3 persons per tower
Number of bearing and arresting cables	8 pieces, ø16 mm wire rope galvanized steel	8 pieces, ø16 mm wire rope galvanized steel
Electrical connection net	400 V / 50 Hz / 3~/N/PE CEE plug 32 A	400 V / 50 Hz / 3~/N/PE CEE plug 32 A
Dimensions D min. / D max. / H	2935 mm/ 6185mm/ 8975 mm	5530 / 8550 / 9075 mm
Transport dimensions L / B / H	9355 mm / 2650 mm / 3100 mm	Unit 1: 10400 / 2700 / 2100 mm Unit 2: 7340 / 2930 / 2500 mm Unit 3: 4750 / 2600 / 3350 mm

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GW-400



Technical data* GW-400

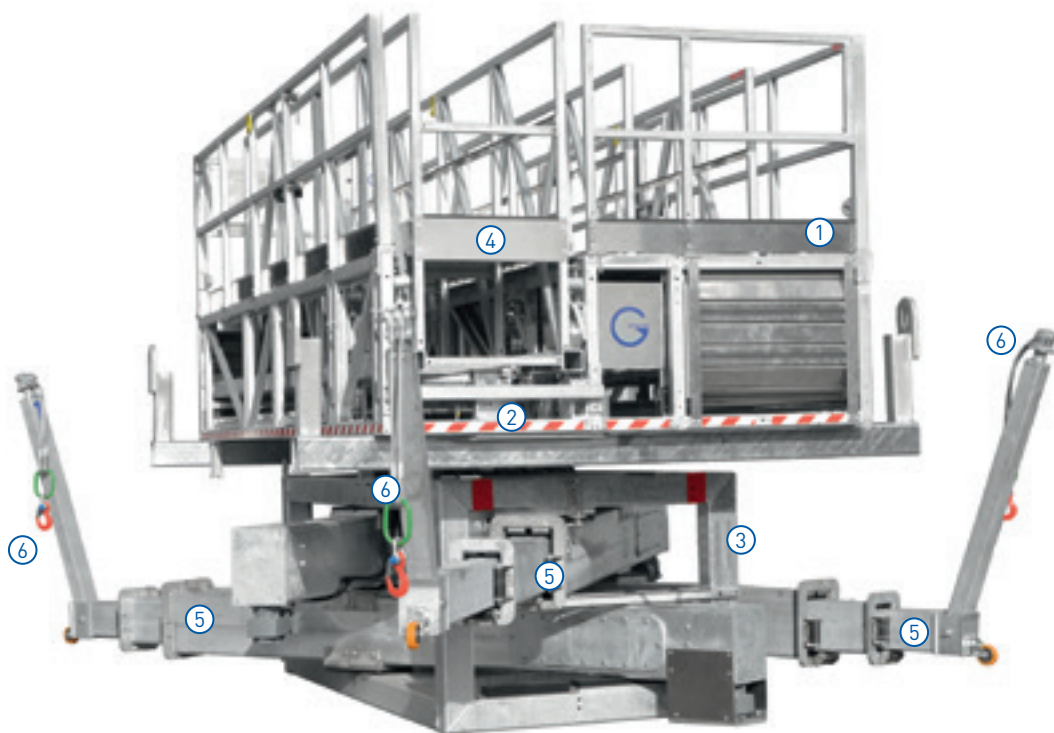
Swivel joint actuation	1 x electric motor je 0,25 kW
Telescope walk actuation	2 x electric motor 0,25 kW
Telescope arms actuation	3 x electric motor je 0,12 kW
Carrying capacity/bearing strength	max. 400 kg / 3 persons (320 kg) + material (80 kg)
Self-weight	ca. 1900 kg
Bearing and arresting cables	3 pieces (2 per telescope arm), ø12 mm, galvanized steel,
Output and power supply	400 VAC / 50 Hz / 3~ / N / PE / 1,7 kW / 7 A / IP 54
Dimensions H / B / L: Telescope arms retracted	1780 x 1870 x 4240 mm
Dimensions H / B / L: Telescope arms extended	5230 x 5530 x 4240 mm
Transport dimensions H / B / L:	1780 x 1870 x 3140 mm

Characteristics GW-400 / 600

- 1 Substructure
- 2 Swivel joint
- 3 Substructure
- 4 Telescope stages
- 5 Telescopic arms
- 6 Safety cables
- 7 Central control box

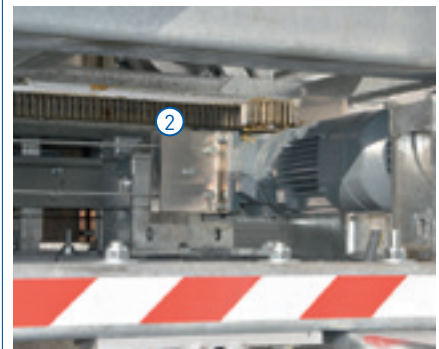
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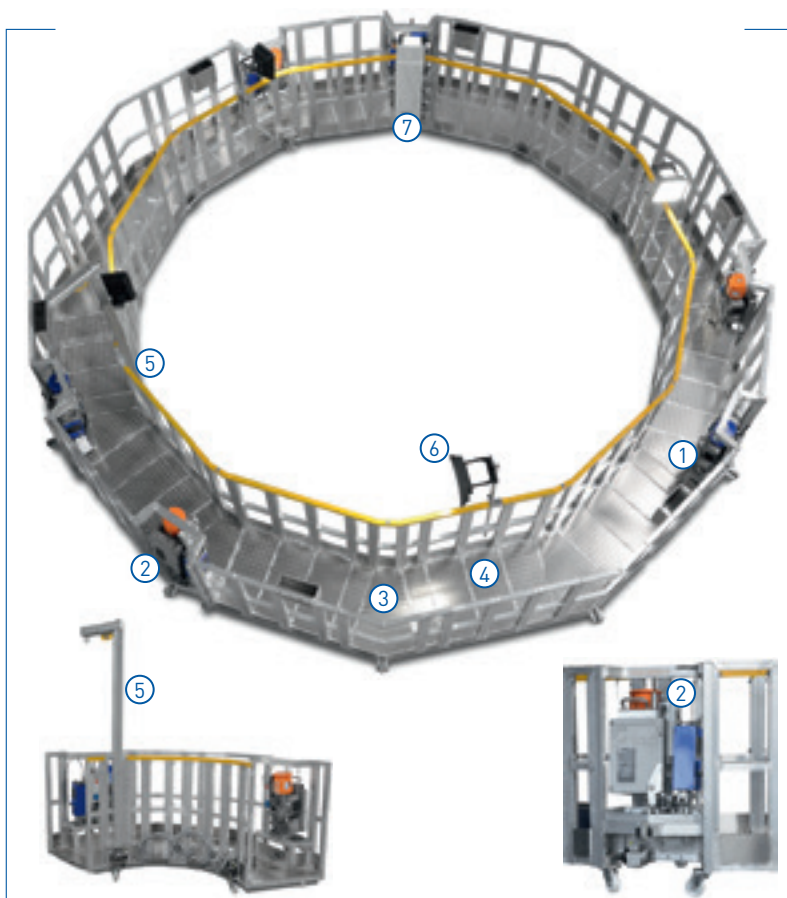
GW-600



Technical data* GW-600

Swivel joint actuation	1 x electric motor je 0,25 kW
Telescope walk actuation	2 x electric motor 0,25 kW
Telescope arms actuation	4 x electric motor je 0,12 kW
Carrying capacity/bearing strength	max. 600 kg / 4 persons (400 kg) + material (200 kg)
Self-weight	ca. 8300 kg
Bearing and arresting cables	4 pieces (2 per telescope arm), ø12 mm, galvanized steel,
Output and power supply	400 VAC / 50 Hz / 3~ / N / PE / 1,9 kW / 7,8 A / IP 54
Dimensions H / B / L: Telescope arms retracted	5435 x 3725 x 3650 mm
Dimensions H / B / L: Telescope arms extended	12460 x 6850 x 3650 mm
Transport dimensions H / B / L:	6160 x 2980 x 3150 mm





Technical data* GW-750	
Payload	Max. 750 kg (700 kg in the case of configuration 1)
goracon drive rope	Ø 9.0 mm galvanized steel wire rope
goracon safety rope	Ø 11.0 mm galvanized steel wire rope
No. of drive / safety ropes	6 no./6 no.
Power supply	400 V AC/50 Hz/3~/N/PE/IP54
Drive unit	Electric with rope traction hoist
Unladen weight	See configuration table
Power required for generator operation	> 7,5 kW
Suspension	Steel lifting beam installed by others (lifting capacity 50 kN)
Max. lifting height	in accordance with project requirements

Characteristics GW-750	
1	Drive section - blue
2	Drive section - orange
3	Corner section
4.1	187 mm basket section
4.2	330 mm basket section
5	Lifting set
6	LED spotlights
7	Control unit



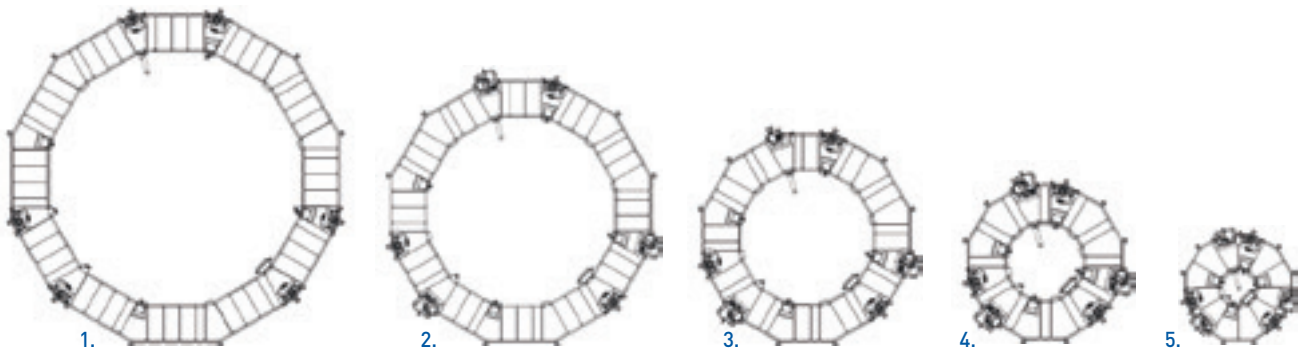
Assembly platform G-platform® GW-750

The assembly platform consists of a basic framework comprising a total of 60 sections which form a twelve-sided closed platform. In addition to the basic construction described above the assembly platform comprises the following equipment:

- Rope winder for drive and safety ropes 140 m (3x)
- Lifting boom (1x)
- LED spotlights (4x)
- Ladder trolley (1x)

The access platform is fitted with the following safety de-vices:

- Electro-mechanical overload
- Emergency limit switches
- Emergency stop switch
- Fall arrest device
- Electrical level monitoring
- mechanical level monitoring



Configuration table				
Configuration	Dimensions (D x H)	Payload	Tower segments	Weight
Config. 1	ø 7010 x 1180 mm	700 kg	for segments 2 / 3	1440 kg
Config. 2	ø 5732 x 1180 mm	750 kg	for segments 4 / 5	1315 kg
Config. 3	ø 4458 x 1180 mm	750 kg	for segments 6 / 7	1190 kg
Config. 4	ø 3184 x 1180 mm	750 kg	for segments 8 / 9	1065 kg
Config. 5	ø 2462 x 1180 mm	750 kg	for segments 10	955 kg



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