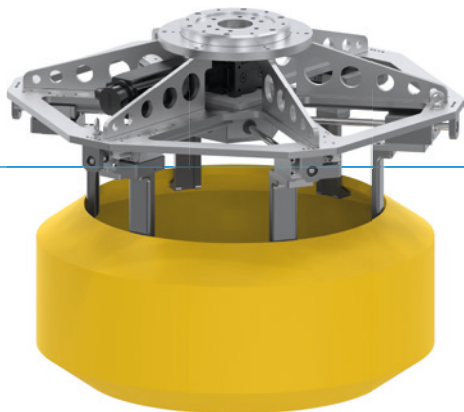


6-JAW INTERNAL GRIPPERS

SERIES WTR1000

▶ PRODUCT ADVANTAGES



- ▶ Dynamic, strong, and robust ready-to-mount gripper on gantry or robot for tire blank handling
- ▶ Lightweight, modular industry-standard gripper provides flexibility and ease of use
- ▶ A secure and balanced grip reduces the risk of tire deformations
- ▶ Sensor mounting to verify the presence of the tire
- ▶ Can handle a wide range of tire diameters
- ▶ Useful for green tire handling in various applications in tire building and curing areas
- ▶ Workpiece contact parts are made of stainless steel

▶ SERIES CHARACTERISTICS



Drive AC servo motor



Internal gripping



Gripper jaws are synchronized

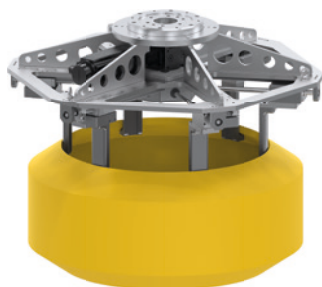
▶ CHALLENGE AND SOLUTION

- ▶ High dynamics high speed with servo operated linear guide mechanism to grip tire
- ▶ Wide range of diameter and weight with keeping tire centered to prevent misalignment
- ▶ Suitable for corrosive and humid environments with stainless steel components and coated parts
- ▶ Ready to mount to any kind of robot/gantry with interface flange for standard robots and gantries
- ▶ Interface for sensor and motor mounting with sensor brackets and cable guide mechanism
- ▶ Easy maintenance with easy-to-replace parts
- ▶ Light and readily available, an economical choice for system integrators
- ▶ Low TCO for end users with low cost, high availability and proven design

▶ VARIANTS

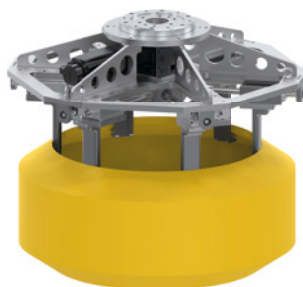
WTR1000-165181-A

Tire gripper for green tires
PCR tires



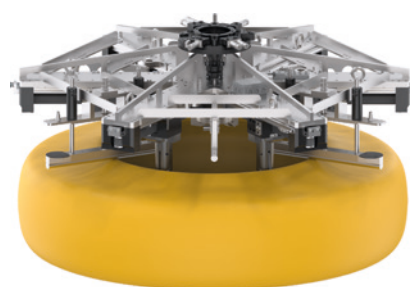
WTR1000-156376-A

Tire gripper for green tires
TBR tires

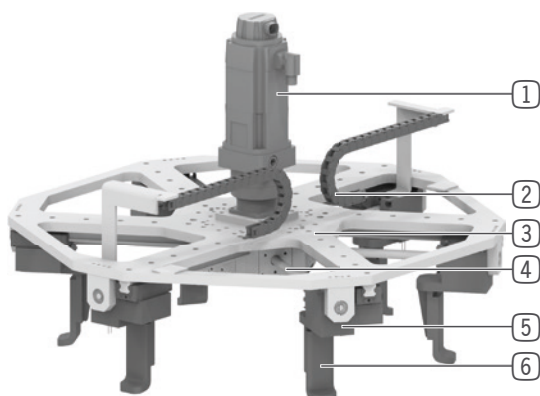


WTR1000-172982-A

Tire gripper for green tires
OTR tires



► BENEFITS IN DETAIL



- ① **Drive**
- AC servo motor
- ② **Drag chain**
- ③ **Robot flange**
- ④ **Ball screw**
- ⑤ **Sensors to verify the presence of workpieces**
- ⑥ **Gripper jaw**
- hardened steel

► TECHNICAL DATA

Order no.	WTR1000-165181-A	WTR1000-156376-A	WTR1000-172982-A
Type of drive *	electrical	electrical	electrical
Included in delivery	Gearbox	Gearbox	Gearbox
Connection	Portal	Portal	Portal
Handling principle	Grasp	Grasp	Grasp
Movement type of the gripper	Palletizing mode	Palletizing mode	Palletizing mode
Guide type	Sliding guide	Sliding guide	
Gripper type	Form fit	Form fit	Form fit
Gripping concept	Internal gripping	Internal gripping	Internal gripping
Gripping points	Inner diameter	Inner diameter	Inner diameter
Gripper jaws are synchronized	Yes	Yes	Yes
Stroke per jaw [mm]	210	180	180
Nominal gripping force [N]	400.0	400.0	1300.0
Workpiece	PCR tires	TBR tires	OTR tires
Arrangement of the workpieces	Sample	Sample	Sample
Number of workpieces in the gripper	1	1	1
Interface to the workpiece	Steel jaw	Steel jaw	Steel jaw
Diameter inside min. ["]	12	18	24
Diameter inside max. ["]	27	28	54
Workpiece height [mm]	400.0	460.0	
Gathering workpieces	one direction	one direction	one direction
Workpiece weight max. [kg]	45	100	400
Certifications	LABS / REACH / RoHS	LABS / REACH / RoHS	LABS / REACH / RoHS
Weight [kg]	83	100	260

* Please note: motor, drive and sensors are not included in the scope of supply and can be ordered separately.
For different motors, please contact Zimmer Group sales team.