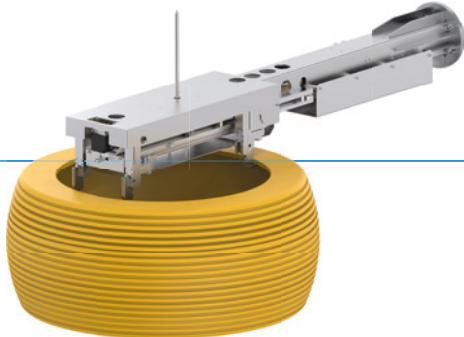


INTERNAL GRIPPERS FOR RICK-RACK STORAGE

SERIES WTR2000

▶ PRODUCT ADVANTAGES



- ▶ Dynamic, strong, and robust ready-to-mount finish tire gripper for palletizing
- ▶ 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
- ▶ Workpiece contact parts are made of stainless steel

▶ SERIES CHARACTERISTICS



Drive AC servo motor



Internal gripping



Gripper jaws are synchronized

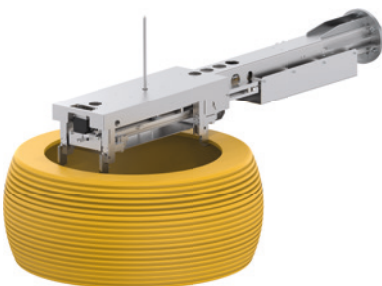
▶ CHALLENGE AND SOLUTION

- ▶ Modular system for gantry and robots with easy-to-use, ready-to-mount solution
- ▶ High dynamics and high speed with servo operated mechanism to grip tire
- ▶ Suitable for corrosive and humid environments with stainless steel components and coated parts
- ▶ Advanced safety with gripping force retention through lead screw
- ▶ 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

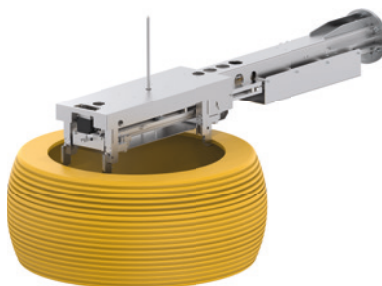
WTR2000-165184-A

Tire gripper for finished tires
Two wheeler



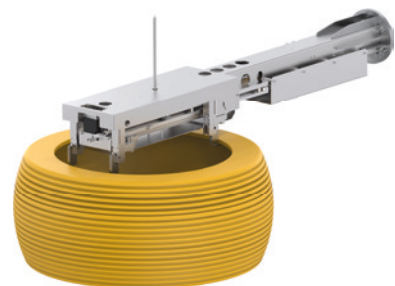
WTR2000-161711-A

Tire gripper for finished tires
PCR tires

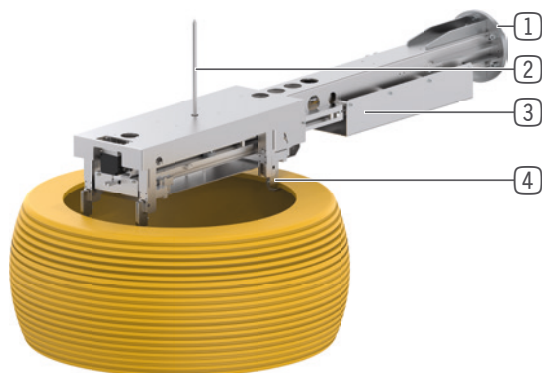


WTR2000-165185-A

Tire gripper for finished tires
TBR tires



► BENEFITS IN DETAIL



- ① **Robot flange**
- ② **Referencing shaft**
- ③ **Slide**
 - AC servo motor
 - for width adjustment
- ④ **Gripper jaw**
 - hardened steel
 - pneumatic
 - toggle lever principle

► TECHNICAL DATA

Order no.	WTR2000-165184-A	WTR2000-161711-A	WTR2000-165185-A
Type of drive *	electrical	electrical	electrical
Included in delivery	Gearbox	Gearbox	Gearbox
Connection	Balancer, crane, portal, robot	Balancer, crane, portal, robot	Balancer, crane, portal, robot
Handling principle	Grasp	Grasp	Grasp
Movement type of the gripper	all degrees of freedom	all degrees of freedom	all degrees of freedom
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]	200	210	180
Workpiece	Two wheeler	PCR tires	TBR tires
Arrangement of the workpieces	Sample	Sample	Sample
Number of workpieces in the gripper	1	1	1
Interface to the workpiece	Steel jaw	Hacking	Hacking
Diameter inside min. ["]	9	12	18
Diameter inside max. ["]	19	27	28
Workpiece height [mm]	260.0	400.0	460.0
Gathering workpieces	one direction	one direction	one direction
Workpiece weight max. [kg]	18	45	100
Certifications	LABS / REACH / RoHS	LABS / REACH / RoHS	LABS / REACH / RoHS

*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.