



SENSORS

Application

Brochure



p.04 TSM Sensors: Made in Italy excellence

p.06 Handling and Lifting



- p.08 Articulated Crawler Crane
- p.09 Truck-Mounted Crane
- p.10 Truck-Mounted AWP
- p.11 Spider-Type AWP
- p.12 Self-Propelled AWP
- p.13 Telehandler
- p.14 Scissor Lift
- p.15 Hooklift
- p.16 Electrohydraulic Lift
- p.17 Straddle Carrier
- p.18 Sideloading
- p.19 Forestry Crane
- p.20 Self-Propelled Material Handler
- p.21 Reach Stacker

p.22 Agricultural Machinery



- p.24 Tractor
- p.25 Combine Harvester
- p.26 Fruit Harvester
- p.27 Agricultural Sprayer
- p.28 Self-Propelled Machine
- p.29 Shredder
- p.30 Autonomous Implement Carrier
- p.32 Fertilizer Spreader
- p.33 Planting Machine

p.34 Construction and Earth Moving



- p.36 Excavator
- p.37 Wheel Loader
- p.38 Concrete Mixer Pump
- p.39 Piling Rig
- p.40 Tipper Semi-Trailer
- p.41 Pile Driver
- p.42 Spritz Beton

p.44 Urban and Municipal



- p.46 Road Sweeper
- p.47 Refuse Collection Vehicle

p.48 Marine



- p.50 Tenderlift
- p.51 Gangway
- p.52 Hydraulic Crane
- p.53 Tender Boom

p.54 Manufacturers of Electrical Slip Rings



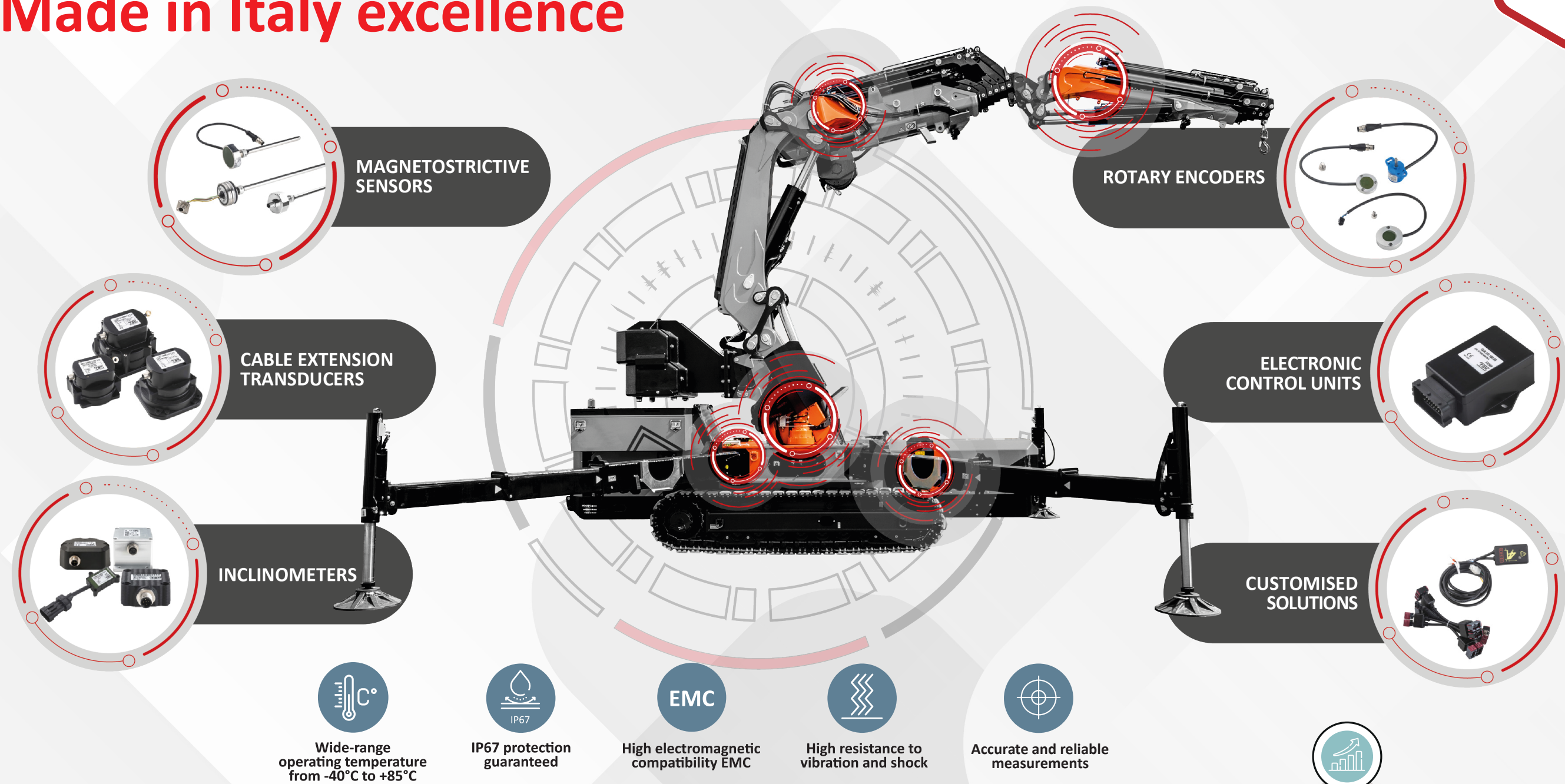
- p.56 Slip Ring



p.58 Manufacturers of Hydraulic Cylinders

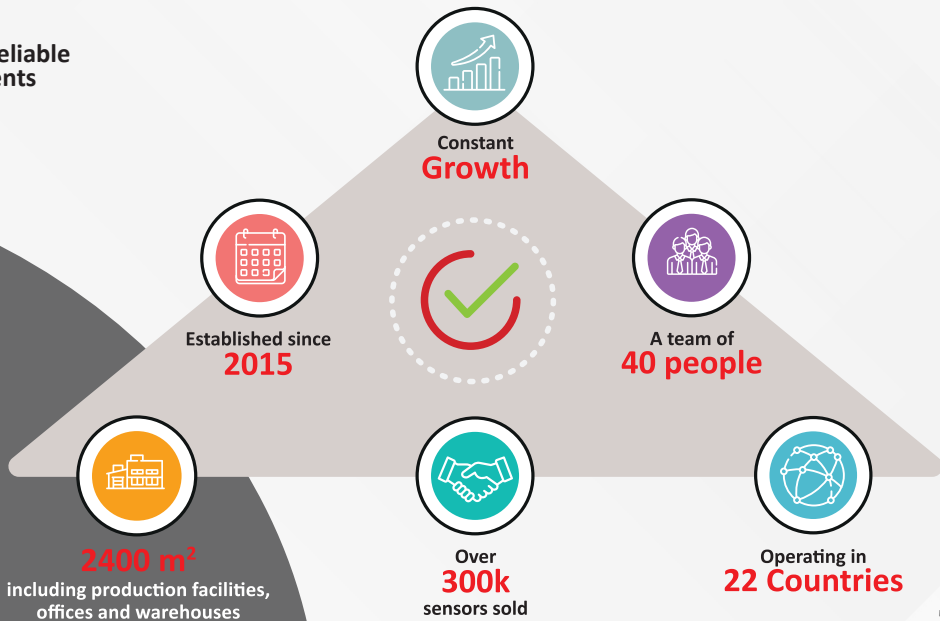


TSM SENSORS: Made in Italy excellence



A reality of excellence of Made in Italy, TSM SENSORS is a reference point in the development and realization of position sensors for automation and control of mobile machines.

TSM acts as a reliable partner for OEMs and system integrators, providing specialized expertise, technological innovation and a quality-oriented approach to meet market needs.





HANDLING & LIFTING





ARTICULATED CRAWLER CRANE



HANDLING & LIFTING

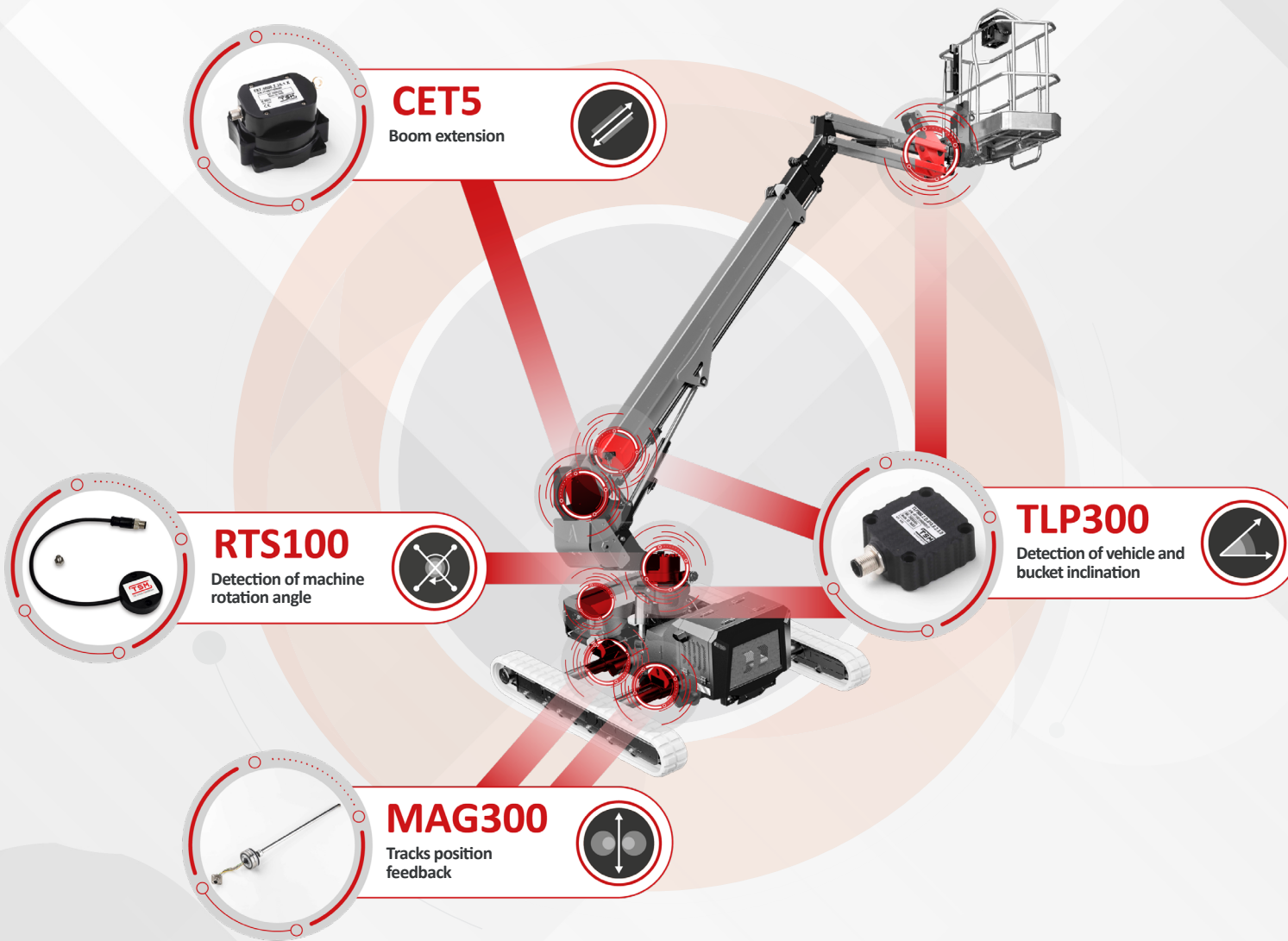


TRUCK MOUNTED CRANE



HANDLING & LIFTING





TRUCK MOUNTED AWP



HANDLING & LIFTING



SPIDER-TYPE AWP



HANDLING & LIFTING





SELF-PROPELLED AWP



HANDLING & LIFTING



TELEHANDLER



HANDLING & LIFTING





SCISSOR LIFT



HANDLING
& LIFTING

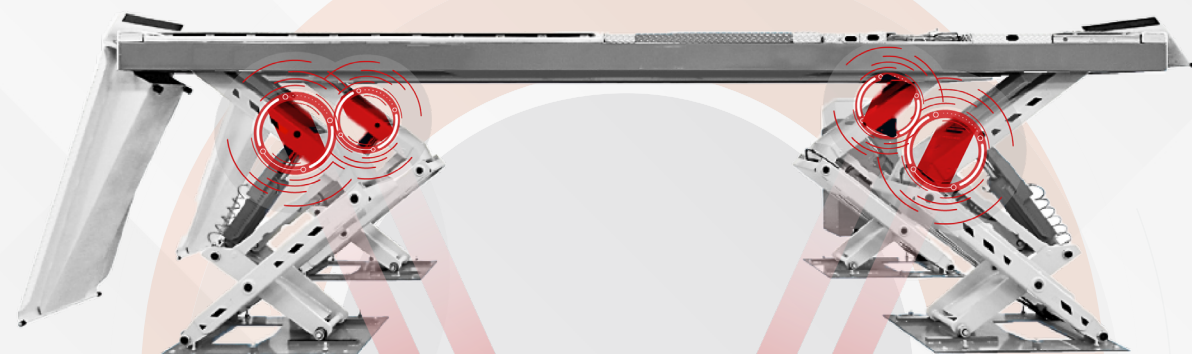


HOOGLIFT



HANDLING
& LIFTING





TLP200
Lift tilt position



ELECTROHYDRAULIC LIFT

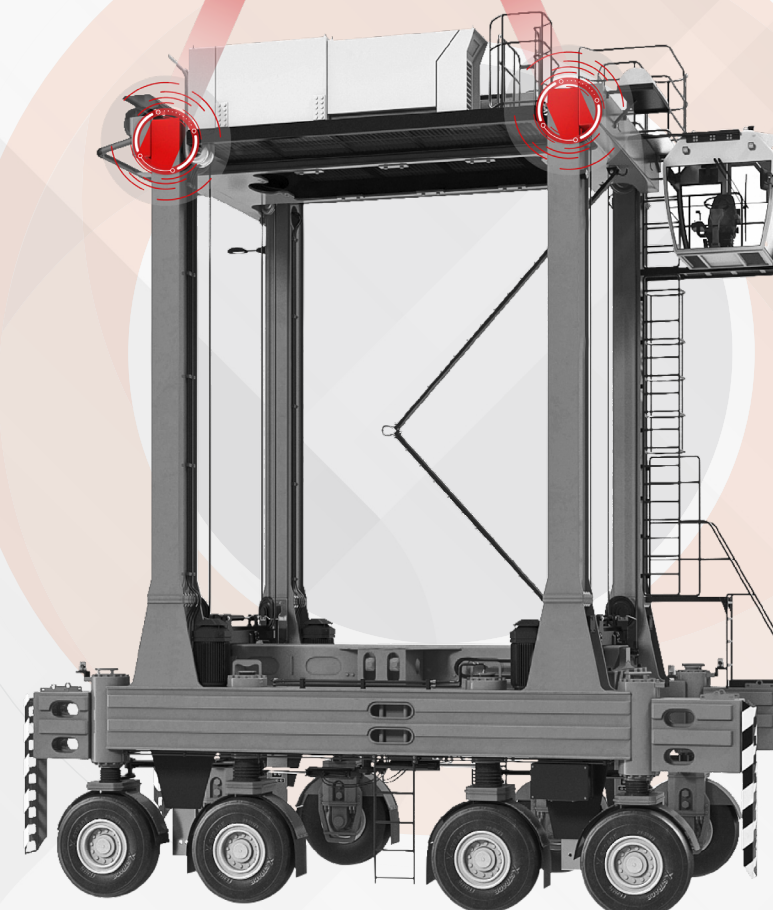


HANDLING
& LIFTING



CET5

Lift position feedback



STRADDLE CARRIER



HANDLING
& LIFTING





RTS100
Steering control



CET5
Lift position feedback



TLP300
Detection of boom and JIB inclination



CET5
Outrigger extension position



SIDELoader



HANDLING
& LIFTING



FORESTRY CRANE




HANDLING
& LIFTING







TLP300
Detection of boom
and JIB inclination







CET12
Boom extension /
inclination position






RTS100
Steering control





SELF-PROPELLED MATERIAL HANDLER



HANDLING
& LIFTING



REACH STACKER



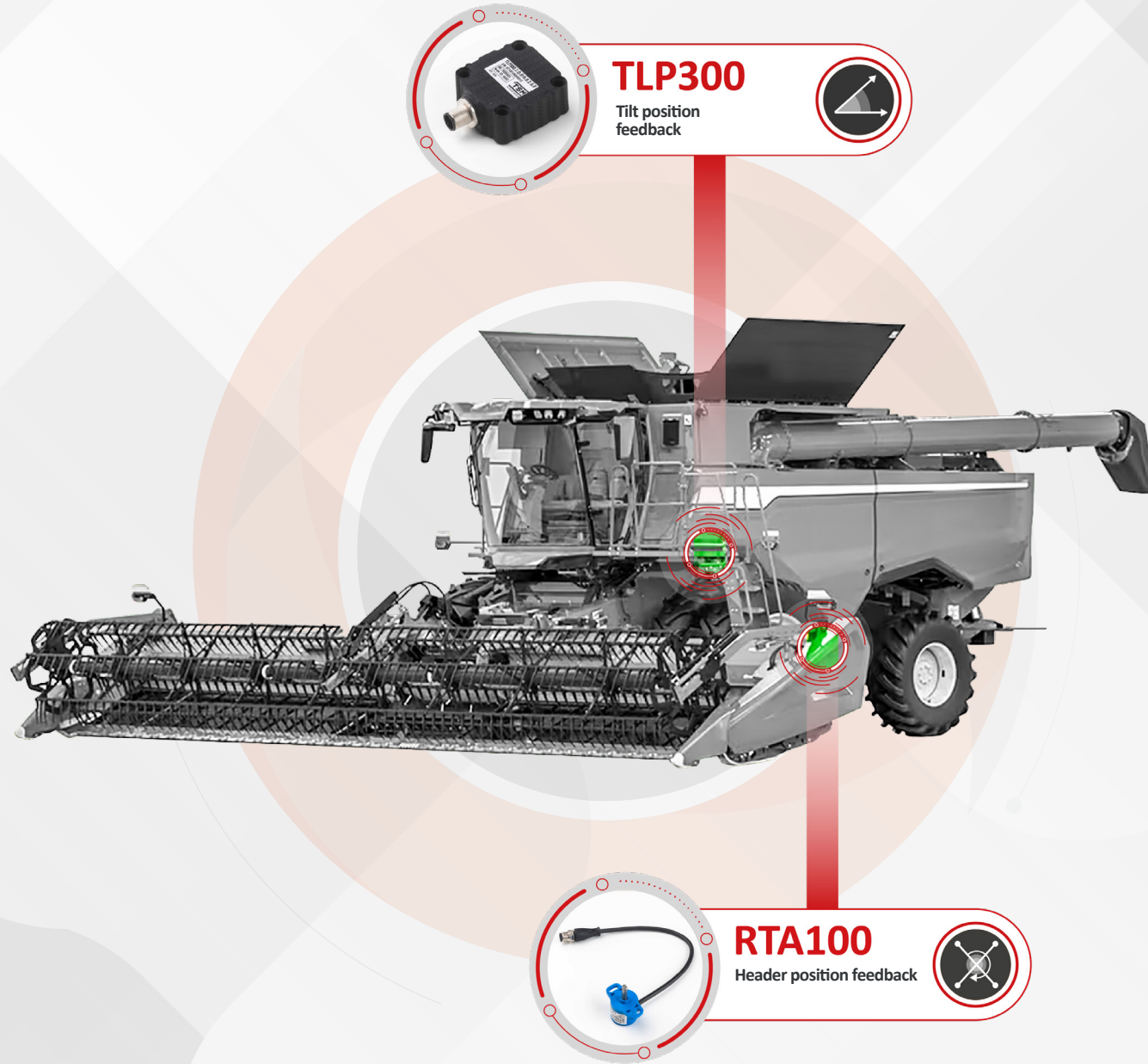
HANDLING
& LIFTING





AGRICULTURAL MACHINERY





TRACTOR



AGRICULTURAL
MACHINERY

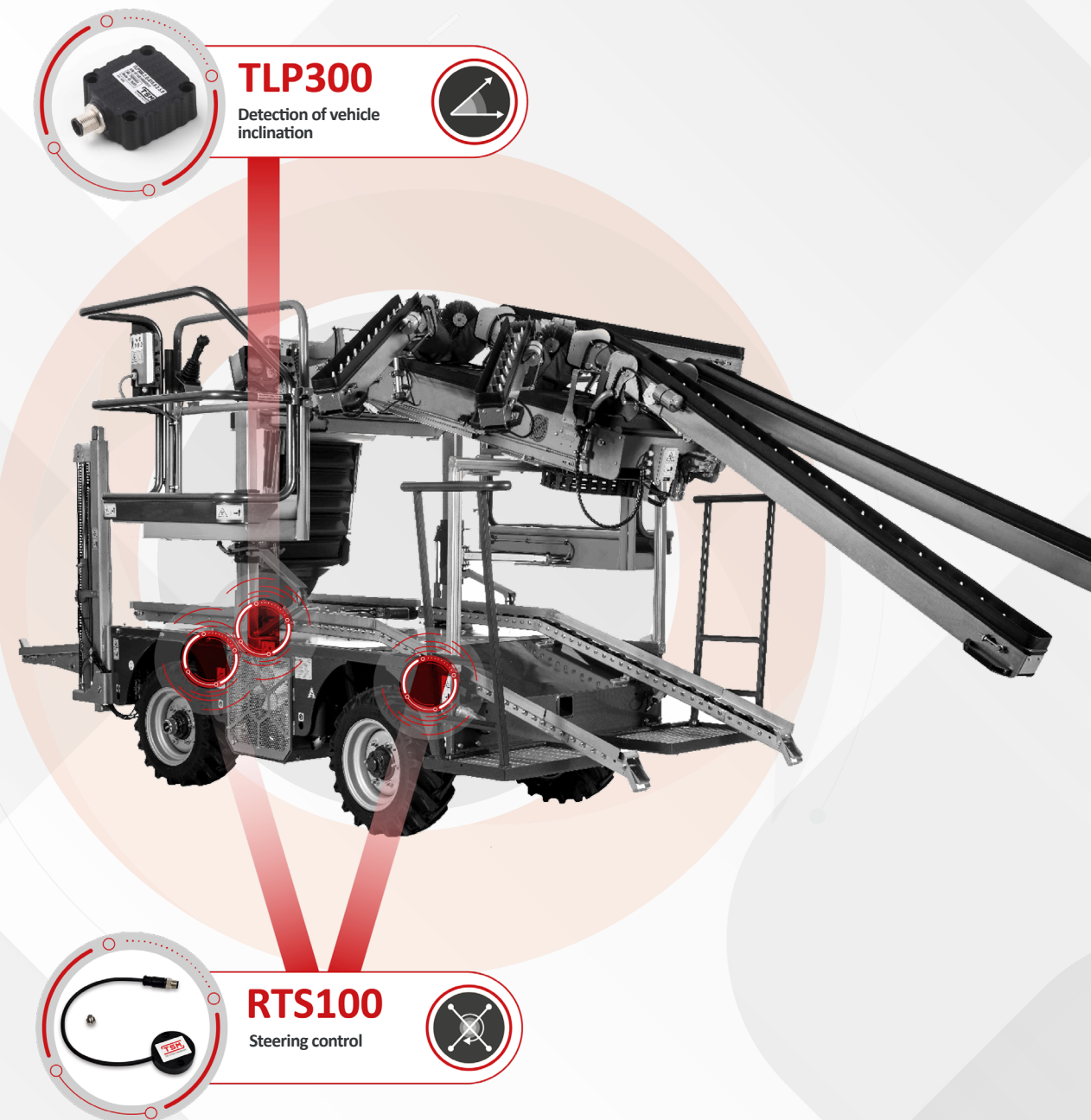


COMBINE HARVESTER



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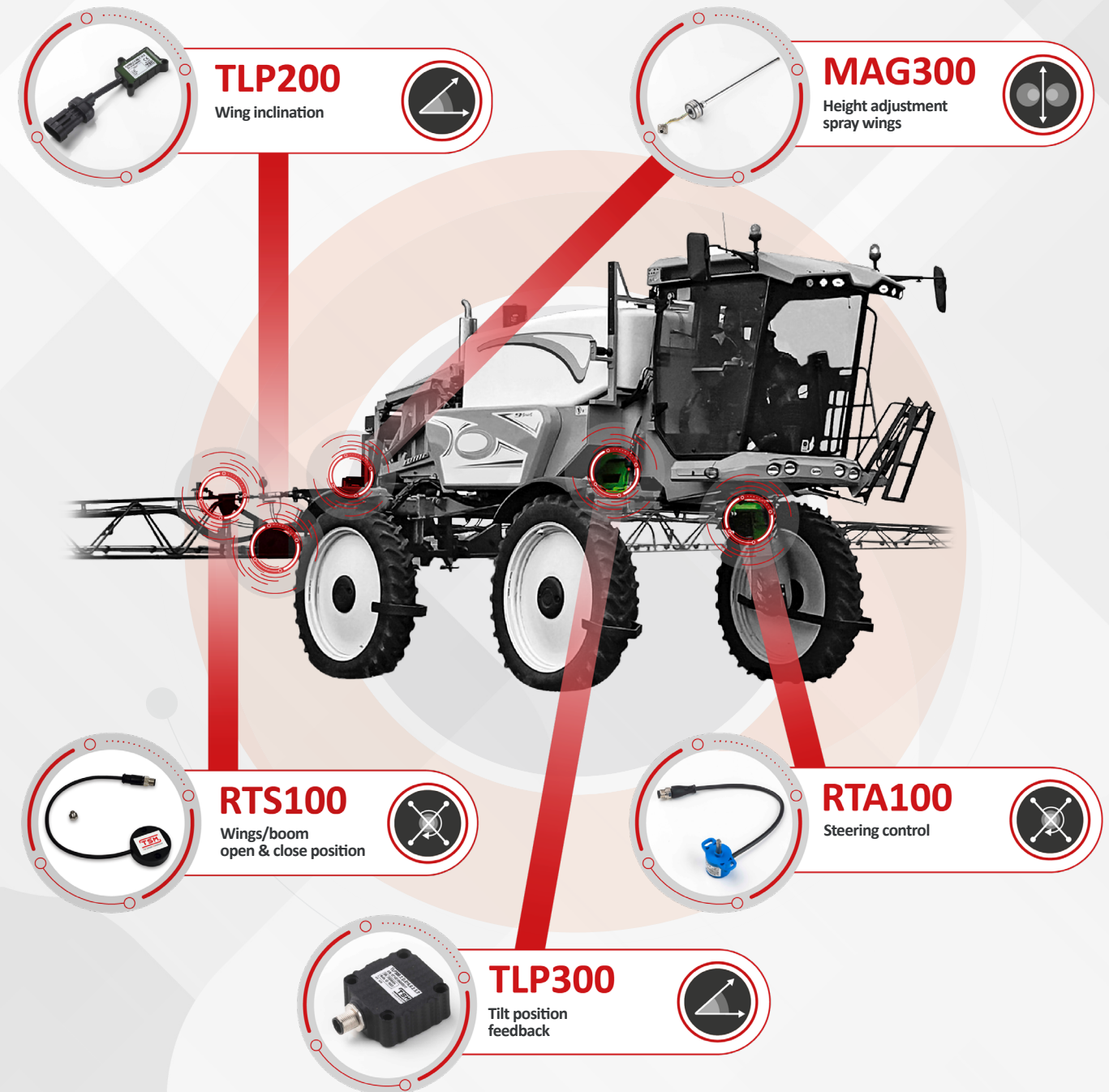




FRUIT HARVESTER



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MACHINERY



AGRICULTURAL SPRAYER



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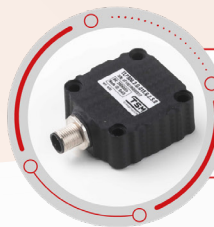
CET12

Boom inclination /
length feedback



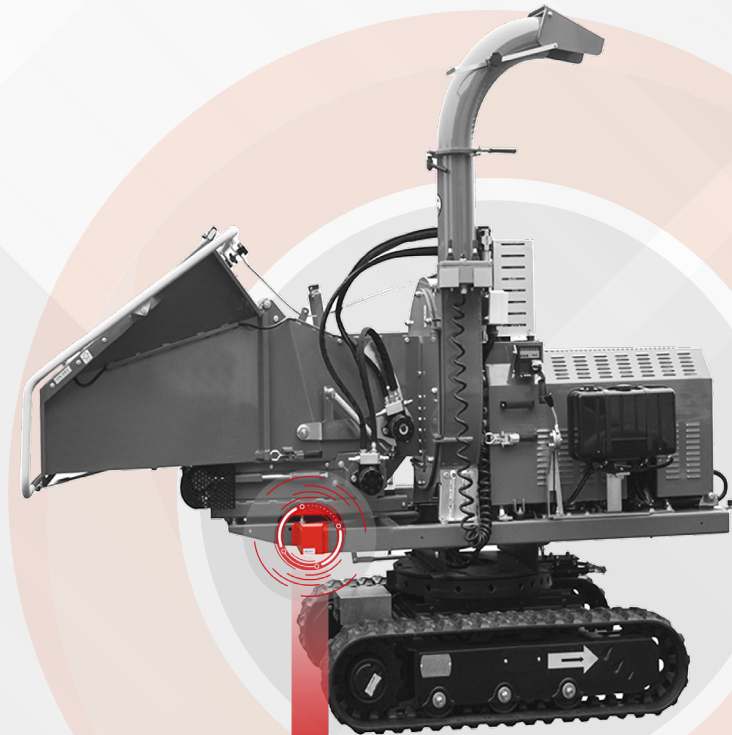
TLP200

Main boom
Inclination



TLP300

Tilt position
feedback



TLK100

Relay tilt switch with LED
status feedback

SELF-PROPELLED MACHINE



AGRICULTURAL
MACHINERY



SHREDDER



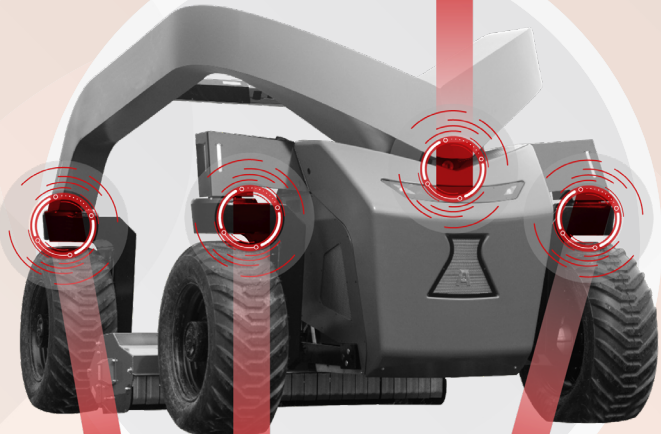
AGRICULTURAL
MACHINERY





TLP300

Tilt position
feedback



RTS100

Steering control



AUTONOMOUS IMPLEMENT CARRIER



AGRICULTURAL MACHINERY





TLP210

Triaxial accelerometer for dynamic weighing system



RTS100

Position monitoring of the parallel link arms of the row units



FERTILIZER SPREADER



AGRICULTURAL MACHINERY

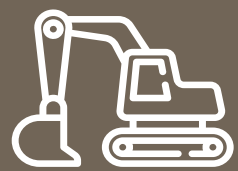


PLANTING MACHINE



AGRICULTURAL MACHINERY





CONSTRUCTION EARTH MOVING





EXCAVATOR

 **CONSTRUCTION
EARTH MOVING**



WHEEL LOADER

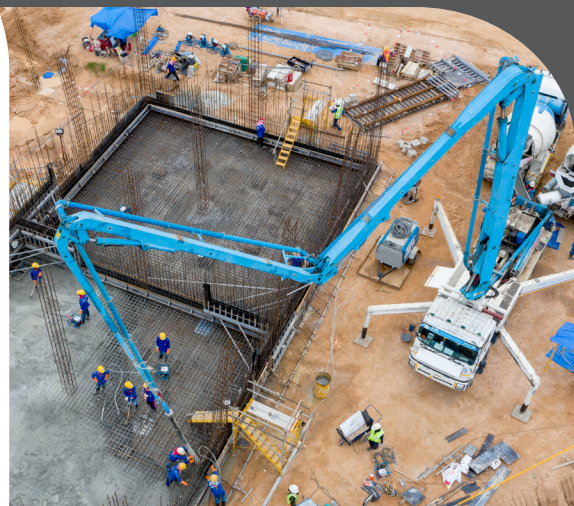
 **CONSTRUCTION
EARTH MOVING**





CONCRETE MIXER PUMP

 COSTRUCTION EARTH MOVING



PILING RIG

 COSTRUCTION EARTH MOVING





CET12

Flat tarpaulin position feedback



TLP300

Tilt position feedback



**TIPPER
SEMI-TRAILER**



CONSTRUCTION
EARTH MOVING



CET12

Hammer position feedback



TLP300

Tilt position feedback



PILE DRIVER



CONSTRUCTION
EARTH MOVING



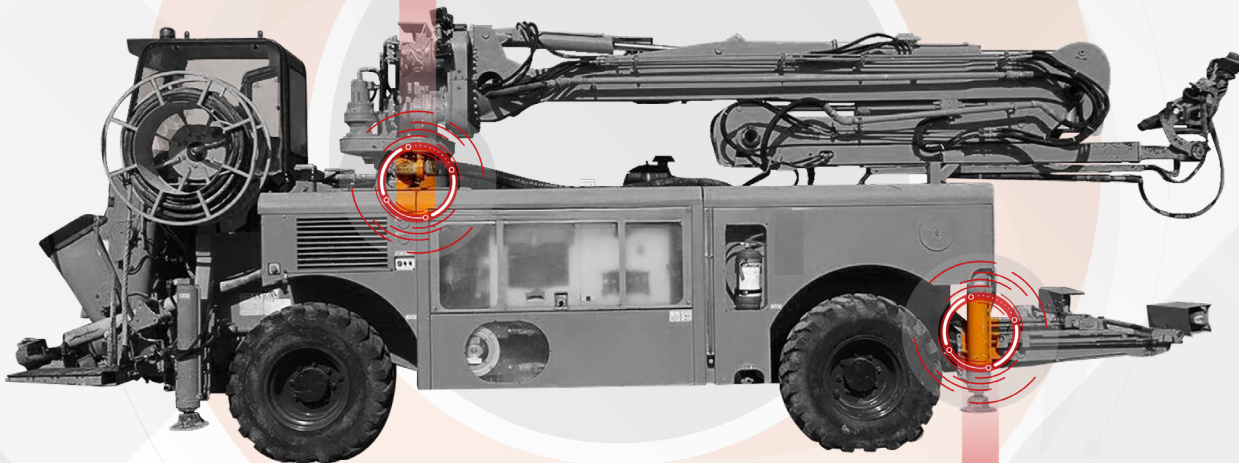




TLP300

Tilt position feedback







CET5

Outrigger position feedback



SPRITZ
BETON



COSTRUCTION
EARTH MOVING





URBAN AND MUNICIPAL





ROAD SWEEPER



URBAN AND
MUNICIPAL



REFUSE COLLECTION VEHICLE



URBAN AND
MUNICIPAL





MARINE

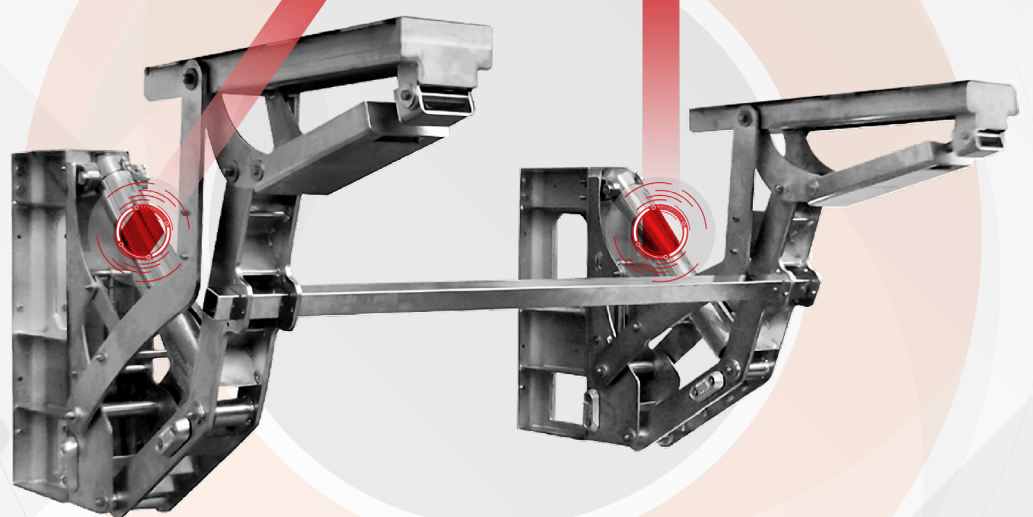








MAG300
Cylinder position control
for automatic tenderlift
leveling

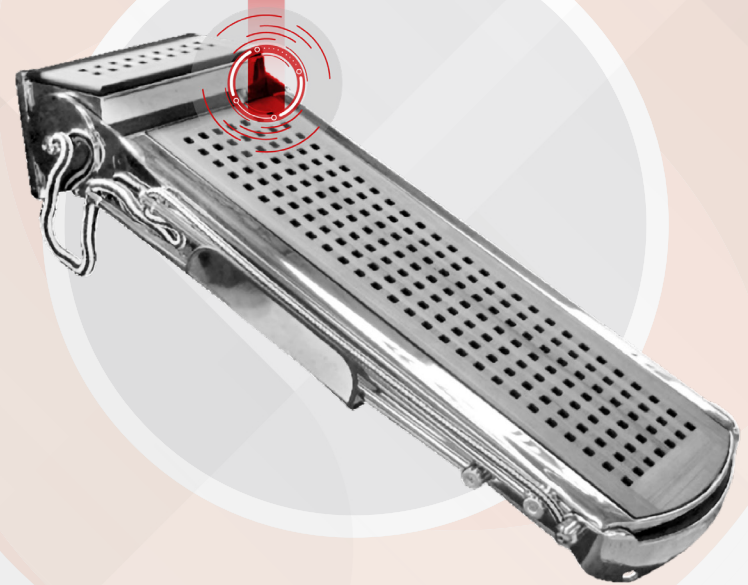






TLP300
Detection of gangway
inclination





TENDERLIFT



MARINE

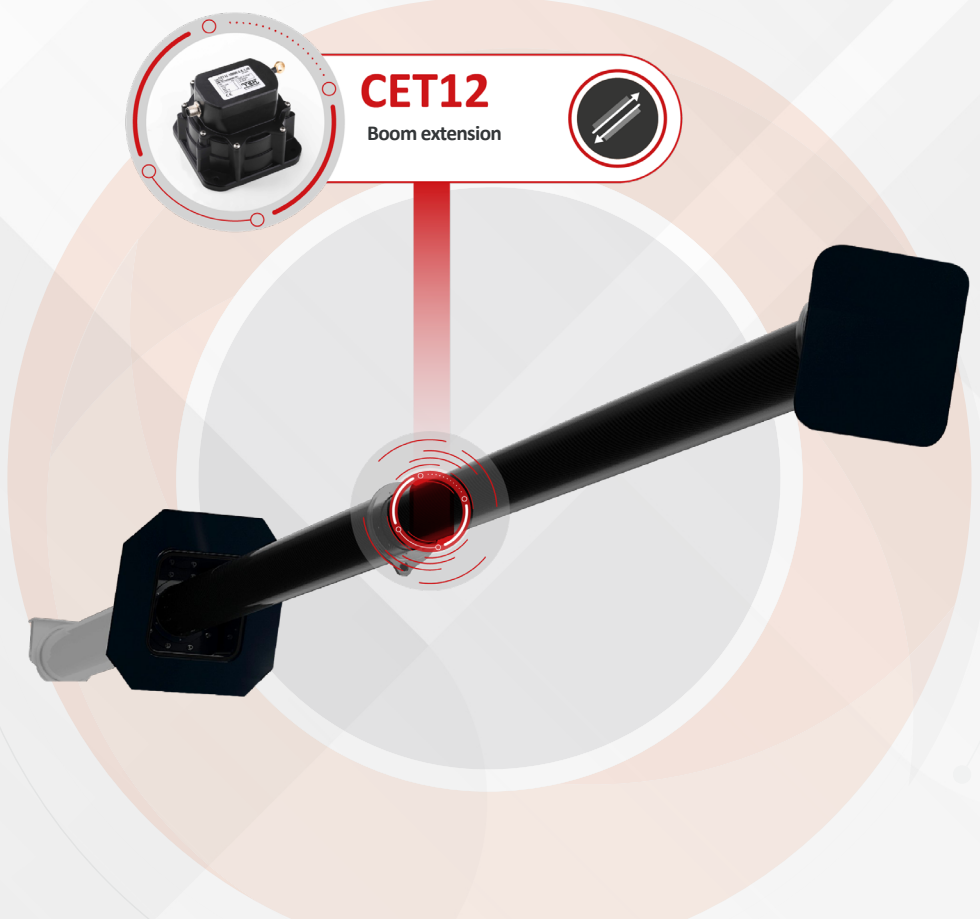


GANGWAY



MARINE





HYDRAULIC CRANE



MARINE



TENDER BOOM



MARINE





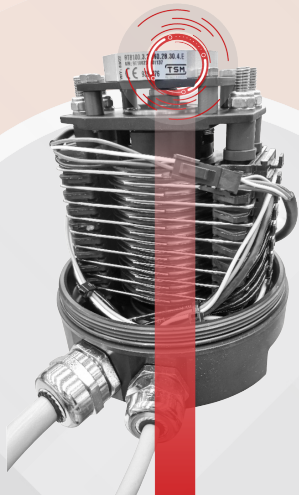
MANUFACTURERS OF ELECTRICAL SLIP RINGS





RTP100H

Slip ring position feedback
(encoder with shaft
tecnology)



RTS100

Slip ring position feedback
(contact-less encoder
tecnology)



SLIP RING



MANUFACTURERS
OF ELECTRICAL
SLIP RINGS

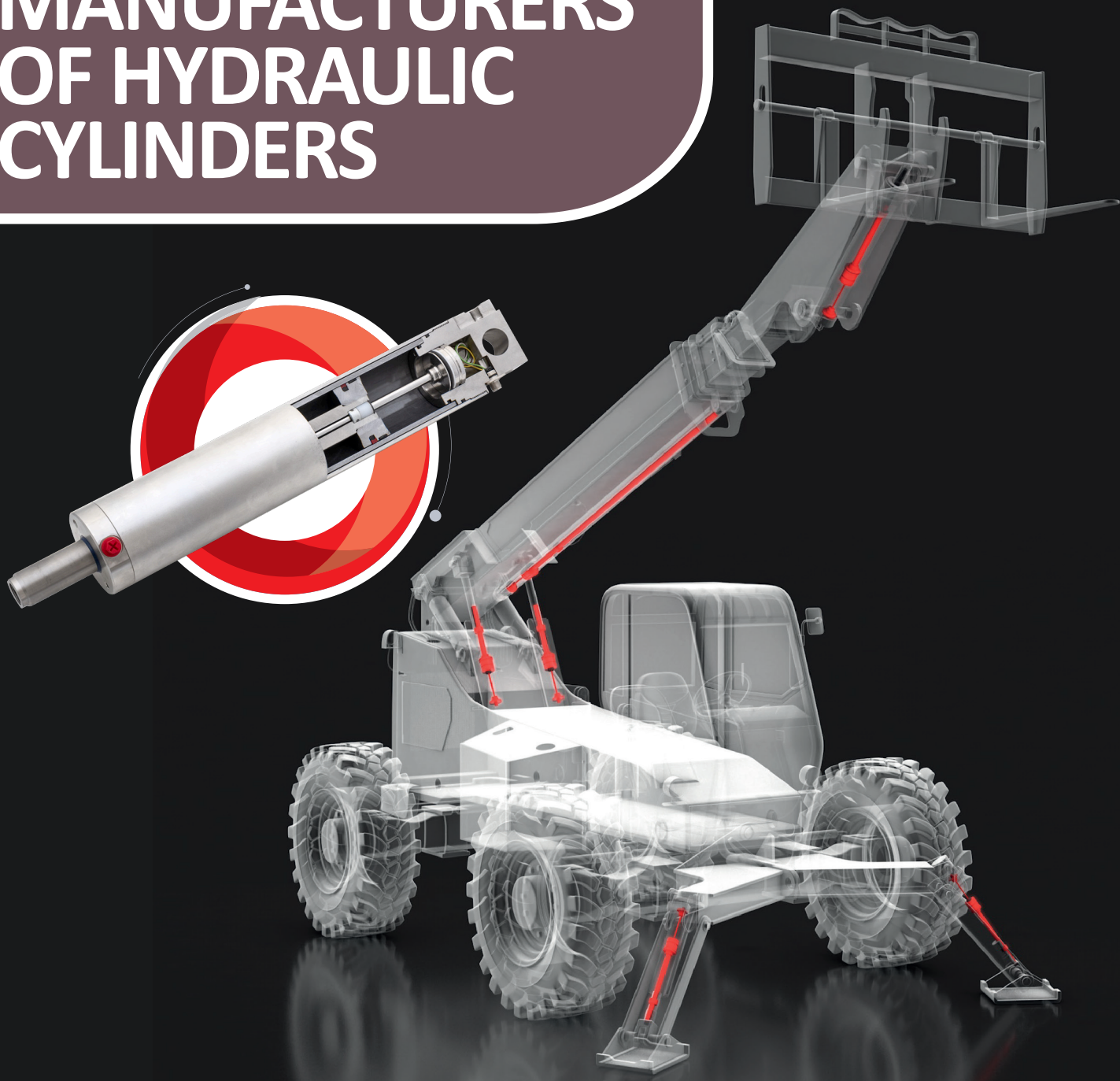


Electrical slip rings play a simple role: they transmit power and electrical signals (digital and analogue data) from a fixed structure to a rotating element and vice-versa. TSM offers shaft-mounted or separate magnetic rotor solutions that

are suited to all types of installation. This allows electrical slip rings to monitor and manage power and/or data flows in a single combined solution, improving mechanical performance and simplifying the functioning of the entire system.



MANUFACTURERS OF HYDRAULIC CYLINDERS



Every sector and every machine requires a different type of hydraulic cylinder. TSM collaborates in this field with the most important hydraulic cylinder manufacturers to develop high-quality

magnetostrictive transducers that guarantee the highest levels in terms of performance and safety for related sectors.



TSM has a **global certified quality management system according to DIN EN ISO 9001:2015** that is pervasive in all business settings.

TSM SENSORS SRL

Headquarter
Via Alcide De Gasperi, 6/8
25030 Zocco d'Erbusco (BS) - ITALY

+39 030 7001376

info@tsmsensors.com

tsm.sensors

TSM sensors

TSM SENSORS S.R.L.



tsmsensors.com

