



SENSORS

Application

Brochure



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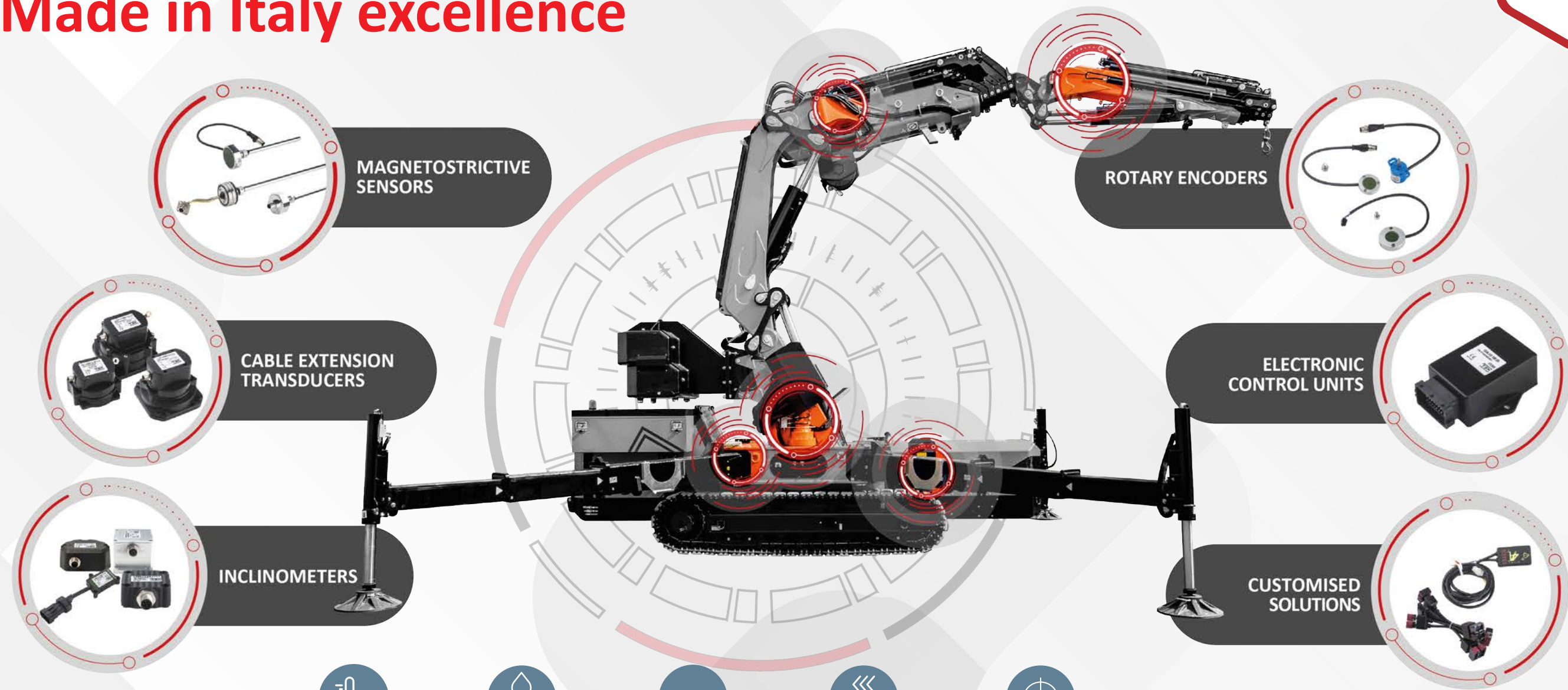
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TSM SENSORS: Made in Italy excellence




Wide-range
operating temperature
from -40°C to +85°C


IP67
protection
guaranteed

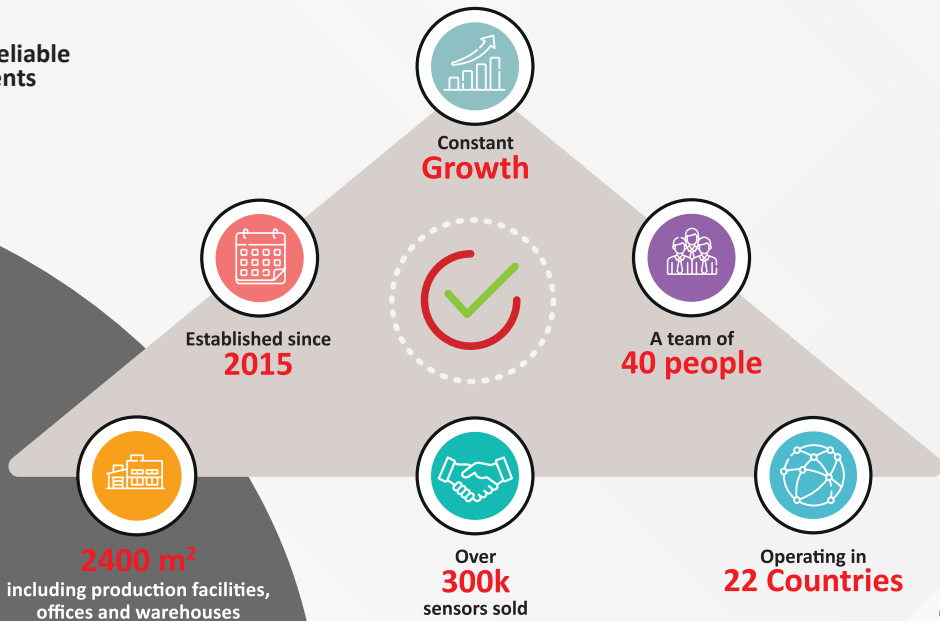

EMC
High electromagnetic
compatibility EMC


High resistance to
vibration and shock


Accurate and reliable
measurements

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

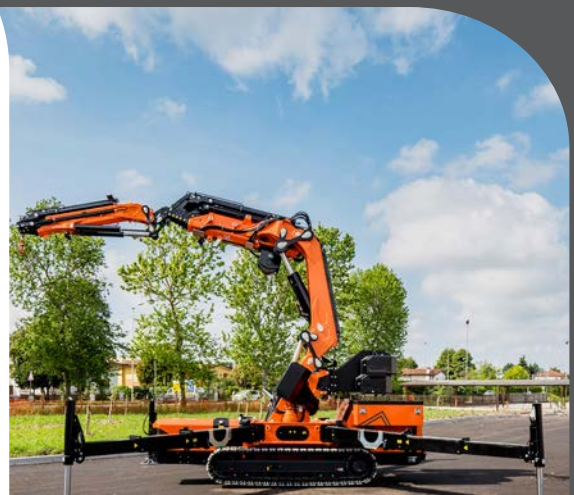




ARTICULATED CRAWLER CRANE



HANDLING & LIFTING

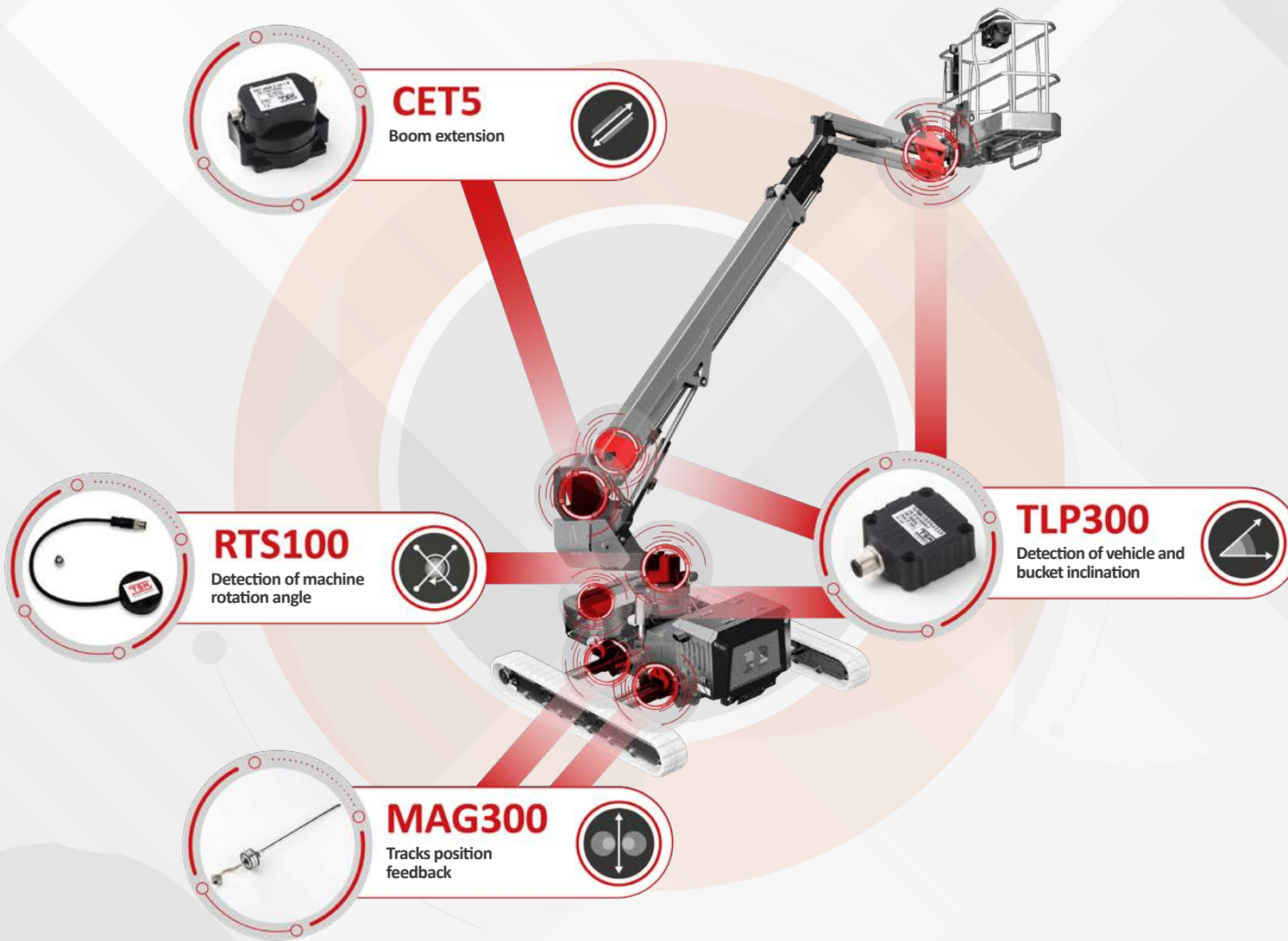


TRUCK MOUNTED CRANE



HANDLING & LIFTING

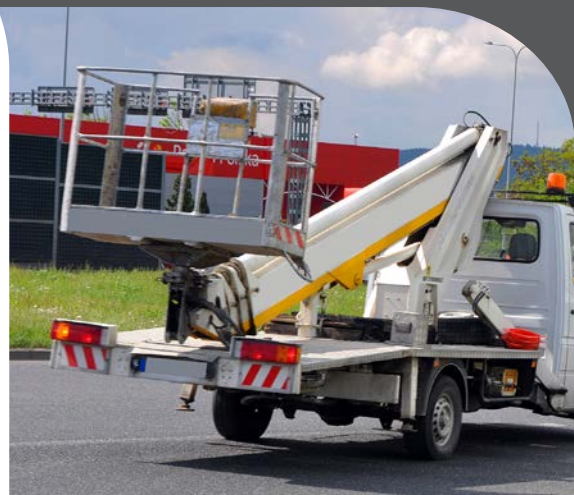




TRUCK MOUNTED AWP



HANDLING & LIFTING



SPIDER-TYPE AWP



HANDLING & LIFTING





SELF-PROPELLED AWP



HANDLING & LIFTING



TELEHANDLER



HANDLING & LIFTING

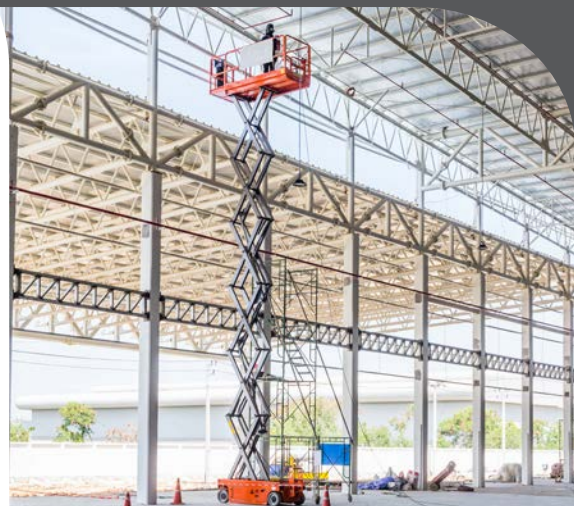




SCISSOR LIFT



HANDLING
& LIFTING

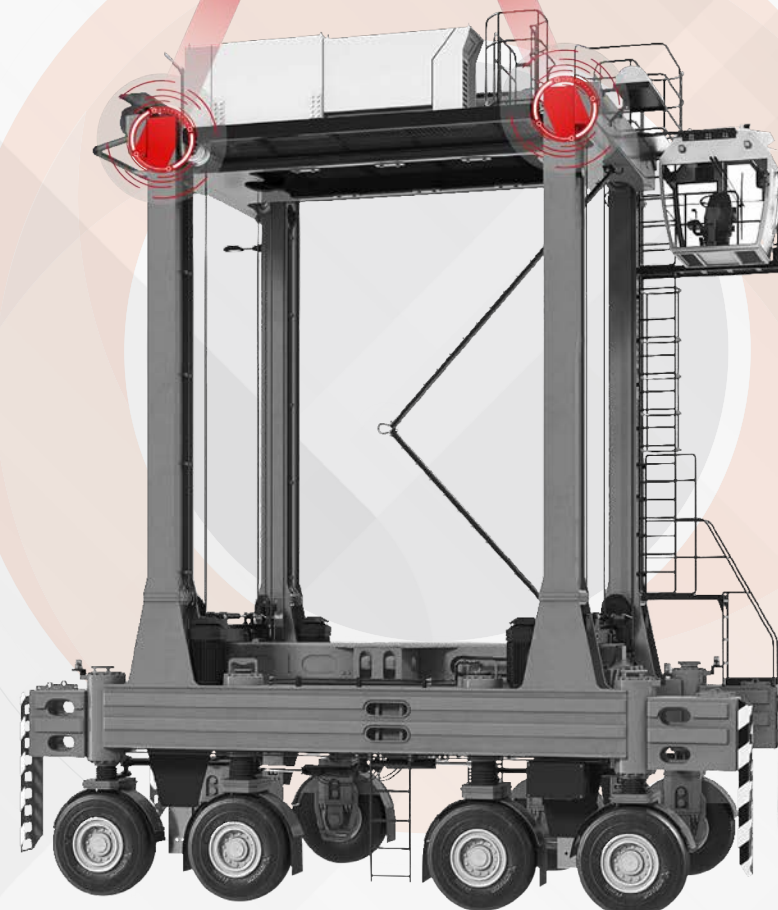
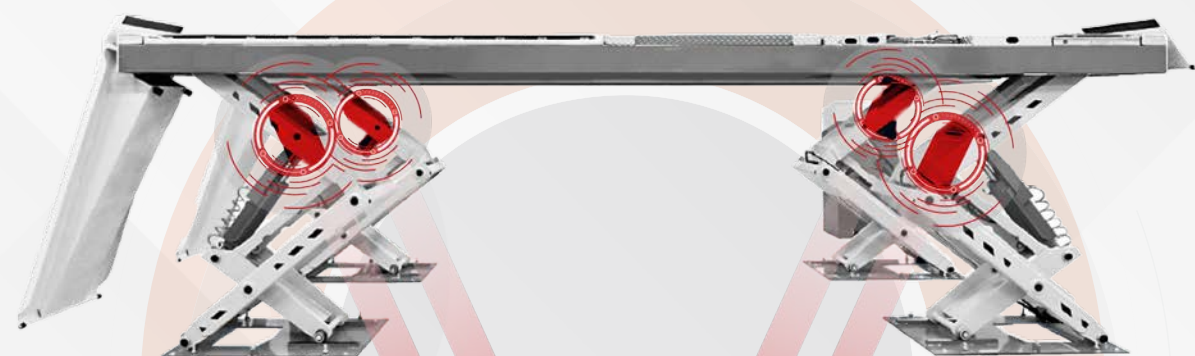


HOOKLIFT



HANDLING
& LIFTING





ELECTROHYDRAULIC LIFT



HANDLING
& LIFTING



16

STRADDLE CARRIER



HANDLING
& LIFTING



17



SIDELOADER



HANDLING
& LIFTING

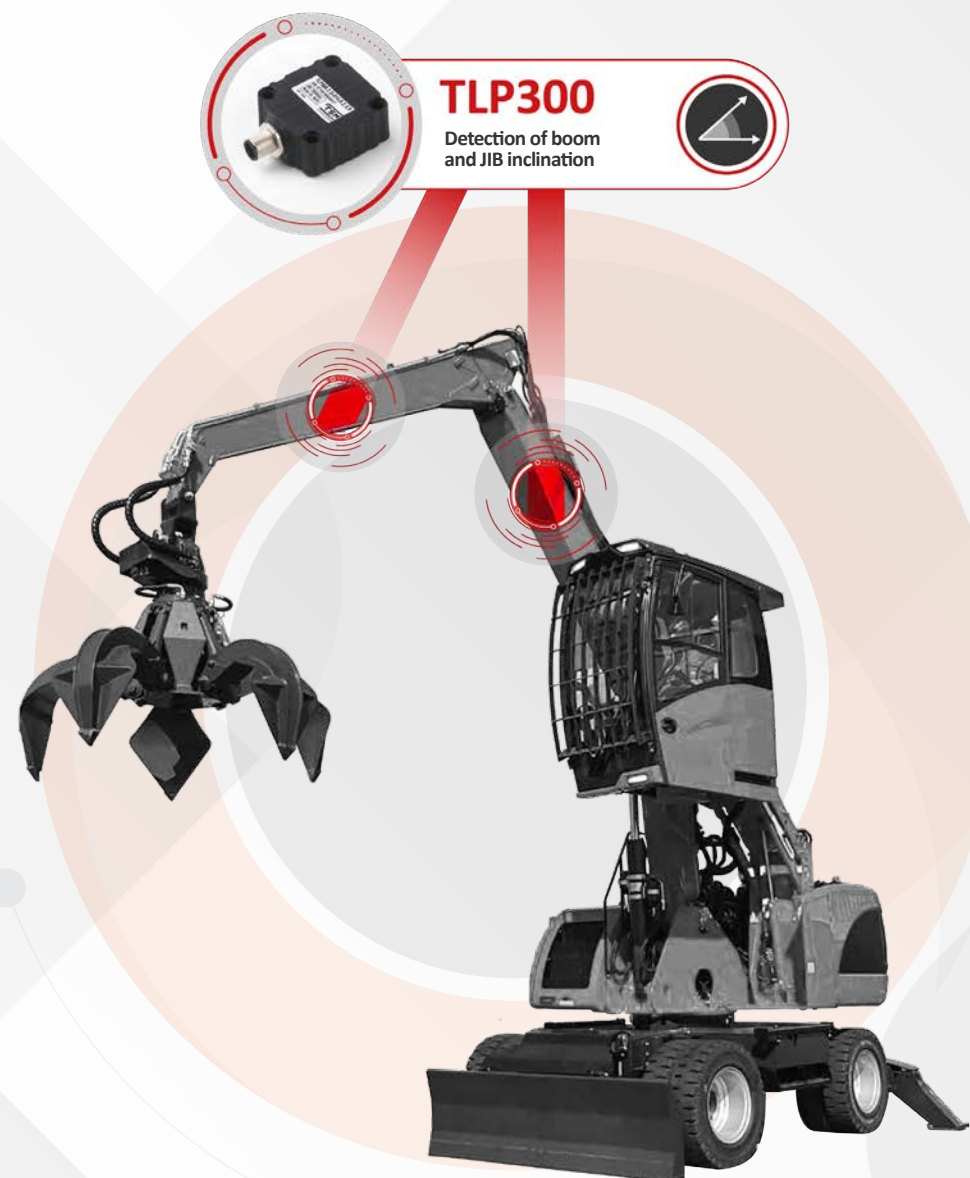


FORESTRY CRANE



HANDLING
& LIFTING





SELF-PROPELLED MATERIAL HANDLER



HANDLING
& LIFTING



REACH STACKER



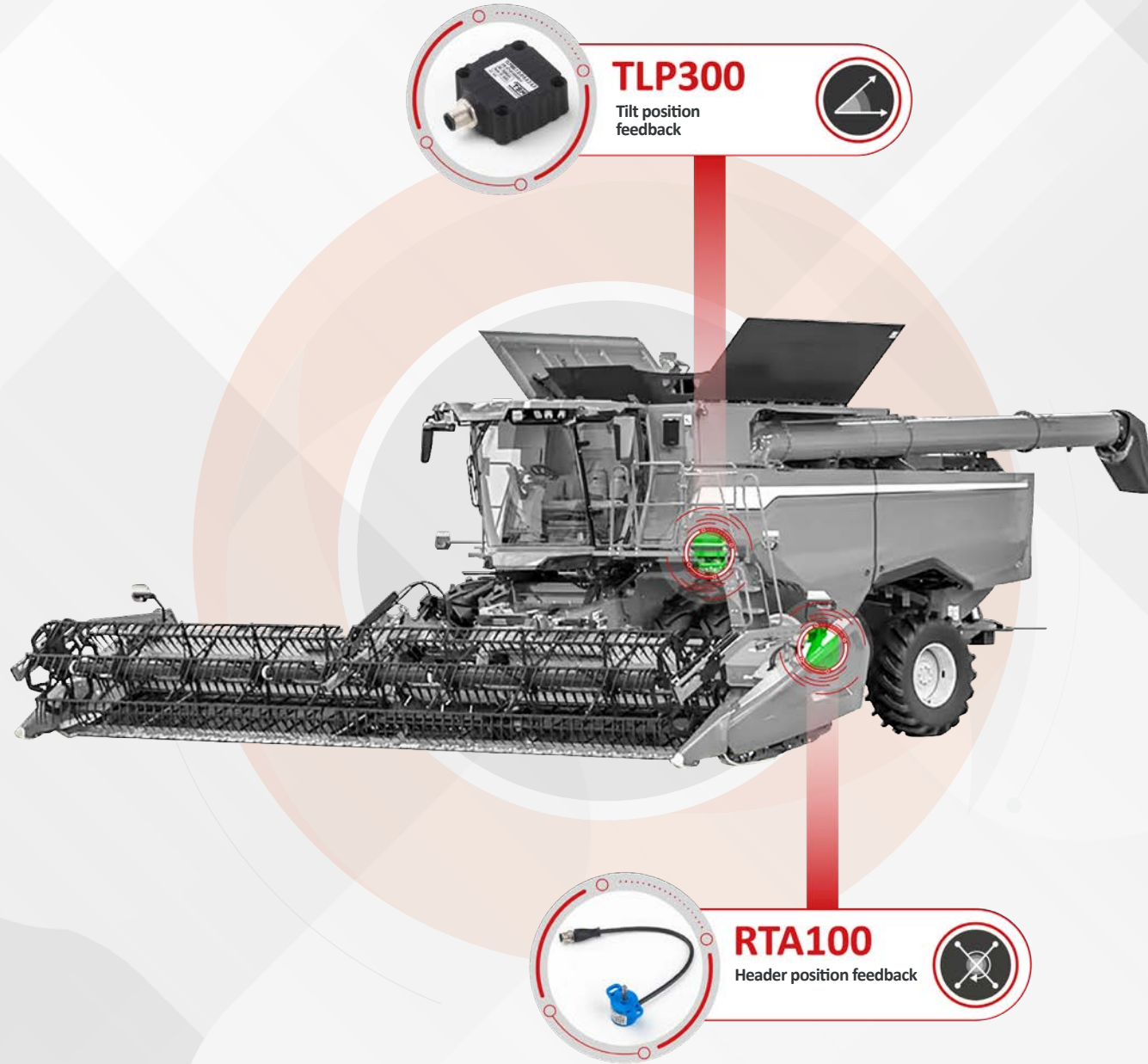
HANDLING
& LIFTING





AGRICULTURAL MACHINERY





TRACTOR



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MACHINERY

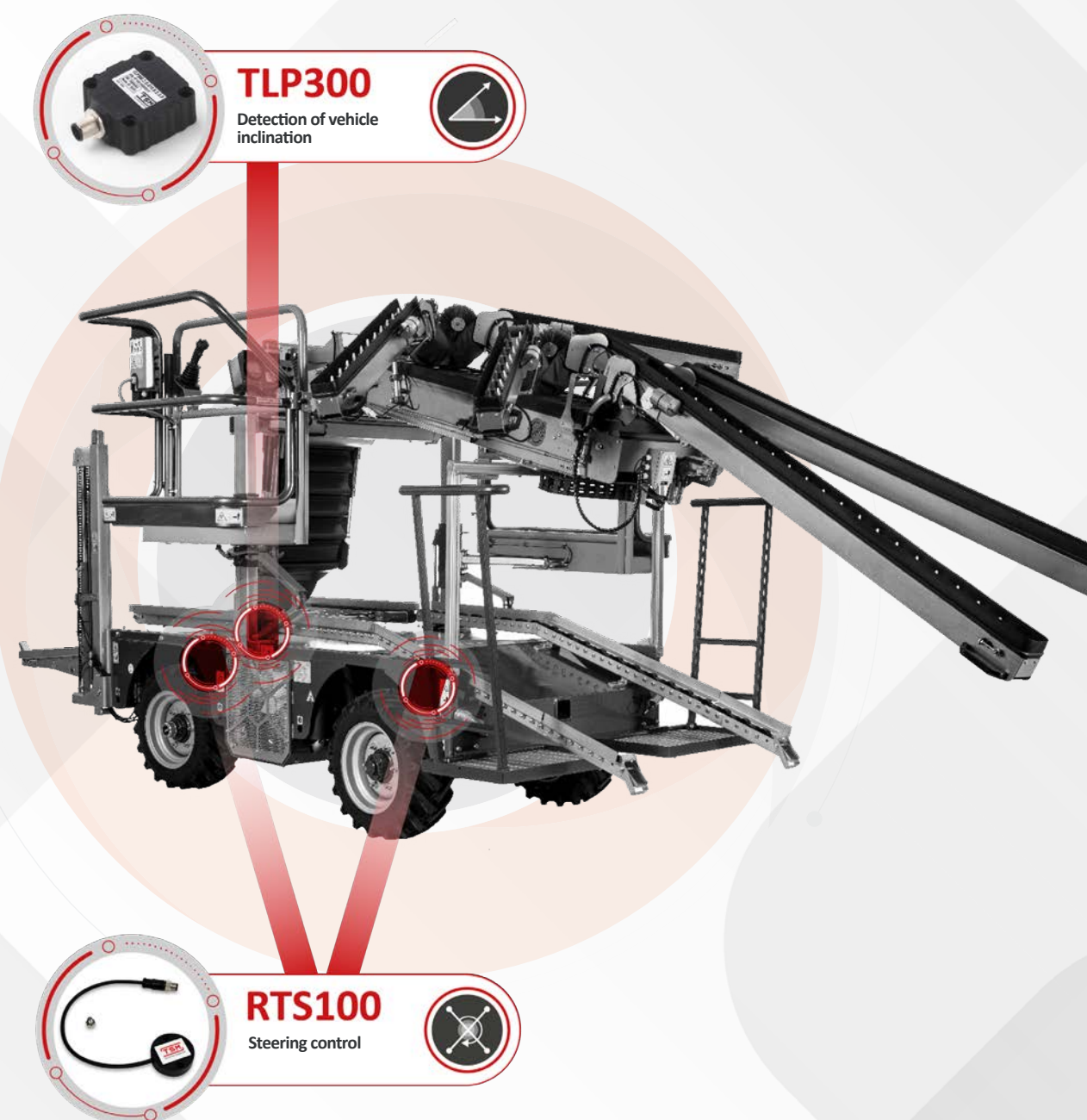


COMBINE HARVESTER



AGRICULTURAL
MACHINERY

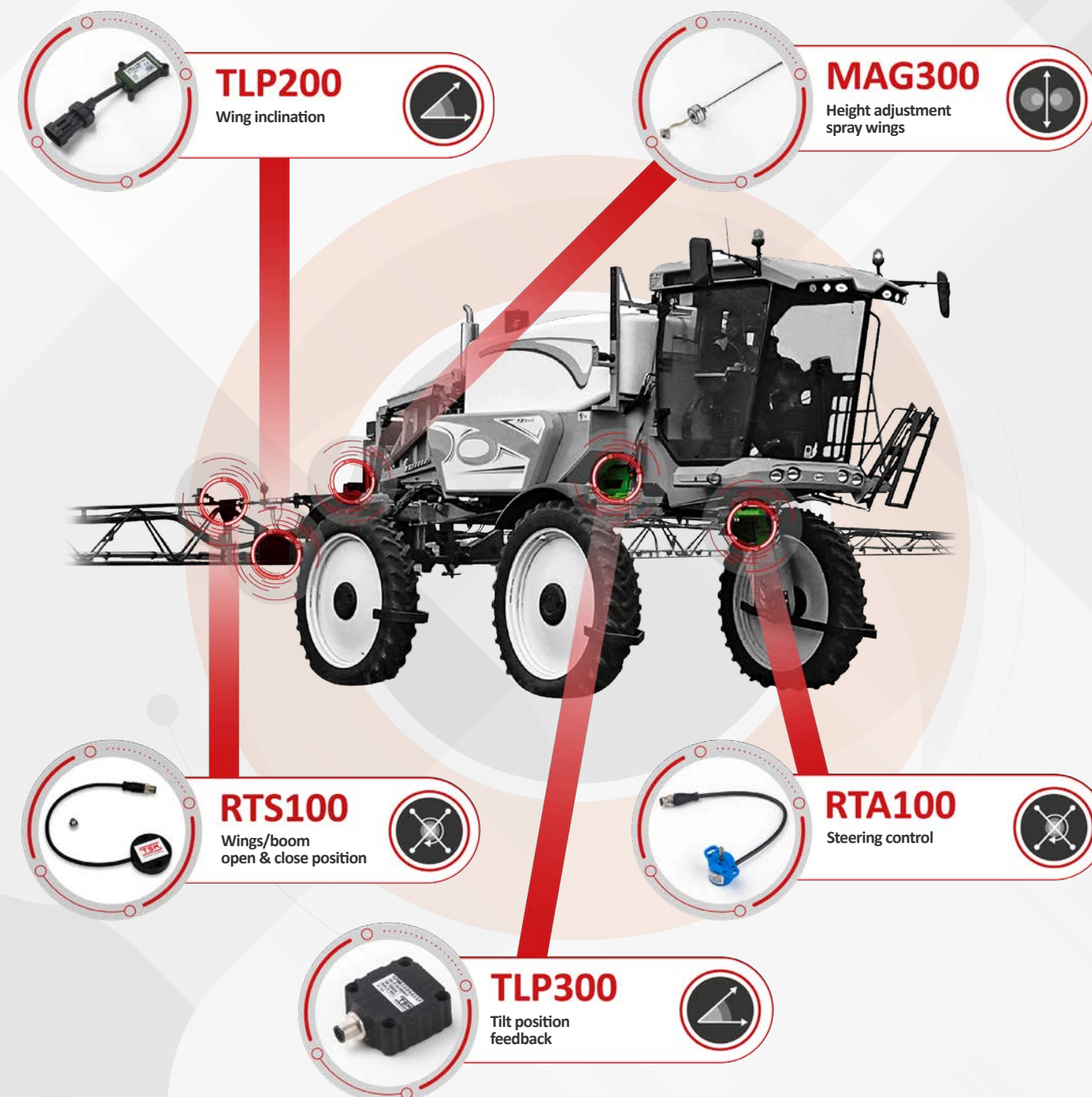




FRUIT HARVESTER



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MACHINERY



AGRICULTURAL SPRAYER



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MACHINERY





CET12

Boom inclination /
length feedback



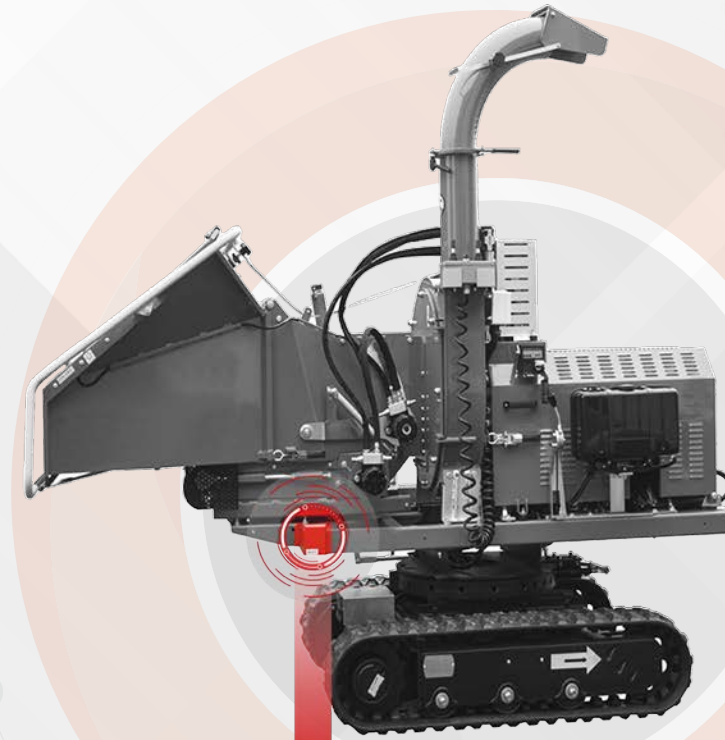
TLP200

Main boom
Inclination



TLP300

Tilt position
feedback



TLK100

Relay tilt switch with LED
status feedback

SELF-PROPELLED MACHINE



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SHREDDER



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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



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MACHINERY

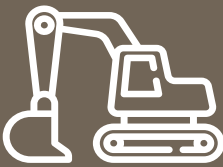


PLANTING MACHINE



AGRICULTURAL
MACHINERY





CONSTRUCTION EARTH MOVING





EXCAVATOR



COSTRUCTION
EARTH MOVING



WHEEL LOADER



COSTRUCTION
EARTH MOVING





CONCRETE MIXER PUMP

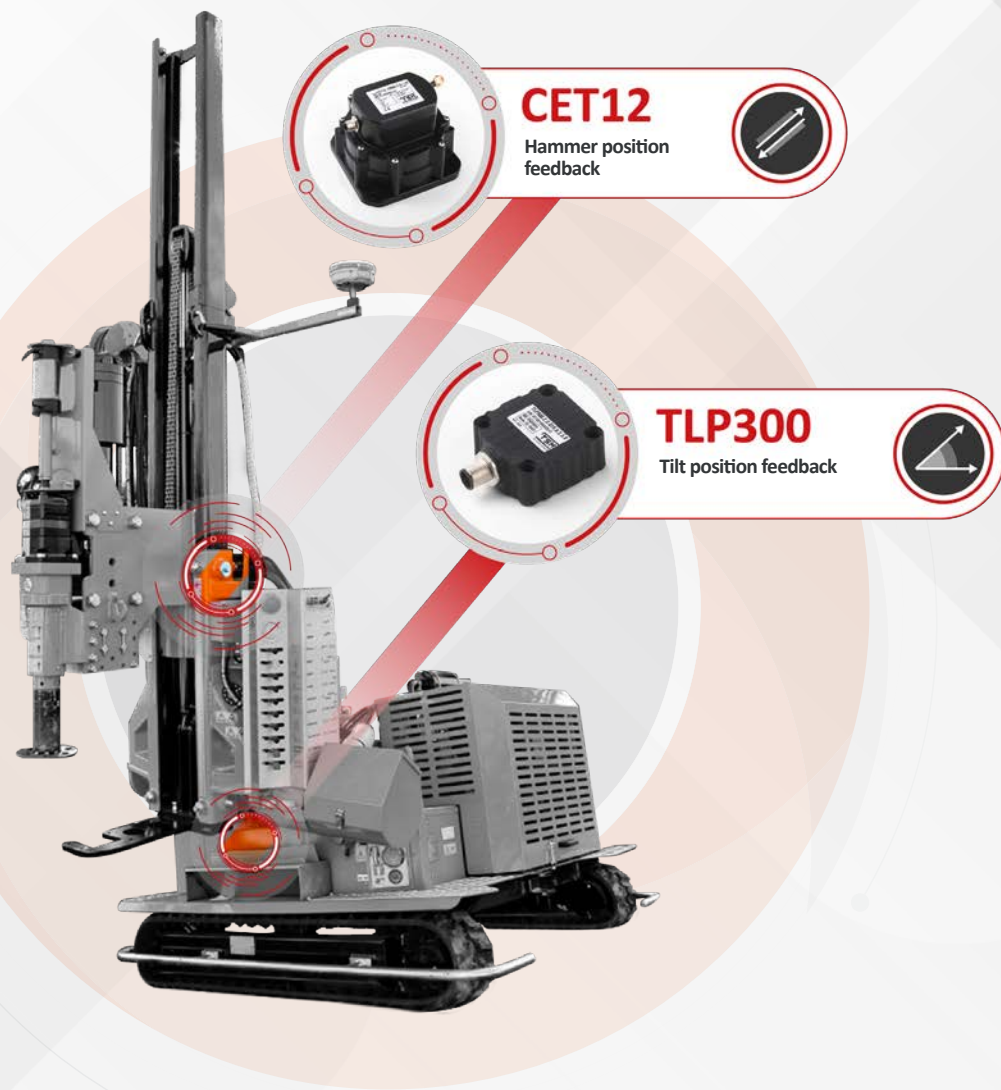
 **CONSTRUCTION EARTH MOVING**



PILING RIG

 **CONSTRUCTION EARTH MOVING**





TIPPER SEMI-TRAILER

 **COSTRUCTION
EARTH MOVING**



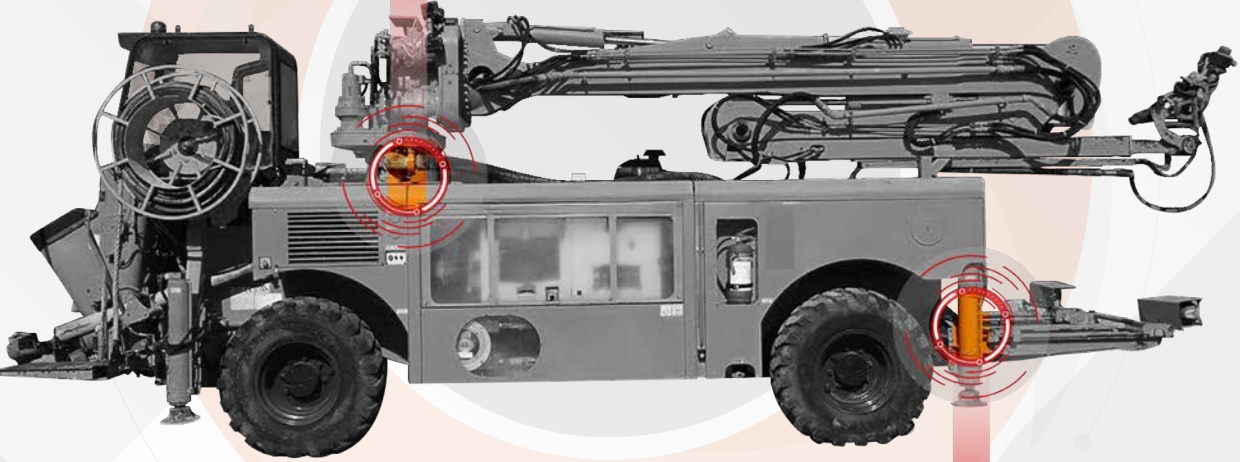
PILE DRIVER

 **COSTRUCTION
EARTH MOVING**





TLP300
Tilt position feedback



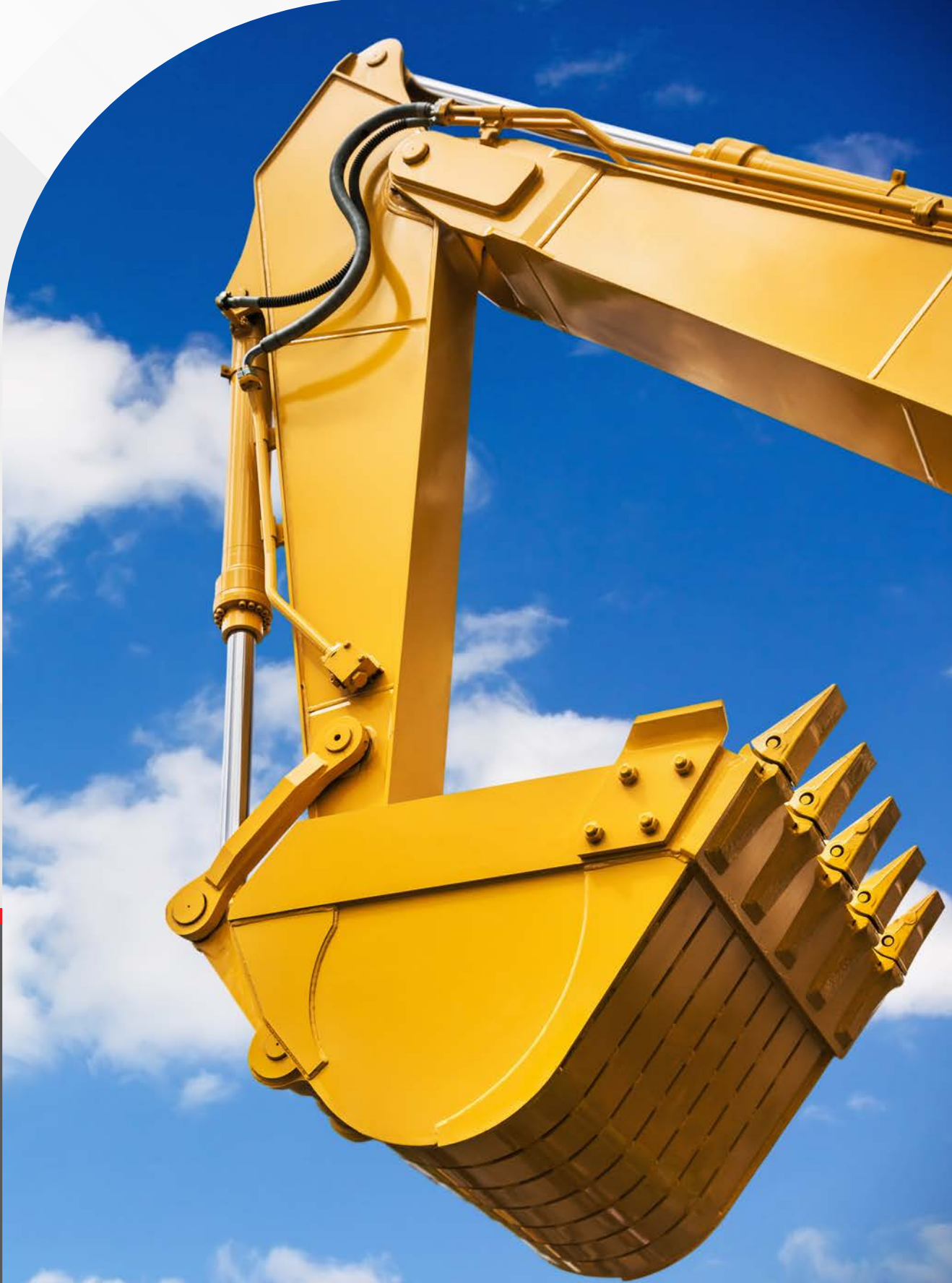
CET5
Outrigger position feedback



SPRITZ
BETON



COSTRUCTION
EARTH MOVING





URBAN AND MUNICIPAL





ROAD SWEEPER



URBAN AND
MUNICIPAL



REFUSE COLLECTION VEHICLE



URBAN AND
MUNICIPAL





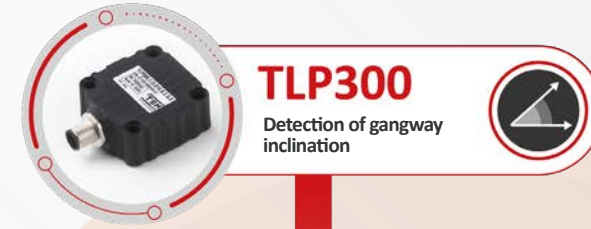
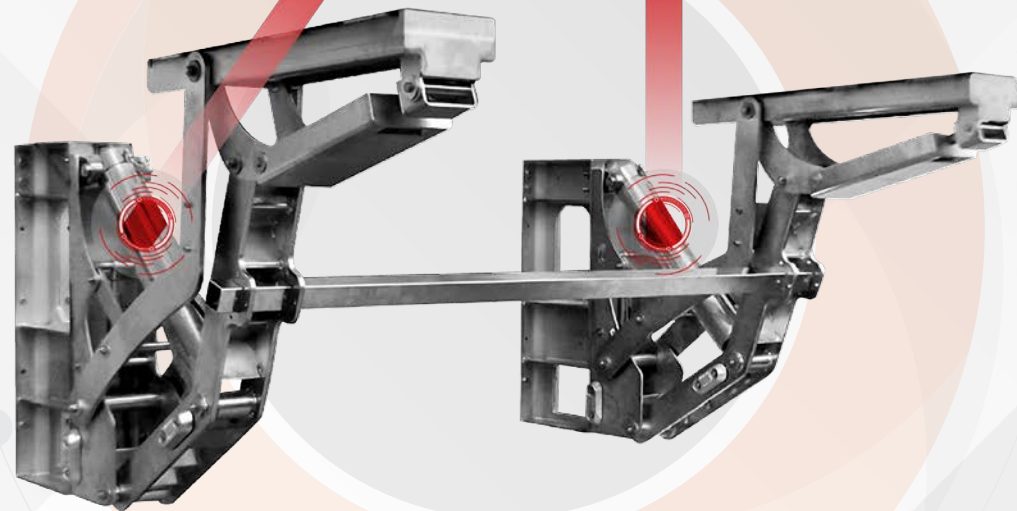
MARINE





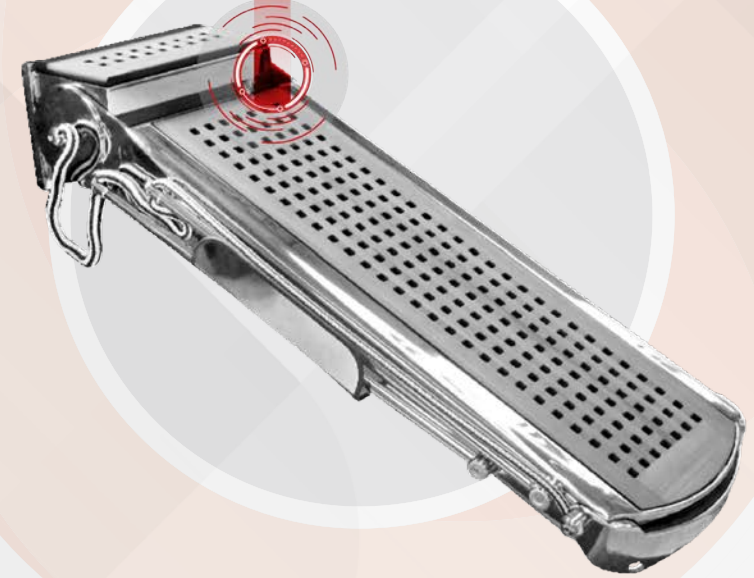
MAG300

Cylinder position control
for automatic tenderlift
leveling



TLP300

Detection of gangway
inclination



TENDERLIFT



MARINE



GANGWAY



MARINE





HYDRAULIC CRANE



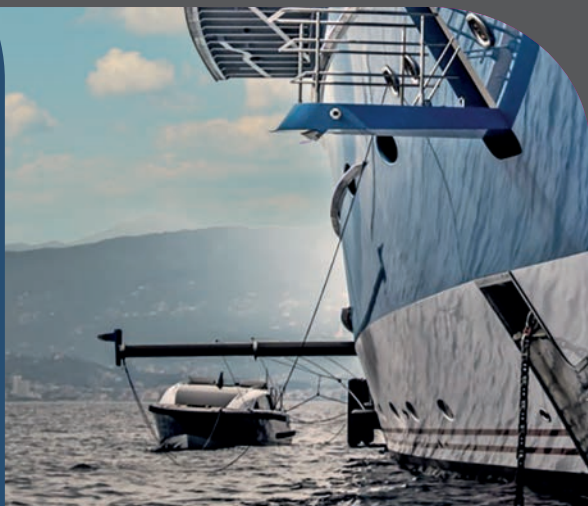
MARINE



TENDER BOOM



MARINE





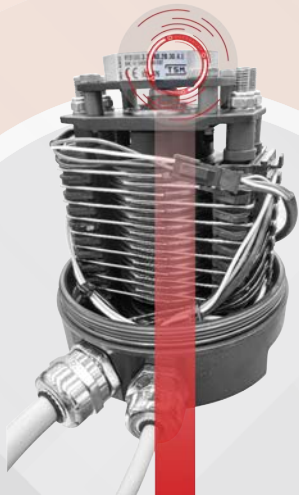
MANUFACTURERS OF ELECTRICAL SLIP RINGS





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.

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