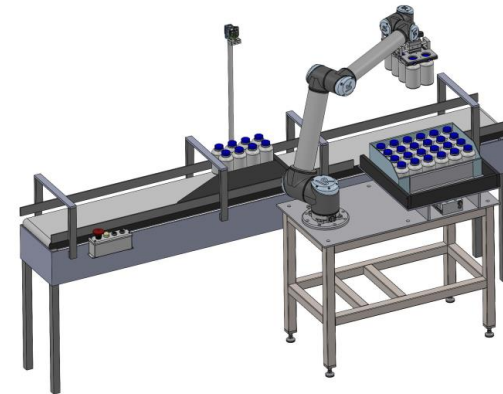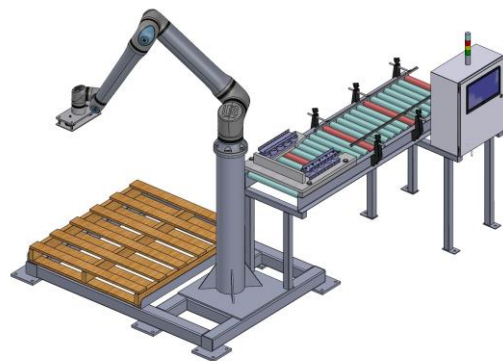# TX-ROBOTICS® COLLABORATIVE—MOBILE—INTELLIGENT SYSTEMS
TX-STACK ® EQUIPPED

Our Collaborative-Mobile-Intelligent Systems redefine the concept of a modern Robotic system. These systems potentiate productivity in a diverse range of applications. We integrate a Safe Collaborative Robot with Mobility features, then incorporate our proprietary **TX-STACK**® operating system that brings all of the system's capabilities to the user's fingertips on the Touchscreen Monitor.
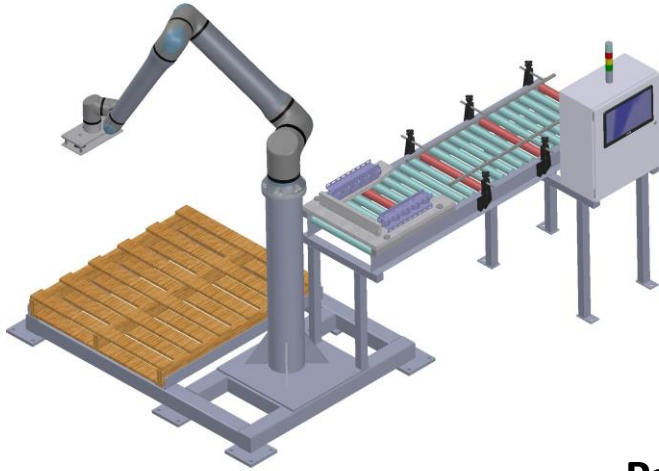
These systems are easily integrated into existing manufacturing processes to provide palletizing, cartonizing, pick-place, vision inspection, and more. Our latest Vision System Apps employ AI technology that makes difficult inspections seem easy. These systems are available with a variety of robots with payloads from 5kg to 30kg, and can be equipped with a variety of end of arm tools specifically designed for collaborative operation.

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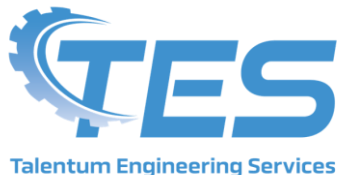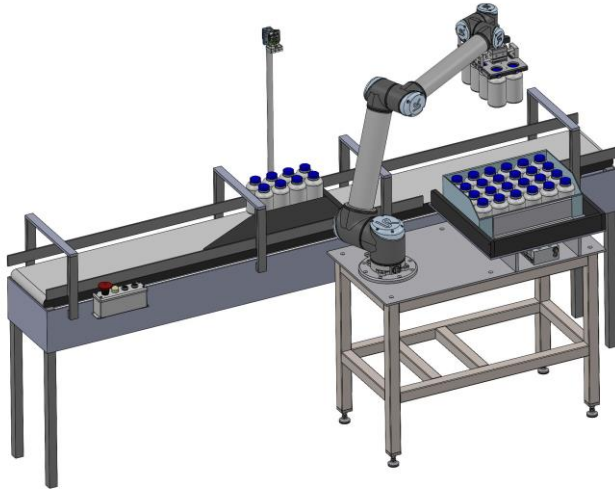## SINGLE PALLET COBOTIC PALLETIZING SYSTEMS

Single Pallet Systems offer a cost effective solution for palletizing where production does not require continuous stacking, or where there are space constraints. Systems are available with a variety of robots with payloads from 10kg to 30kg.

PRODUCT SPECIFICATIONS

	TXRC-10-1	TXRC-20-1	TXRC-30-1-F
Payload	Max 22lbs/10kg	Max 44lbs/20kg	Max 66lbs/30kg
Stack Hgt.	Max 60in/1930mm	Max 60in/2100mm	Max 66/2667mm
Cycle Time	Max 10 cycles/min	Max 10 cycles/min	Max 10 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift/Pallet Jack	Forklift/Pallet Jack	Forklift/Pallet Jack
Footprint	72in x 72in	72in x 72in	72in x 72in

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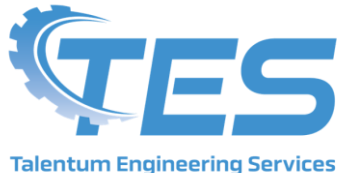
TX-ROBOTICS® COBOTIC CASE PACKING SYSTEMS

Cobotic Case Packing Systems place products into cardboard boxes. Typical systems are equipped with a product delivery conveyor, a box delivery conveyor, and a product pick nest assembly. The nest assembly is capable of nesting multiple products to be picked. Cobotic Case Packing System are Mobile and thus may
be moved to various locations.

PRODUCT SPECIFICATIONS

	TXRCP-5-1	TXRCP-10-1	TXRC-20-1-F
Payload	Max 11lbs/5kg	Max 22lbs/10kg	Max 44lbs/20kg
Cycle Time	Max 12 cycles/min	Max 12 cycles/min	Max 10 cycles/min
Input	Varies with Product	Varies with Product	Varies with Product
Box Conveyor	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Footprint	72in x 72in	72in x 72in	72in x 72in

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COBOTIC MACHINE TENDING SYSTEMS

Cobotic Machine Tending Systems handle parts . Typical systems are equipped with trays or bins, nests, and optionally a Vision Inspection System. The system is capable of feeding and removing parts at other machines, such as machining systems or sheet metal systems. Cobotic Machine Tending Systems are Mobile and thus may be moved from machine to machine. Optionally, these systems can be set up for labeling and Laser Marking.

PRODUCT SPECIFICATIONS

	TXRCP-5-1	TXRCP-10-1	TXRC-20-1-F
Payload	Max 11lbs/5kg	Max 22lbs/10kg	Max 44lbs/20kg
Cycle Time	Max 12 cycles/min	Max 12 cycles/min	Max 10 cycles/min
Input	Varies with Product	Varies with Product	Varies with Product
Box Conveyor	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Footprint	72in x 72in	72in x 72in	72in x 72in

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TX-ROBOTICS® AMR / AGV READY SYSTEMS

All of our Systems can be configured for operation with Autonomous Mobile Robots, both Platform and Forked type units. Our **TX-STACK**® Operating System seamlessly integrates the AMR Fleet Management System to provide complete control of AMR traffic throughout the facility.

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TX-ROBOTICS® TX-STACK ® USER INTERFACE AND OPERATING SYSTEM

All TX-Robotics systems are controlled by our **TX-STACK** ® Operating System, which runs on a State of the Art Hybrid Industrial PC/PLC system using a Windows 10 Embedded operating system. This system is capable of real time PLC control in addition to concurrent execution of Windows 10 apps, which includes the Pallet Pattern management, Vision System, and AMR Vehicle Fleet Management System, if equipped. **TX-STACK** ® provides seamless integration of Vision Inspection using State of the Art camera systems that employ AI technology.
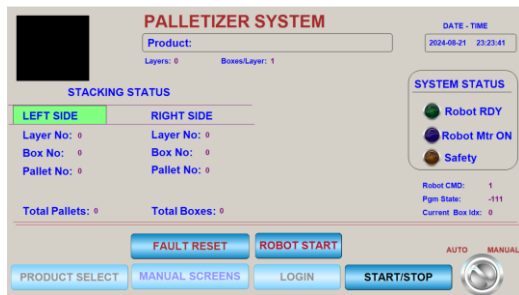
System Main Screen
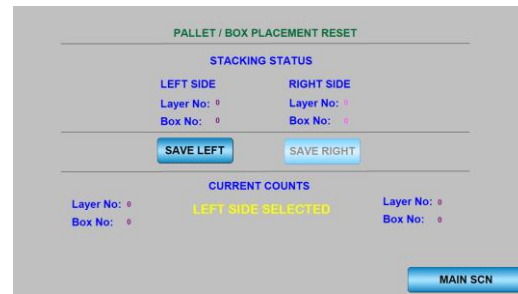
Box Placement Screen
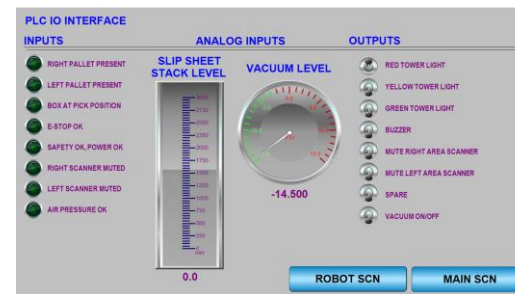
PLC - I/O Interface Screen
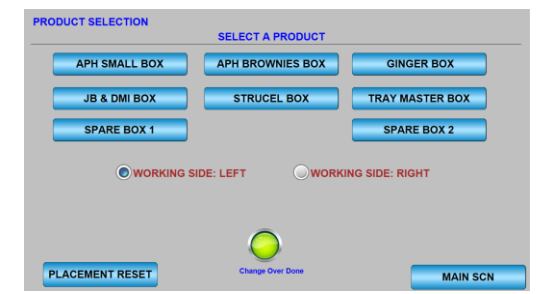
Product Selection Screen
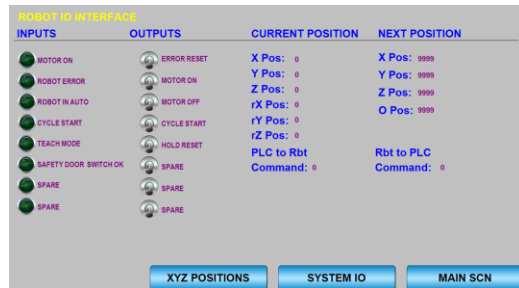
Robot Interface Screen
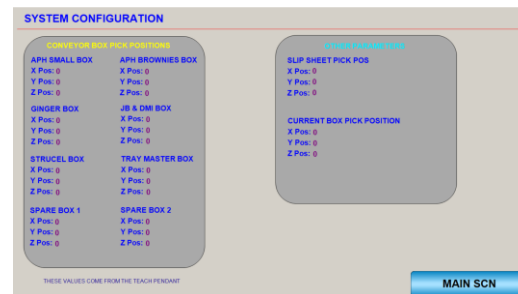
System Configuration Screen
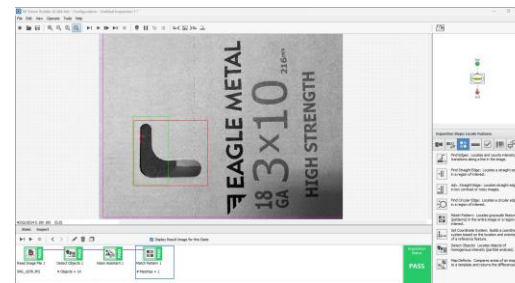
Vision Inspection Screen
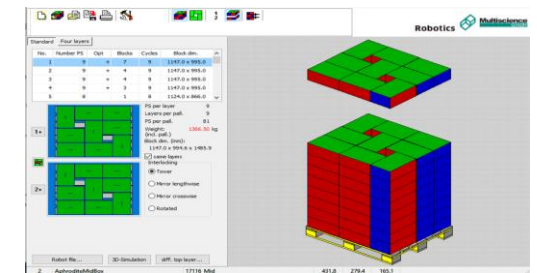
Pallet Pattern Management Screen
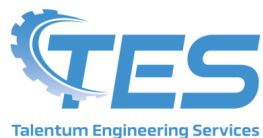
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TX-ROBOTICS® DOCUMENTATION AND OPERATION MANUALS

All TX-Robotics Systems are delivered with a complete set of documentation, which is provided in easy to access PDF format, and available directly from the Touchscreen User HMI.
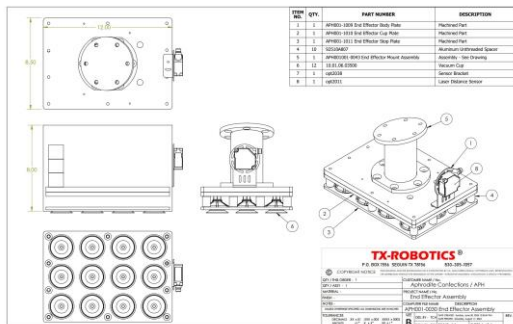
Assembly Drawings
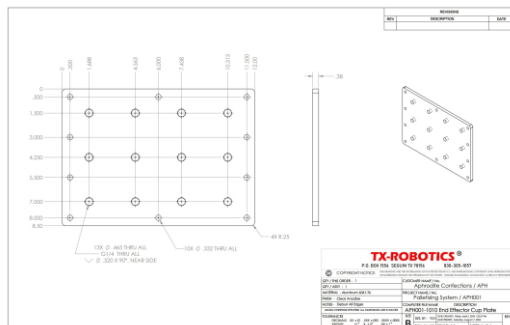
Part Drawings
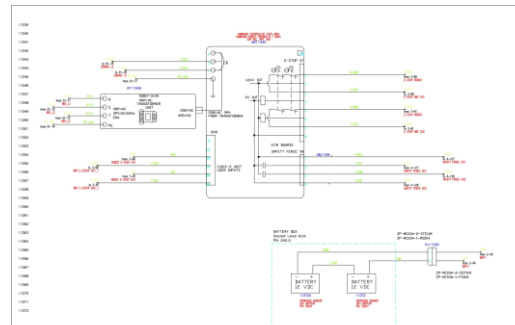
Electrical Schematics

Bill of Material

Recommended Spare Parts List

Operations Manuals

Periodic Maintenance

Keyence Safety Scanner | PLC Programs | Robot Programs | Stacking Patterns
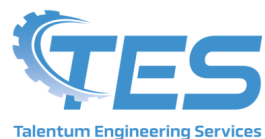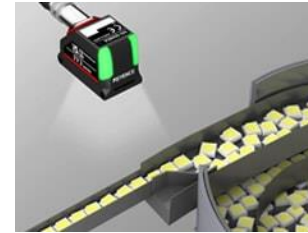
Program Backups

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TX-ROBOTICS® END OF ARM TOOLS, AND OPTIONAL FEATURES

WE OFFER SMC PNEUMATICS COBOT GRIPPERS

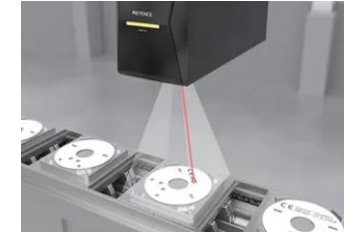VISION SYSTEMS   LABELING SYSTEMS   LASER MARKING

We offer a wide range of End of Arm Tools specifically designed for Cobots to suit whatever products you are stacking, We can also custom design tools to suit any application.

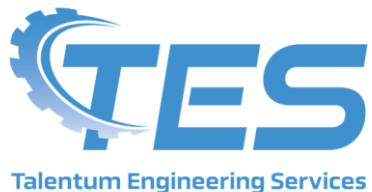Where required, we can equip your system with a wide range of secondary operations such as vision systems, labeling, barcode reading, RFID tracking, and Laser marking.

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