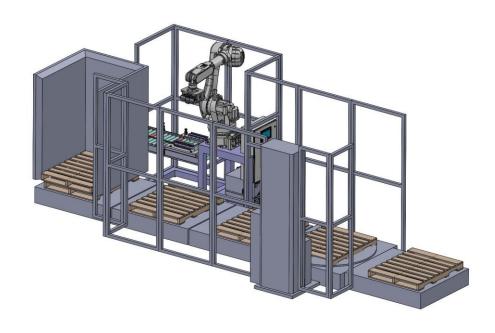
TX-ROBOTICS® ROBOTIC AND COBOTIC SYSTEMS PRODUCT SPECIFICATIONS



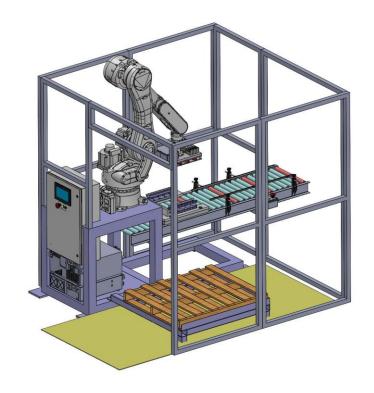
This Product Guide provides information for the TX-Robotics product line. The Guide describes the capabilities for each system we offer, and the range of robot payloads and capabilities.

If needed, we offer Engineering drawings, with dimensions and specifications should that information be required.

TX-Robotics can provide a complimentary system proposal to customers who are considering purchasing a system. The Proposal contains all system information, with pricing and delivery timeline.



TX-ROBOTICS® SINGLE PALLET COMPACT SYSTEMS



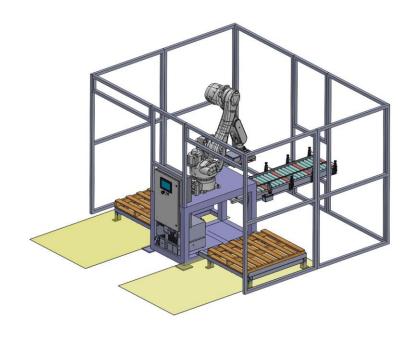
Single Pallet Systems offer a cost effective solution for palletizing where production does not require continuous stacking, or where there are space constraints. Systems are available with a variety of robots with payloads from 20kg to 180kg.

PRODUCT SPECIFICATIONS

	TXR-20-1	TXR-80-1	TXR-180-1
Payload	Max 44ibs/20kg	Max 176lbs/80kg	Max 396lbs/180kg
Stack Hgt.	Max 76in/1930mm	Max 82in/2100mm	Max 105in/2667mm
Cycle Time	Max 8 cycles/min	Max 7 cycles/min	Max 7 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)
Footprint	102in x 102in	102in x 102in	123in x 118in



TX-ROBOTICS ® 2 PALLET CONTINOUS OPERATION SYSTEM



Double Pallet systems offer continuous stacking capability, with the ability to alternate between the two positions. If equipped with two product nests, the system can stack two different products. Double Pallet systems are available with a variety of robots with payloads from 20kg to 180kg.

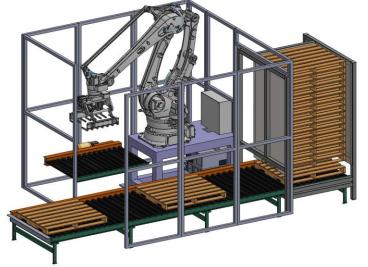
PRODUCT SPECIFICATIONS

	TXR-20-2	TXR-80-2	TXR-180-2
Payload	Max 44ibs/20kg	Max 176lbs/80kg	Max 396lbs/180kg
Stack Hgt.	Max 76in/1930mm	Max 82in/2100mm	Max 105in/2667mm
Cycle Time	Max 8 cycles/min	Max 7 cycles/min	Max 7 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)
Footprint	120in x 156in	120in x 156in	132in x 169in



TX-ROBOTICS® AUTOMATIC PALLET DISPENSING SYSTEMS

Automatic Pallet Dispensing Systems offer continuous stacking without the need to manually place pallets in the stacking position. The automatic Pallet Dispenser places up to 20 pallets automatically. Operation is continuous as long as finished pallets are removed in a timely manner. These systems are available with a variety of robots from 20kg to 180kg payloads.

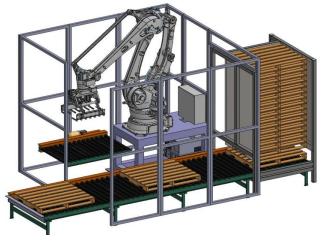


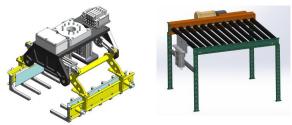
PRODUCT SPECIFICATIONS

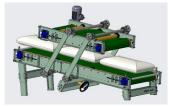
	TXR-20-3	TXR-80-3	TXR-180-3
Payload	Max 44ibs/20kg	Max 176lbs/80kg	Max 396lbs/180kg
Stack Hgt.	Max 76in/1930mm	Max 82in/2100mm	Max 105in/2667mm
Cycle Time	Max 8 cycles/min	Max 7 cycles/min	Max 7 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)
Footprint	120in x 156in	120in x 156in	132in x 169in
Pallet Loading	Pallet Dispenser	Pallet Dispenser	Pallet Dispenser



TX-ROBOTICS® AUTOMATIC PALLET DISPENSING SYSTEM FOR BAGS







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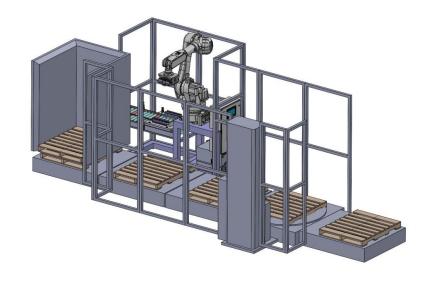


Our Automatic Pallet Dispensing System is available configured to stack bagged products. The system is equipped with our Bag Gripper, Bag Nest Assembly and Bag Flattening unit. The system is available with a variety of 20KG, 80kg, and 180kg payload robots.

PRODUCT SPECIFICATIONS

	TXR-20-4	TXR-80-4	TXR-180-4
Payload	Max 44ibs/20kg	Max 176lbs/80kg	Max 396lbs/180kg
Stack Hgt.	Max 76in/1930mm	Max 82in/2100mm	Max 105in/2667mm
Cycle Time	Max 8 cycles/min	Max 7 cycles/min	Max 7 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift only	Forklift only	Forklift only
Footprint	98in x 242in	98in x 242in	98in x 242in
Pallet Loading	Pallet Dispenser	Pallet Dispenser	Pallet Dispenser

TX-ROBOTICS® AUTOMATIC PALLET DISPENSING/STRETCH WRAP SYSTEMS

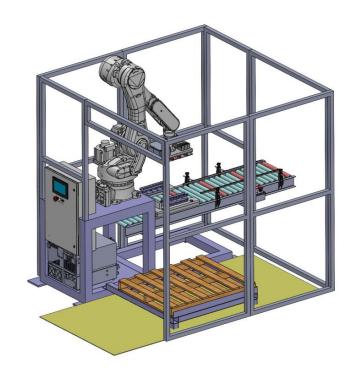


Automatic Palletizing systems can be configured with automatic Stretch Wrapping Units to provide an extremely efficient palletizing solution due to reduction in operators and manual input. These systems are available with a variety of robots from 80kg to 180kg payloads, and with a variety of End of Arm Tool options to suit any product type.

	PRODUCT SPECIFICATIONS		
	TXR-20-5	TXR-80-5	TXR-180-5
Payload	Max 44ibs/20kg	Max 176lbs/80kg	Max 396lbs/180kg
Stack Hgt.	Max 76in/1930mm	Max 82in/2100mm	Max 105in/2667mm
Cycle Time	Max 8 cycles/min	Max 7 cycles/min	Max 7 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift only	Forklift only	Forklift only
Footprint	98in x 242in	98in x 242in	98in x 242in
Pallet Loading	Pallet Dispenser	Pallet Dispenser	Pallet Dispenser
Stretch Wrap	Fully Auto Wrapping	Fully Auto Wrapping	Fully Auto Wrapping



TX-ROBOTICS® DEPALLETIZING SYSTEMS



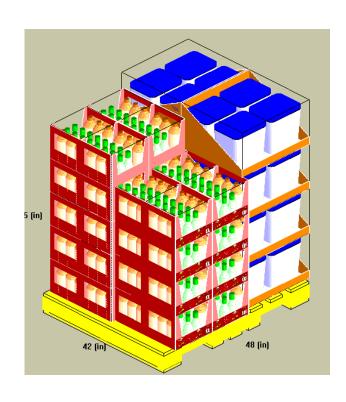
Depalletizing Systems remove products from stacked pallets, generally placing the products onto a conveyor system for processing in a manufacturing process. These systems typically employ a vision system to precisely locate and pick the products. These systems are available with a variety of robots with payloads from 20kg to 180kg. End of arm tools can be specifically designed to pick products such as bottles, and other difficult to handle products.

PRODUCT SPECIFICATIONS

	TXR-20-6	TXR-80-6	TXR-180-6
Payload	Max 44ibs/20kg	Max 176lbs/80kg	Max 396lbs/180kg
Stack Hgt.	Max 76in/1930mm	Max 82in/2100mm	Max 105in/2667mm
Cycle Time	Max 8 cycles/min	Max 7 cycles/min	Max 7 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)
Footprint	102in x 102in	102in x 102in	123in x 118in



TX-ROBOTICS® MIXED CONTAINER PALLETIZING SYSTEMS



Mixed Container Palletizing systems have the ability to stack products of different Carton dimensions. Our systems employ cutting edge application software to make this possible. Typically, Mixed Container Palletizing is designed to stack taped cardboard containers, with vacuum pickup.

Systems are available with a variety of robots with payloads from 20kg to 180kg. Mixed Container Palletizing can be incorporated into all of our Palletizing products.

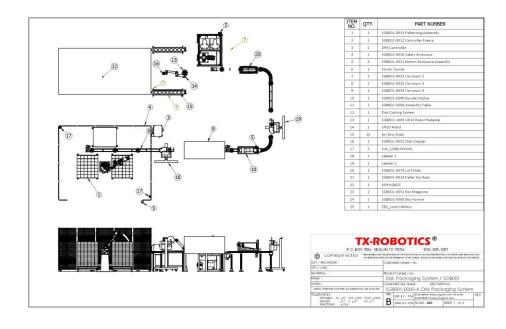
PRODUCT SPECIFICATIONS

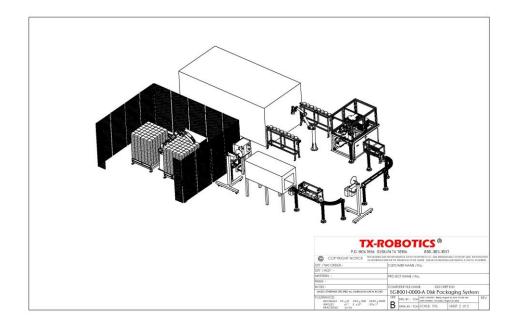
	TXR-20-7	TXR-80-7	TXR-180-7
Payload	Max 44ibs/20kg	Max 176lbs/80kg	Max 396lbs/180kg
Stack Hgt.	Max 76in/1930mm	Max 82in/2100mm	Max 105in/2667mm
Cycle Time	Max 8 cycles/min	Max 7 cycles/min	Max 7 cycles/min
Input	Power Roller Conveyor	Power Roller Conveyor	Power Roller Conveyor
Pallet Removal	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)	Forklift/Pallet Jack (Specify)
Footprint	Varies with system	Varies with system	Yaries with system



TX-ROBOTICS® CUSTOM PALLETIZING SYSTEMS

Some manufacturing solutions require a custom designed system that satisfies specific requirements. Our Engineering team can provide you with a complete manufacturing solution. We offer Turnkey capabilities, or can offer consulting Design Services if the circumstances dictate a planning and evaluation phase. We can produce a complete Design Package to verify your requirements.

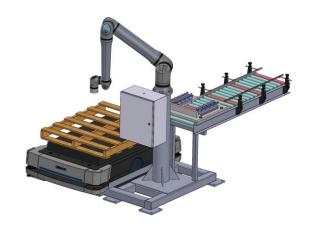




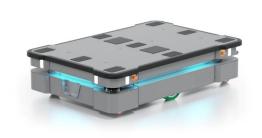


TX-ROBOTICS®

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.



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

All TX-Robotics systems are controlled by our **TX-STACK** (R) 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** (R) provides seamless integration of Vision Inspection using State of the Art camera systems that employ AI technology.



System Main Screen



Robot Interface Screen



Box Placement Screen



System Configuration Screen



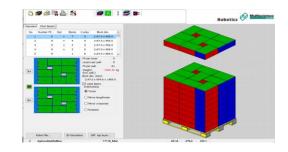
PLC - I/O Interface Screen



Vision Inspection Screen



Product Selection Screen



Pallet Pattern Management Screen

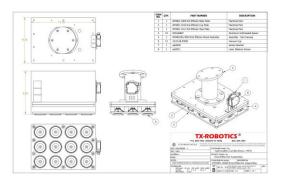


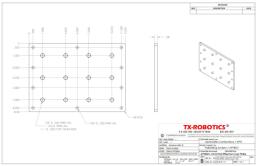
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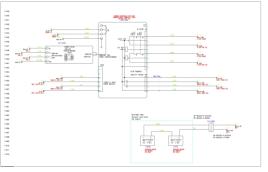
121 INTERPARK BLVD. SUITE 703 SAN ANTONIO TEXAS 78216 (830) 305-1057 (210) 487-9403

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

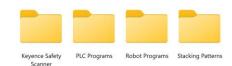
Electrical Schematics

Bill of Material









Recommended Spare Parts List

Operations Manuals

Periodic Maintenance

1. Clean dust filters on Vacuum Generators 2. Clean dust off sensor heads and Safety Scanners

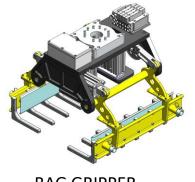
Program Backups



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











BAG GRIPPER

RPC CRATE GRIPPER

VISION SYSTEMS

LABELING

LASER MARKING

We offer a wide range of End of Arm Tools 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.

