



2025 CATALOGUE

# Advanced, Turnkey Manufacturing Solutions: Built for Peace of Mind



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From design to delivery – one partner for your entire production flow.



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## WHO WE ARE

# Smart Manufacturing Starts Here

PassX Industrial Solutions designs, integrates, and supports intelligent manufacturing systems that combine laser technology, robotics, and automation. We help companies modernize production, improve safety, and scale efficiently – all while meeting CSA and global compliance standards.

### Key Highlights:

- **End-to-End Expertise** – From equipment selection to integration and support.
- **Neutral Supplier Network** – Access to top global brands across North America, Europe, and Asia.
- **Certified & Compliant** – CSA labeling and certification handled by our team.
- **Turnkey Support** – Installation, training, maintenance, and financing available.

### Did you know?

Over 60% of manufacturers say automation integration is their top challenge – and PassX helps bridge that gap.

# Metal Processing



## LASER SOLUTIONS

# Precision Laser Systems for Every Application

PassX helps you select, integrate, and scale precision laser cutting solutions — not fabrication services. Our systems combine high-power lasers, automated loading, and smart software to maximize accuracy, productivity, and ROI.

### System Capabilities:

- Sheet, tube, and profile cutting systems from 3 kW to 130 kW
- Precision to  $\pm 0.02$  mm on material up to 200 mm thick
- Exchange tables up to 8x20 ft
- Automated storage integration for continuous flow

Up to 40% faster production with automated load/unload and smart nesting software.

Type	Power Range	Capacity	Key Feature	Ideal Use
Sheet Laser Systems	3–60 kW	Up to 200 mm	Dual-exchange tables	Sheet metal fabrication
Tube & Profile Lasers	2–20 kW	$\varnothing 20$ –840 mm	3D profile cutting	Structural steel, frames
Beam Line Lasers	20–40 kW	All profiles	Integrated beam + plate	Structural fabrication



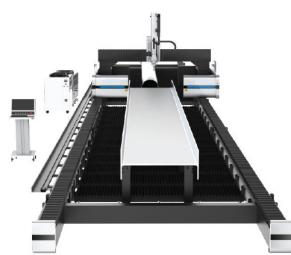
Model 1: Fully Automated Sheet Laser & Loading System



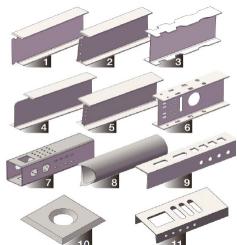
Model 2: Fully Automated Coil Opener & Flattener Sheet Laser Line



Model 3: Fully Automated 4 Chucks 3D Tube Laser Cutting Solutions



Model 4: All in One Laser machine Solutions (Combo Beam Line Laser)



# Robotics Solutions



## ROBOTICS SOLUTIONS

# Smarter Robotics for Welding, Handling & Assembly

From heavy-duty industrial robots to collaborative cobots, PassX offers scalable automation built for real-world manufacturing. Every system is supported with integration, training, and lifecycle maintenance.

### Our Robot Series at a Glance

PassX provides five robot families engineered for performance, safety, and flexibility across industries.

PassX robotic systems reduce setup time by 60% and deliver consistent quality, shift after shift.

Series	Payload	Reach	Primary Application	Key Advantage
AHP Series	50–800 kg	1600–3200 mm	Heavy-duty palletizing, material handling	High load, precision, and stability
AWS Series	3–12 kg	900–1800 mm	Plug & play palletizing	Fast setup, portable, minimal programming
B Series	5–10 kg	1400–2800 mm	Machining, assembly, welding	Multi-purpose flexibility, compact footprint
H Series	5–10 kg	Up to 1500 mm	Collaborative welding	Seam tracking, collision detection, CSA-compliant
X Series	3–30 kg	618–2000 mm	Multi-industry cobots	AI vision, 7-axis, dual-arm capability



AHP Series



AWS Series



B Series



H Series



X Series

# Automated Storage + Material Handling



## STORAGE SOLUTIONS

# Automate Material Flow from Cutting to Delivery

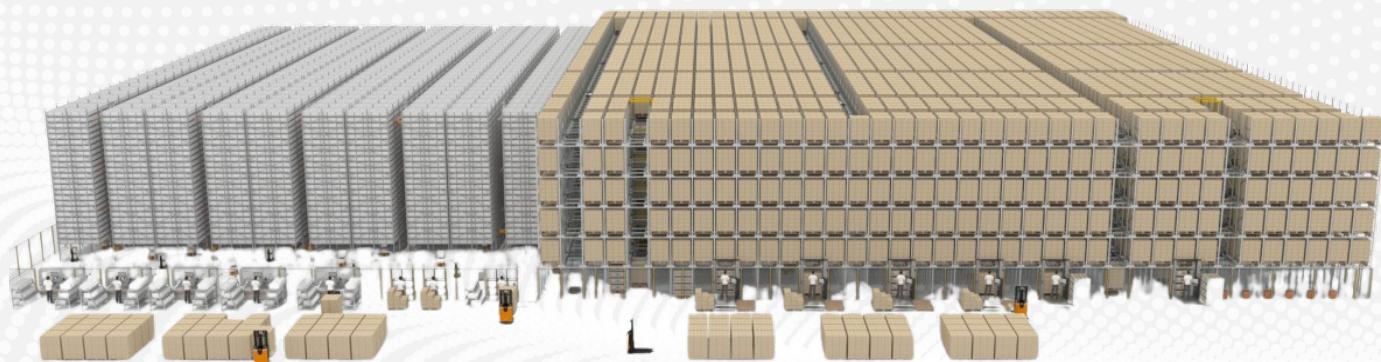
PassX provides automated storage, retrieval, and handling systems that make your operations faster, safer, and more efficient. From AS/RS warehouses to AGVs and profile storage, our systems reduce manual handling and increase throughput.

### Key Solutions Overview:

- **Automated Storage & Retrieval Systems (AS/RS):** High-density storage with 24/7 accuracy.
- **AGV & AMR Platforms:** Safe, driverless transport for heavy materials.
- **Profile & Sheet Storage:** For long beams, plates, and large-format sheets.
- **Tote & Box + VLM Systems:** Space-saving small-parts automation.

Save up to 75% floor space with vertical and high-density automation.

System	Application	Key Benefit
AS/RS	50–800 kg	24/7 retrieval accuracy
AGV / AMR	5–10 kg	Safe, driverless handling
Profile Storage	3–30 kg	Maximized safety & density
VLM / Tote	Small Parts	Fast order picking & tracking



AS/RS



AGV / AMR

## 1 Program Trial or Validation Scenarios

Quickly customize a lightweight AGV application to validate the routes, business processes, etc.

## 3 Multi-vehicle Scenarios Without Traffic Control

Realize distribution of the waybill, queuing, canceling, fault recovery, etc. The status of robots is visible in real-time.

## 4 Carton Transfer Autonomous Robots Scenarios

Switch to manual mode to deal with the failed tasks, change the back tray status, or directly control the forks to transfer the goods, to restart the task without starting over again.



## 2 Complex Scenarios of Loading, Unloading and Transport

## 5 Single-vehicle Scenarios Without Network



Profile Storage



VLM Tote

# Surface Preparation + Painting Systems



## SURFACE FINISHING SOLUTIONS

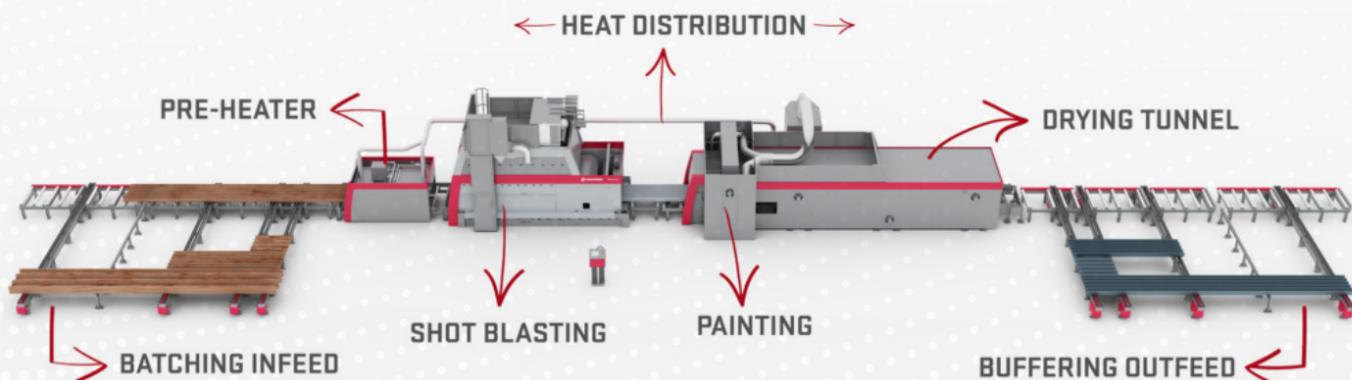
# Advanced Finishing, Cleaning & Protection

PassX delivers full-scope finishing systems – from powder coating and shot blasting to laser blasting and cladding. Each solution improves quality, efficiency, and sustainability, meeting CSA standards from day one.

### Key Offerings:

- **Powder Coating Systems** – Manual or fully automated lines with powder reclaim.
- **Shotblast Systems** – Turbine & robotic options for large-scale surface prep.
- **Laser Blasting** – Chemical-free cleaning for paint, rust & oxidation.
- **Laser Cladding** – Precision resurfacing and part life extension.

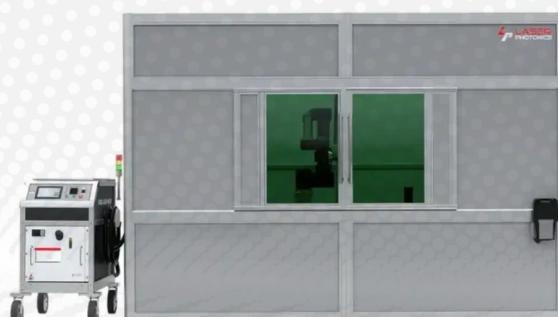
Shotblast systems have up to 90% waste reduction vs. traditional sandblasting.



### SHOTBLASTING SYSTEMS

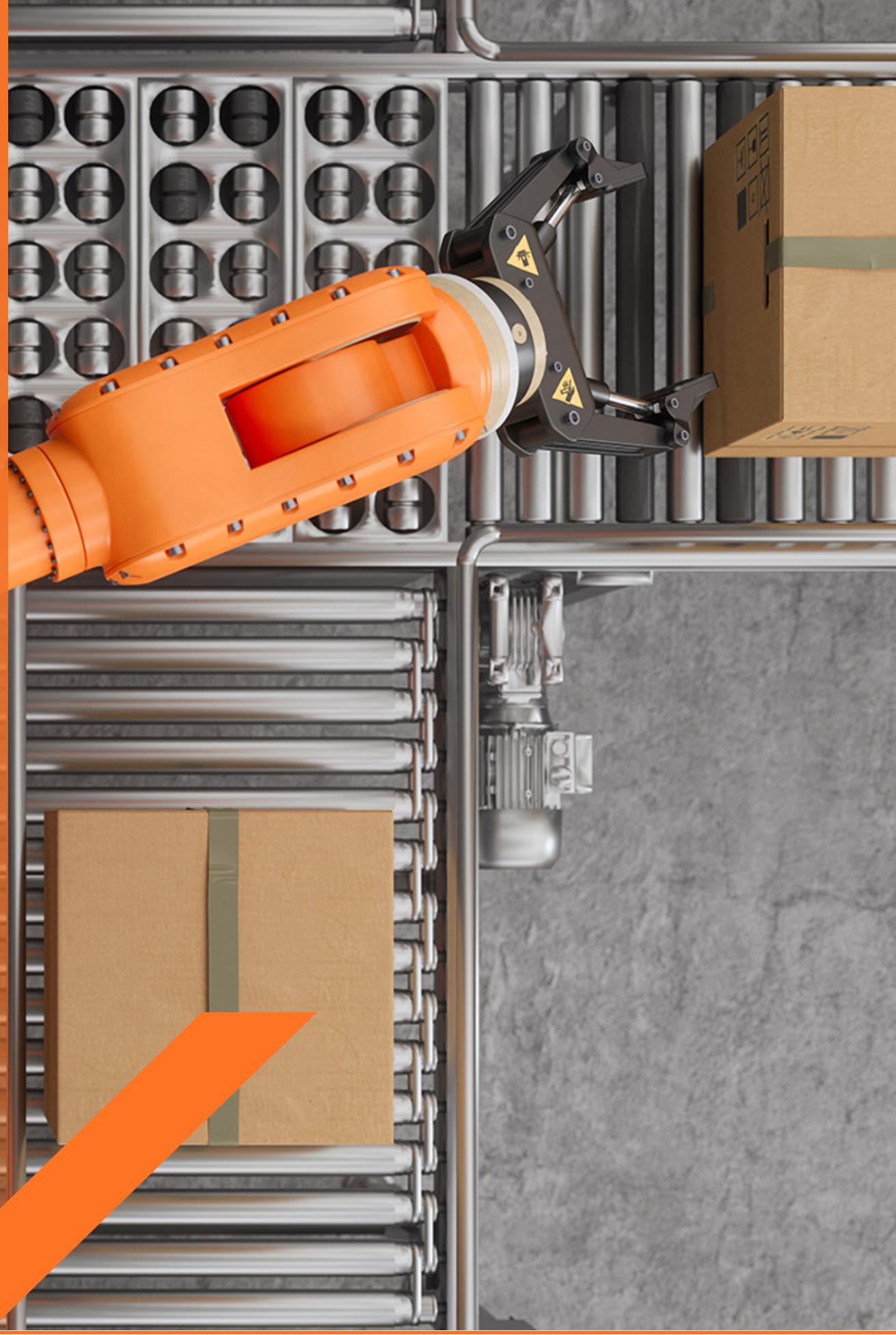


### POWDER COATING SYSTEMS



### LASER BLASTING SYSTEMS

# Solutions + Support Services



**WE ARE HERE FOR YOU**

# Beyond Machinery: Complete Lifecycle Support

Our role doesn't end at delivery. PassX provides full-service integration, training, financing, and long-term maintenance to keep your operation running at peak performance.

## Key Offerings:

- **Installation & Maintenance** — Turnkey setup, commissioning, and ongoing care.
- **Digital Twin & Monitoring** — Predictive analytics and remote diagnostics.
- **Financing & Investment** — Flexible programs through Soleymani Investment.
- **Training & Certification** — On-site and virtual operator support.

All systems are reviewed and labeled to meet Canadian Standards Association (CSA) requirements.





## Building Smarter Factories. Together.

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