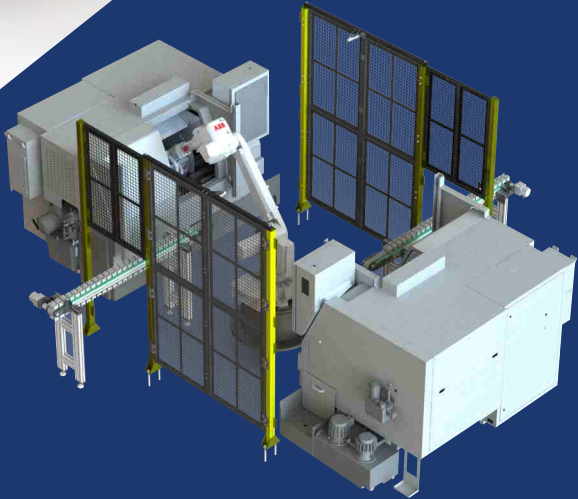




**LLS**®

(ISO 9001 : 2015 Certified Company)

## MACHINE TENDING PRODUCT LINEUP



**Smart Automation Solution  
For Machine Tending**

# ABOUT US



## LLS - A Synthesis of Excellence

Established as a group under the esteemed LMW umbrella, LLS epitomizes a harmonious blend of industrial proficiency with a proud legacy spanning two decades, we specialize in providing solutions across

### ◆ INDUSTRIAL AUTOMATION

- ◆ Textile Automation
- ◆ Machine Tooling

We provide compact and modular Solutions for assembly and testing automation. Digitalization Services like data acquisition, Integration of IOT can be done at system and component level.



## Our Solutions are into:

- ❖ Assembly Automation
- ❖ Process Automation  
SPM for Drilling | Tapping | Milling | Turning | Facing | Centering
- ❖ Robotic Welding Cell
- ❖ **MATERIAL HANDLING**  
**Machine Tending Gantry | Robotic Machine Tending**
- ❖ Inspection Systems
- ❖ Packaging Systems



High speed Assembly Automation



Packaging Automation

# MATERIAL HANDLING

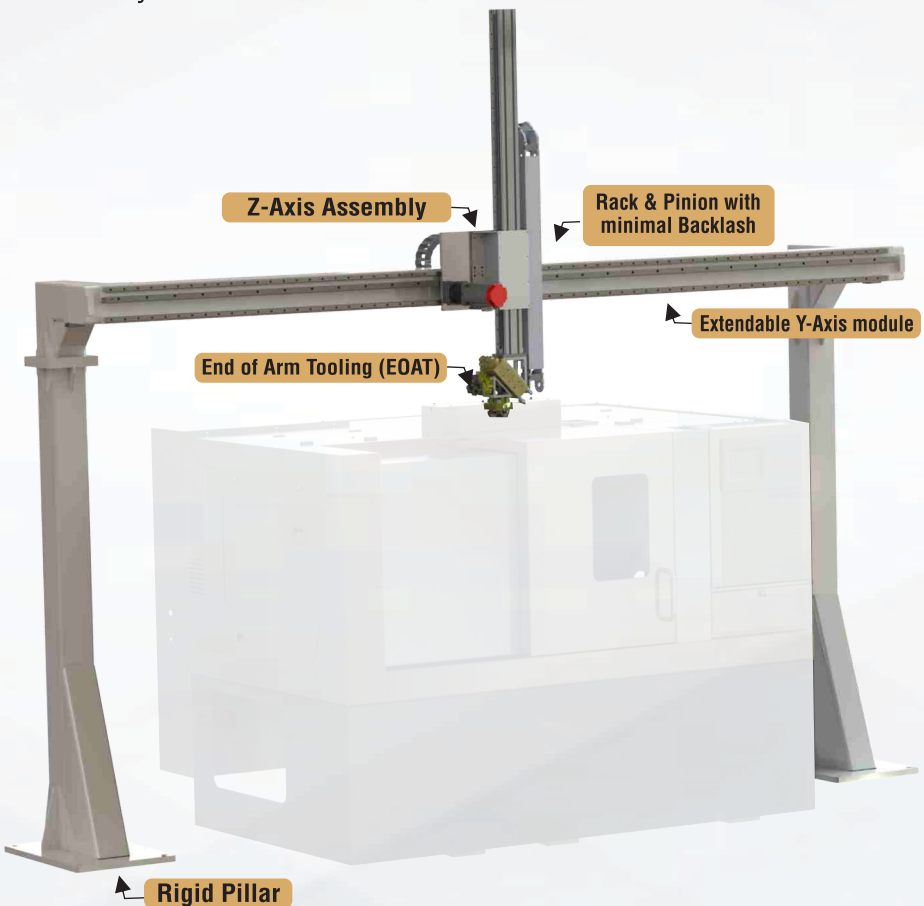


## Machine Tending

Machine tending refers to the process of loading and unloading parts into and from machining or processing equipment. This critical aspect of manufacturing plays a pivotal role in ensuring continuous operation and minimizing downtime thereby maximizing throughput and efficiency.

## Gantry Machine Tending

LLS Gantry product provides automated machine tending solutions for CNC turning and processing machines which increases the precision and efficiency.



## ADVANTAGES

Improved  
Efficiency

Optimizable  
ROI

Automation  
Precision

Safety and  
Ergonomics

24/7 User friendly  
operation

Integration into  
Industry 4.0

Elevate Your  
Manufacturing

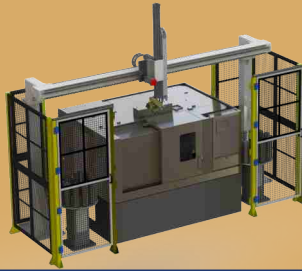
# TECHNICAL SPECIFICATION



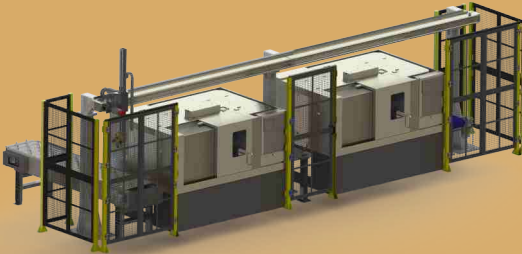
Parameter	Smart Glide		Smart Glide PRO			
	SG 25		SGP 25		SGP 75	
Payload	25 Kg		25 Kg		75 Kg	
No. of Axis	2		2		2	
Axis	Y - AXIS	Z - AXIS	Y - AXIS	Z - AXIS	Y - AXIS	Z - AXIS
Drive	Rack and Pinion / Toothed belt	Rack and Pinion	Rack and Pinion		Rack and Pinion	
Guide	V-Grooved rail & Wheel	V-Grooved rail & Wheel	Linear Bearing		Linear Bearing	
Stroke Length Upto [m]	40	1.5	40	1.5	40	1.5
Velocity [m/sec]	1.6	1	2	1.25	1	0.75
Acceleration [m/sec <sup>2</sup> ]	3	2.5	4	8	3	3
Repeatability [mm]	0.2	0.2	0.1		0.1	

## OPTIONS

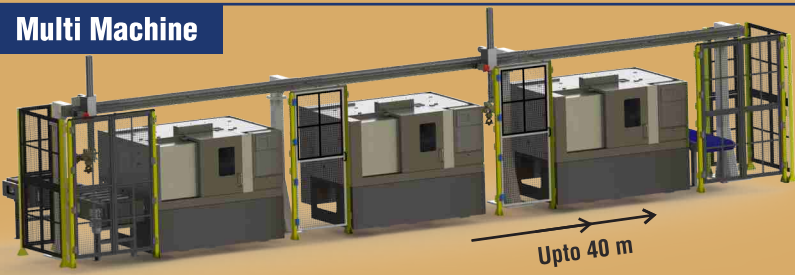
### Single Machine



### Dual Machine



### Multi Machine

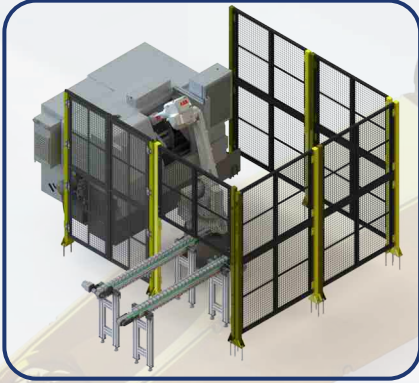


Gantry to handle components transfers with automation peripherals like conveyors, transfer station, orientation, flipping, buffer and online inspection stations.

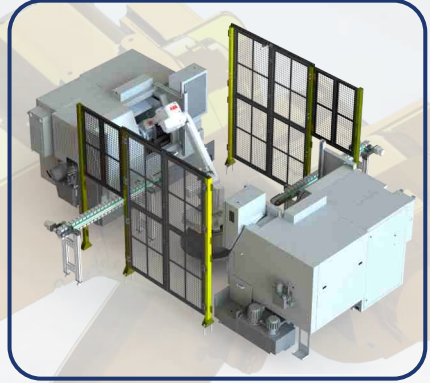
# ROBOTIC MACHINE TENDING



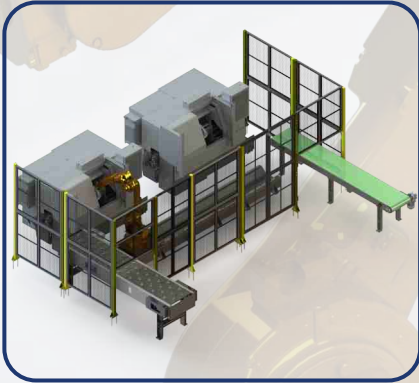
We provide advanced robotic solutions for challenging material handling tasks. This solution enhances flexibility, allowing robots to handle various machines with precision and speed.



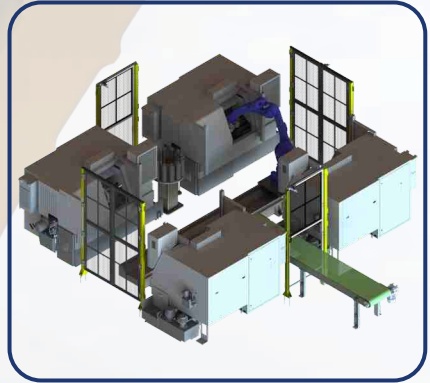
Single Machine



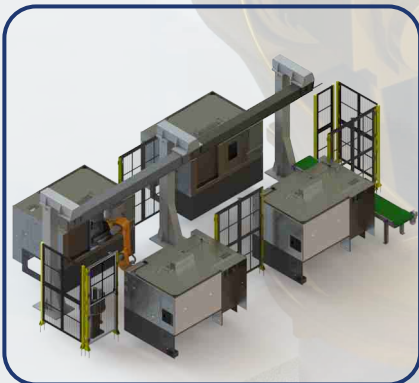
Dual Machine



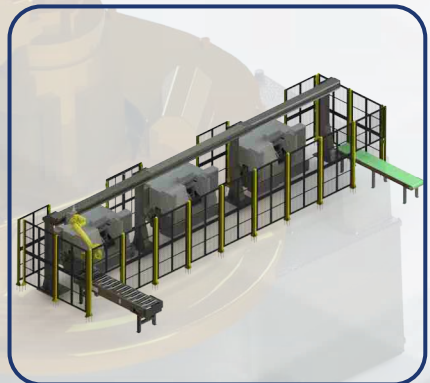
Dual Machine Inline  
7th Axis Robot



Multi Machine  
7th Axis Robot

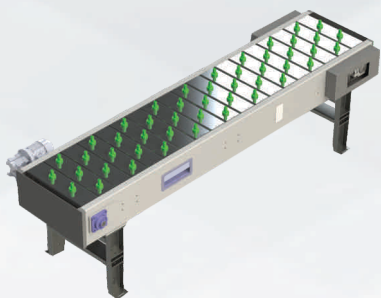


Multi Machine Overhead 7th Axis  
Robot (Ceiling Mounted)



Multi Machine Overhead 7th Axis  
Robot (Wall Mounted)

# Additional accessories for Machine Tending



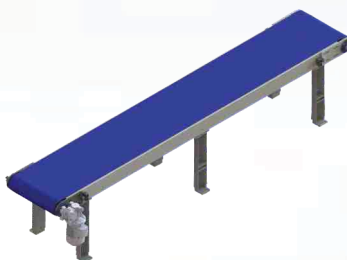
**Slat Chain Conveyor**



**EOAT (Shaft/Disc)**



**Rotary Stacker**



**Belt Conveyor**



## **LAKSHMI LIFE SCIENCES PRIVATE LIMITED**

UNIT 1 : Automation Division,  
SF.No.113/2, Annur Road, Arasur Post,  
Coimbatore - 641 407, Tamil Nadu, India.

☎ +91 422 7108 600

✉ [automationsales@lakshmilife.com](mailto:automationsales@lakshmilife.com)

Regd.Office : "LAKSHMI", No.34-A, Kamaraj Road,  
Coimbatore - 641 018, Tamil Nadu, India.

☎ +91 422 7198 100 | 🌐 [www.lakshmilife.com](http://www.lakshmilife.com)

**Reach us @ +91 70944 64263, +91 70944 41717**

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