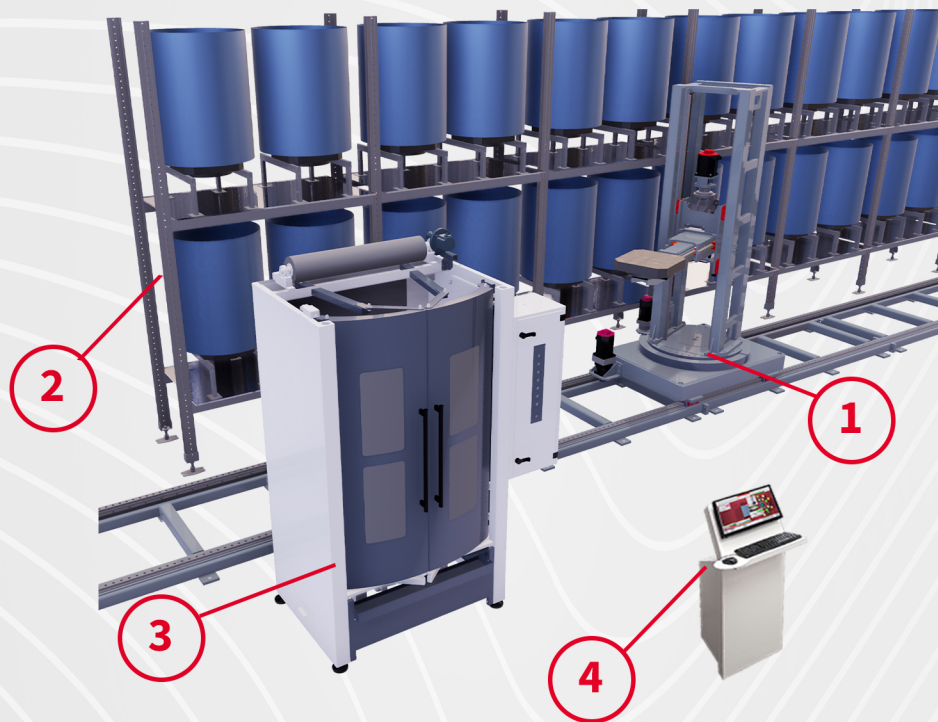# FLEXIBLE PALLET LINEAR AT A GLANCE

1. Pallet loading shuttle
2. Pallet warehouse
3. Loading station
4. Control System

Flexible Pallet Linear is a compact automation system that allows greater production economic savings. Also designed for machine tools with or without automatic pallet changer (APC).
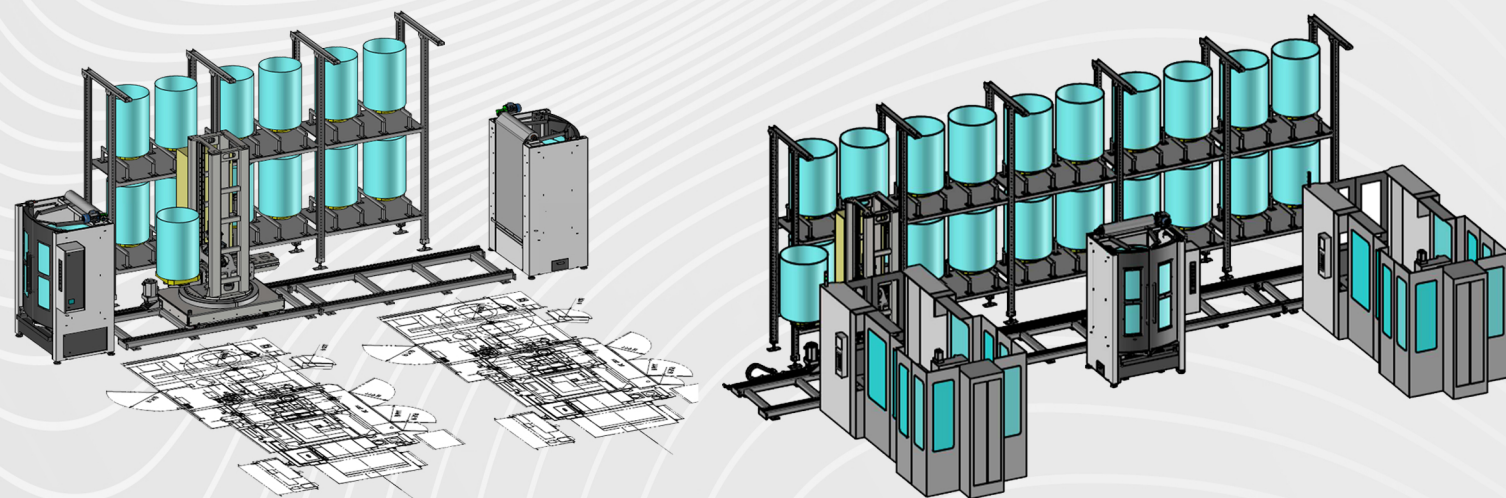
Flexible Pallet Linear can be integrated with any vertical or horizontal machine tool model, from 3 to 5 axes.

Flexible Pallet Linear works with 400/500/630 mm pallets .

The operator's work area is set up from one to four compact and ergonomic stations for loading and unloading items pieces to work.

The control panel is completely customized and offers a simple and effective software interface for loading and unloading.

Designed and manufactured entirely in **AbMach** using **FANUC®** controls, this guarantees our Long Term Support on any type of spare part.

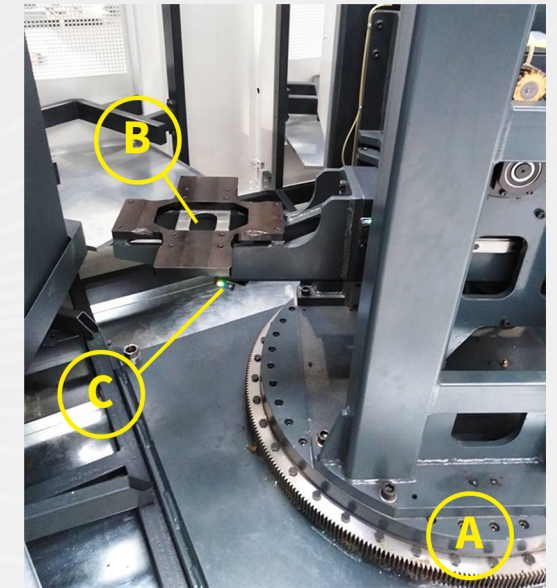**The loading shuttle** allows the movement of pallets completely automatically.

The rotation movement occur thanks to a mobile stand (A) and driven by an electric motor.

The grabbing system (B) carries out a movement that allows the picking or unloading of the pallet. There are pallet presence sensors (C) on the shuttle.

Flexible Pallet Linear is composed of a transport shuttle equipped with an elevator and a series of positions on a two-storey warehouse.
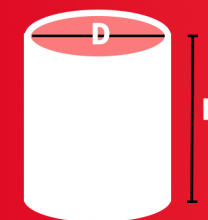
The loading/unloading station allows the processed pallets to be inserted into the system and the pallets already processed to be unloaded.

Flexible Pallet Linear will insert the preloaded pallets into the machine center, starting working process. At the end this will be placed in the warehouse and the next processing will start.

TECHNICAL DATA	Flexible Pallet Linear 400-500	Flexible Pallet Linear 630
Nominal machine pallet size	400 - 500 mm	630 mm
Maximum rotation diameter (D)	600 - 800 mm	900 - 1000 mm
Maximum load height (H)	700 - 1000 mm	1000 - 1300 mm
Warehouse levels	1 - 4	1-2
Warehouse positions	4 - on demand	4 - on demand
Maximum load Weight	400 - 700 kg	1200 kg
Length	on demand	on demand
Width	2800 mm	3700 mm
Height	3750 mm	4200 mm
Control system	AB SHUTTLE CONTROL	AB SHUTTLE CONTROL

CHARACTERISTICS
- 2- 4 shelves depending on the height of the load
- Compact solution
- 1 - 4 machines per system
- Integrated refrigerant management
- MMS cell phone controller with touch panel
- It can be installed next to a wall