

# 4 Main Reasons to Choose Pinnacle LV85APC:

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## Reason 1: Reliability

### Without Reliability, Speed is Meaningless

High reliability, non-stop cutting is essential to the mass production machine. The hydraulic-powered Auto Pallet Changing system features high reliability for long time operation.



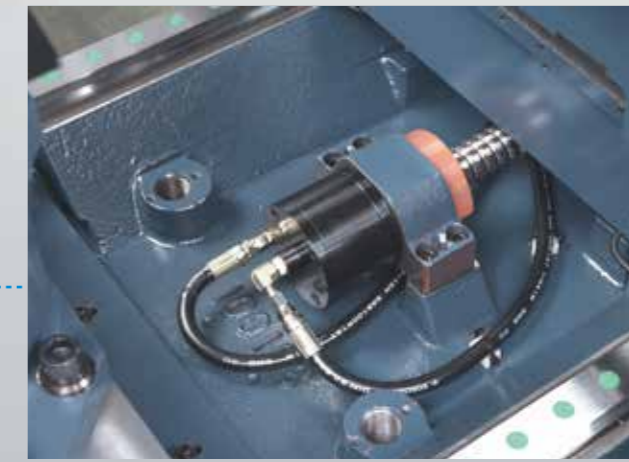
### Positioning Taper Cone

The pallets are positioned and clamped via taper cones, featuring high repeatability accuracy. The clamping area is well protected from chips entering.

At the end of taper pin, air blast tubes are deployed. The air blast is activated during APC cycle, ensuring the taper cone is clean and free from chips.

### Heavy Duty Pallet Actuation

The pallet changing mechanism offers extraordinary power to support 500kg work piece on each pallet.



### Hollow Type Ball Screws

The Ball Screws on 3 axes are hollow type with oil throughout, bringing out the heat from ball screw surface for minimum thermal deformation.

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### Reason 2: Compact Floor Space Extremely Space Saving

For a machine with pallet changer, the machine efficiency is nearly twice that of a single pallet machine. The Pinnacle pallet changer is anchored on the machine base, it increases pallet changer's stability, and it saves precious floor space.

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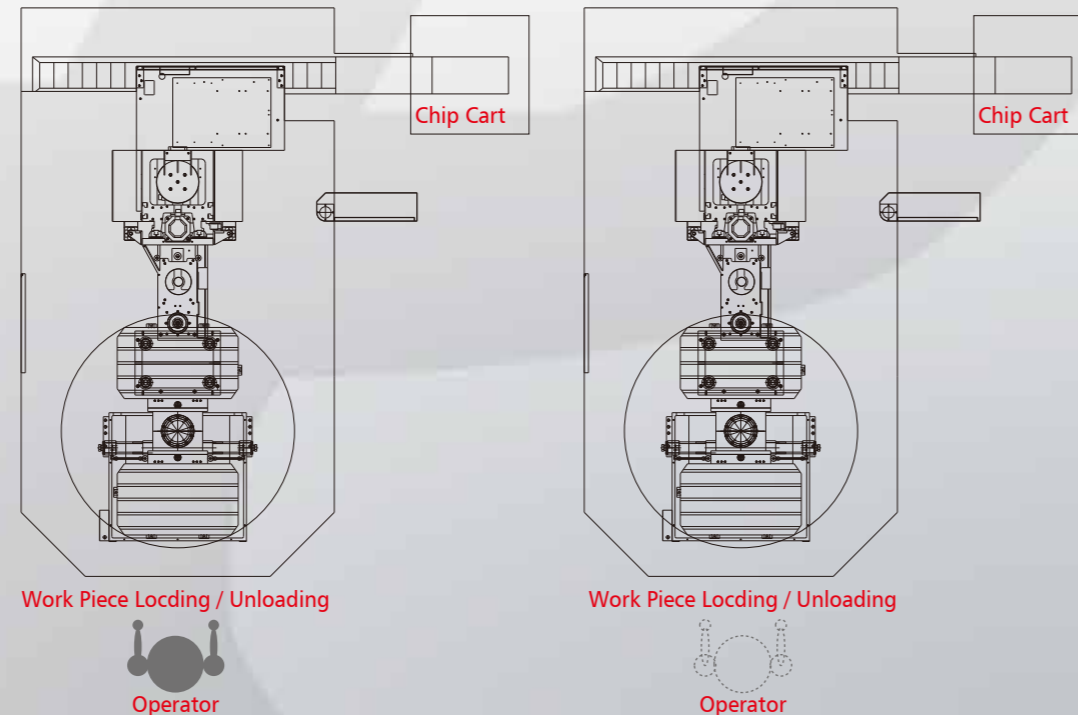
### Reason 3: Easy Chip Collection Uni-direction for Chip Disposal

The Chip Conveyers are arrayed in one direction, easy to collect cutting chips within the minimum time.

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### Reason 4: Short Access Distance Ergonomics

Easy to install the work piece and test run the machine with the swivel control panel. The distance from operator to the standby table is minimized, offering comfortable conditions for operator to load and unload work pieces.



## High Performance Spindle

The **BT40** spindle employs P4 grade bearings, which are capable of supporting high speed or high power output.



Direct-drive Spindle:  
15,000 rpm (optional)

Belt-drive Spindle:  
8,000 rpm (10,000 optional)



### Gear Box

For customers who require high cutting torque for heavy duty cutting, the gearbox is the best option. The gearbox features high speed, low vibration, low temperature rising and low noise.

### Coolant Through Spindle

Coolant circulates through spindle to offer direct cooling on tools, removing heat that occurs during machining. Combined with filter tank system.(optional)

