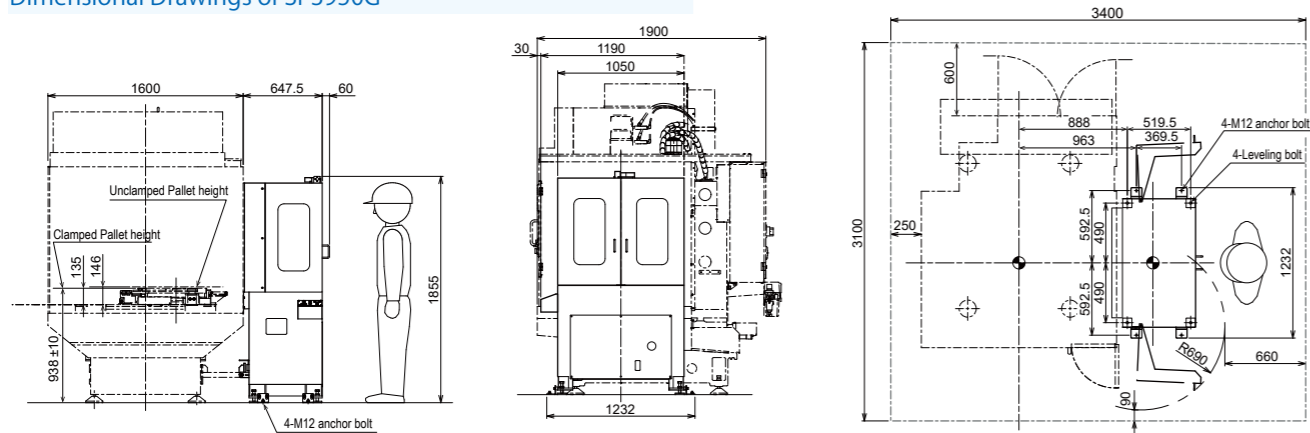
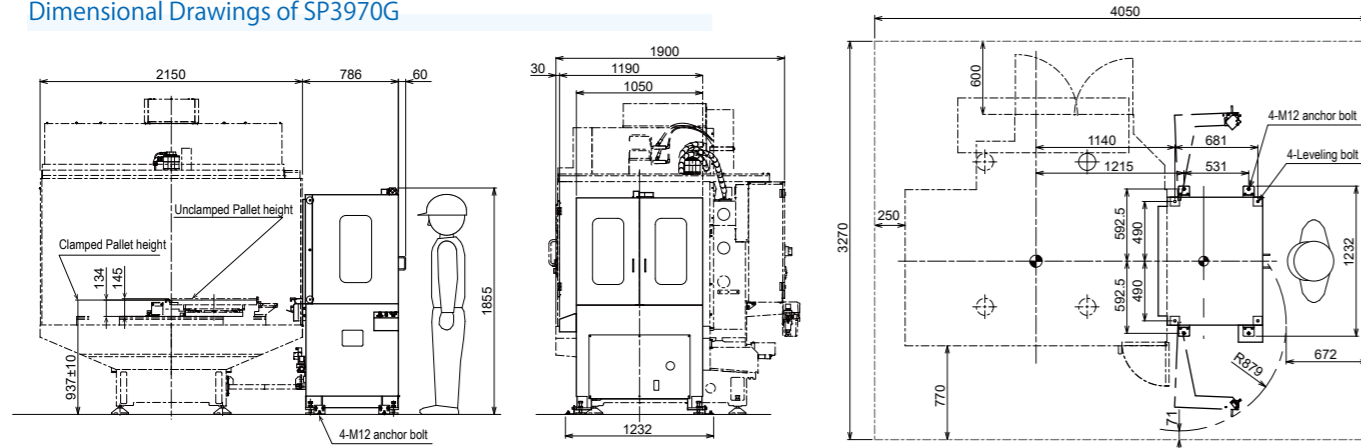


Dimensional Drawings of SP3950G



Dimensional Drawings of SP3970G



The ROBODRILL dimensions are for reference purpose only.

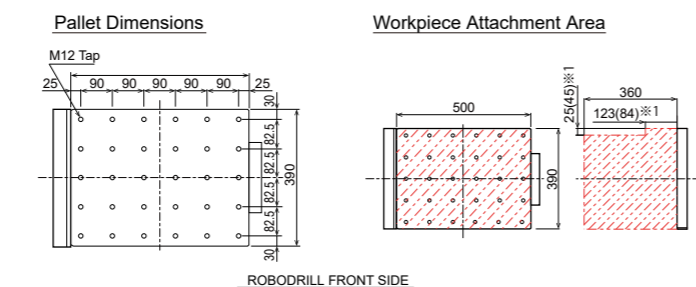
Dual Pallet Changer
for FANUC ROBODRILL SP series PE2305

Specifications

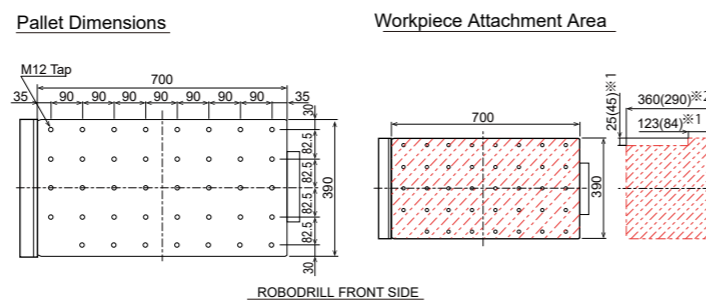
| Model | SP3950G | SP3970G |
|--|---|--|
| Pallet size | 390×500×82H | 390×700×81H |
| Maximum pallet loading capacity (Uniform load) | 90 kg | 110 kg |
| Pallet pattern | M12 Tap × 30 points | M12 Tap × 39 points |
| Height of pallet when clamped | 938 ± 10 mm | 937 ± 10 mm |
| Height of pallet when unclamped | 949 ± 10 mm | 948 ± 10 mm |
| Pallet weight | 35 kg | 45 kg |
| Pallet change time | 6.7 sec | 7.3 sec |
| Pallet material | Aluminium | Aluminium |
| Main unit size (mm) | 1190×647.5×1855H | 1190×786×1855H |
| Clamp device weight | 65 kg | 70 kg |
| Clamping force | 7.4kN(760kgf) | 7.4kN(760kgf) |
| Repeatability | 0.01mm | 0.01mm |
| Air source | 0.5 MPa, 30L/min | 0.5 MPa, 30L/min |
| Power supply | AC200V-50/60Hz, AC220V-60Hz, DC24V, 1.2KVA | AC200V-50/60Hz, AC220V-60Hz, DC24V, 1.2KVA |
| Options | <ul style="list-style-type: none"> • Pneumatic clamp • Cable track • Edge locator • Cover for spindle through coolant | |

* Please contact FANUC for information about optional specifications for the ROBODRILL pallet ready.
* Available door specification of ROBODRILL L&B is the manual-single door.

SP3950G

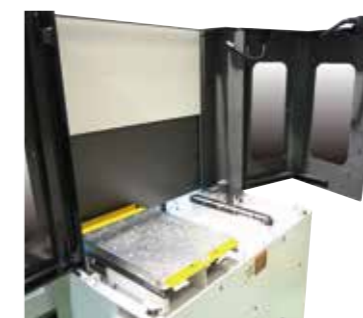


SP3970G



• High Column 100mm Option
• Dimension of ()※1 is for Z-axis Metal Cover Option.
• Dimension of ()※2 is for after-installation specification.
• Interference of tools in the above area is not considered.

• All specifications are subject to change without notice.
• No part of this catalog may be reproduced in any form.



Optimal for Multiproduct Variable quantity production

SP series are Pallet changer which exchange the two independent pallets automatically.

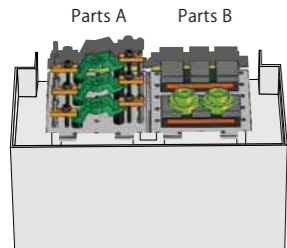
Machining of different parts or emergency parts, Dividing machine process becomes possible by use the pallets individually.



Versatile pallets!

Machining of different parts

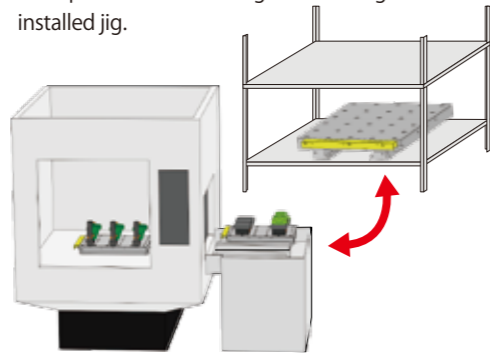
Flexible manufacturing which matched the demand is performed by dividing the jigs to each pallet.



Two different parts with one machine

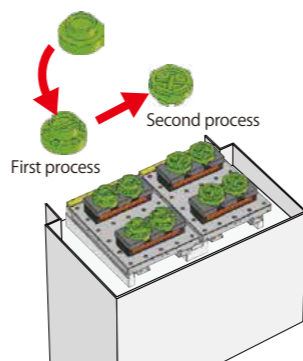
Special pallet for emergency parts

The setup time of jig shorten by having of some extra pallets to be exchanged according to installed jig.



Additional spare pallet (Optional) for emergency parts

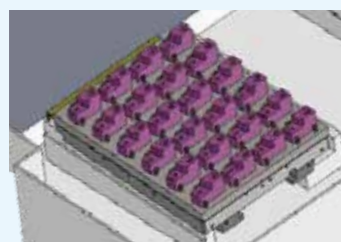
Dividing machine process



Two machine process with one machine

In shuttle type, the fastest pallet changing time
Also Corresponding to mass-productive

Pallet changing time 6.7 sec. (SP3950G)
7.3 sec. (SP3970G)

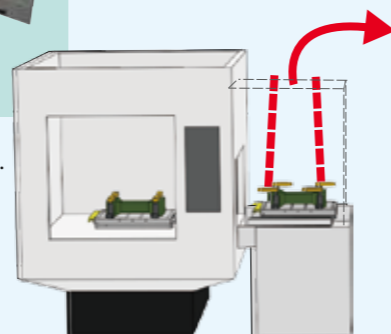


The wide pallet area is suitable for the machining of small-sized parts that take time to setup. This system maximizes productivity without stopping the machine main axis.

The door which can open wide makes changing of jig or heavy workpiece easy.

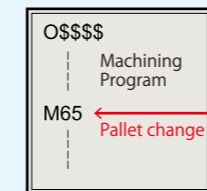


Ceiling crane is available.



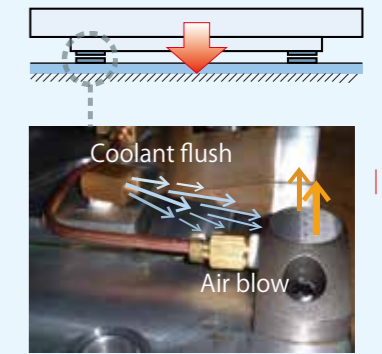
Pallet change in auto mode with M code

Insert M65 into the NC program. The pallets are changed automatically by reading M65 in condition that SET UP button is turned on after work set-up. By using one-side-pallet-change mode, separate machining can be set for each pallet and machining on one side of a pallet only can be performed.



Measure for chips

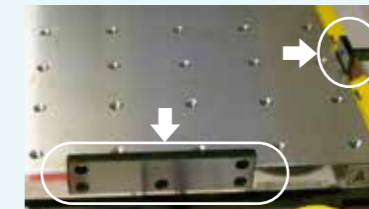
Three measures including air blow, coolant flush, and a gap switch for the pallet seating portion maximize the prevention of production interruptions due to chips.



OPTION

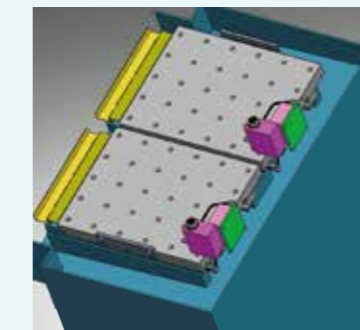
Edge locator (Optional)

Reduce XY direction alignment process.



Pneumatic clamp (Optional)

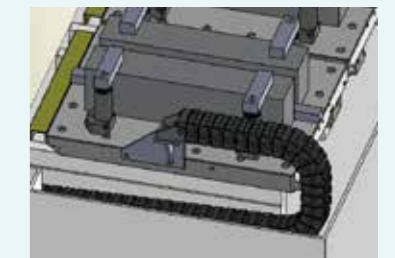
This is an additional option for use of an automatic clamp jig using compressed air. ※A selector switch is not included.



Cable track (Optional)

Compatible with rotary tables by use of a cable track and automatic machining can be carried out by use of a hydraulic clamp jig.

※ Cable track is available for the Robodrill which has more than 200 mm high column.



REQUIRED OPTION of ROBODRILL for PALLET CHANGER SP SERIES

The following options are required at the order of Robodrill to mount Pallet Changer. These options are prepared by Fanuc before shipment.

Automatic side door

I/O unit (Interface)

High column 100 mm

M12 tap hole on the bottom side of the bed

Parameter Program