Standard Tool Changer: 20 station Umbrella Tool Changer
Optional Tool Changer(s): 24+1 Side-Mount Tool Changer

Operating Dimensions

Convenience package removed; Control mounted on top for shipping

Shipping Dimensions

Shipping height (94”/2388mm) and width (78”/1981mm) shown
Contact your local Haas Factory Outlet for further breakdown information
Anchor Pattern

Note:
Foundation must extend at least 12in (305mm) from bored holes

Air and Power Inlets

- Electrical Connection (E)
- Air Connection (A)

Dimensions:
- 4X Ø1.5in (38mm) 8.5in (216mm)
- 20in (508mm)
- 21in (533mm)
- 76in (1930mm)
- 60in (1524mm)
- 7in (178mm)
- 36in (914mm)
- 4in (102mm)
- 138in (3505mm)
**X/Y Axis Clearances**

1. The table shown is at XY home, the dashed line is the table at max XY travels
2. Measurements are from the edge of the table to the nearest obstruction
3. Dimensions shown are at the top of the table, dimensions are reduced as the height increases (5 degree slope inside the sheet-metal)
4. Dimensions are symmetrical unless otherwise stated

**Z Axis Clearances**

Notes:
1. P-Cool dimension varies based on P-Cool position
2. Refer to the page on tool changer dimensions for tool changer heights
Table Dimensions

14.50in (368mm) Usable Table Size

36in (914mm) 4.92in (125mm)

4.20in (107mm)

0.640in (16.26mm) 0.630in (16mm) 0.420in (10.67mm) 1.060in (26.92mm)

DETAIL B
Side-Mount Tool Changer Travels

**24+1 Pocket**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>A</td>
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<td>572mm</td>
</tr>
<tr>
<td>B</td>
<td>10in</td>
<td>254mm</td>
</tr>
<tr>
<td>C</td>
<td>3in</td>
<td>76mm</td>
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<tr>
<td>D</td>
<td>21in</td>
<td>533mm</td>
</tr>
<tr>
<td>E</td>
<td>24in</td>
<td>610mm</td>
</tr>
</tbody>
</table>

Tool Changer Arm Moves Down 4.5" (114mm) During Tool Change

Umbrella Tool Changer Travels

- Ø26in (660mm)
- Ø23in (584mm)
- 20.75in (527.1mm)
- 9.24in (234.8mm)

The Umbrella Tool Changer moves in towards the spindle to do a tool change.