

# KV25 / KV25P



## Vertical Machining Center

### Column Traveling Type Compact Machining Center

- Fixed table and column traveling structure are suitable for a factory automation
- Coolant and chips were flushed into the rear of the machine for central chip collection.
- The width of the machine(1,460mm,57.5 ) is ideally suited for a factory automation

|                             |          |             | KV25                  | KV25P                   |
|-----------------------------|----------|-------------|-----------------------|-------------------------|
| Table Size (length x width) |          | mm [in]     | 650 x 300 [25.6x11.8] | 2-560 x 320 [22.1x12.6] |
| Table Load                  |          | kgf [lbs]   | -                     | 2 x 150 [331]           |
| Travel                      | X        | mm [in]     | 500 [19.7]            | 500 [19.7]              |
|                             | Y        |             | 280 [11.0]            | 280 [11.0]              |
|                             | Z        |             | 380 [15.0]            | 380 [15.0]              |
| Spindle Taper               |          | mm [in]     | NT # 30               | NT # 30                 |
| Spindle Speed               | STD      | rpm         | 12,000                | 12,000                  |
| Spindle Power               | Main     | kw [hp]     | 5.5/3.7 [7.3/5]       | 5.5/3.7 [7.3/5]         |
| Rapid Traverse              | X,Y axis | m/min [ipm] | 30 [1,181]            | 30 [1,181]              |
|                             | Z axis   |             | 24 [945]              | 24 [945]                |
| Tool Storage Capacity       | STD      | EA          | 16                    | 16                      |
|                             | OPT      |             | 10                    | 10                      |

Design and Specifications are subject to change without prior notice.

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# KV25 / KV25P

## Specification

| ITEM                                    |   |          | KV25           | KV25P                      |                            |
|---|---|----------|----------------|----------------------------|----------------------------|
| <b>TABLE</b>                            | Size (length x width)                       |          | mm [in]        | 650 × 300 [25.6x11.8]      | 2-560 × 320 [22.1x12.6]    |
|   | Max. load on table                          |          | kgf [lbs]      | -                          | 2 × 150 [331]              |
|   | Table type                                  |          |                | T-slot                     | Tap Hole                   |
| <b>TRAVEL</b>                           | Table longitudinal                          | X        | mm [in]        | 500 [19.7]                 | 500 [19.7]                 |
|   | Table cross                                 | Y        |                | 280 [11.0]                 | 280 [11.0]                 |
|   | Spindle head verticle                       | Z        |                | 380 [15.0]                 | 380 [15.0]                 |
|   | Tilting                                     | A        | degree         | -                          | -                          |
|   | Rotating                                    | C        |                | -                          | -                          |
|   | Distance from column to spindle center      |          |                | 368 [14.5]                 | 368 [14.5]                 |
|   | Distance from table surface to spindle nose |          |                | 200 ~ 580 [7.9~22.8]       | 200 ~ 580 [7.9~22.8]       |
| <b>SPINDLE</b>                          | Taper                                       |          |                | NT # 30                    | NT # 30                    |
|   | Speed                                       | STD      | rpm            | 12,000                     | 12,000                     |
|   |   | OPT      |                | -                          | -                          |
|   | Power                                       | STD      | kw [hp]        | 5.5/3.7 [7.4/5.0]          | 5.5/3.7 [7.4/5.0]          |
|   |   | OPT      |                | -                          | -                          |
|   | Torque                                      | STD      | kgf-m [ft-lbs] | 3.6 [26.0]                 | 3.6 [26.0]                 |
| OPT                                     |   |          |                |                            |                            |
| Spindle Drive                           |   | STD      | Direct drive   | Direct drive               |                            |
| <b>FEED</b>                             | Rapid                                       | X,Y axis | m/min [ipm]    | 30 [1,181]                 | 30 [1,181]                 |
|   |   | Z axis   |                | 24 [945]                   | 24 [945]                   |
|   | Tilting                                     | A        | rpm            | -                          | -                          |
|   | Rotating                                    | C        |                | -                          | -                          |
| Cutting feed rate                       |   |          | m/min [ipm]    | 10 [394]                   | 10 [394]                   |
| <b>ATC</b>                              | Type  |          |                | twin arm                   | twin arm                   |
|   | Tool storage capacity                       | STD      | EA             | 16                         | 16                         |
|   |   | OPT      |                | 10                         | 10                         |
|   | Max. tool diameter                          |          | mm [in]        | 80 [3.15]                  | 80 [3.15]                  |
|   | Max. tool diameter (without adjacent tool)  |          |                |                            |                            |
|   | Max. tool length                            |          |                | 200 [7.87]                 | 200 [7.87]                 |
|   | Max. tool weight                            |          | kgf [lbs]      | 3 [6.6]                    | 3 [6.6]                    |
|   | Tool selection type                         |          |                | Random                     | Random                     |
| Tool change time                        | tool to tool chip to chip                   | sec.     | 0.9            | 0.9                        |                            |
|   |   |          | 2.5            | 2.5                        |                            |
| <b>MOTOR</b>                            | Spindle                                     | Main     | kw [hp]        | 5.5/3.7 [7.3/5]            | 5.5/3.7 [7.3/5]            |
|   | Feed  | X / Y    |                | 0.9/0.9 [1.2/1.2]          | 0.9/0.9 [1.2/1.2]          |
|   |   | Z / B    |                | 1.4 [1.9]                  | 1.4 [1.9]                  |
| Coolant                                 |   |          |                |                            |                            |
| <b>APC</b>                              | Pallet change type                          |          |                | -                          | Dual table                 |
|   | Pallet change time                          |          | sec.           | -                          | 4.0                        |
| <b>Coolant through spingle (Option)</b> |   |          |                | N/A                        | N/A                        |
| <b>Rigid tapping</b>                    |   |          |                | STD                        | STD                        |
| <b>Electric capacity</b>                |   |          | kVA            | 18                         | 20                         |
| <b>Floor space</b>                      |   |          | mm [in]        | 2,625 × 1,605 [103.3x63.2] | 2,810 × 1,605 [110.6x63.2] |
| <b>Slide way</b>                        |   |          |                | LM guide                   | LM guide                   |
| <b>Machine weight</b>                   |   |          | kgf [lbs]      | 2,500 [5,512]              | 3,000 [6,614]              |
| <b>Controller</b>                       |   |          | STD            | FANUC 0iM                  | FANUC 0iM                  |
|   |   |          | OPT            |                            |                            |

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