

Machine:
VMC 4824-SE

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| X axis travel | 40" (1,016 mm) |
| Y axis travel | 24" (609 mm) |
| Z axis travel | 23" (584 mm) |
| Max. load (uniform distribution) | 4,500 lbs. (2,041 kg.) |

Table:

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| Table size (X x Y) | 48" x 24" (1,219 x 610 mm) |
| T-SLOTS (No./Width/Span) | Five (5) 13/16" on 3 15/16" (93/100 mm) |
| Table center to column min/max | 18 7/8" / 43 1/8" (480 x 1,095 mm) |
| Table top to floor | 33 1/4" (845 mm) |

Spindle Head:

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| Motor (peak): AC digital spindle drive with "Flux vector control" provides maximum torque and accurate speed control for non-mechanical spindle orientation and rigid tapping. | 21.5 hp (16 kW) |
| Motor (30 min rating, 50% ED) | 15 hp (11 kW) |
| Max-torque at spindle motor (peak) (Opt. Gear had and high torque available) | 75 ft. lbs. (10 mm-kg) |
| Spindle speed (RPM), air purged spindle head; with ABEC class 9 bearings. | 60 to 8,000 (10,000 optional) |
| Maximum clamping force(tool holder) | Up to 2,200 lbs. (1000 kg.) |
| Ranges | 1 |
| Taper | CV # 40 or BT # 40 |
| Spindle to the table (min./max.) | 4 3/4" / 27 3/4" (121 mm / 705 mm) |
| Spindle center to column ways | 30 1/2" (775 mm) |

Automatic double-arm tool changer:

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| Tool storage capacity | 32 |
| Tool selection | Random/bi directional |
| Max adjacent tool diameter | 3 1/8" (80 mm) |
| Max dia. W/adjacent pocket empty | 4" (101.6 mm) |
| Max tool weight | 25 lb. (11.34 kg) |
| Max tool length | 12" (300 mm) |
| 1 Speed max tool to tool | 3 seconds |

Performance:

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| Positioning accuracy (full travel) | ± 0.0002" (± 0.0051 mm) |
| Repeatability | ± 0.0001" (± 0.0025 mm) |
| Resolution | 0.0001" (0.0025 mm) |
| Rapid traverse (X & Y) | 1200 ipm (30 mpm) |
| Cutting feed rate | 0-400 ipm (0-10 mpm) |
| Feed rate override | 0 – 150% |
| Axis thrust (x-y-z) (peak) | 7,022 lb. (3,185 kg) |
| Positioning | Rotary encoders (X, Y and Z axes) optional glass scales |
| Control | Fanuc 0IMA Control System |

General:

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| Air pressure requirements | 100 psi @ 6 cfm |
| Coolant capacity | 65 gallons (245 liters) |
| Coolant flow | 5 GPM (20 LPM) |
| Machine height | 121" (3,070 mm) |
| Machine width | 114" (2,900 mm) |
| Machine depth | 97" (2,450 mm) |
| Working area required | 187" x 160" (4,750 x 4,060 mm) |
| Shipping weight | 16,500 lbs. (7,420 kg) |
| Power | 230 VAC, 50 AMP/460 VAC, 25 AMP/ 208 VAC, 55 AMP |

All accuracies are quoted at 68° F