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3-Achsen Bearbeitungszenter FINETECH SMV 1370 H3L FANUC 0i-MF Plus 2022



Technische Daten

Anzahl Achsen total 3

Tischlänge 1450 mm
Tischbreite 700 mm

Anzahl T-Nuten: 5

Abstand der T-Nuten 100 mm
T-Nutenbreite 18 mm
Max. Werkstückgewicht auf dem Tisch 1500 kg
Längsweg (X-Achse) 1300 mm
Querweg (Y-Achse) 700 mm
Vertikalweg (Z-Achse) 700 mm

Werkzeugmagazin Anzahl Werkzeugplätze 30

Werkzeugaufnahme: BT 40

Abstand zwischen Spindelnase und Tisch 130 - 830 mm

Spindeldrehzahl:

Stufenlos

von 0 U/min

bis 12000 U/min

Eilgang: Längs 24 m/min
Eilgang: Quer 24 m/min
Eilgang: Vertikal 2 m/min
Spindelmotor 18.5 kW
Gesamtleistungsbedarf 45 kVA
Maschinengewicht ca. 9000 kg

Abmessungen Maschine:

Länge 3650 mm

Breite 2220 mm Höhe 2560 mm

Diverses Zubehör:

Lineare Achsen Direktangetrieben

Kühlmitteleinrichtung

Kühlmittel durch die Spindel (IKZ) 20 bar

Ausblasvorrichtung für Spindelkonus

Späneförderer

Elektronisches Handrad

Beleuchtung

Spindelkühlung

Spindelölkühler

Spülpistole

Blaspistole

Automatisches Ausschalten

Zentralschmierung

Schaltschrank Klimagerät

Zustandsleuchte



Internationally Recognized Machine Tools From Finetech





Extensive Quality Control

Before shipping, each machining center from Finetech is subject to rigorous quality inspections during assembly. If it does not measure up to our standards, it does not leave our factory. Our objective is to ensure that each machine will provide optimum performance and fully satisfy customers.



SPINDLE DYNAMIC BALANCE TESTING

After machine assembly, the spindle is re-balanced to ensure smooth operation.



SPINDLE THERMAL GROWTH TESTING

Each spindle is tested through the complete speed range and thermal growth is measured to ensure the spindle is within normal values.



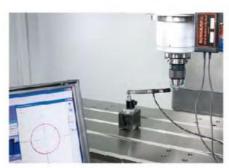
FINAL TEST CUT

Dynamic cutting process test ensures precision and performance of machine.



CALIBRATION

Every Finetech machine is laser calibrated for pitch error compensation and backlash.



BALL BAR TESTING

Every machine is put through a Dynamic Ballbar test to test circularity and reversal spike errors.

Extensive Quality Control During Assembly





SPINDLE TRAM

Every spindle mount is hand scraped to ensure accurate alignment of the spindle to worktable.



BALLSCREW ALIGNMENT

The ballscrew bearing mounts are aligned using a precision test mandrel.

The mounting surface is hand scraped to ensure a highly precise alignment.



GUIDEWAYS ARE FITTED WITH "TURCITE B"

Box way type machines are hand scraped and set matched to ensure high geometric accuracy.



STRAIGHTNESS

Every linear guideway has a precision ground mounting surface and is checked using a high precision Granite straight edge.







LEVEL

The machine level is continuously checked through each stage of the assembly process using precision levels.



SCREW AND LINEAR RAIL PARALLEL TEST

The straightness of the ballscrew is measured against the straightness of the linear guideway to ensure both components are parallel to each other.



THRUST BEARING ASSEMBLY

The thrust bearing housings are inspected and ground for proper clearances to allow the ballscrew to be properly supported.



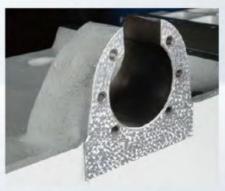
SERVO MOTOR MOUNT

Each servo motor mounting surface is ground to ensure the motor is correctly aligned to the ballscrew.



EFFICIENT AXES LUBRICATION

Each axis uses volumetric oil or grease distribution to ensure even and efficient lubrication.



BALLSCREW MOUNT

The ball nut is hand scraped and aligned using a precision test mandrel.



Z AXIS ALIGNMENT TEST

The Z axis is tested for accuracy using a high precision granite square in X, Z and Y, Z directions.

Excellent Mechanical Features







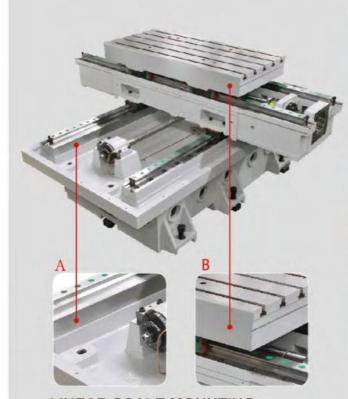
IN HOUSE CIRCUIT DESIGN

The Finetech R&D team can design both hardware and software components for the machine tools and allows for better quality control and quick response to customers requests.



Ø63mm EXTRA LARGE BALLSCREW

Finetech's model 1890 and larger use ø63mm ball screws to handle heavier cutting and table loads while still providing smooth motion.



LINEAR SCALE MOUNTING SURFACE

A precision ground surface can be added to each axis to allow for easy installation of linear scales by ensuring a straight and parallel surface.



AIR COUNTER BALANCE



T-SLOT GRINDING

Each T-Slot is ground to a H8 tolerance to provide an accurate datum surface allowing for easy and precise machine setup.

LINEAR WAY

CNC Vertical Machining Center



LINEAR WAY SERIES



▲ 610-H3L

- Travel : X610 Y400 Z460 mm
- Table : L650 × W400 mm



▲ 850-H3L

- · Travel: X850 Y600 Z650 mm
- Table : L1000 × W500 mm



▲ 1370-H3L

- Travel : X1300 Y700 Z700 mm
- Table : L1450 × W700 mm



▲ 710-H3L

- Travel : X710 Y450 Z460 mm
- Table : L760 × W420 (500) mm



▲ 1060-H3L

- · Travel: X1000 Y600 Z650 mm
- Table : L1100 × W600 mm



▲ 1570-H3L

- · Travel: X1500 Y700 Z700 mm
- Table : L1650 × W700 mm



▲ 800-H3L

- Travel : X800 Y500 Z500 mm
- Table : L950 × W500 mm



▲ 1270-H3L

- Travel : X1200 Y700 Z700 mm
- Table : L1350 × W700 mm



▲ 1670-H3L

- Travel : X1600 Y700 Z700 mm
- Table : L1750 × W700 mm



▲ 1685-H3L

- · Travel: X1600 Y850 Z850 mm
- Table : L1600 × W800 mm



▲ 2070-H3L

- Travel : X2000 Y700 Z700 mm
- Table : L2150 × W700 mm



Heavy Cutting Vertical Machining Center



▲ SMV-2590-3B

BOX WAY SERIES



▲ 650-3B

· Travel: X650 Y500 Z500 mm

Table: L800 x W470 mm



▲ 1570-3B

Travel: X1500 Y700 Z650 mm

Table: L1650 x W700 mm



▲ 1060-3B

· Travel: X1000 Y600 Z650 mm

Table: L1100 × W500 mm



▲ 1670-3B

· Travel: X1600 Y700 Z650 mm

• Table: L1750 × W700 mm



▲ 1270-3B

• Travel: X1200 Y700 Z650 mm

• Table: L1300 x W700 mm



▲ 1890-3B

• Travel: X1800 Y1000 Z900 mm

• Table : L1950 × W900 mm



▲ 2090-3B

• Travel : X2000 Y1000 Z900 mm

• Table: L2150 × W900 mm



▲ 2290-3B

· Travel: X2200 Y1000 Z900 mm

Table: L2350 × W1000 mm



▲ 2590-3B

Travel: X2500 Y1000 Z900 mm

Table: L2600 × W1000 mm

COMBINATION WAY

Combination Type Vertical Machining Center



▲ SMV-2090-2LB

COMBINATION WAY SERIES



▲ 1060-2LB

Travel: X1000 Y600 Z650 mm

Table: L1100 × W600 mm



▲ 1270-2LB

Travel: X1200 Y700 Z650 mm

Table: L1350 × W700 mm



▲ 1570-2LB

· Travel: X1500 Y700 Z650 mm

• Table : L1650 × W700 mm



▲ 1670-2LB

Travel: X1600 Y700 Z650 mm

• Table: L1750 × W700 mm



▲ 1890-2LB

Travel: X1800 Y900 Z900 mm

• Table : L1950 × W900 mm



▲ 2070-2LB

· Travel: X2000 Y700 Z700 mm

Table : L2150 × W700 mm



▲ 2090-2LB

• Travel : X2000 Y1000 Z1000 mm

• Table: L2150 × W1000 mm



▲ 2290-2LB

· Travel: X2200 Y1000 Z1000 mm

• Table: L2350 × W1000 mm



▲ 2590-2LB

Travel: X2500 Y1000 Z1000 mm

• Table: L2600 x W1000 mm



Optional Equipment



