

Advanced CNC Metal Spin Forming Machines

With its new Spin forming machine line, MJC has developed the future within Spin forming technology. MJC Spin Forming Machines are specially designed for the manufacturing of rotary and shear formed precision components. MJC customers benefit from the best service and support in the industry through locally authorized service centers.



DESIGN FEATURES

- Superior Feed Rate
- Better Balance in Forming Forces
- Faster Cycle Times
- Rugged Construction
- Oversized Linear Slide Bearings
- Servo Ball-screw Drives
- Rigid X Slide Units
- Trouble-free Operation
- Quick Tooling Changeovers
- Simple Diagnostics
- Low Maintenance
- Siemens Sinumerik Control System
- Custom programming software

CAPACIDAD DE LA MÁQUINA:

Maximum workpiece diameter	600 mm
Reject thickness in stainless steel material	2 mm
Reject thickness in soft steel material	3 mm
Reject thickness in brass material	3mm
Reject thickness in soft copper material	3mm
Reject thickness in 99.5 Aluminum material	5 mm



ESPECIFICACIONES DE LA MAQUINA

Main spindle:

AC-Vector drive motor (100% CDF) at 1500 min-1 20 kW
Spindle speed range 2500 RPM

Machine shaft:

X axis stroke (longitudinal displacement) 375 mm
X axis force (thrust power) 40 kN
X axis speed 9000 mm / min.
Z axis stroke (cross travel length) 375 mm
Z axis force 40 kN
Z axis speed 9000 mm / min
Slide lubrication method Oil/Industrial Fat

Counterpoint:

Tailstock travel (tailstock travel length) 400 mm
Tailstock force (tailstock contact pressure) 15 kN
Tailstock Fast speed 6000 mm / min

Sistema de control CNC:

Sistema de control Siemens 840Dsl
Control PLC: Siemens S700

Información técnica general:

App. Requisito de energía: 220V-3ph 60Hz - 100 Amps
Voltaje de control DC24V
Max. Fluctuaciones de voltaje $\pm 10\%$
Año de Fabricación: 2022

To avoid system failures, good grounding according to DIN standards must be made within the plant to ground all machines, electrical cabinets, etc.

Advanced CNC Equipment for Metal Forming Technology CNC Spin Forming Machines SP-1050.4



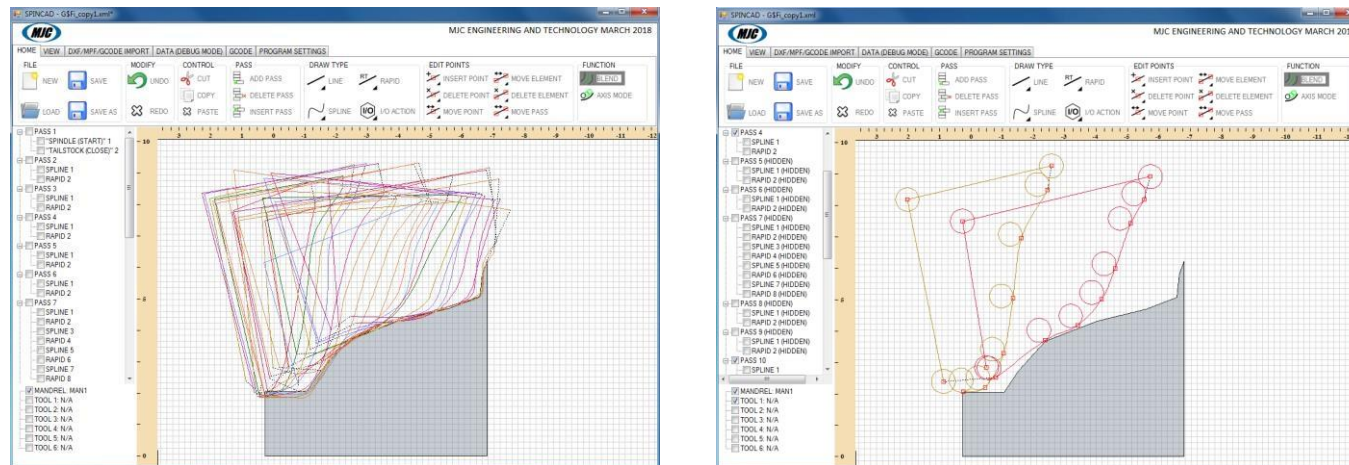
**ENGINEERED
PERFECTION**



SpinCAD™ Machine Programming Software



**ENGINEERING AND
TECHNOLOGY, INC.**



SpinCAD™ CNC programming software features:

- Windows based software.
- Separate programs for programming and operation of the machine.
- The programming software can be run on any PC compatible computer.
- Rapid feed linear contouring and / or cubic grooving.
- Trapezoidal speed profiling.
- Spreadsheet-style data entry simplifies programming. The friendly environment allows for quick changes. Both control and contour information are displayed on the same screen.
- Powerful CAD graphics input using a mouse provides instant graphic views of programmed contours. Features include zooming, scrolling, and snapping.
- The control program contains password-protected calibration and diagnostic screens for quick system checks and configurations.
- Times and / or pyrometric control of the heating process.
- See separate file with more technical information.
- Includes software and programs support for the NC and PLC of the lathe and peripherals (bar feeder); as well as necessary equipment and accessories (interface for connection between the mobile equipment and the machine) to reload the aforementioned software and programs.

Software options:

Programming software

SpinCAD™

Configuration utility software

SetupPRO ©

Machine Operator Panel

The operator panel is a separate unit and the operator interface includes:

- With Touch screen, USB port.
- A graphical interface panel that allows operators to easily select programs from a library or by directly downloading programs from a central production intranet system.
- Manual control of all axes and peripheral equipment.
- Password protection is provided to allow access to various capabilities within the machine.
- Maintenance screens that help maintenance personnel troubleshoot the machine. The status of all input and output devices will be displayed in real time.
- A shutdown screen to be used as a guide to shutting down the machine.
- An operator status screen that displays automation information on the status of the robot-machine interface.
- Current equipment alarms and alarm history screen.
- All monitored data can be downloaded for analysis via a solid state hard drive or an intranet connection.

Scope of supply of the machine

Machine work cell as described above.

One (1) set of foundation anchors.

One (1) set of manuals and one electronic copy (Adobe pdf format)

Installation information.

(This information will contain drawings showing the location and sizes of all required electrical, air, water, drain, and other utilities, including consumption (flow rates), minimum and maximum inlet pressures, head drop, maximum pressure through equipment and interconnections between equipment accessories.)

GENERAL DESCRIPTION:

6 station turret

Turret with tools for rejecting (FLOW FORMING) the pieces, as well as a set of tools for additional spinning operations (deformation of the material without changing the thickness). A 6 station programmable turret is mounted on the X-axis slide. The turret can be equipped with tools such as rollers, flanging rollers, trimming accessory, machining accessory, etc. The turret is fully programmable through SpinCAD and with proper tool management, repeated parts are easily reproduced.

Ejector

An ejector is provided to remove the workpieces from the tool after the forming process. The ejector rod passes through the hollow main shaft and is guided through a bronze bushing, installed in the nose of the main shaft. The ejector functions are integrated into the automatic cycle of the machine and are controlled by non-contact limit switches.

Blank lubrication / Auto greasing / Forming spray

A high volume, low pressure spray system is mounted on the upper slide, close to the forming roll. The system provides a precisely targeted spray to the workpiece without fine atomization of the coolants, eliminating unwanted coolant mists or mists being carried into the surrounding air and also reducing waste. The reservoir is located in a convenient location for easy filling. Through the CNC system the lubrication is fully programmable.

Control system

The machine is equipped with a "Siemens" Sinumerik 840Dsl computer numerical control system. The CNC programming software is specifically designed for use on MJC metal spinning machines.

With remote diagnostics, MJC can monitor and adjust machine settings anywhere in the world. Requires Ethernet connection.



**ENGINEERING AND
TECHNOLOGY, INC.**

Advanced CNC Equipment for Metal Forming Technology CNC Spin Forming Machines SP-1050.4



**ENGINEERED
PERFECTION**

