

UNDER ONE ROOF



MC MACHINERY SYSTEMS, INC.

a subsidiary of  Mitsubishi Corporation



EDM, Universal & High Speed Machining Centers

- MILLING VMC 3 & 5-AXIS
- WIRE & SINKER EDM
- HSM 3 & 5-AXIS
- GRAPHITE MILL 3 & 5-AXIS

WSM TECHNOLOGY INC.
Your local dealer for MC Machinery/Mitsubishi

 **MITSUBISHI ELECTRIC**

MORE TECHNOLOGIES MORE POSSIBILITIES MORE COMMITMENTS



■ LATHE / MILL TURN
/ MULTI TURRET

■ MILLING
VMC

■ UNIVERSAL
5-AXIS

■ WIRE EDM
MACHINE

■ EDM DIE
SINKING

■ HSM LINEAR
MOTOR

■ HSM 5-AXIS

MORE UNIVERSAL MACHINES

LINE OF MACHINING CENTERS

LINEAR/ROLLER WAYS

- **MCV/DV** ————— 7 MODELS
Linear Ways XYZ
CAT 40 Big+ 8,000 / 12,000 / 15000 rpm

BOX WAYS

- **BV** ————— 6 MODELS
Box Ways XYZ
CAT 50 Big+ 6,000 / 10,000 rpm

HIGH SPEED

- **DM** ————— 6 MODELS
High Speed Mill / Graphite Mill
HSK 20,000 / 24,000 rpm

5-AXIS

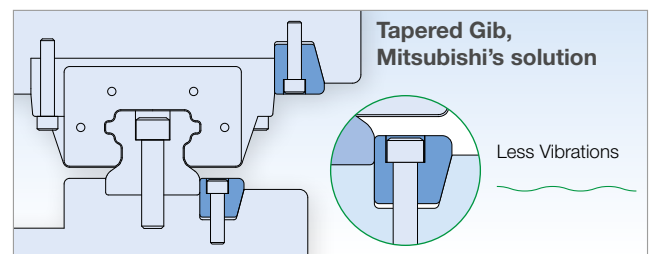
- **MC** ————— 4 MODELS
Trunnion Table / Heidenhain Control
CAT 40 Big+ 12,000 / 15,000 / HSK 20,000 / 24,000 rpm



Less Vibrations

- **Better Finishes & Accuracy**
- **Longer Tool Life & Spindle Life**

Our ways and guide packs are mounted using a wedge.
This is the sturdiest and most rigid design.
The best solution for dramatically less vibrations.



High Performance Mitsubishi CNC's STD Features

- **15" to 19"** Touchscreen and **32Gb to 64Gb** Memory
- **NAVI Conversational** Icons Driven to quickly go from CAD to toolpath to chips
- Modern functions such as Pinch In/Out, Drag & Program Edit are made easy with our **64 Bit Processor**
- Proprietary **H.S.H.A.** Machining Mode 3 and **S.S.S.-4G** processing info at **135 to 270KBM** to optimize Surface Finish and Accuracy
- **1,350 to 2,700 Block Look Ahead**



DV1000 4140 STEEL 30 RC. DEEP SLOT



DM1000 HARDEN D2 60RC

MORE EDM MACHINES

LINE OF EDM MACHINES

WIRE EDM

■ MV1200-R M800

X,Y,U,V Linear Shaft Motor
.002" Auto-Threading Capability
4 Ra Micro Inch Surface Finish in Carbide

2 MODELS

WIRE EDM

■ MV2400-S M800

X,Y Linear Shaft Motor
Max. Cutting Height 8.5/12/16.5/20/32"
Auto-Rethreading in the Gap

4 MODELS

DIE-SINKING EDM

■ EA-S & EA-PS

IDPM Ultra Low Wear Module
SS Jump 5 Deep Rib/Sub Gate/No Flush
SP Tungsten Carbide Power Supply

7 MODELS

OPS-INGERSOLL

■ EAGLE 800

Bridge Design optimum for Large Machines
Ultra Low Wear Technology
Super Fine Finish with Graphite Electrode

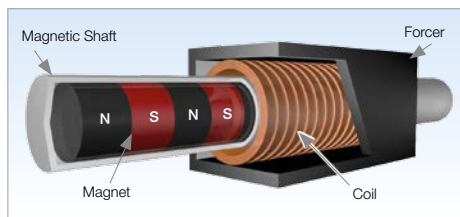
5 MODELS

Wire EDM

■ Linear Shaft Motor

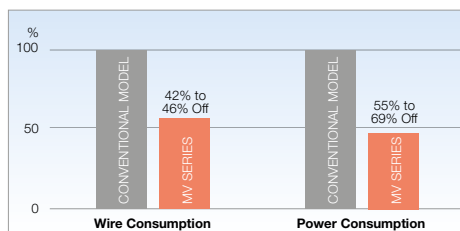


No Heat
Zero Backlash



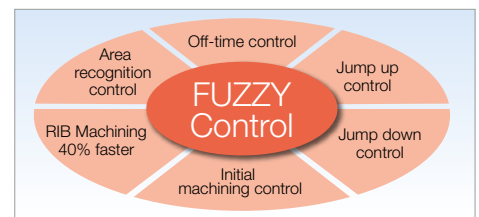
■ Low Operating Cost

Greatest
productivity
per Lbs of wire



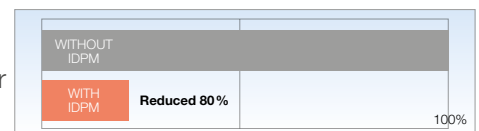
Die-Sinking

■ FUZZY Control



■ Machining Adaptive Control IDPM

IDPM reduces
graphite
electrode wear
up to 80%



Electrode wear
comparison for
15x15mm
and 40mm depth



LINEAR SHAFT MOTOR



LINEAR SHAFT BASIC CONCEPT



NEW M800 CNC

MORE PRECISION

3 OR FULL 5-AXIS

ROKU-ROKU

■ ANDROID

3-Axis
Linear Motors - XYZ Axis
Hard Milling - Jig Grinding
HSK 60,000 rpm

2 MODELS

OPS-INGERSOLL

■ EAGLE V5

3&5-Axis
Hard Milling and/or Graphite
HSK 36,000/42,000 rpm

4 MODELS

ROKU-ROKU

■ VS-652

3&(3+1, 3+2)-Axis
Hard Milling - Jig Grinding - Graphite
20 HP/30,000 rpm Spindle to Cut Carbide Tungsten
HSK 30,000/32,000/36,000/40,000/60,000 rpm

11 MODELS

μ = \$\$\$

"Always remember that when you decide of accuracy tolerances, tight tolerance might be necessary, but they will ALWAYS BE COSTLY".

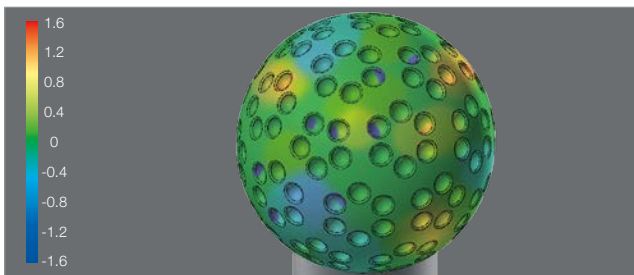
Swiss Professor of Blaise Buholzer, Owner of WSM Technology, Inc

■ The Simple Rule Goes as follow:

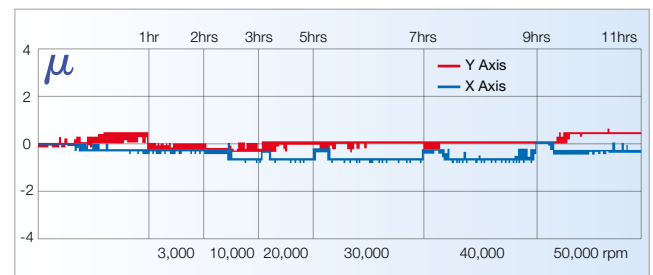
1. 0.1 mm = \$10 - 2. Same part with 0.01 mm tolerance = \$100 - 3. Same part with 0.001 mm tolerance = \$1,000

Ultimate Volumetric Accuracy Capability

Eagle V9 5-AXIS Simultaneous Cutting XYZ
Blue Light Inspection Deviation Map



Roku-Roku Android Dynamic XY Axis Deviation



Precision 24/7

With accurate and predictable processes, optimize your next HSM Center's productivity with an automation solution using a Mitsubishi Robot or OPS-INGERSOLL single source fully integrated pallet/electrode changer. Integrated solutions from EROWA and System 3R are also available in many configurations.



V9 5 AXIS MACHINING
OF BALL WITH DIMPLES



5-AXIS MACHINING CENTERS



ELECTRODE MANUFACTURING

DID YOU KNOW THAT ?



MC Machinery's brand new facility in Chicago - 180,000 SQ FT.

- Mitsubishi Electric helps the US economy with more innovative solutions and jobs than any other machine tool builder.

Global Revenue over \$40 Billion
100,000 Employees
45 Companies



- MC Machinery, Inc. is a subsidiary of Mitsubishi Electric. Since 1972, MC Machinery has installed and still supports more than

13,000 EDM Machines
in the USA

MC MACHINERY
SYSTEMS, INC.

a subsidiary of  Mitsubishi Corporation
MAC FUNDING CORPORATION



Consumable Products Group
MC Machinery Systems, Inc.

- MC Machinery, Inc. is redefining its customer-supplier purpose by offering more new technologies, services and expertise under one roof to be
a Better Partner in your Growth



We bought our first Mitsubishi machine, a MV2400-S wire EDM in 2014. It has been a fantastic addition to our shop and exceeded our expectations. We therefore trusted WSM and Mitsubishi 1 year later when we purchased a new DM-800G Hard Mill/Graphite Mill. The machine accuracy has been excellent! We have logged over 3,600 hrs of electrode cutting in 3 years. In 2016 we purchased a DV1000 with 15,000 rpm spindle and followed that up with a second DV1000 in 2017. In May 2018 we added our 4th milling machine with another DM-800G. They really are a complete machine tool supplier.

Joe Flach (G.M. at Quadra Tooling & Automation, North Canton, OH)

- Service and Training
232 Technical
Support Staff



- Mitsubishi's Entire CNC System is the only to come with a full
3 Year Warranty*

*MC Mills and Lathes only



IF ...

- You are an EDM user looking for better value, more performance and customer support second to none
- You need a CNC lathe or a machining center, don't settle for less
- Machining high precision parts is important to your business
- You just learned about our new manufacturing technologies

...contact us



Your local dealer for MC Machinery/Mitsubishi

440-796-5238

sales@wsmtechnology.com

www.wsmtechnology.com



MC MACHINERY SYSTEMS, INC.

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www.mcmachinery.com



www.onysa.ch - Edition 1 805

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■ HSM LINEAR
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