

# Die & Mould Solutions



Established in the year 1994, Ace Manufacturing Systems (AMS) is one of the largest manufacturers of Machining centres in India. A strong R&D facility, the passion to excel and a young dynamic team led by experienced professionals has fuelled the rise of AMS to this premier position. AMS is a part of the Ace Micromatic Group, the largest machine tool Conglomerate in India.

## Why AMS

- + Offering a wide range of over 70+ products including machining centres in both vertical and horizontal configurations
- + World class manufacturing Facility spanning across 3,00,000 Sq ft with an annual capacity of 3000+ machines
- + Best in class machines offering high quality and productivity, well suited to meet the requirements of job shop, tool rooms, auto component dies, rubber dies, injection moulds and Sheet metal dies
- + We also provide the optimal solutions with best way out for Hot and cold forge Dies, Medical dies (tablet making), Tyre mould plastic injection and Bottle mould
- + Machines designed to accommodate a wide range of work envelopes and complex geometries without losing out on cycle time
- + Wide network of over 60+ MMT sales and service offices
- + Application and CAD/CAM support through Micromatic Tech centres



# Machine Highlights



## Product Features



Z – axis retraction  
function



Program restart  
function



Power failure  
detection feature



Ethernet  
configuration for  
program transfer



Drop  
Prevention



Air nozzle for  
dry cutting



Linear  
scales

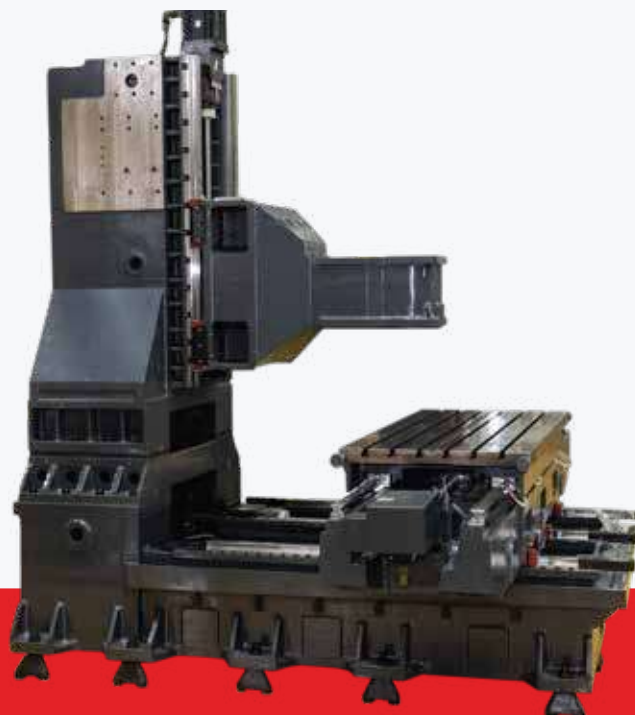
- > Coolant gun
- > Air blast
- > Handheld MPG
- > AC unit for electrical cabinet
- > Tool rack stand
- > Swivelling pendent

- > Superior Surface finish & accuracy
- > High Rigidity
- > Versatility to Machine Discrete Components
- > Ability to Handle Intricate Geometry
- > High Metal Removal Rate
- > Ability to Machine Tough Material

# Machine Feature

## Rigid Structure with Compact Footprint

These machine bed is made with best quality Cast iron in a in house facility and is stress relieved for better thermal stability. The machine bed is optimized using FEM methodology to ensure best structural rigidity and minimal footprint to save shop floor space



## Direct Drive Spindle

The machine is equipped with, direct-drive system that couples the motor directly to the spindle rather than using belts. This results in less vibration, less heat and less noise and provides better surface finishes, extreme thermal stability and quiet operation.

## LM Guideways & Ballscrews

Precision Roller guideways and Ball screws offer higher rigidity and damping characteristics needed for matching cutting capacity to the maximum power of the motor, in addition to maintaining precise geometry of work pieces at high feed speeds.





## Laser Calibration

All of our machines are calibrated using state of the art equipment to give you the best accuracy and repeatability



## Ball Bar Test

All the machines are equipped with precision measurement tool which measures the deviations. It minimizes the errors such as backlash, squareness, servo mismatch, reversal spikes, vibration etc. This results in delivering the best accuracy by running at different feed rates.

## Die Mould Machining Test

Die mould series machines, specifically are put through a machining test (20 degree tapered machining on component). This ensures the best accuracy while axis change over and surface finish on the component.



# Industry Segments & Solutions



- + **Blow Moulds:** Bottles, Oil tanks, Auto AC pipes
- + **Injection moulds:** Car bumpers, dash boards
- + **Forging dies:** Crankshaft die, Connecting rod die
- + **Medical equipment die**
- + **Rubber Moulds:** Shoe, Washers, Hoses

- + **Pressure die casting:** Cylinder heads, side cover, Intake manifold
- + **Pattern machining:** Pumps, Casting components
- + **Sheet metal die**

# Machine Specification

Description	Unit	730V	540V	740V	850V	1060V	1260V	1580V
Table Size	mmxmm	900 x 300	750 x 400	850 x 400	1000 x 510	1200 x 600	1400 x 600	1650 x 700
Max. load on table	kgf	250	400	400	500	800	1250	1500 / 2000
Travel X/Y/Z	mm	750/300/400	500/400/450	700/400/450	800/510/500	1000/600/600	1250/600/600	1500/800/600
Tool shank type		BT-40			BT-40 / BT-50			
Spindle speed	rpm	6000 / 8000	6000 / 8000 / 10000 / 12000					
Spindle power - Fanuc	kW	7.5 / 5.5	7.5 / 5.5 (Opt 11 / 7.5)		11 / 7.5 (Opt 15 / 11)	11 / 7.5 (Opt 15 / 11)		15 / 11 (Opt 18.5 / 15)
Spindle power - Siemens	kW	7.5 / 5.5	7.5 / 5.5 (Opt 7 / 10.5)		7 / 10.5 (Opt 9 / 13.5)	9 / 13.5 (Opt 11 / 16.5)		11 / 16.5 (Opt 16.5 / 18)
Spindle power - Mitsubishi	kW		7.5 / 5.5 (Opt 11 / 7.5)		11 / 7.5 (Opt 15 / 11)	11 / 7.5 (Opt 15 / 11)		15 / 11 (Opt 18.5 / 15)
Rapids	m/min	18 / 18 / 18	40/40/40	40/40/40	36/36/36	32/32/24	20/24/24	20/20/20
CNC System		Fanuc 0iMF+ / Siemens 828D / Mitsubishi M80						
Floor space	mm	1900 x 2100	1850 x 2800	2100 x 2900	2200 x 2450	3110 x 2800	3300 x 2800	4000 x 3100
Weight	kgf	2700	3400	3800	5500	6500	7500	10000
Chip Disposal		Side	Rear / Front	Rear	Front / Rear	Front / Rear	Front	Side / Rear

## Standard Features

- + Spindle taper BT-40
- + Indirect drive
- + 24 tools ATC
- + Panel cooler for electrical cabinet
- + Handheld MPG
- + Chip flushing system
- + Flood coolant system
- + Coolant gun
- + Air through nozzle
- + Tool rack (6 tools)
- + Three tier lamp
- + Rigid tapping
- + LM guideways for 3 axes

## Optional Features

- + Spindle taper BBT-40
- + Spindle taper BT-50 (1060V & above)
- + Direct drive
- + Without ATC
- + Spindle chiller unit
- + Chip conveyor
- + Higher table charge
- + Higher spindle power
- + Higher spindle speeds
- + Rotary tables
- + 4th axis feature & interface
- + Coolant through spindle



### Control Systems

Fanuc | Seimens | Mitsubishi



### Chip Management

Scraper | Stat Cum Scraper | Magnetic



### Spindle Speeds

6000rpm | 8000rpm | 10000rpm



### Spindle Taper Option

BT 40 / 50 | HSK A63



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QMS ISO 9001:2015

EMS ISO 14001:2015

OHSMS ISO 45001:2018

SA 8000:2014

ISMS ISO 27001:2013

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