

1690V

***HIGH
PERFORMANCE VMC***

Optimal Solutions for

- Die Mould Machining
- Pattern Machining

About 1690V

1690V is High Performance Machining Center, capacity to machine bigger size heavy duty components. This machine is ideally suitable for machining Die Mould and Pattern machining components. High precision LM Guideways, ball screws helps in achieving high degree of positional accuracy at faster rate.

With a rigid structure and high precision parts one can achieve high accuracy and productivity. The machine is designed, manufactured and tested to perform under very demanding working conditions.

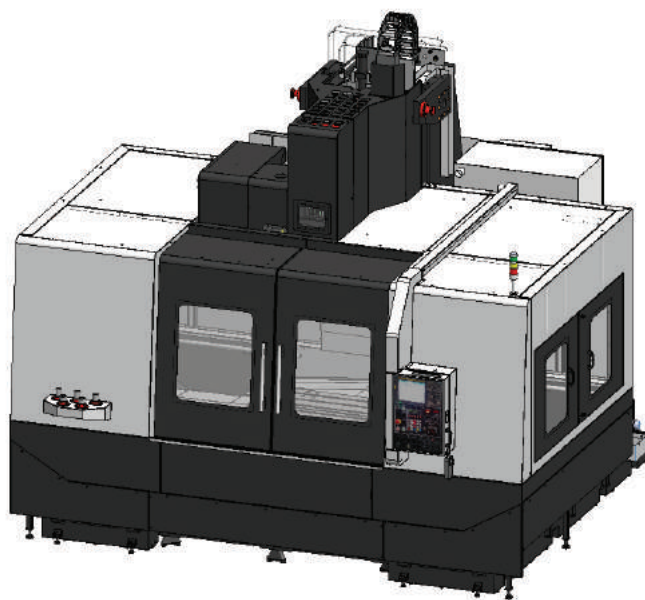
Key Highlights

- Extended Y-Stroke
- Smooth Surface Finish

- Wider Working Area
- Apt for Large Die & Pattern Components

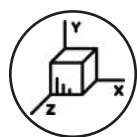
Machine Structure

- 1690V is the result of continuous R&D efforts and experience of AMS in building highly cost effective, productive & accurate machining center.
- 1690V is highly rigid machine with wider working area widely used for machining large die mould and pattern components.
- Our castings are internally reinforced with heavy ribs to resist flex and damp vibrations.
- The advanced design of our spindles provides high axial thrust capability, yet generates minimal heat.



1690V

Die Mould Features



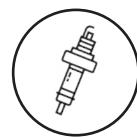
Z-axis Retraction
Function



Program Restart
Function



Power Failure
Detection Feature



Drop Prevention



Air Nozzle for
Dry Cutting

Standard Features

- Spindle Power 15/11 kW
- Rapids 20/20/20 m/min
- Side Chip Disposal
- Ball Screw Stretching for all 3 Axes
- Flood Coolant

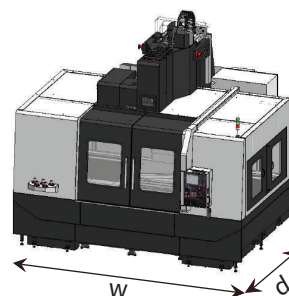
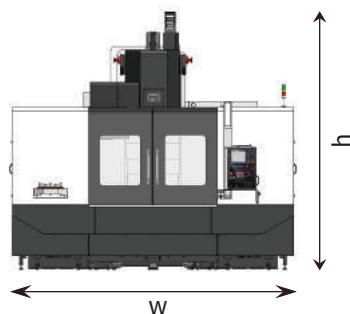
Optional Features

- Higher Spindle Power upto 18.5/15 kW
- Die Mould Kit
- Coolant Through Spindle
- Chip Conveyor along Y-axis
- 4th & 5th Axis Rotary Table

Machine Specifications

Specifications	Unit	1690V-BT 40	1690V-BT 50
Travels			
X axis	mm	1630	1630
Y axis	mm	910	910
Z axis	mm	810	810
Dist. from Spindle face to Table top	mm	150-960	150-960
Table			
Table size	mm	1800 x 800	1800 x 800
Max. load on Table	kg	2000	2000
Table Height from floor	mm	1050	1050
T-slot dimension (n x w x p)	mm	6 x 18 x 125	6 x 18 x 125
Spindle			
Tool shank type		BT-40	BT-50
Spindle speed Std.	rpm	6000	4000
Spindle Bearing Dia Std.	mm	80	100
Spindle power Std.	kW	15/11	15/11
Feed			
Cutting feed	mm/min	1-10000	1-10000
Rapid traverse	m/min	20/20/20	20/20/20
Automatic Tool Changer			
No. of tools		24	20
Tool diameter	mm	80/155	125/250
Tool weight Max.	kg	8	20
Tool length Max.	mm	250	350
Tool change system		Twin Arm	Twin Arm
Pull Stud Type		MAS-403	DIN-69872
Accuracy (As per ISO 230-2)			
Positioning accuracy	mm	0.010	0.010
Repeatability	mm	±0.003	±0.003
Control System			
Fanuc		0iMF+	0iMF+
Installation data			
Machine weight – Net	kgf	12000	13000
Machine wxdxh	mm	4150 x 3700 x 4000	4150 x 3700 x 4000

* All Specifications are subject to change without prior notice.
- All the dimensions mentioned are in mm.



End to End Solutions

From the Planning stage to Production



Process Identification



Fixture Development



Automation Solutions



Complete Prove-out

Applications



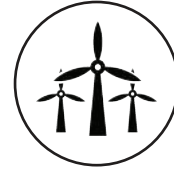
Die Mould



Aerospace



Medical



Energy Generation

Contact Us

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