

TOTAL MACHINING SOLUTIONS

AMS[®]
In Pursuit of Excellence



Drill Tap Machining Centers
Vertical Machining Centers
Horizontal Machining Centers
Die & Mould Machining Centers
Twin Spindle Machining Centers
Column Moving Vertical Machining Centers
Tooled up Solutions

www.amsl.in

AceMicromatic
Group Company

About us

Customer focus and continual improvements have always been the core strengths of AMS. Ever since its inception in the year 1994 AMS has been working very closely with its customers, valuing every feedback with utmost care. The organization is driven by its principle of providing superior quality products at lower cost with the best post-sales support. The overwhelming response from customers has led to the development of wide variety of products. Today AMS is not only one of the market leaders in manufacturing Vertical Machining Centers but also has created a niche market for Horizontal Machining Centers.

Along with the manufacturing of machining centers we also have developed rich experience in providing tooling up solutions. This includes fixtures, tooling selection, automation interface and prove-out of your components. We are ever ready to provide customized solutions to your manufacturing needs. With a widely spread marketing and support network across the country we are always there to listen to your requirements and provide you with befitting solutions.

This catalogue provides the key specifications of all our products with the latest improvements included. The products are available with a myriad of options. Please feel free to contact us for further details regarding the product or a turnkey solution.

Quality Policy

“We are committed to achieve total satisfaction of our customers through timely delivery, innovation, development, and continual improvement of our products, processes, people and suppliers with effective implementation of quality management systems.”



Products at a glance

Standard VMCs			MCV-300	MCV-350	Winner	Super Winner	MCV-400	MCV-400S	MCV-400SS	MCV-450	ACER / 850V	MCV-550L	1060V	MCV-650	MCV-700 N	MCV-700	MCV-800
Traverse	X	mm	400	400	500	500	600	500	700	800	800	1000	1000	1020	1250	1500	2000
	Y	mm	350	350	400	400	450	400	400	450	510	550	600	650	700	700	810
	Z	mm	320	480	350	500	500	450	460	500	500	550	600	600	600	700	810

High Speed VMCs			Challenger +		MCV-400 XL		MCV-450 XL		ACER XL	
Traverse	X	mm	600		600		800		800	
	Y	mm	450		450		450		510	
	Z	mm	350		500		500		500	

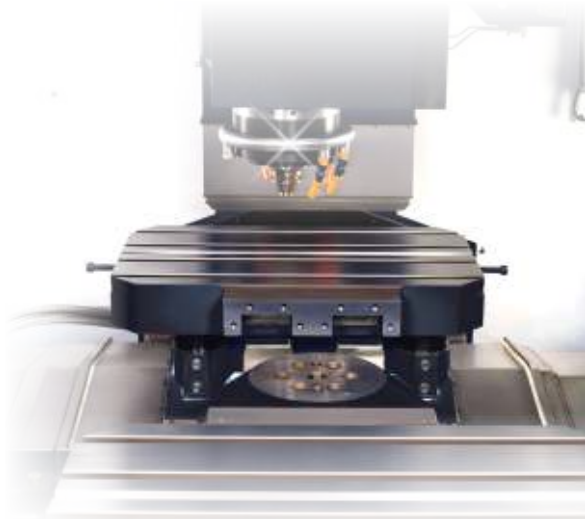
VMCs with BT-50			MCV-550L/50		MCV-650/50		MCV-700/50		MCV-800/50	
Traverse	X	mm	1000		1020		1500		2000	
	Y	mm	550		650		700		810	
	Z	mm	550		600		700		810	

VMCs with APC		DTC-300	MCV-300/ MCV-350	Winner/ Super winner	Super Dart	Challenger +	MCV-400/ 400S	MCV-400SS/ MCV-400XL	MCV-450/ MCV-450 XL	Acer/ Acer XL	MCV-550 L	MCV-650
Pallet size-LAPC	mm	500 x 325	500 x 325	600 x 385	650 x 430	650 x 430	650 x 430	650 x 430	800 x 435	800 x 485	1000 x 535	1000 x 635
Pallet size-RAPC	mm				700 x 450			700 x 450	800 x 450	800 x 450		

* APC: Automatic Pallet Changer, L: Linear, R: Rotary

Special VMCs			Twine spindle							Moving Column	
			Gemini Mini S	Gemini Mini	Gemini Mini L	Gemini Jr.	Gemini Jr XL	Gemini XL	Gemini Max.	Fier V	DM 800
Traverse	X	mm	400	500	600	500	500	600	750	500	1000
	Y	mm	400	400	450	450	450	450	500	450	800
	Z	mm	500	500	500	600	600	600	600	350	500

DTMCs			Spark	DTC-300	DTC-400	DTC-400 L	Super Dart
Traverse	X	mm	300	400	500	700	600
	Y	mm	250	350	400	400	450
	Z	mm	250	320	320	320	500



Standard HMCs			Proton		HMC-400XL	
Traverse	X	mm	500		600	
	Y	mm	400		450	
	Z	mm	400		415	

Column Moving HMCs			Fier-H	CMH-400	MCH-400 XL	CMH-500	MCH-500
Traverse	X	mm	500	600	610	800	800
	Y	mm	400	500	610	550	600
	Z	mm	500	500	650	550	800

Column Moving HMC with BT-50			CMH-500/50	MCH-500/50	MCH-630	MCH-800
Traverse	X	mm	800	800	1000	1500
	Y	mm	550	580	850	1100
	Z	mm	550	800	900	1300

Vertical Machining Centers

Drill Tap Machining Centers							
			SPARK	DTC - 300	DTC - 400	DTC - 400 L	Super Dart
Stroke X, Y & Z axes		mm	300 x 250 x 250	400 x 350 x 320	500 x 400 x 320	700 x 400 x 320	600 x 450 x 500
Table size		mm x mm	500 x 250	650 x 350	650 x 400	850 x 410	900 x 450
Max. load on table	Std./Opt.	kgf	150	200	400	400	250 / 500
Spindle speed	Std.	rpm	6000	6000	8000	8000	8000
	Opt.	rpm	8000	8000	10000 / 12000	10000 / 12000	10000
Spindle power	Std./Opt.	kW	5.5 / 3.7	5.5 / 3.7	5.5 / 3.7	5.5 / 3.7	7.5 / 5.5
Spindle taper	Std.		BT - 30	BT - 30	BT-30	BT-30	BT - 30
	Opt.				BBT-30	BBT-30	BBT-30 / HSK A50
ATC capacity	Std./Opt.	Nos.	6	12	12	12	20
Rapid traverse - X/Y/Z	Std.	m/min	20 / 20 / 15	40 / 40 / 40	48 / 48 / 40	48 / 48 / 40	50 / 50 / 40
	Opt.	m / min					40 / 40 / 40
CNC System	Std.		Fanuc	Fanuc	Fanuc	Fanuc	Fanuc
	Opt.				Siemens	Siemens	Siemens

* 16 tool pocket titling type ATC as optional for DTC-400 & DTC-400L



SPARK



DTC-400



540 V



MCV-450



SUPER WINNER



MCV - 400 SS



MCV - 550 L



MCV-700

Vertical Machining Centers

High Speed VMCs						
			Challenger+	MCV-400 XL	MCV-450 XL	ACER XL
Stroke X, Y & Z axes		mm	600 x 450 x 350	600 x 450 x 500	800 x 450 x 500	800 x 510 x 500
Table size		mm x mm	900 x 450	900 x 450	1000 x 450	1000 x 510
Max. load on table	Std./Opt.	kgf	250 / 500	500	500	600
Spindle speed	Std.	rpm	8000	8000	8000	8000
	Opt.	rpm	10000/12000	10000	10000	10000/12000
Spindle power	Std./Opt.	kW	7.5/5.5 / 11/7.5	11/7.5 / 15/11	11/7.5 / 15/11	11/7.5 / 15/11
Spindle taper			BT-40	BT-40	BT-40	BT-40
ATC capacity	Std./Opt.	Nos.	12	24 / 30	24 / 30	24 / 30
Rapid traverse	Std.	m / min	50 / 50 / 40	40 / 40 / 40	40 / 40 / 40	50 / 50 / 40
- X / Y / Z	Opt.	m / min	40 / 40 / 40			
CNC System	Std.		Fanuc	Fanuc	Fanuc	Fanuc
	Opt.			Siemens	Siemens	Siemens

Standard VMCs									
			MCV-300	MCV-350	Winner	Super Winner	MCV-400	540V	740V
Stroke X, Y & Z axes		mm	400 x 350 x 320	400 x 350 x 480	500 x 400 x 350	500 x 400 x 500	600 x 450 x 500	500 x 400 x 450	700 x 400 x 450
Table size		mm x mm	650 x 350	650 x 350	800 x 400	800 x 400	900 x 450	650 x 400	850 x 410
Max. load on table	Std./Opt.	kgf	200 / 400	300 / 500	200 / 400	300	300	400	400
Spindle taper			BT-40	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40
Spindle speed	Std.	rpm	6000	6000	6000	6000	6000	6000	6000
	Opt.	rpm	8000	8000	8000	8000	8000 / 10000	8000 / 10000	8000 / 10000
Spindle power	Std./Opt.	kW	5.5/3.7 / 7.5/5.5	5.5/3.7 / 7.5/5.5	5.5/3.7 / 7.5/5.5	7.5 / 5.5	7.5/5.5 / 11/7.5	7.5 / 5.5	7.5 / 5.5
ATC capacity	Std./Opt.	Nos.	12	20	12	20 / 24 / 30	20 / 24 / 30	20 / 24	20 / 24
Rapid traverse - X / Y / Z	Std.	m / min	40 / 40 / 40	40 / 40 / 40	40 / 40 / 40	40 / 40 / 40	30 / 30 / 30	40 / 40 / 40	40 / 40 / 40
CNC System	Std.		Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc
	Opt.						Siemens	Siemens	Siemens

* Optional Rapid Traverse will be applicable when higher max. load on table is opted for
* Mitsubishi CNC System can be offered on selected models

MCV-450	ACER / 850V	MCV-550L		1060V	MCV-650		MCV-700N	MCV-700		MCV-800	
800 x 450 x 500	800 x 510 x 500	1000 x 550 x 550		1000 x 600 x 600	1020 x 650 x 600		1250 x 700 x 600	1500 x 700 x 700		2000 x 810 x 810	
1000 x 450	1000 x 510	1200 x 550		1200 x 600	1200 x 650		1450 x 700	1650 x 700		2400 x 810	
400 / 700	500	800		800 / 1200	800		1200	1500		2000	
BT-40	BT-40	BT-40	BT-50	BT-40	BT-40	BT-50	BT-40	BT-40	BT-50	BT-40	BT-50
6000	6000	6000	4000	6000	6000	4000	6000	5000	4000	5000	4000
8000	8000	8000	5000	8000 / 10000	8000	5000	8000	6000		6000	
11/7.5 / 15/11	11/7.5 / 15/11	11/7.5 / 15/11		11/7.5 / 15/11	11/7.5 / 15/11		15/11	15 / 11	18.5 / 15	18.5 / 15	18.5 / 15
20 / 24 / 30	20 / 24 / 30	20 / 24 / 30	20 / 30	32 / 32 / 24	20 / 24 / 30	20 / 30	20 / 24 / 30	24 / 30	20 / 30	24 / 30	20 / 30
30 / 30 / 30	32 / 32 / 30	32 / 32 / 24			32 / 32 / 24		20 / 20 / 24	20 / 20 / 20		18 / 18 / 18	
Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc		Fanuc	
Siemens	Siemens	Siemens		Siemens	Siemens						

Note: Option of BBT-40 can be offered in lieu of BT-40 on selected Models.
Option of HSK A-50, A-63 & A-100 can be offered in lieu of BT-30, 40 & 50 respectively on selected models

Vertical Machining Centers

Special Vertical Machining Centers					Twin Spindle Machining Centers				
			Gemini mini s	Gemini mini	Gemini mini L	Gemini Jr.	Gemini Jr. XL	Gemini XL/Gemini 460	Gemini Max
Stroke X, Y & Z axes		mm	400 x 400 x 500	500 x 400 x 500	600 x 450 x 500	500 x 450 x 600	500 x 450 x 600	600 x 450 x 600	750 x 500 x 600
Table size		mm x mm	800 x 400	1100 x 450	1100 x 450	900 x 450	900 x 450	1200 x 480	1400 x 520
Max. load on table	Std./Opt.	kgf	350	350	350	500	500	500	1000
Distance between two spindles		mm	250	250	360	250	250	400/460	400
Spindle speed	Std.	rpm	6000	6000	6000	8000	8000	8000	4000
	Opt.	rpm	8000	8000	8000		10000	10000	
Spindle power	Std./Opt.	kW	11	11	11	7.5/5.5 (2) / 11/7.5 (2)			15/11(2) / 26/22(2)
Spindle taper	Std.		BT-30	BT-30	BT-30	BT-40	BT-40	BT-40	BT-50
	Opt.		BBT-30	BBT-30	BBT-30		HSK A63	HSK A63	HSK A100
ATC capacity	Std./Opt.	Nos.	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
Rapid traverse - X / Y / Z		m / min	50 / 50 / 40	40 / 40 / 40	40 / 40 / 40	24 / 24 / 24	50 / 50 / 40	50 / 50 / 40 / 40 / 40 / 24	40 / 40 / 40
CNC System	Std.		Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc
	Opt.		Siemens	Siemens	Siemens				



GEMINI MINI



GEMINI XL



DM 800



FIER V

Special Vertical Machining Centers						
			DM 800		Fier V	
Stroke X, Y & Z axes		mm	1000 x 800 x 500		500 x 450 x 350	
Table size		mm x mm	1000 x 700		760 x 400	
Max. load on table	Std./Opt.	kgf	1500		300	
Spindle speed	Std.	rpm	8000		8000	
	Opt.	rpm	10000			
Spindle power	Std./Opt.	kW	15 / 11		7.5 / 5.5	
Spindle taper			BT-40		BT-40	
ATC capacity	Std./Opt.	Nos.	20 / 30		12	
Rapid traverse - X / Y / Z		m / min	20 / 20 / 16		40 / 40 / 40	
CNC System	Std.		Fanuc		Fanuc	
	Opt.		Siemens			

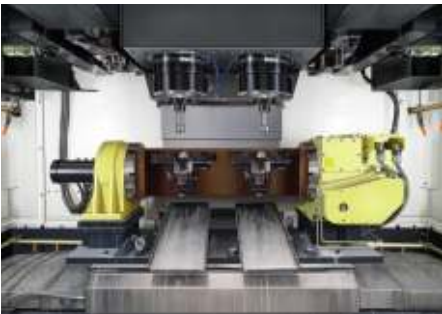
Total Solutions

From the planning stage to Production

- Process identification
- Fixture development & interface
- Automation integration
- Complete prove-out

Tooled up solutions

The application engineering team of AMS has wide experience in identifying the process for machining and providing suitable workholding and tooling solutions. This ranges across the markets from high speed & productivity solutions for the automotive industry to the high precision and accuracy solutions for the aerospace or mould making industry. This not only includes support in selection of the most suitable machines but also designing the fixtures and identification of the ideal cutting tool for the selected process. The entire prove out of the components to meet the desired cycle time can be undertaken when solutions are opted for.



Automation

It is a constant endeavor to provide better productivity on our products. Our machines are made suitable for automation interface of different types. With the experience of providing machining solutions AMS is capable of augmenting the manufacturing process with integration of automation solutions. Either semi-automated with auto-unloading or fully automated with unmanned operations there are myriad of options to choose from suiting the machining process and layout. Our automation solutions provide enhanced productivity, output consistency and minimized dependency on man power.

Due to continuous updating of machines, specifications mentioned herein are subject to change without notice



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Horizontal Machining Centers

Standard HMCs			Stationery Column		Moving Column
			Proton	HMC-400 XL	Fier-H
Stroke X, Y & Z axes		mm	500 x 400 x 400	600 x 450 x 415	500 x 400 x 500
Table size		mm x mm	400 x 320	Ø500 / 400 x 400	Ø630 / 400 x 500
Max. load on table/Pallet	Std./Opt.	kgf	200	400	400
Spindle speed	Std.	rpm	6000	6000	6000
	Opt.	rpm	8000	8000	8000
Spindle power	Std./Opt.	kW	7.5/5.5 / 11/7.5	11/7.5 / 15/11	7.5/5.5 / 11/7.5
Spindle taper			BT-40	BT-40	BT-40
ATC capacity	Std./Opt.	Nos.	16 / 30	24 / 30	24 / 30
Rapid traverse - X / Y / Z	Std.	m / min	40 / 40 / 40	40 / 40 / 32	40 / 40 / 40
CNC System			Fanuc	Fanuc	Fanuc



PROTON



CMH - 400



MCH 500



MCH 630

HMCs			Moving Column			Moving Table				
			CMH-400 XL	CMH-500		MCH-400 XL	MCH-500		MCH-630	MCH-800
Stroke X, Y & Z axes		mm	600x500x500	800x550x550		610x610x650	800x600x800	800x580x800	1000x850x900	1500x1100x1300
Table size		mmxmm	400 x 500	500 x 630		400 x 500	500 x 630	500 x 630	630 x 800	800 x 1200
Max. load on Pallet	Std./Opt.	kgf	400	500	500	500	500	500	1200	2000
Spindle taper			BT-40	BT-40	BT-50	BT-40	BT-40	BT-50	BT-50	BT-50
Spindle speed	Std.	rpm	6000	6000	4000	8000	6000	4000	4000	4000
	Opt.	rpm	8000 / 10000	8000 / 10000	5000	10000	8000			
Spindle power	Std./Opt.	kW	11/7.5 / 15/11	15 / 11	15 / 11	15 / 11	15 / 11	15 / 11	30 / 22	30 / 22
ATC capacity	Std./Opt.	Nos.	40/60	40/60	20/30	40	40/60	60	60	60
Rapid traverse - X / Y / Z	Std.	m / min	50/50/50	40/40/40	40/40/40	48/48/48	40/40/40	40/40/40	40/40/40	40/40/40
CNC System			Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc	Fanuc

* Machine should be grouted