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S42 ATM

The medical market is highly regulated, require high precision, performance and reliability; lives depend on accurate machining performed by experienced professionals.

The new S42 delivers successful medical machining solutions for a wide range of products, This field continues to grow in complexity parts and new S42 help to achieve any challenge. Whether taking on titanium, chrome, stainless steel or extreme precision of micromachining, the S42 fulfills the engineering solutions for one-process manufacturing.

Specification

Machine Type		S-42 ATM
Mitsubishi Controller		M830S
Spindle Capacity	Max. Bar Working Dia.	42mm
	Max. Turning Length	350mm(OD Turn) / 140mm(Drill)
	Collet Chuck Type	KK5-173E42B / N205A5 (5-inch)
	Spindle Nose	ISO(DIN) A2-5
	Spindle Bore	43mm
	Max. RPM.	6000 rpm
	Spindle Motor	spindle 11kw
Sub-spindle Capacity	Max. Bar Working Dia.	42mm
	Max. Turning Length	230mm(OD Turn) / 55mm(Drill)
	Collet Chuck Type	KK5-173E42B / N205A5 (5-inch)
	Spindle Nose	ISO(DIN) A2-5
	Spindle Bore	33mm
	Max. RPM.	6000rpm
	Spindle Motor	Built-in spindle 3.7kw
	Optional Accessory 1	Ø16Running center (Quill)
	Optional Accessory 2	Part Support (pneumatic)
Tool Spindle	Max. RPM.	12000rpm
	Spindle Type	HSK-T40
	Spindle Motor	Built-in spindle 10kw
	Tool Holding Force	290kg
	Tool Realease Force	450500kg
	Machining Cooling	Coolant Ring
Travel&Feed	X1	420mm (210mm)
	Y1	80 = ±40mm
	Z1	400mm
	X2	420mm (210mm)
	Y2	80 = ±40mm

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	Z2	510mm
	X1/Y1/Z1 Axis Servo Motor	2.2 / 1.5 / 2.2 kw
	X2/Y2/Z2 Axis Servo Motor	2.2 / 1.5 / 2.2 kw
B Axis	B axis Rotary	190 ° = ±95 °
	Motor	AC Servo 1.0kw
ATC System	Tool Spec	HSK-T40
	Tool Magazine Station	24
	Tool Retract Travel	40mm
	Max. Tool Dia.	Ø55 (ϕ80 witdout adjacent tool)
	Max. Tool Weight	3kg
	Max. Tool Length	100 (From tde surface of spindle)
	Tool Change Time	1.3sec
	Tool Arm Swing	505mm
	Motor	AC Servo 0.75kw
Gantry Tooling	Drill Holder Spec	ER20 / Ø20mm
	Tool Quantity	6
Lubrication	Max. Pressure	10MPa (100 kg/cm ^{2})
	Flow	20cc/min
	Capacity	1L
	Oil Spec	lubrication oil (#0θ0)
Hydraulic System	Hydraulic Motor	1HP
	Hydraulic Pressure	50kg/cm ^{2}
	Tank Capacity	35L / 30L
Coolant System	Coolant Tank Capacity	240L
	Coolant Motor Type	2KW + 2KW
	Pressure	5BAR + 25BAR
Machine Size	Length	3800mm (Chip CVY.) / 2900mm
	Width	2200mm
	Height	2050mm
	Weight	4350kg

( ) Option