

Moving column milling centres

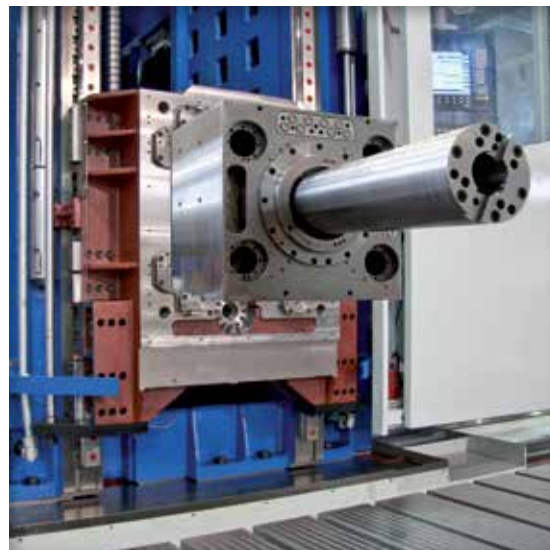
# MP212



High Power Machining Culture



Universal high-stiffness milling head (power 46 kW)



MP 212 can be equipped with boring spindle (160 mm) and fixed extensions



Possibility of automatic head changing system

The Sachman **MP212** high-power milling machine features:

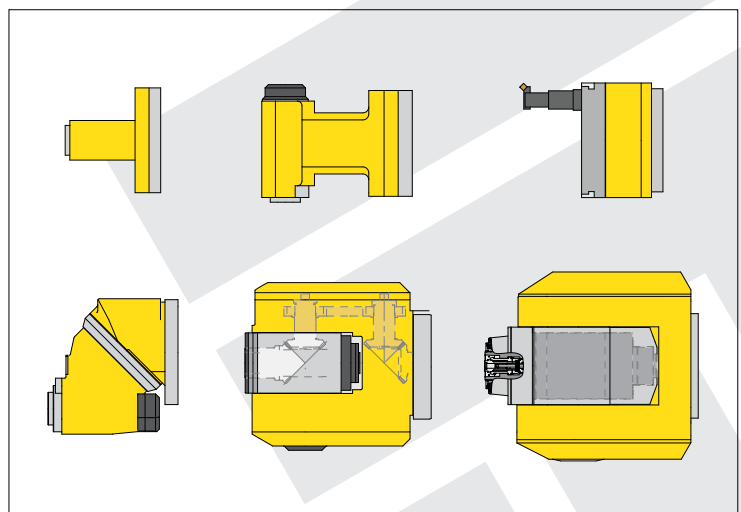
- high removal capacity
- high dynamic performance in terms of speed, acceleration and accuracy
- flexibility in use
- dynamic compensation system of variables in machining geometry
- high automation degree (fixed worktable with large loading capacity, rotary and roto-translating tables with different dimensions and loading capacities, squares for machining with parts vertical clamping)
- high versatility ensured by a wide range of accessories

**MP212** 's excellent dynamic performance has been obtained by means of consolidate design technology:

- X axis moves on guide ways with sliding pads driven by a double pinion system with mechanical backlash compensation and by a rack with helical teeth
- Y axis moves on a highly-rigid sliding system with oversized roller bearings multi-pads
- Z axis moves on three guide ways and is driven by means of two precision ball screws with pre-loaded re-circulating balls

Design principles:

- The column with thermo-symmetrical structure features two cast-iron uprights and central ram granting high stability and balance during machining
- guides' position and orientation optimised for the highest rigidity and compactness
- central position of Z-axis saddle for the best accuracy's performances



Possibility of high-power and high-speed milling with different kinds of heads

High Power Machining Culture



# AND HIGH POWER TO MACHINE LARGE COMPONENTS



Possibility of dedicated area with a turning table and specific accessories

The modular open structure grants the widest customization and allows to carry out pendular machining operations for component change in masked time

The (modular) chain-type tool magazine with 40/60 positions ISO 50 / HSK-A-100 is placed on the column in order to reduce tool change time

A vertical moving operator platform is also available for a better working area surveillance



The Sachman **MP212** represents one of the most flexible solutions on the market for machining large components for the energy, precision engineering and die/mould sector

## Technical data

## MP212

AXES STROKE		
X axis (longitudinal)	mm (inch)	6000/8000/10000 + ext. 2000 (236/315/394 + ext. 79)
Y axis (vertical)	mm (inch)	2500/3000/3500/4000 (98/118/138/157)
Z axis (transversal)	mm (inch)	1400/1600 55/63
AXES SPEED		
X-Y-Z axes	mm/min (ipm)	30000 (1181)

MILLING HEADS	C Axis	A Axis	Power	Torque	Spindle Speed	Tool Taper
	°	°	kW (hp) - S6 [S1]	Nm (lb·ft) - S6 [S1]	rpm	
3-AXIS HEADS						
FSE - Fixed spindle extension	-	-	56 [37] (75 [50])	1970 [1100] (1453 [811])	5000	ISO 50 / HSK-A-100
QUILL (Ø 160 mm / 6 in - stroke 900 mm / 35 in)	-	-	52 [46] (70 [62])	1600 [1400] (1180 [1033])	2500	ISO 50
UNIVERSAL HEADS						
Kosmo Kosmo 3	indexed 2,5 indexed 0,02	indexed 2,5 indexed 0,02	56 [37] (75 [50])	1970 [1100] (1453 [811])	5000	ISO 50
CONTINUOUS TWIST HEADS						
T35-C	± 200	±110	44 [35] (59 [47])	1005 [800] (741 [590])	5000	HSK-A-100
T3K	± 200	+120/-95	44 [35] (59 [47]) 40 [36] (54 [48])	200 [160] (148 [118]) 63 [58] (46 [43])	15000 27000	HSK-A-100 HSK-A-63

CHAIN-TYPE TOOL MAGAZINE		
Positions	N°	40 / 60 / 80 and others
Tool taper		ISO 50 / HSK-A-100 / HSK-A-63
Tool max. Ø <sup>(1)</sup>	mm (inch)	125 (4,9)
Tool max. Ø <sup>(2)</sup>	mm (inch)	240 (9)
Tool max. length	mm (inch)	500 (19,6)
Tool max. weight	kg (lb)	25 (55)

GENERAL DATA		
Power supply	VAC	400 / 480 ±10%
Frequency	Hz	50 / 60 ±2%

<sup>(1)</sup> with tools side-by-side <sup>(2)</sup> with alternate tool position

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