

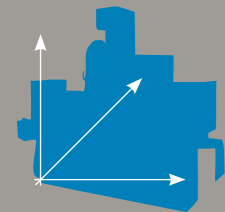
SM - SURFACE GRINDING AND MILLING MACHINES



	SM10G	SM10M	SM13
WORKING CAPACITY			
Max. automatic table traverse	1030 mm	1030 mm	1300 mm
Vertical wheelhead traverse	370 mm	370 mm	515 mm
Max. grinding width	340 mm	-	340 mm
Max. milling width with cutting tool	340 mm	340 mm	340 mm
GEOMETRIC FEATURES			
Useful table surface	850x340 mm	850x340 mm	1100x340 mm
Min. and max. height table to wheel	115-605 mm	-	105-620 mm
Min. and max. height table to tool or milling cutter	105-595 mm	110-610 mm	95-610 mm
Distance from column to table C/L	250 mm	250 mm	250 mm
Segmental wheel diameter	350 mm	-	350 mm
CBN milling head (optional)	350 mm	350 mm	350 mm
SPEEDS AND FEEDS			
Grinding wheel rotation speed	700-1400 RPM	700-1400 RPM	700-1400 RPM
Milling rotation speed (optional)	-	-	-
Rapid wheelhead feed speed, per minute	1000 mm/min	1000 mm/min	1000 mm/min
Min. and max. table traverse feed speed, per minute	0-1650 mm/min (elettromeccanica)	0-1650 mm/min (elettromeccanica)	0-1650 mm/min (elettromeccanica)
MOTOR POWER			
Grinding and single-point cutting tool spindle	3,75 KW	3,75 KW	3,75 KW
Milling cutter spindle	0,25 KW	0,25 KW	0,25 KW
Rapid vertical wheelhead traverse	0,18 KW	0,18 KW	0,18 KW
Hydraulic system	-	-	-
Electric coolant pump	0,12 KW	-	0,15 KW

AZ spa | MACHINE TOOLS

SPECIFICATIONS >>>



	SM10G	SM10M	SM13
Dimensions without packing	2000x1190x2100 mm	2000x1190x2100 mm	2000x1300x2050 mm
Dimensions with packing	2100x1290x2200 mm	2100x1290x2200 mm	2100x1400x2150 mm
Weight	950 kg	950 kg	1130 kg
Weight with packing	1020 kg	1020 kg	1250 kg

DIMENSIONS AND WEIGHTS >>>

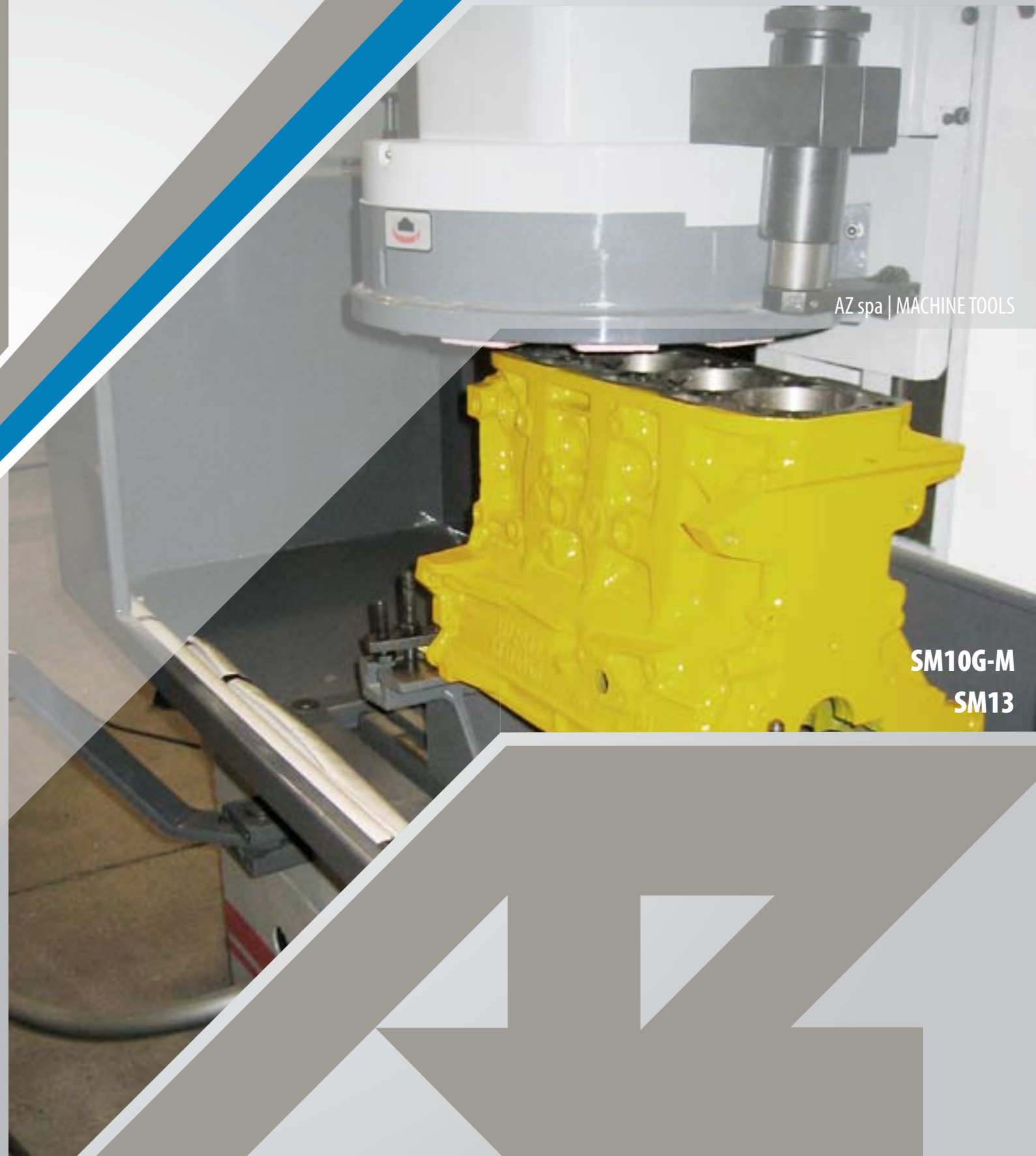


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Subject to change, as of JULY 2010

SM - SURFACE GRINDING AND MILLING MACHINES



AZ spa | MACHINE TOOLS

SM10G-M
SM13



**GREAT WORKING CAPABILITY
PRECISION AND ACCURACY
FAST AND EASY TO OPERATE**

Heavily constructed cast iron machines for automotive and industry
Top quality & productivity
Very advanced construction technology
Practical use & safe operation

SM10

The SM 10 machines are accurate and versatile surfacers for milling and grinding purposes for all cylinder heads and medium size engine blocks.
The automatic table alternating movement is due to a precise ball-screw system, that assures constant speed at any table feed.
The up&down movement is operated by handwheel or by electric motor



AZ spa | MACHINE TOOLS **SM/2**



AZ spa | MACHINE TOOLS **SM/3**

SM10G
SM10M
SM13



AZ698

AZ244

AZ700

AZ867

AZ390

AZ411

AZ849

EQUIPMENTS >>>



SM10G

- STANDARD**
Re-circulating ball screw drive on table
Electric controls 24V
Motorized lifting and downfall of the head
Toolholder with tool included
Micrometric control of downfeed
Pair of parallel supports 135x350 mm
Edge clamp (4 pieces) and Toe clamp (4 pieces)
Coolant unit
Grinding wheel extractor
Wheel dressing unit
Diamond dresser with diamond included
Service tools
Operating manual

- RECOMMENDED**
AZ698 Universal support for heads
OPTIONAL
AZ244 System conforming to CE standard (SM10)
AZ700 V-engine fixture
AZ867 CBN milling head assembly (with 2 CBN inserts for fast milling included)

SM10M

- STANDARD**
Electric controls 24V
Motorized raise and downfall of the head
Re-circulating ball screw drive on table
Holder to support dual CBN (complete with CBN inserts)
Micrometric control of downfeed wheelhead
Pair of parallel supports 135x350 mm
Extractor for CBN toolholder
Edge clamp (4 pieces) and Toe clamp (4 pieces)
Service tools
Operating manual

RECOMMENDED

- AZ698 Universal support for heads
OPTIONAL
AZ244 System conforming to CE standard (SM10)
AZ700 V-engine fixture
Diamond for micrometric diamond dresser

SM13

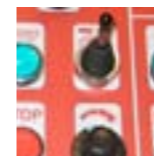
- STANDARD**
Electric system conforming to CE standards (24 V)
Quick up and down of grinding head
Coolant system
Grindwheel dresser with diamond included
Edge clamp (4 pieces)
Toe clamp (4 pieces)
Grinding wheel 350 mm. Dia.
Grindwheel hub puller
Set of No.8 grinding segments.
Toolholder with carbide tool
Pair of parallel supports 135x350 mm
Service tools
Operating manual

- RECOMMENDED**
AZ698 Universal support for heads
AZ390 Grinding coolant (5 liters)

- OPTIONAL**
AZ411 Diamond and rest 0,40 kt
AZ867 CBN milling head assembly (with 2 CBN inserts for fast milling included)
AZ700 V-engine fixture
AZ235 Safety guard kit including sliding doors conforming to CE standard
AZ849 Variable speed of grinding wheel



MAIN LUBRICATION SYSTEM PUMP



CONTROL PANEL 24 VOLTS



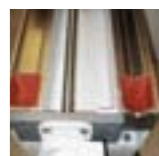
ELECTRIC BOX



MOTORIZED UP AND DOWN WITH MICROMETRIC DOWNFEED



WHEEL DIAMOND DRESSER



BALL-SCREW SYSTEM