

## **SM Surface Grinding and Milling machine**



## **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 costruction technology Pratical use & safe operation

## **SM10**

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



## **STANDARD EQUIPMENT**

## **SM10G Surface Grinding machine**

Re-circulating ball screw drive on table Motorized lifting and downfall of the head Toolholder with tool included Micrometric control of downfeed Coolant unit Grinding wheel extractor Wheel dressing unit Diamond dresser with diamond included

## **SM10M Surface Milling machine**

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 Extractor for CBN toolholder

#### **SM13**

Quick up and down of grinding head Coolant system Grindwheel dresser with diamond included Grinding wheel 350 mm. Dia. Grindwheel hub puller Set of No.8 grinding segments. Toolholder with carbide tool

#### SM10G/M - SM13

Electric controls 24V Pair of parallel supports 135x350 mm Edge clamp (4 pieces) and Toe clamp (4 pieces) Service tool and operating manual



Wheel dressing unit





















# **OPTIONAL EQUIPMENT**

#### **SM10G**

**AZ235** System conforming to CE standard (SM10) **AZ700** V-engine fixture **AZ867** CBN milling head assembly (with 2 CBN i nserts for fast milling included)









#### SM10M

**AZ244** System conforming to CE standard (SM10) **AZ700** V-engine fixture

## **SM13**

**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 confirming to CE standard

AZ849 Variable speed of grinding wheel



# **RECOMMENDED EQUIPMENT**

**AZ698** Universal support for heads **AZ390** Grinding coolant (5 liters) for SM13

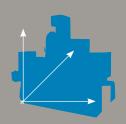




# SM - SURFACE GRINDING AND MILLING MACHINES

	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 (elettromec- canica)	0-1650 mm/min (elettromec- canica)	0-1650 mm/min (elettromec- canica)
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

# 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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iert to change as of MAY 2011 - B1