

# INDUCTION & PM MOTORS



  **MADE IN ITALY**

soga  energyteam

 **soga**<sup>®</sup>


## SOGA ENERGY TEAM at a glance

### PURE EUROPEAN MANUFACTURERS

SOGA ENERGY TEAM industrial group is an Italian player operating worldwide, **since 1966**.

The group develops and manufactures an **exhaustive range of rotating electrical machines and electronic systems, ALL MADE IN EUROPE** in Italy and Croatia, recognized in the market thanks to its 5 commercial brands.

Soga Energy Team co-operates with OEMs in the most different markets and applications by providing **standard** versions, **custom-made** executions, **new special projects** to create exclusive products.

soga  energyteam



# MOTORS, GENERATORS, CONTROLLERS, DRIVES IN STANDARD & SPECIAL EXECUTION



induction &  
permanent magnet motors



synchronous & asynchronous  
alternators



PTO  
generators



generators for  
special projects



controllers, brushless &  
stepless motors & drives



5 Brands

6 Production sites  
with LEAN system

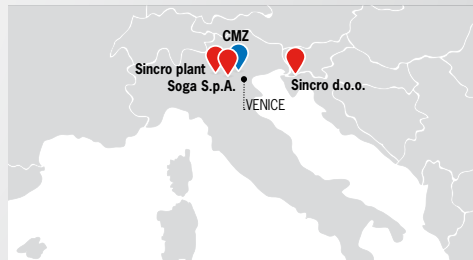
57 Years of expertise

90 We have customers  
in 90 countries

300 Collaborators

850 850 models up to  
2,6 MW/50Hz in our  
catalogues (alternators  
and motors).  
**One of the widest  
ranges in the world.**

250.000 Units as yearly  
production capacity

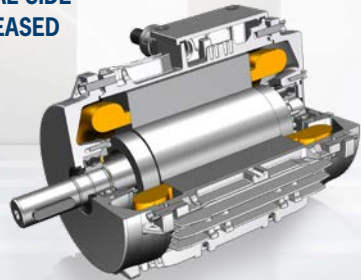


# MADE IN ITALY **ELECTRIC MOTORS.** SINCE 1966

## **350 MODELS ON CATALOGUES, UNLIMITED POSSIBILITIES**

**SOGA'S SKILL CONSISTS IN TAILORING ON-DEMAND ASYNCHRONOUS ELECTRIC MOTORS FOR THE RIGHT FIT. TAKING OUR STANDARD RANGE UP TO 37 KW AS BASIS, WE OPERATE ON ELECTRICAL AND MECHANICAL SIDE AND SHAPE EACH MODEL UPON YOUR REQUIREMENTS FOR UNRELEASED CONFIGURATIONS.**

**THIS IS THE WAY OF ITALIAN MANUFACTURING EXCELLENCE.**



### **IEC MOTORS**

- For industrial and general purpose applications
- 2, 4, 6, 8 poles, double poles or with centrifugal switch
- Dedicated versions for compressors and concrete mixers
- IP54, IP55



### **LOW CENTER MOTORS**

- For applications requiring space-saving (cutting, milling, drilling, grinding)
- Direct coupling to the blade, deeper cut
- Extreme compactness
- IP55, IP65



### **GEAR MOTORS**

- For applications requiring speed reduction
- Integrated gearbox
- Waterproof, Ultracompact, Noiseless
- IP56



### **HOLLOW SHAFT MOTORS**

- For pressure washer pumps
- Direct coupling to the pump
- Fast easy mounting
- IP54

## SPECIAL & CUSTOM MOTORS



ELECTRIC MOTORS  
FOR SPECIFIC NEEDS

### CUSTOM-DEDICATED

- Three or Single-phase, squirrel cage designed
- Versions: IEC (IE1 Standard Efficiency, IE2 High Efficiency, IE3 Premium Efficiency), low center, hollow shaft, with gearbox
- Customized executions starting from basic versions including over 350 models
- Made in Italy
- IP54

**UP TO 37 KW**



### SOME ELECTRICAL EXECUTIONS

- Windings (double impregnation, double speed rotation, encapsulation, insulation systems, double phase executions, tropicalization, voltages and frequencies for any market, VPI)
- Encoder

### SOME MECHANICAL EXECUTIONS

- Shafts (hollow shaft, ceramic coating, hardening, stainless steel and other special materials, splined shafts...)
- Housings (upon drawing or made in any material)
- Outcoming cables
- Special flanges
- Safety brakes
- Gearboxes

### STANDARDS AND REGULATIONS

- CSA/UL
- UL 1446 insulation system
- ECA
- Reach
- RoHS
- SASO
- ATEX (zone 22)

### TECHNICAL QUALIFICATIONS

- CP/CIM ESF/2009 – 3464 (SNCF high-speed rail)
- PSW 10399
- PSW 54 00636
- IMQ/CSV



# A FULL RANGE

## 1 | SINGLE-PHASE MOTORS

SOGA SpA has been developing and manufacturing single-phase electric motors since 1966.

This firm specialization is the basis of our know-how within rotating electrical machines and, over the years, it has allowed us to evolve by expanding into international markets, enhancing our range while gathering more and more modern and sophisticated technical and production skills.

Our single-phase motors, Made in Italy since always, keep being nowadays a production of excellence of the Soga Energy Team: a range of products and solutions in which we have never stopped investing and innovating.



MM1 - MMD1  
catalogue

## MAIN FEATURES

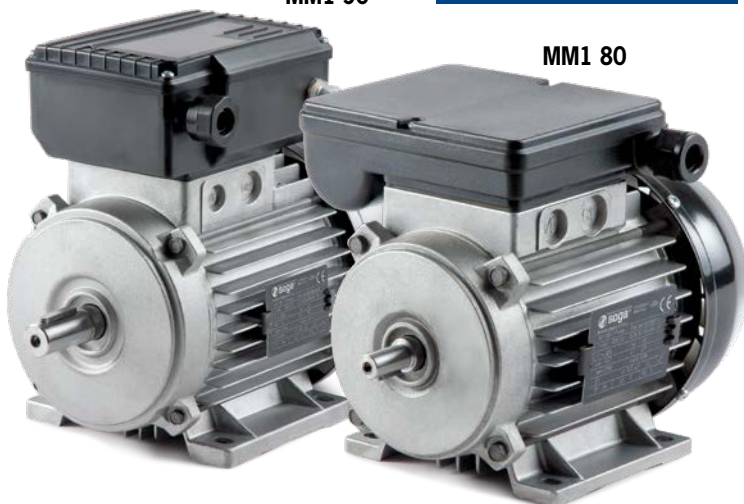
- 2, 4, 6 poles
- Dedicated versions for compressors and concrete mixers
- Special versions with centrifugal and electronic switch

## MODELS

MM1	up to 7,5 kW	1-phase
MMD1		
MME1		

MM1 90

MM1 80



**NEW 2023**  
**IE2 SINGLE-PHASE MOTORS**  
**HIGH EFFICIENCY**



IE3 catalogue

## THREE-PHASE INDUCTION MOTORS | 2

SOGA stands out for the design and production of **special and custom electric motors, dedicated to manufacturers with a specific need to solve.**

Focusing on premium efficiency motors, our latest IE3 series is developed under IEC 60034-30 regulation to strongly reduce energy expense in industrial sectors. Made in Italy production by SOGA matches with the choice for superior materials and components, for best performances.

### MODELS

**MT3** | up to 37 kW | 3-phase PREMIUM EFFICIENCY



**MT3-IEC132**

**TYPICAL APPLICATION** industry



# A FULL RANGE

## 3 | LOW CENTER INDUCTION MOTORS

**Low center asynchronous motors are used for their compact size in applications where space-saving is a key factor.**



MR catalogue

- Most common sectors: Cutting, Milling, Drilling, Grinding
- Intermittent duty type S6-40% or S6-60%
- Supplied with or without blade-holding disks.

### CUSTOMIZATIONS

- Feet (on MR65 series)
- Right thread with anticlockwise shaft rotation
- Special shafts and flanges
- Special voltages and frequencies
- Slowering-speed brake
- On/off switches, special switches
- UL/CSA insulation system.

### MODELS

<b>MR58, MR65</b> <b>MR71, MR80,</b> <b>MR93, MR107</b>	up to 18 kW (S6 duty)	1-phase
		3-phase



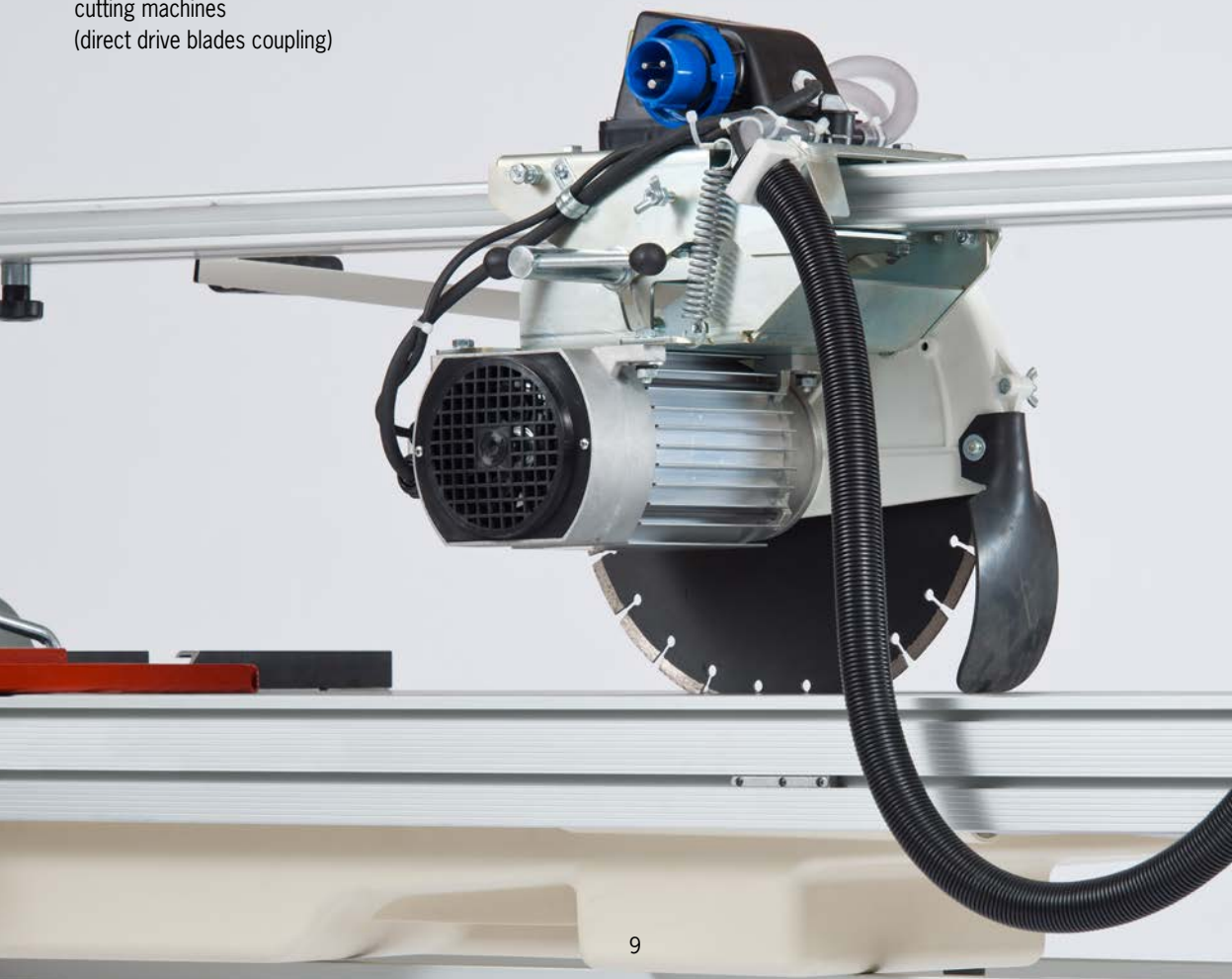
**MR107**

**MR65**



## TYPICAL APPLICATION

cutting machines  
(direct drive blades coupling)



## 4 | PMM PERMANENT MAGNET MOTORS

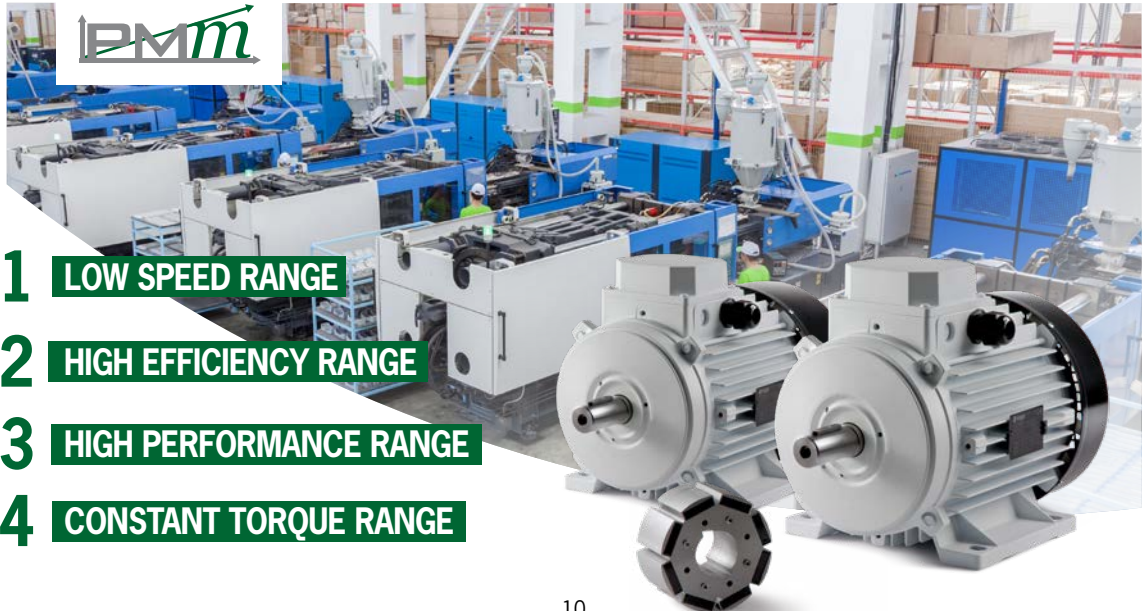
SOGA PMM range has been released in 2021.

The electric motors for the new market trends are multipolar, efficient, compact: the way to the future.



PMM catalogue

**PMM** are new-designed three-phase modular **synchronous permanent magnet motors** offering highest output and torque performances at variable speed. They can be supplied by the most of standard inverters available in the market commonly used with asynchronous motors, if suitable to drive also synchronous permanent magnet motors.



- 1 LOW SPEED RANGE
- 2 HIGH EFFICIENCY RANGE
- 3 HIGH PERFORMANCE RANGE
- 4 CONSTANT TORQUE RANGE

# 5 | PERMANENT MAGNET MOTORS FOR DIRECT DRIVE COOLING TOWERS FANS

Why **Evm** motors?  
**SIMPLICITY. DURABILITY.**  
**EFFICIENCY.**  
**NOISELESSNESS.**  
**CONTROL.**



EVM catalogue



## MODELS

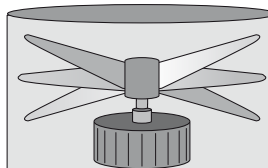
**EVm 225, EVm 315,  
EVm 400, EVm 560, EVm 710**  
up to 23.700 Nm

**EVm<sup>ct</sup>**

THE SMART FORMULA FOR COOLING TOWERS

### **EVm Direct Drive motor**

- Low maintenance
- Long life time
- High efficiency
- Very low vibrations and noise
- Easy assembling
- Control systems and Monitoring



**EV560**

# A FULL RANGE

## 6 | HOLLOW SHAFT MOTORS

HS hollow shaft motors are typically used for pumps supplying. In a very easy way and in just a few minutes, the hollow shaft coupling allows a direct mounting to the pump with no need to disassemble the motor front side.



HS catalogue

### MAIN FEATURES

- Single & Three-phase
- Direct drive coupling
- Easy and fast mounting

### MODELS

<b>HS90, HS100,</b>	up to	1-phase
<b>HS112, HS132</b>		
	11 kW	3-phase

HS90



## GEARED MOTORS | 7 FOR CAR-WASHERS



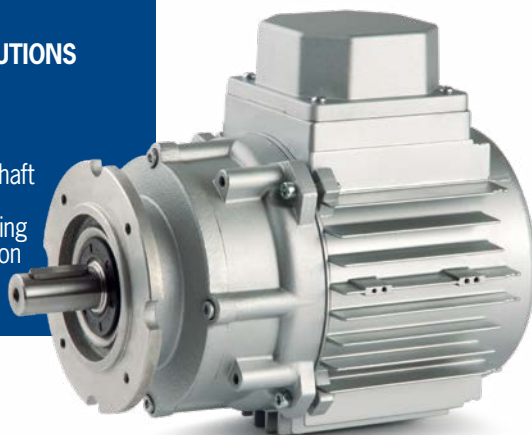
EPC catalogue

### MODELS

**EPC-CW80** | up to 0,55 kW (S3 duty)

#### SPECIAL EXECUTIONS

- Encapsulation of the windings
- Tropicalization
- Aisi 416 steel shaft
- Epoxy powder RAL 5010 painting
- UL/CSA insulation system



**EPC80**

SOGA also supplies solutions for car and wheel-washing systems: EPC-CW series.

Highly compact motors, supplied with integrated gearbox, waterproof and suitable against moisture and chemical substances as detergents.

The new EPC-CW 80, manufactured in Italy, are the latest extension of Soga historical range of electric motors. Thanks to the effective integration of motor and gearbox, as well as the high standard quality of components and workings, these motors are intended to become an absolute point of reference in the market.

### MAIN FEATURES

- Three-phase
- 4, 6 poles
- IP56 waterproof with no cooling
- Total absence of maintenance
- Noiselessness

**TYPICAL APPLICATION** car-washing



## A FULL RANGE

# 8 | ELECTRIC CONVERTERS FOR HIGH FREQUENCY CONCRETE VIBRATORS

Specifically intended for concrete compaction on-site and the prefabrication industry, we offer frequency and voltage rotating electric converters and generators for high frequency vibrators. Completely Made in Italy.

### MAIN FEATURES

- Motor + High frequency generator
- Output voltage 42V|200Hz
- Input voltage 230V|50Hz. On/Off switch
- Aluminium body + Protection carter
- Shock-resistant, Robust, Safe, Durable
- "Plug & Go" for immediate power supply
- IP44
- Custom executions available

### MODELS

<b>EC90-16</b>	1-phase
<b>EC90-32</b>	
<b>EC90-45</b>	3-phase







EC/MC catalogue

## MODELS

MC90-16  
MC90-32  
MC90-45

3-phase

# GENERATORS FOR HIGH FREQUENCY CONCRETE VIBRATORS | 9

## MAIN FEATURES

- High frequency generator
- Output voltage 42V/200Hz
- Aluminium body + Protection carter
- Shock-resistant, Robust, Safe, Durable
- Engine-driven (engine to be coupled)
  - IP44
- Custom executions available

MC90-16





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