

IKA

designed for scientists

EN



MAGNETIC INDUSTRY STIRRER | I-MAG

The I-MAG controller has a variety of digital and analog interfaces. Equipped in this way, the device can, for example, be controlled with a foot switch or operating button or can be integrated into a network via USB/LAN/WIFI.



Process-safe

In order to reliably achieve high speeds even under difficult conditions, I-MAG has an adjustable start-up speed that prevents the magnetic stirring bar from breaking off during the acceleration phase. It is also process-safe thanks to integrated detection of magnetic stirring bar coupling (needs to be calibrated). In the event of a tear-off or failure of the magnetic coupling, the user is informed via the modern display of the control unit. Incidentally, I-MAG can be controlled fully automatically with a laboratory software such as labworldsoft® 6.

Flexible base unit

With its 90 watt EC motor and the powerful magnetic coupling, I-MAG can stir up to 300 liters of water with the appropriate accessories and impresses with extremely stable and reproducible rotational speeds. The I-MAG base unit is perfectly complemented by the large number of useful accessories. The two set-up frames for different vessel sizes enable to extend the footprint and increase the maximum load. Additionally, there are new stirring drives (magnetic stirring bars) available, which are made of FDA-compliant materials. This makes I-MAG an ideal mixing device for applications in biotechnology, for example for the production of vaccines.

I-MAG can be used for mixing large volumes with low viscosity in production, as well as for mixing higher viscosity media on a pilot scale. Due to the compact design (60% smaller than Midi MR) and the wired control unit, the drive can be integrated very easily into processing systems.

Robust and strong

The drive unit consists of a powerful, wear-free motor and the magnetic coupling with high-performance neodymium magnets. Thus, it mixes particularly effectively - even liquids in double-walled containers or containers with insulated bottoms. Thanks to its closed stainless steel housing, the I-MAG drive unit has a very high IP protection class of 64, which means it can be used without restriction even under harsh conditions and is easy to clean.

Technical data

STIRRING

Speed range	100 - 1500 rpm
Speed deviation	± 10 rpm
Stirring volume (with SP 300)	300 l
Motor rating output	90 W
Direction of rotation	right / left
Self-heating of the set-up plate by max. stirring (RT: 22 °C / duration: 1 h)	+26 K
Stirring bar length	30 – 140 mm
Detection of decoupled stirring bar	yes
Adjustable soft start	yes

GENERAL DATA

Protection class according to DIN EN 60529 (drive/controller)	IP 64 / IP 22
Dimensions (W x H x D)	260 x 70 x 300 mm
Weight	8 kg
Voltage	100 - 240 V
Frequency	50/60 Hz
Timer	yes
Display	TFT
Start / stop with pedal	yes

INTERFACES

RS 232	yes
USB	yes
Ethernet / RJ45	yes
WIFI	yes
Analog input/output	yes



Scope of delivery

I-MAG Industry stirrer base unit
I-MAG controller
IKAFLON 90 slide magnetic stirring bar
USB connection cable (drive to controller)
Adapter for analog interface (3 pcs.)

I-MAG Industry stirrer

Ident. No. 0020014226

Accessories I-MAG Industry stirrer



IKAFLON 90 slide
Magnetic stirring bar
> for reduction of friction and better concentricity on uneven vessel bottoms

Ident. No. 0020102963



IKAFLON 118 float
Floating magnetic stirring drive
> for powerful stirring
> for wear-free mixing in large vessels

Ident. No. 0020100638



I-MAG SP 150
Stainless steel extension frame
> for barrels up to approx. 150 liters
> to extend the footprint and load capacity

Ident. No. 0020102994

Find more accessories on www.ika.com

More industry stirrers from IKA



Midi MR 1 digital
Stirring quantities of up to 50 liters
Ident. No. 0025002968

- › Flat, sturdy stainless steel casing
- › Non-locking motor
- › Infinitely variable speed



Maxi MR 1 digital
Stirring quantities of up to 150 liters
Ident. No. 0025002978

- › Digital LED speed display
- › Timer (0 – 56 min) or continuous operation
- › Integrated USB and RS 232 interface