

# magic LAB<sup>®</sup>



## Seamless Transition from Laboratory to Process High Shear Inline Mixer



**Module DISPAX-REACTOR<sup>®</sup> DR**  
> dispersing, emulsions and suspensions



**Module MK/MKO**  
> continuous wet milling or de-agglomeration



**Module MHD**  
> continuous mixing of solids and liquids



**Module CMS/CMX**  
> Rapid incorporation of solids into liquids



**magic LAB<sup>®</sup> with module UTL**  
dispersing, emulsions and suspensions



**magic LAB<sup>®</sup> with module CMS/CMX and accessories**  
> for powder/granule incorporation into liquids in recirculation mode



**magic LAB<sup>®</sup> with module Micro-Plant 1 l**  
> 1 Liter Vessel Circulation loop, nozzle, and 3-way ball cock which can be operated with modules UTL, DR, MK & MKO



**magic LAB<sup>®</sup> with module Micro-Plant 2 l**  
> with exchangeable modules (UTL/DR/MK/MKO)



**magic LAB<sup>®</sup> with module UTC**  
> converts basic unit to a batch disperser



designed  
to work perfectly

For more information visit  
our website at  
[www.ikausa.com](http://www.ikausa.com)  
or call us at 910-452-7059



**Unique Machine:**  
**IKA® magic LAB® for**  
**scale-up of technologies**  
**from laboratory to full**  
**production**

Multifunctional storage  
 and transportation box  
 as shown with 220 V

## magic LAB®

- > Designed for mixing, dispersing, wet milling and for the incorporation of powders into liquids
- > Ideal machine for continuous, circulating and batch processing with interchangeable modules
- > Ensures reliable scale-up from formulation development to mass production
- > Optimal results due to rotor tip speed up to 40 m/s
- > Simple heating or cooling of all modules
- > Easy and quick exchange of each module
- > Flexibility and ease of use: one machine suits many applications

### Technical data

|   |  |
|---|--|
| Motor power                                 | 900 W                                    |
| Speed range (40 m/s)                        | 3,000 – 26,000 rpm                       |
| Operating voltage                           | 220 – 240 V / 115 V                      |
| Frequency                                   | 50 – 60 Hz                               |
| Process pressure                            | up to 2.5 bar                            |
| Product temperature in continuous operation | up to 80 °C<br>up to 120 °C              |
| In short time operation (up to 18 min/h)    | stainl. steel (AISI 316L and AISI 316Ti) |
| Materials in contact with the medium        | PTFE-compound<br>Standard FPM            |
| Sealing material                            | optional EPDM (FDA), FFPM                |
| Shaft sealing ring                          | 170 x 270 x 215 mm                       |
| Elastomers in the working chamber           |  |
| Dimensions (W x D x H)                      |  |

Ident. No. U078310 (220-240 V)

Ident. No. 0020013560 (115 V)

## magic PLANT inline



The magic PLANT inline is equipped with the effective and versatile magic LAB. It is mounted to the magic PLANT vessel base and is available with seven mixing heads. The magic PLANT inline is suitable for homogenizing, emulsifying, wet milling and dispersing products from low to high viscosity.

## Applications



Cough Syrup



Cosmetic cream



Fruit juice



Paint



Toothpaste



Silicone



Medicines



Colour Paste



Salad Dressing/ Mustard



**designed**  
 to work perfectly

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