

EIRICH Laboratory Mixer Type EL5 *Eco*

for research, development
and production



Mixing



Granulating



Coating



Kneading



Dispersing

EIRICH Laboratory Mixer EL5 Eco

Flexible high-performance mixing system for challenging tasks in the fields of research, development and small-scale production

Process materials from dry to plastic and pasty can be processed.

Applications

The multi-functional mixing system can be used for many different applications, e.g. for mixing, granulating, coating, kneading, dispersing, dissolving, defibering and many more.

Industrial scale-up of test results is possible.

Feeding

Once the tools have been retracted, the raw materials and fluids are filled in from above through openings that can be sealed dust-tight.

Emptying

First of all, the mixing tools are manually moved out. Then the mixing pan can simply be taken off for emptying.

Drives / motors

Mixing pan: Pole-changing helical-worm geared motor with 2 speed steps

Mixing tool: Via the position of the V-belt on the multi-step pulley, it is possible to set one of the 3 speed levels. A selector switch allows to choose between 2 speeds per step. It is also possible to change the direction of rotation of the tool at any time by means of a switch.

Power connection: CEE three-phase plug 400V / 16A

Service and cleaning

All bearings are maintenance-free and greased for service life. All parts that come into contact with the process material are made of stainless steel as standard and are easy to clean.



Mixing principle using a production mixer as an example

Mixing system

The special EIRICH mixing system comprises just 3 components. The way in which these components are used can be varied in a particularly flexible fashion when designing the mixing processes.

1. The **rotating mixing pan**, which delivers the mixture into the area of the mixing tools.
2. **One mixing tool** arranged eccentrically. The direction of rotation and the speed of the mixing tool can be **optimally adapted** to the different applications.
3. The **bottom/wall scraper**, providing **additional agitation** action. It prevents cakings on the wall and bottom of the pan and **facilitates discharge** when the mixing cycle is complete.

The proven classic

Features of the basic equipment

- Mixing pan: INOX
- Mixing tool: Star-type rotor modular layout, made of stainless steel
- Control system: Eco Control – all functions can be operated safely and reliably by hand
- Process material temperature: 180°C max.

Additional options

- Mixing pan made of polyamide
- Support for mixer inclination of 0° for fluids or fluidizing materials
- Roller table with mixer tilt adjustment as a flexible base frame
- Instruction and training at the EIRICH Test Center in Hardheim

Mixing tool variants

- Pin-type rotor
- Micro-granulation rotor
- Various wear protection variants on request

Modular mixing tool layout

Star-type rotor



Pin-type rotor



Micro-granulation rotor

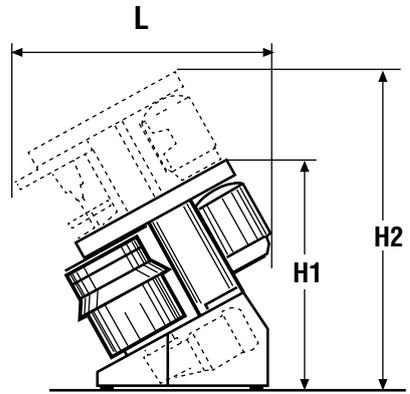
INOX mixing pan
Usable capacity 5 liters max.



Control system:
Eco Control

Technical data for your planning

Dimensions and weights			
Machine	H1/H2	mm	770/1,090
	L	mm	800
	Width	mm	510
	Weight	kg	100
Mixing pan	Diameter	mm	235
	Capacity*	Liters	3-5 max. 8
Performance data			
Mixing pan	Drive (pole-changing with two speeds)	kW	0.55 / 0.88
Mixing tool	Drive (pole-changing with two speeds)	kW	1.4 / 1.8
	Circumferential speed (6-stage)	m/s	6-35



*depending on the product



*EIRICH Laboratory Mixer EL5 Eco:
Compact design – flexible applications*

*EIRICH Laboratory Mixer EL5 Eco:
Easy to use*