

MASTER PLANT (MP)

For pharmaceutical application [FDA standard]

- Available from 10 to 4,000L capacity (Customisation on request)

Applications

Food:

Sauces
Mayonnaise
Cheese spread
Jams

Cosmetics:

Creams
Sun protection products
Shampoo
Toothpaste

Pharmacy:

Ointments
Gels
Serum
Vaccines

Beverage:

Fruit juices
Vegetable juices
Milk shakes
Flavors

Chemical industry:

Wax emulsions
Polymer emulsions
Titanium dioxide suspensions
Catalyst suspensions

Advantages of IKA® Master Plant (MP)

- The vessel is jacketed for heating and cooling.
- The spiral agitator can be heated or cooled reducing heating/cooling times by up to 50%.
- Alternatively, the spiral agitator can be replaced by a counter-rotating stirrer with coolable turbine for viscous product and more intense mixing.
- Incorporation of liquid and powder is possible without vacuum. This avoids the incorporation of air directly into the product.
- Can handle materials of viscosity of up to 100,000 mPas without using an additional pump.
- Dispersing and pumping operations are separated from each other, which allows solids incorporation without over-shearing of the product and makes possible discharge of product without shearing if required.
- Latest process technology with patented DBI as multifunctional machine for pumping, suction, mixing, dispersion and CIP & SIP.
- Small compact design (less space required) and low maintenance.
- All parts are made of stainless steel.
- The vessel's bottom is conical instead of dished making discharge easy.
- Quantities as low as 15% of the maximum volume can be processed.



Spiral agitator



Counter rotating agitator



MP 10 MP 25 MP 50 MP 100 MP 200 MP 500 MP 1000 MP 2000 MP 4000

STANDARD PRODUCTION PLANT (SPP)

For all basic operations requiring mixing & dispersing technology

- Available from 25 to 4,000L capacity

Advantages of IKA® Standard Production Plant (SPP)

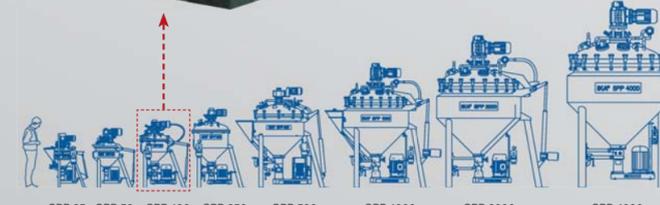
- Cost effective version or alternative to Master Plant.
- Highly customizable, allowing for very simple to sophisticated configuration.
- Retains all essential feature of Master Plant at economical price.

Applications

Food & beverages
Cosmetics
Chemicals
Pharmaceuticals
Colours, lacquers & dyestuffs



Dosing funnels



SPP 25 SPP 50 SPP 100 SPP 250 SPP 500 SPP 1000 SPP 2000 SPP 4000

Dosing funnels as optional selection

- Separate feeding of solid or liquid additives directly into the dispersing chamber.
- Additives incorporated without applying vacuum in the vessel.
- No floating of powders or difficulties in wetting.

Ready to assist you...

For further assistance or enquiry regarding magicLAB®, LABOR-PILOT, PROCESS-PILOT and other IKA® Process Technology product range, suitability of application purposes, customised solutions for your needs, trial applications, repair and servicing, please contact IKA® from the details listed below:

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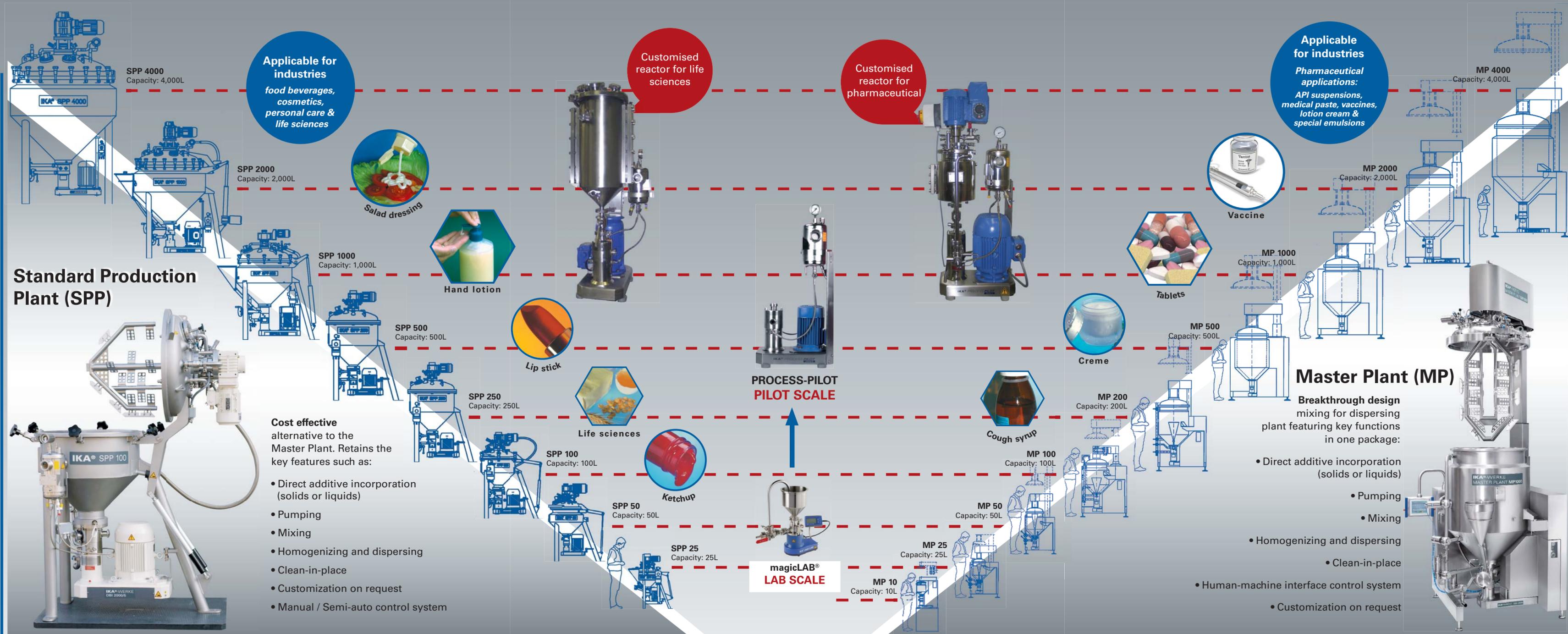
STANDARD PRODUCTION PLANT & MASTER PLANT



WORLD- FIRST!

IKA®

SCALING UP METHOD FROM R&D AND LABORATORY-BASED FORMULATION TO INDUSTRIAL SCALE MANUFACTURING



Applicable for industries
food beverages, cosmetics, personal care & life sciences

Customised reactor for life sciences

Customised reactor for pharmaceutical

Applicable for industries
Pharmaceutical applications: API suspensions, medical paste, vaccines, lotion cream & special emulsions

Standard Production Plant (SPP)

Master Plant (MP)

Cost effective alternative to the Master Plant. Retains the key features such as:

- Direct additive incorporation (solids or liquids)
- Pumping
- Mixing
- Homogenizing and dispersing
- Clean-in-place
- Customization on request
- Manual / Semi-auto control system

- Breakthrough design** mixing for dispersing plant featuring key functions in one package:
- Direct additive incorporation (solids or liquids)
 - Pumping
 - Mixing
 - Homogenizing and dispersing
 - Clean-in-place
 - Human-machine interface control system
 - Customization on request

PROCESS-PILOT PILOT SCALE

magicLAB® LAB SCALE

SPP 4000
Capacity: 4,000L

SPP 2000
Capacity: 2,000L

SPP 1000
Capacity: 1,000L

SPP 500
Capacity: 500L

SPP 250
Capacity: 250L

SPP 100
Capacity: 100L

SPP 50
Capacity: 50L

SPP 25
Capacity: 25L

MP 25
Capacity: 25L

MP 50
Capacity: 50L

MP 100
Capacity: 100L

MP 200
Capacity: 200L

MP 500
Capacity: 500L

MP 1000
Capacity: 1,000L

MP 2000
Capacity: 2,000L

MP 4000
Capacity: 4,000L



Salad dressing



Hand lotion



Lip stick



Life sciences



Ketchup



Cough syrup



Crema



Tablets



Vaccine