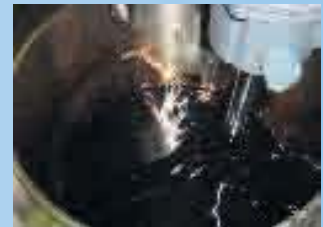


**Your first choice for the flexible and fast  
production of high-quality bitumen emulsions  
in the laboratory range of equipment**



**The perfected action of the IKA® MK 2000 colloid mills allows the production of homogeneous bitumen emulsions with the best characteristics for your application.**

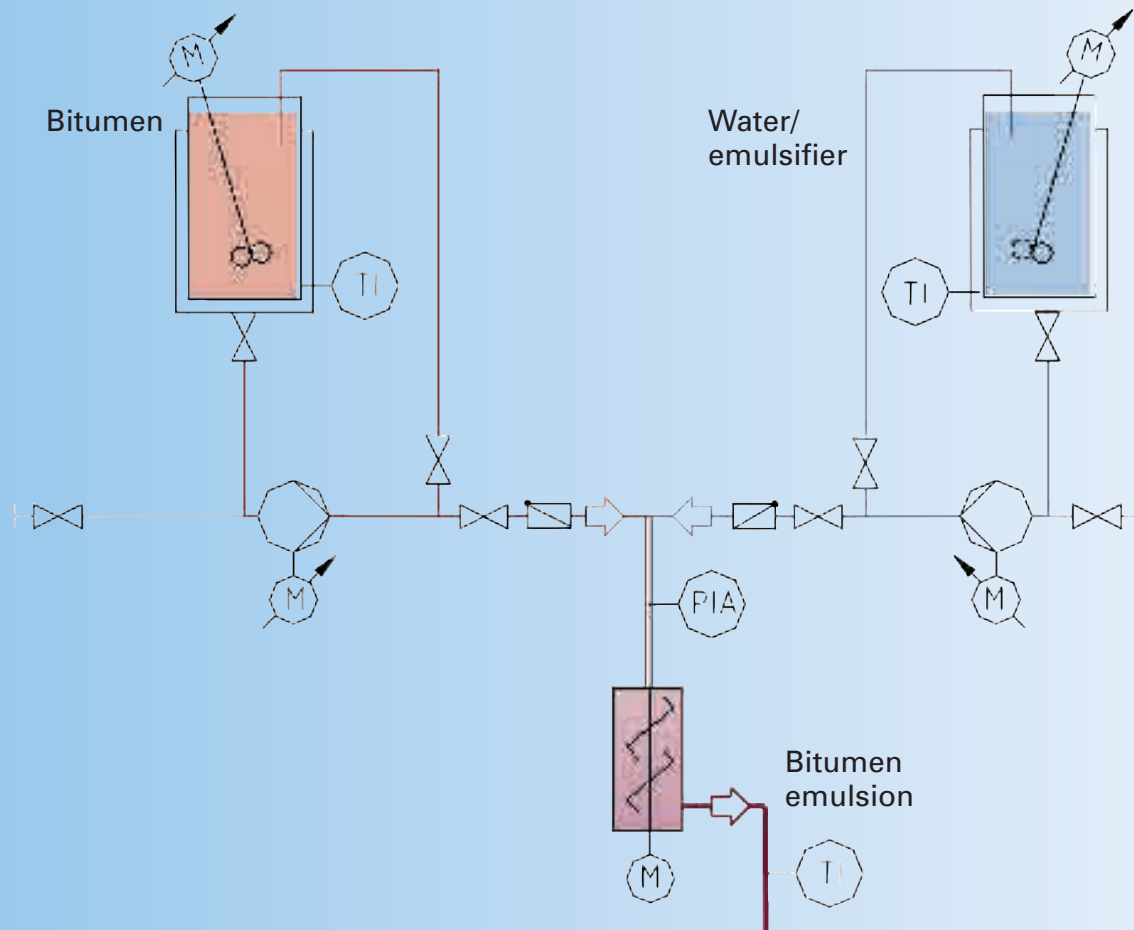


**to suit your product range**

- Road construction
- Roofing and sealing paper
- Building protection
- Hydraulic engineering
- Insulations
- Insulating materials
- Colours/lacquers
- Joint fillers

## Five good reasons to use the IKA® bitumen emulsifying plant in your laboratory:

1. The innovative dispersing technology of the IKA® MK 2000 colloid mills enables the development of bitumen emulsions of extremely high quality with droplet diameters of less than 10 µm (d50-value) and a narrow droplet size distribution.
2. The speed of the colloid mill can be controlled for optimum adjustment of droplet size distribution, thus the properties of the bitumen are easily controlled to suit your requirements.
3. Before emulsification polymers can be mixed into the bitumen with the IKA® ULTRA-TURRAX® T50. Thus emulsions from polymer-modified bitumen can be produced.
4. By fine temperature control the bitumen can be heated separately from the water. This increases the energy efficiency, and enables you to adjust your working parameters for the best results.
5. For the emulsification of bitumina of higher viscosities or modified bitumina a version of the plant is also available for emulsifying under pressure.



## Production of bitumen emulsions in R&D-departments

Our smallest bitumen emulsifying plant EPB 200 produces 200 l/h bitumen emulsions. This is the perfect plant size for all R&D departments who require to develop emulsions with special mechanical properties.

Polymers can be mixed into the bitumen with the IKA® ULTRA-TURRAX® T50, to produce polymer modified bitumen emulsions. The bitumen vessel has a capacity of 15 l.

The water vessel also has a capacity of 15 l. Should it be required to add an emulsifier to the water, the plant can optionally be equipped with an IKA® RW 28 stirrer, guaranteeing an optimum mixture of water and emulsifier in the water vessel.

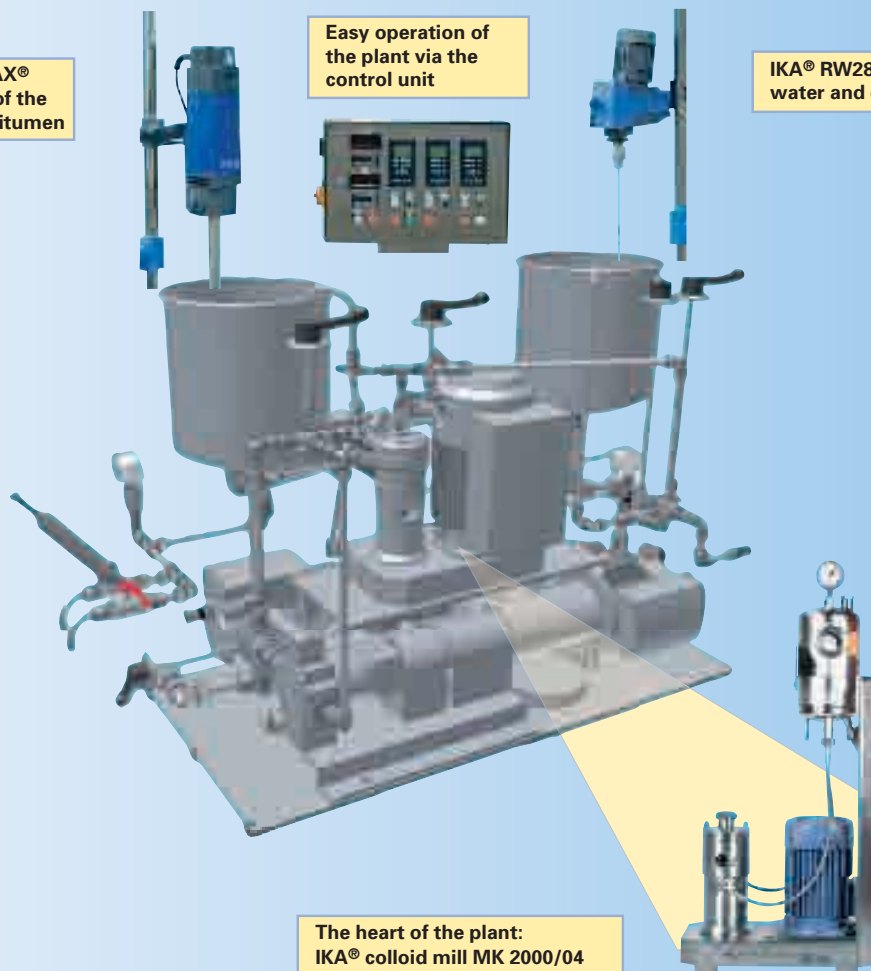
By fine temperature control, the bitumen can be heated to 190°C before dispersing, while the water-emulsifier mixture is heated to 40°C. This separate temperature control enables the production of bitumen emulsions with optimum process characteristics.

All plant components are housed in an easy to clean stainless steel housing, affording protection from pollution. The front and rear casings of the housing can easily be removed for maintenance work. The complete plant is controlled from a well laid out electric control unit that is mounted at a comfortable working height.

IKA® ULTRA-TURRAX®  
T50 for pre-mixing of the  
polymer modified bitumen

Easy operation of  
the plant via the  
control unit

IKA® RW28 for pre-mixing of  
water and emulsifier



The heart of the plant:  
IKA® colloid mill MK 2000/04

## Application

After the development of suitable formulations with the R&D bitumen emulsifying plant in your R&D department, scale up to full production of your new bitumen emulsion is the next step.

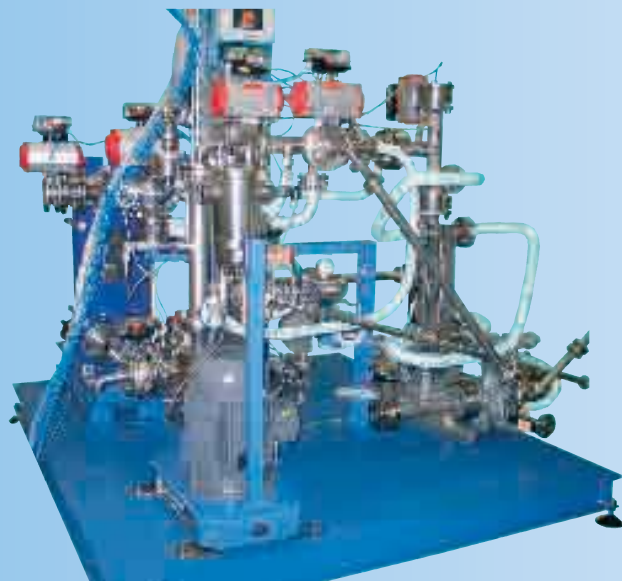
IKA® can assist with this part of the process.

Our production plants produce up to 40 t/h of bitumen emulsions.

The heart of each bitumen emulsifying plant is the IKA® MK 2000 colloid mill, guaranteeing an optimum dispersion and scale up from the R&D unit.

Our plants are available  
in following sizes:  
(further sizes on request)

Plant	with colloid mill	total capacity l/h
EPB 200	MK 2000/04	up to 200
EPB 2500	MK 2000/05	up to 2.500
EPB 7500	MK 2000/10	up to 7.500
EPB 20000	MK 2000/20	up to 20.000
EPB 40000	MK 2000/30	up to 40.000



IKA® EPB 2500 production plant

## IKA®

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IKA® R&D bitumen emulsifying plant EPB 200  
used in a pilot plant