



MIXING GROUP

A large, blurred image of a metallic mixer blade, likely made of stainless steel, is shown in motion. The blade is curved and has a polished surface. The background is a dynamic, blurred blue and white, suggesting a high-speed environment.

**UMIX –
UNIVERSAL MIXERS FOR
PRODUCTION AND LABORATORY**

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Historically Universal Mixers have proven to be reliable machines for the mixing and kneading of low- to high-viscosity products in many industries. Their working principle is based on two tangential counterrotating blades creating shear within the treated product in combination with the wall of the trough. Variation of the revs per minute, friction and position of the blades results in extremely effective mixing and kneading of the material. The versatility of the machine enables simultaneous processes within a mixing cycle like moistening, plasticising, dispersing, homogenising, melting, cooling, degassing, evaporation, dissolving and reacting.

FEATURES:

- Two product lines for production and lab
- Product extraction by tilting, discharge screw or bottom valve – to be chosen*
- Multiple machine sizes from 0.25 to 4,300 l net volume
- Process control with temperature-adjustable troughs and blades*
- Blade geometry, material selection and drive design adapted to customer-specific process requirements*
- Profile extrusion via nozzle and pelletising possible for discharge screw versions*

* depending on version and/or size

TYPICAL PRODUCTS:

- Rubber solutions
- Putties
- Ceramic and catalytic converter compounds
- Activated carbon
- Carbon electrodes
- Hot-melt and other adhesive types
- Insulating compounds
- Sealants
- Printing inks
- Silicone rubber
- Pharmaceutical compounds
- Chocolate
- Chewing gum
- Chemical masterbatches



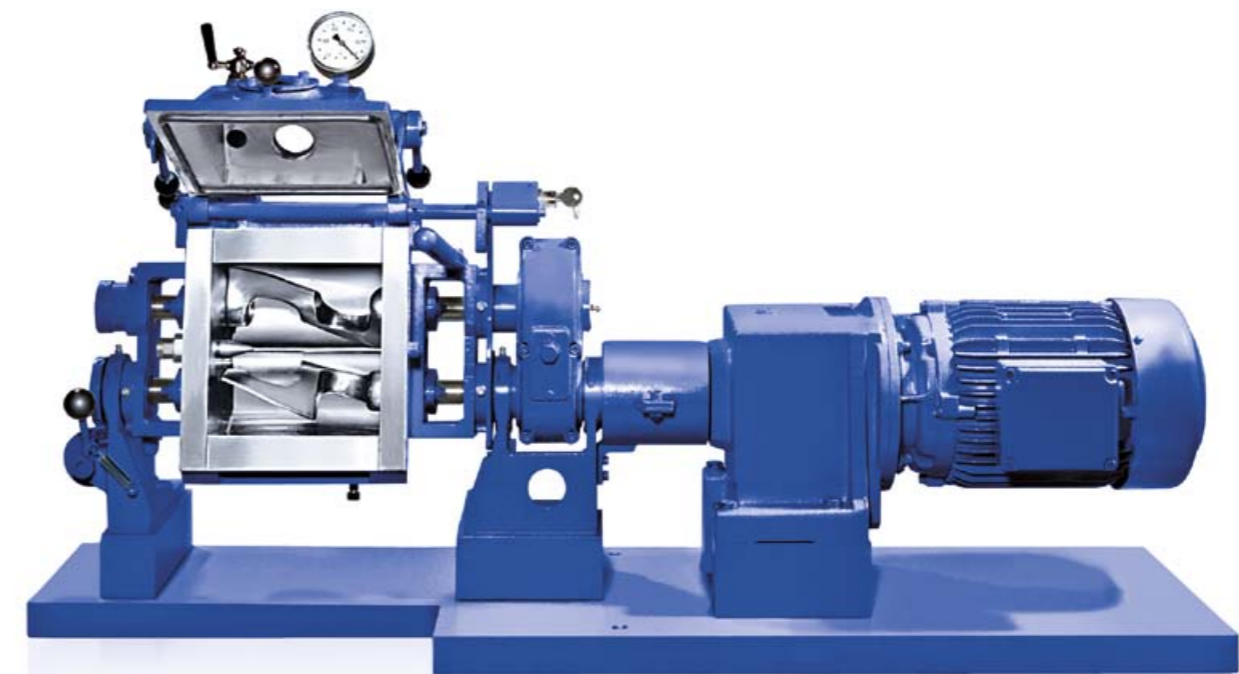
Tiltable production mixer

UMIX – Size and available corresponding extraction technology

Usable volume [l]	Total volume [l]	Removable trough	Tiltable trough	Discharge screw	Bottom discharge
0.25	0.40	■	–	–	–
0.75	1.10	■	–	–	–
1	1.50	–	■	–	–
2.50	3.75	–	■	■	–
5	7.50	–	■	–	–
8	12	–	■	–	–
20	30	–	■	–	–
40	60	–	■	–	–
80	120	–	■	■	–
200	260/300**	–	■	■	–
450	570*/675**	–	■	■	–
680	850*/1,020**	–	■	■	■
900	1,120*/1,350**	–	■	■	■
1,500	1,900*/2,250**	–	■	■	■
2,000	2,600*/3,000**	–	■	■	■
3,000	3,800*/4,500**	–	■	■	■
4,300	6,450	–	–	■	■

* Tiltable version

** Versions with bottom extraction or discharge screw



Laboratory mixer

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