

**Dosing with the best...**



...technologies from market leaders

**Products** | Solution preparation systems | Dosing stations  
Post-dilution units | Dry material feeders | Agitators



## Dosing with the best... ... technologies from market leaders

combined with the know-how and the motivation of our employees – this is the principle of our corporate philosophy.

In addition to the assignment of first-class products our capable team plays a central role in our business. Each team member does not only show high commitment and know-how, but has also the right helping of ambition to run projects successfully and to offer appropriate solutions.



### Products

Preparation systems  
Dosing stations  
Post-dilution units  
Dry material feeders  
Agitators

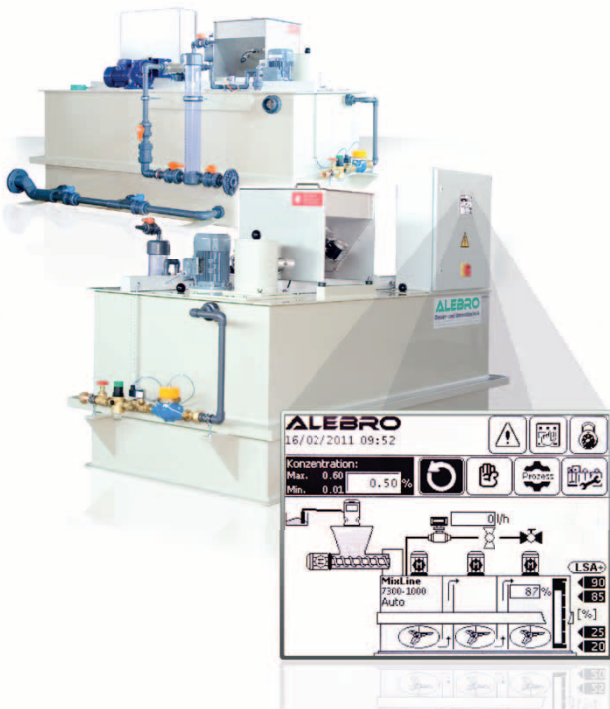
### Services

Project management  
Automation  
Production  
Commissioning  
After Sales Service

### Application areas

Water treatment  
Wastewater treatment  
Process water treatm.  
Sludge dewatering  
Biogas production

# Solution preparation system MixLine 7300



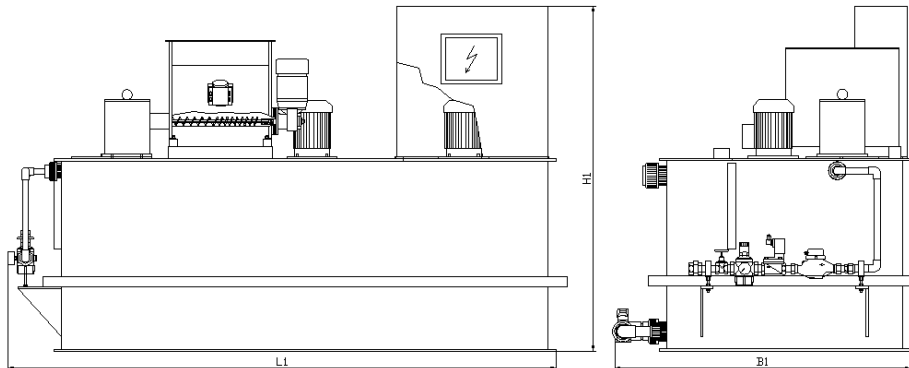
The compact stations MixLine 7300 prepare working solutions from liquid and dry, organic and inorganic chemicals **needing maturing time**.

This happens

- full-automatically
- in a continuous or discontinuous process
- acc. to the “three-chamber stream principle”

## Main components

- 3-chamber tank
- Dry material feeder / concentrate pump
- Agitator in each chamber (in 3rd chamber optionally)
- Non-contact continuously measuring ultrasonic level sensor
- Water unit with sprinkling system
- Control panel with a multi-lingual touch screen display
- Siemens Simatic S7 control



MixLine 7300-	0500	1000	2000	4000	6000	8000	10000
Capacity at maturing time of 60 min (l/h)	500	1000	2000	4000	6000	8000	10000
Capacity at maturing time of 30 min (l/h)	1000	2000	4000	8000	12000	16000	20000
Power supply (kW)	1,0	2,65	2,65	3,5	5,5	6,3	6,3
Concentration of solution (%)	0,01 - 1						
Max. allowable viscosity	2500 mPas (on request up to 5000 mPas)						
Materials contacted with media	Polypropylene, PVC, stainless steel, brass						
L1 (mm)	1750	2200	2200	3200	3250	4300	4350
B1 (mm)	1200	1200	1200	1460	2200	2200	2550
H1 (mm)	1200	1370	1940	2250	2250	2250	2250
Weight empty (kg)	195	225	295	615	895	965	1250
Operating weight (kg)	695	1225	2295	4650	6950	9050	11400

# Solution preparation system MixLine 7200

The 2-chamber systems MixLine 7200 are full-automatically, continuously or discontinuously operated solution preparation stations.

They are used for the production of liquid **polyelectrolyte and salt solutions** from solid and liquid substances - depending on media **with or without maturing time**.

MixLine 7200-	100D	250D	0500P	1000P	2000P	4000P	6000P
Capacity at maturing time of 60 min (l/h)	50-100	150-300	500	1000	2000	4000	6000
Power supply (kW)	1,0	1,0	2,85	2,85	3,0	4,0	5,0
Concentration of solution (%)	0,01-10	0,01-10	0,01-1	0,01-1	0,01-1	0,01-1	0,01-1
Max. allowable viscosity	2500 mPas (on request up to 5000 mPas)						
Materials contacted with media	Polypropylene, PVC, stainless steel, brass						
L1 (mm)	1200	1300	2200	2300	3100	4400	4350
B1 (mm)	1000	1200	1600	1600	1600	2500	2850
H1 (mm)	1300	1910	1400	1970	2175	2175	2630
Weight empty (kg)	130	190	225	295	630	1020	1370
Operating weight (kg)	340	795	1225	2300	4700	9100	13450

\***D** - Double-deck system (tandem preparation principle)    \***P** - 2-Chamber Batch System (batch principle)

## Main components

- Two-chamber tank
- Dry material feeder / concentrate pump
- Agitator in the dissolving and maturing chamber
- Non-contact continuously measuring ultrasonic level sensor
- Water unit with sprinkling system
- Control panel with a multi-lingual touch screen display
- Siemens Simatic S7 control

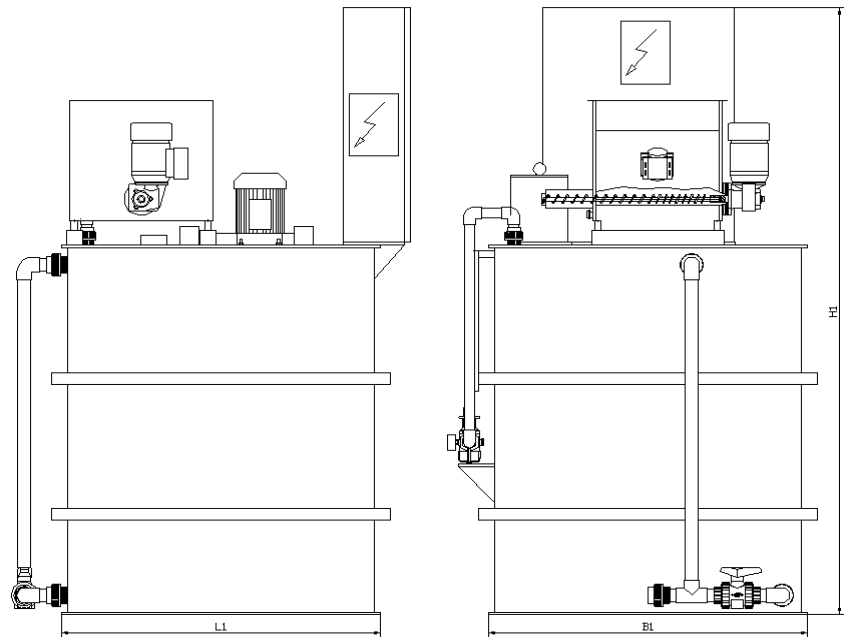


# Solution preparation system 7100

The full-automatically or manually, continuously or discontinuously working one-chamber stations are suited to be used for preparation of chemical solutions **not needing maturing time.**

## Suitable substances

- Aluminium sulphate
- Lime
- Urea
- Iron (II) chloride
- Iron (III) chloride
- Activated carbon and others



## Main components

- Tank
- Dry material feeder / concentrate pump
- Agitator
- Non-contact continuously measuring ultrasonic level sensor
- Water unit with sprinkling system
- Control panel with a multi-lingual touch screen display
- Siemens Simatic S7 control

MixLine 7100-	500	1000	2000	4000
Preparation capacity (l/h)	1250	2500	5000	10000
Power supply (kW)	0,75	1,0	2,5	3,0
Concentration of solution (%)	1-10% (30%), dependent on dry material			
Max. allowable viscosity	2500 mPas (on request up to 5000 mPas)			
Materials contacted with media	polypropylene, PVC, stainless steel, brass			
L1 (mm)	1250	1250	2240	2240
B1 (mm)	1250	1250	1250	2250
H1 (mm)	1365	1810	1970	1970
Weight empty (kg)	190	245	295	605
Operating weight (kg)	690	1245	2295	4605

# Dosing systems

The characteristic features of ALEBRO dosing systems are easy handling, exact and reliable dosing as well as robust construction.

True to our motto "Dosing with the best..." we install only fail-safe components from market leaders:

- **Diaphragm dosing pumps**  
Grundfos, ProMinent
- **Eccentric screw pumps**  
SEEPEX, Netzsch
- **Measurement and control technology**  
Endress+Hauser, Krohne, ASV Stübbe, Armaturenbau, HACH LANGE
- **Plastic pipework and fittings**  
Georg Fischer, Akatherm FIP
- **Control system**  
PLC, PID controller und frequency converter from Siemens; multi-lingual touch screen display from Siemens or Proface

Dosing systems based on **eccentric screw pumps** convey and dose viscous substances, those based on **diaphragm dosing pumps** aggressive and non-aggressive liquid chemicals.

All units are

- completely assembled
- piped
- ready for use

and are able to be

- operated manually or full-automatically
- delivered without a storage tank - **Type DS**
- or with a storage tank - **Type DSM**.

Depending on customer requirements different **dosing capacities, pressures and constructions** can be realized.



*Polyelectrolyte-dosing system*



*Sodium hypochlorite dosing station*



*Dosing station for iron (III) chloride*



*Dosing system installed in cabinet*

## Post-dilution units

Stock solutions can be easily post-diluted by these compact stations with integrated flow meter control. The required mixing is achieved before the stock solution is added into the medium to be treated.

A distinction is drawn between the standard unit **MX7** and the custom-built dosing and post-dilution system **DS7**. The latter has an **integrated collector** distributing the solution in different dosing pipes after post-dilution.

- Dilution water flow rate: 400 - 50.000 l/h



### Details standard unit MX7

Water flow rate: 2.500 - 20.000 l/h  
Rota meter with flow controller  
Solenoid valve: 24 VDC

## Dry material feeder MX 79XX



Standard design: stainless steel (**MX 7900**)  
In case of dosage of aggressive substances: hopper and dosing worm made of plastic (**MX 7950**).

The dry material feeder MX 79XX allows dosing dry and free-flowing granulates.

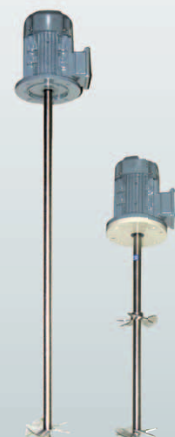
- Dosing capacity: 9 - 800 kg/h (depending on dry material)

### Main components

- Hopper with 40 l capacity
- Heatable dosing pipe
- Capacitive dry material level sensor
- Gear motor: 230/400V, 50Hz, IP55/F
- Optional: external vibrator

## Agitators

Agitator	High speed RW	Low speed RWG
Property of applicable media	watery	viscous
Speed (rpm)	750 - 1500	30 - 300
Motor power (kW)	0,12 - 5,5	as required
Material of shaft and propeller	1.4571, PPH, PVC, PVDF	
Length of shaft (mm)	300 - 2000	300 - 5000
Option	gasket in V4A, PPH, PVC, PVDF	





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