

POLYLINE



The simple water treatment solution

POLYLINE – THE SIMPLE AND EFFICIENT WATER TREATMENT SOLUTION

Polymer solutions are used everywhere where sedimentation or flotation of suspended solids in water is to be accelerated and the dewatering behaviour of thickened sludge improved, such as in wastewater treatment, paper manufacture, drinking water treatment, and sewage sludge dewatering.

PolyLine® from **sera** is a series of simple and flexible, economical and powerful systems for preparing polymers. The series covers preparation systems that can be used with dry or liquid polymers.

The systems are equipped with a precise flow measurement for solution preparation and filling level measurement, to ensure the efficient and economical operation of the systems.

SAMPLE APPLICATIONS

- Sludge dewatering / conditioning
- Wastewater treatment
- Paper manufacturing
- Drinking water treatment
- Chemical industry
- Process water treatment
- Power stations
- Shipbuilding

FEATURES

- Client and application-specific, modular polymer preparation systems
- High-grade PP tanks
- Versatile use with powdery or liquid polymer, or powdery/liquid composite polymer
- High process efficiency due to a virtually complete solution of newly prepared polymer
- The solution concentration is accurately adhered to, as the dry material feeder and the liquid concentrate pump can be calibrated in a reproducible manner
- Low-maintenance filling level measurement due to a continuous, contactless ultrasound sensor
- Very easy to use thanks to its compact PLC and built-in process visualisation and touchscreen
- Modular design based on an intelligent modular system
- Can be optionally customised and expanded with products from the **sera** range

SYSTEM CONCEPTS

PolyLine Flow

In the 3-chamber system, the polymer is dissolved with water in the first chamber. The product matures in the second chamber. The finished solution reaches the third chamber via the overflow, where removal takes place. Product entrainment is minimised by a process that is optimally tailored to the task.



PolyLine Swing

The pendulum system tank consists of two separate chambers. The polymer solution is prepared successively in the chambers. After a defined maturing time, the polymer solution is available for extraction. Product entrainment is excluded.



PolyLine Double

In the double-deck variant, the chambers are arranged one on top of the other. The polymer is prepared in the upper chamber. After the maturing time is complete, the fully matured product is drained into the lower chamber. Product entrainment is prevented through the process.



MODEL DEFINITIONS

PolyLine ... S

S = solid
for use with powdery polymer

PolyLine Flow S



PolyLine ... L

L = liquid
for use with liquid polymer

PolyLine Flow L



PolyLine ... SL

SL = solid/liquid
for use with powdery and
liquid polymer

PolyLine Flow SL



MODEL DEFINITIONS

PolyLine Swing S



PolyLine Double S



PolyLine Swing L



PolyLine Double L



PolyLine Swing SL



PolyLine Double SL



TECHNICAL DATA

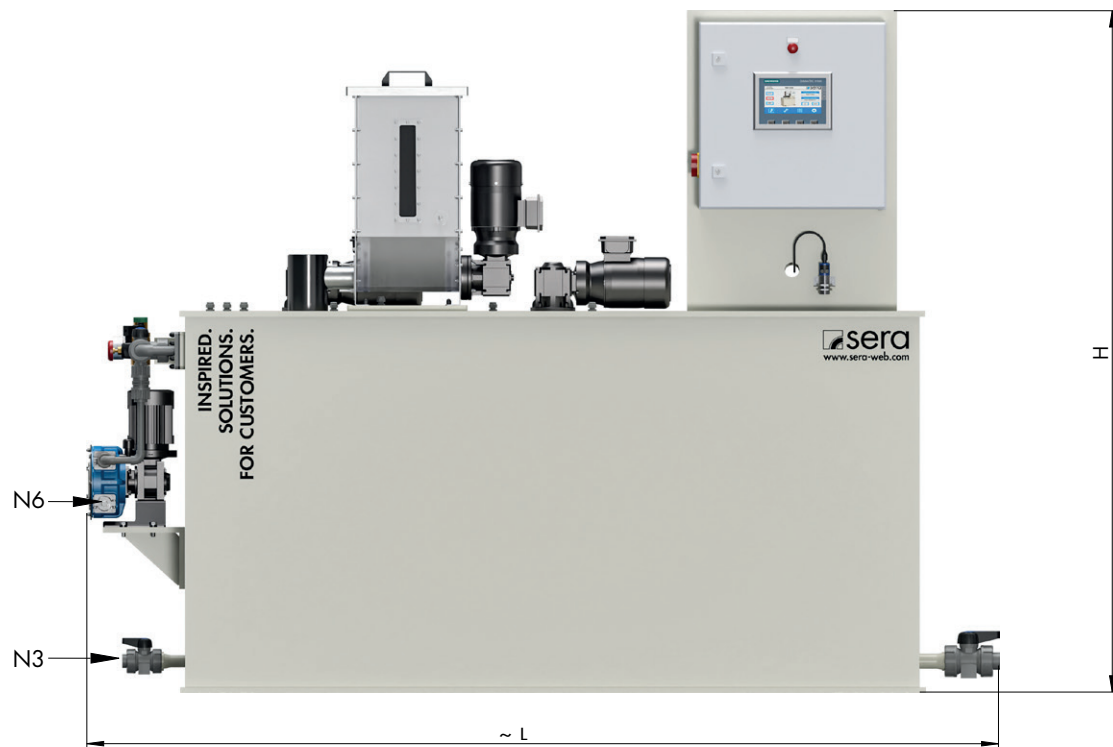
UNIT DATA		PolyLine Flow 500	PolyLine Flow 1000	PolyLine Flow 2000	PolyLine Flow 4000	PolyLine Flow 8000	
Preparation capacity (at 45 min. maturing time)	l/h	500	1.000	2.000	4.000	8.000	
Weight (empty)	kg	S	250	270	300	380	470
		L	230	240	280	360	450
		SL	270	290	340	410	520

UNIT DATA		PolyLine Swing 500	PolyLine Swing 1000	PolyLine Swing 2000	PolyLine Swing 4000	
Preparation capacity (at 30 min. maturing time)	l/h	500	1.000	2.000	4.000	
Weight (empty)	kg	S	240	240	280	460
		L	230	230	260	440
		SL	260	260	295	480

UNIT DATA		PolyLine Double 500	PolyLine Double 1000	PolyLine Double 2000	
Preparation capacity (at 45 min. maturing time)	l/h	500	1.000	2.000	
Weight (empty)	kg	S	200	240	325
		L	160	200	285
		SL	210	250	335

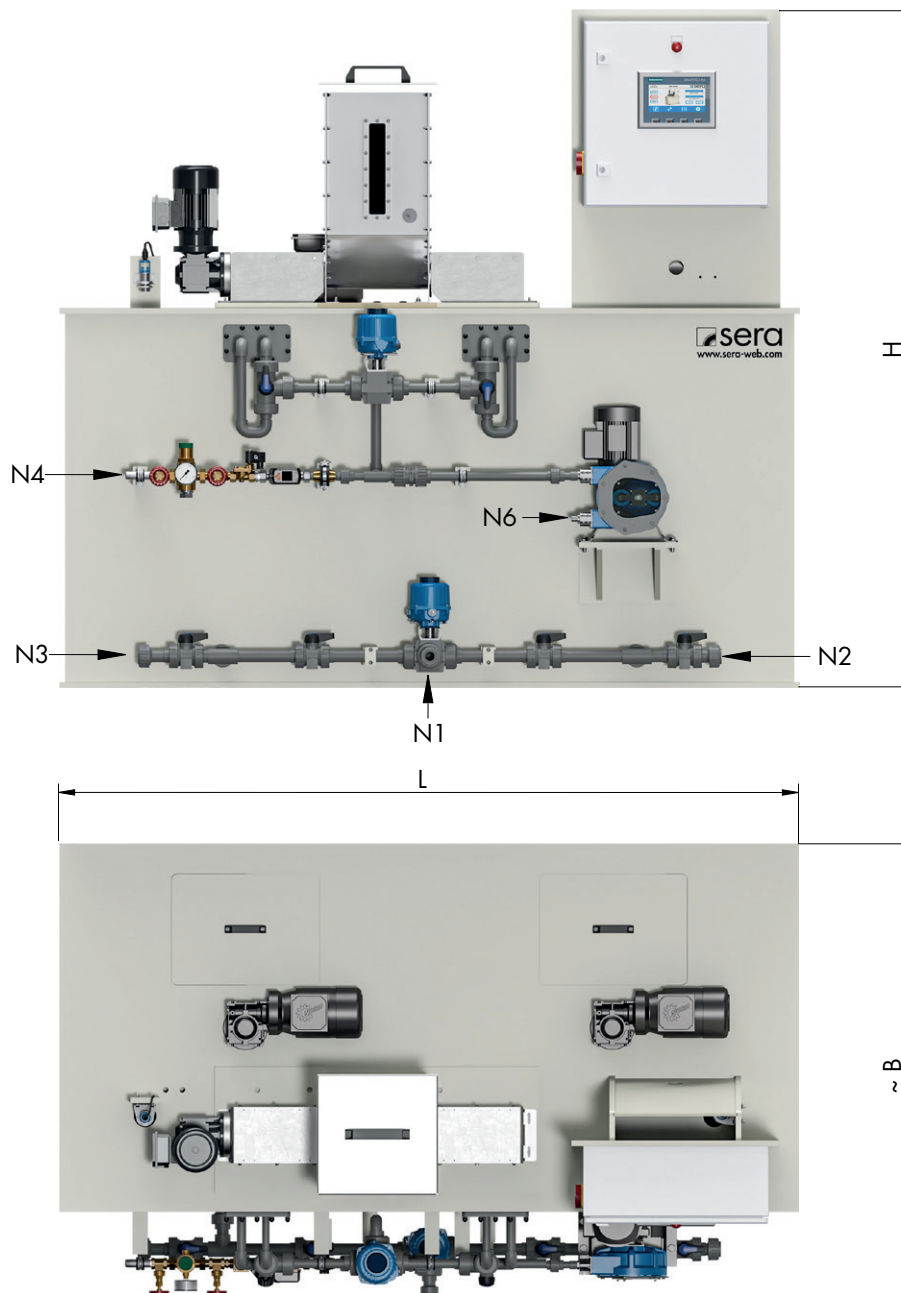
ELECTRICAL DATA		PolyLine ...
Connection voltage		~3/400 V /Hz + N + PE
Power consumption	approx. kW	2.0
Control voltage	V DC	24
Protection class	Control cabinet	IP 54
	elec. consumers	IP 55

POLYLINE FLOW DIMENSIONS



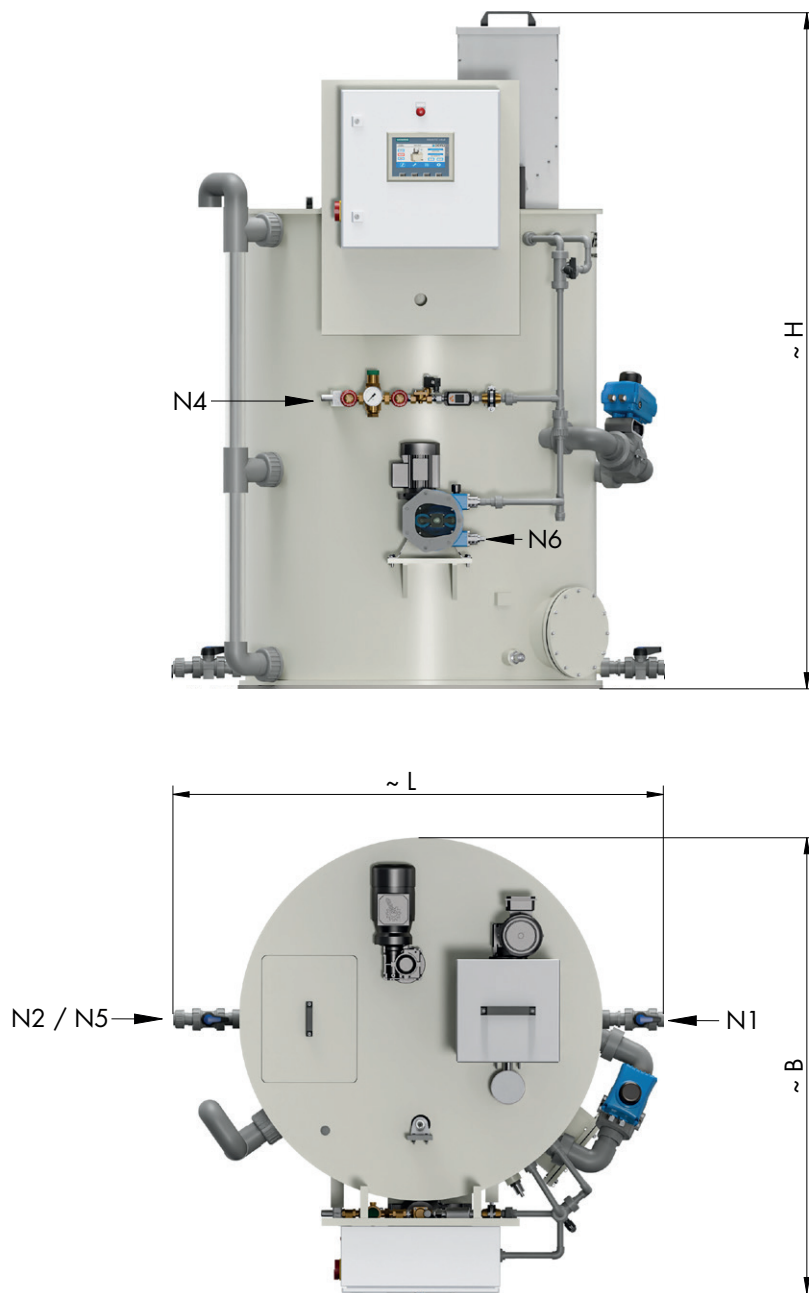
	PolyLine Flow- ...				
	500	1000	2000	4000	8000
W	990	990	990	1280	1570
H	1552	1552	1822	2112	2327
L Max. length	2370	2370	2370	3430	4470
N1 Product removal	DN25	DN25	DN32	DN40	DN50
N2 Tank drainage	DN25	DN25	DN25	DN25	DN25
N3 Tank drainage	DN25	DN25	DN25	DN25	DN25
N4 Water supply	DN15/IG½	DN15/IG½	DN15/IG½	DN15/IG1	DN15/IG1
N6 Liquid polymer supply (SL, L variant)	DN5 (G ¾)	DN5 (G ¾)	DN8 (G ¾)	DN8 (G ¾)	DN15 (G1)

POLYLINE SWING DIMENSIONS



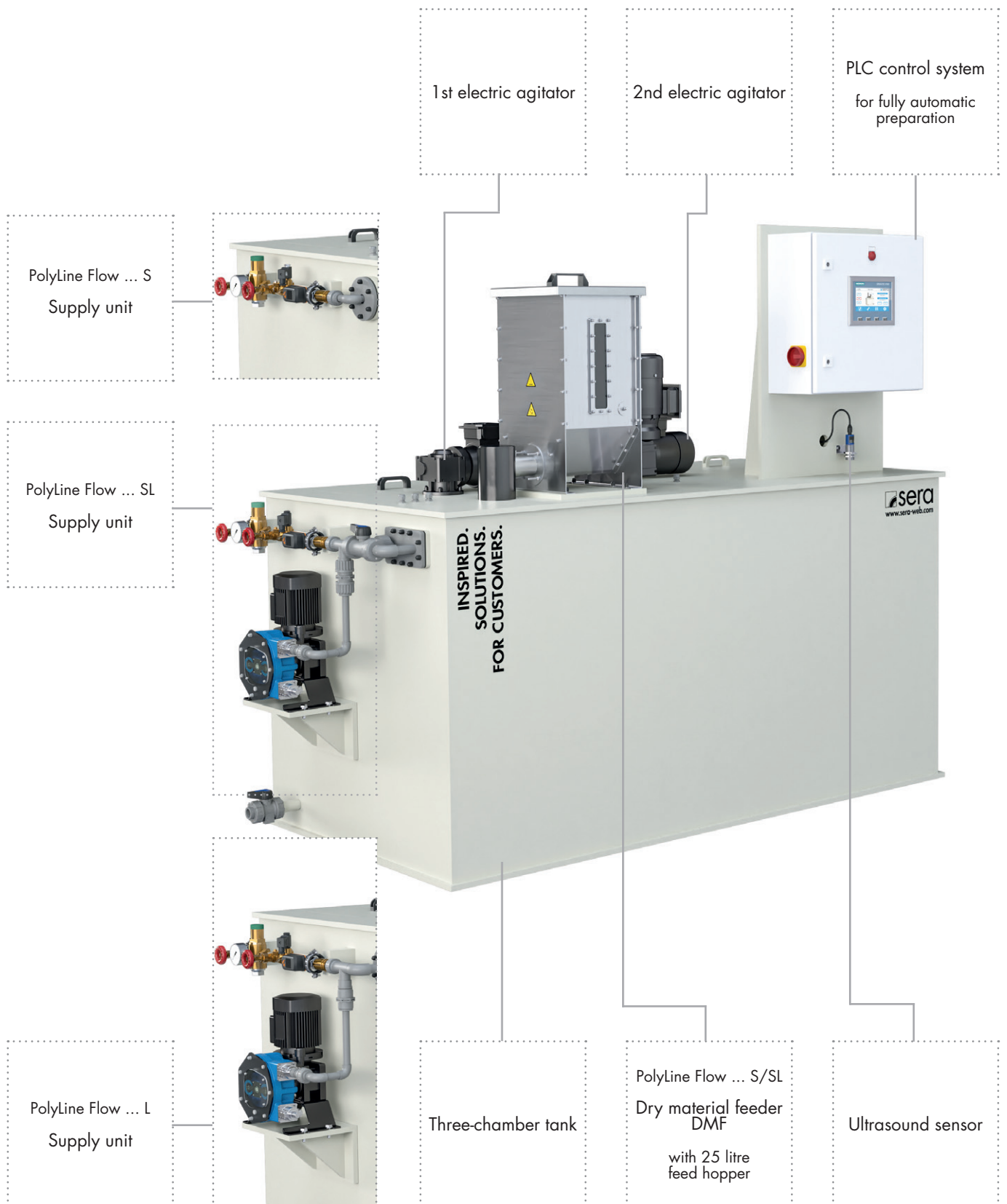
	PolyLine Swing ...			
	500	1000	2000	4000
W	1208	1208	1511	1804
H	1552	1822	2112	2327
L	1990	1990	2990	4000
N1 Product removal	DN25	DN25	DN32	DN40
N2 Tank drainage	DN25	DN25	DN25	DN25
N3 Tank drainage	DN25	DN25	DN25	DN25
N4 Water supply	DN15/IG½	DN15/IG½	DN15/IG½	DN15/IG1
N6 Liquid polymer supply (SL, L variant)	DN5 (T ¾)	DN5 (T ¾)	DN8 (T ¾)	DN8 (T ¾)

POLYLINE DOUBLE DIMENSIONS

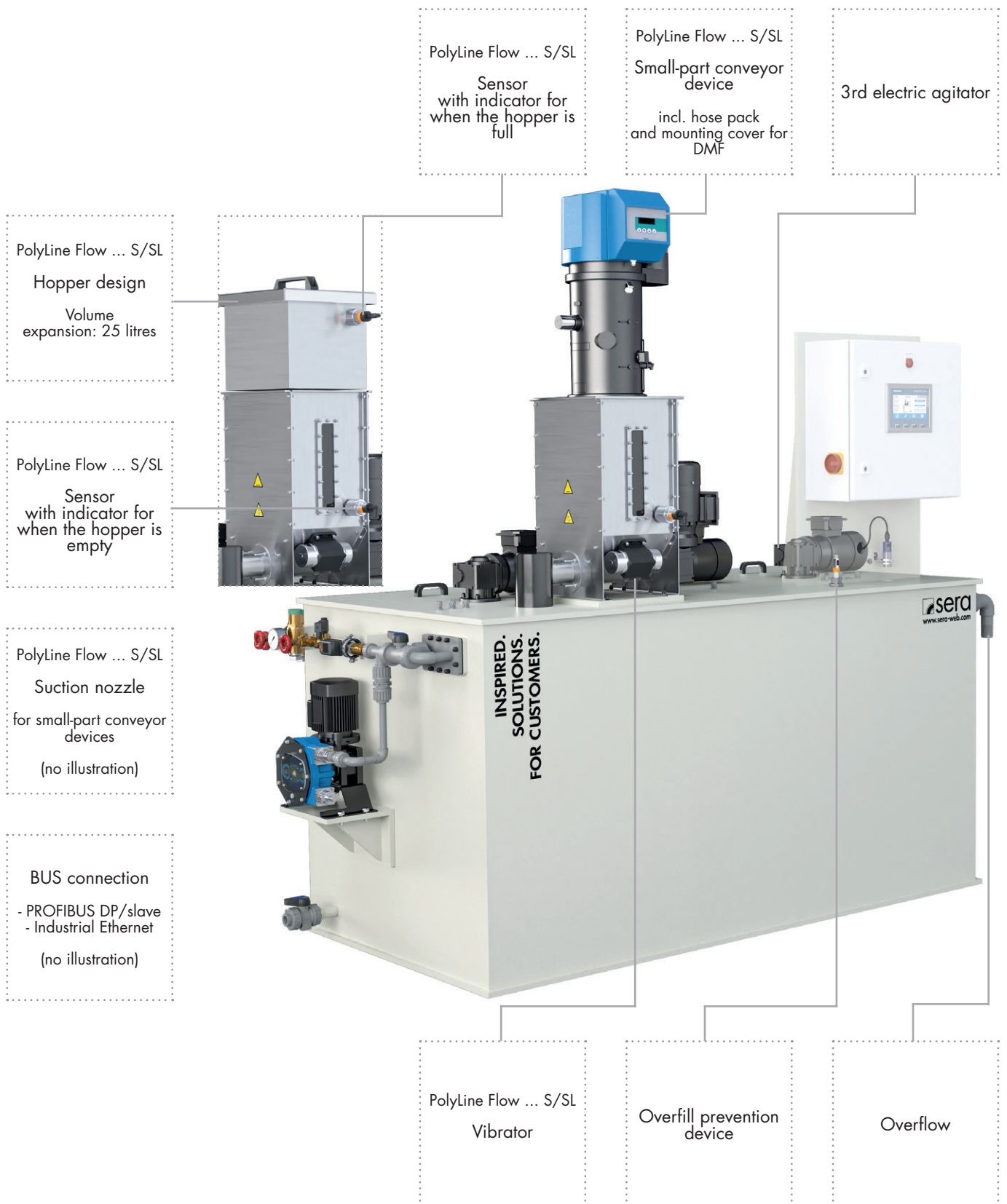


		PolyLine Double ...		
		500	1000	2000
W		1470	1621	2179
H	Max. height	2001	2562	2531
L		1540	1750	2200
N1	Product removal	DN25	DN25	DN32
N2	Tank drainage	DN25	DN25	DN25
N4	Water supply	DN15/IG½	DN15/IG½	DN15/IG½
N5	Overflow	DN25	DN25	DN25
N6	Liquid polymer supply (SL, L variant)	DN5 (T ¾)	DN5 (T ¾)	DN8 (T ¾)

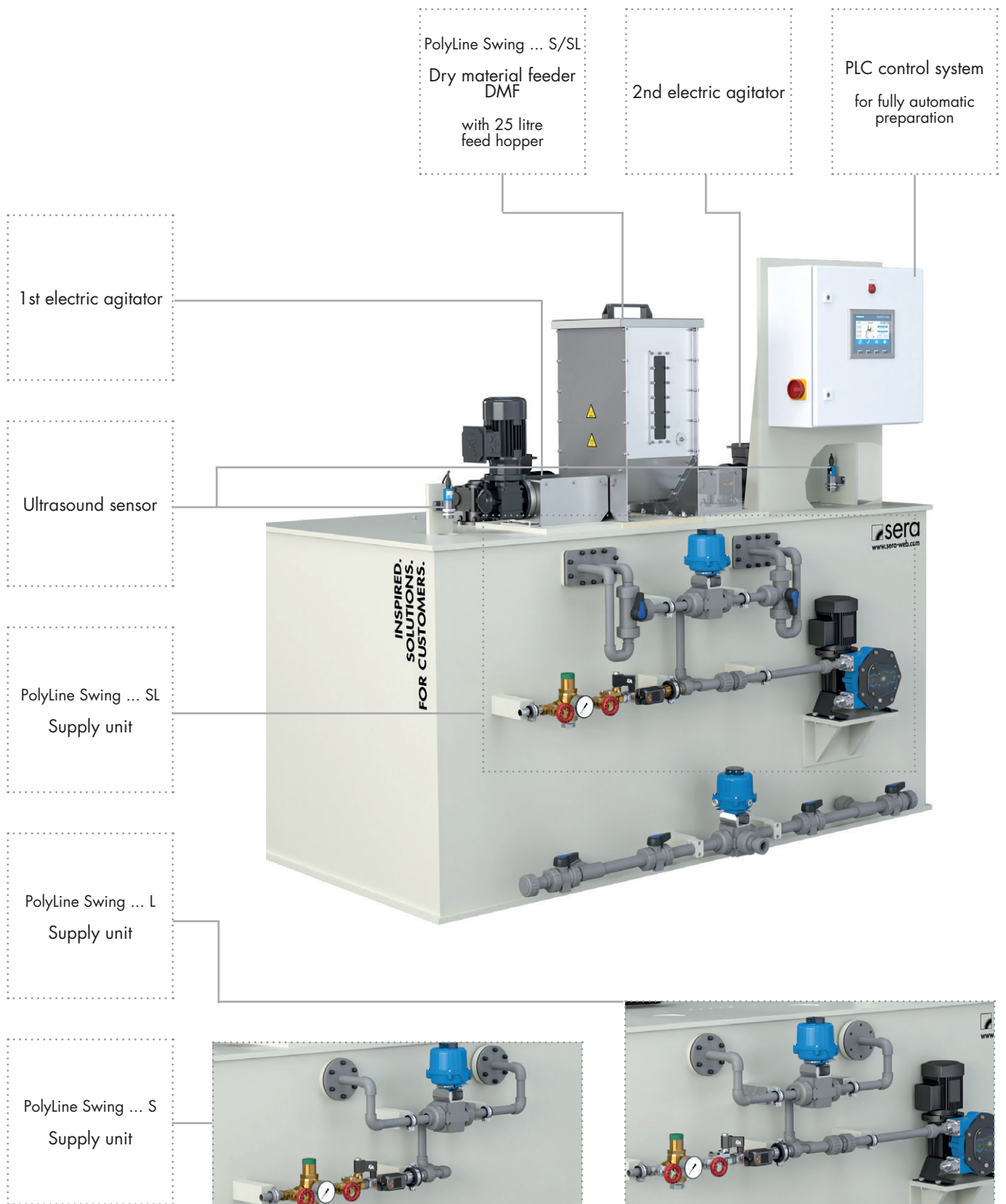
POLYLINE FLOW BASIC DESIGN



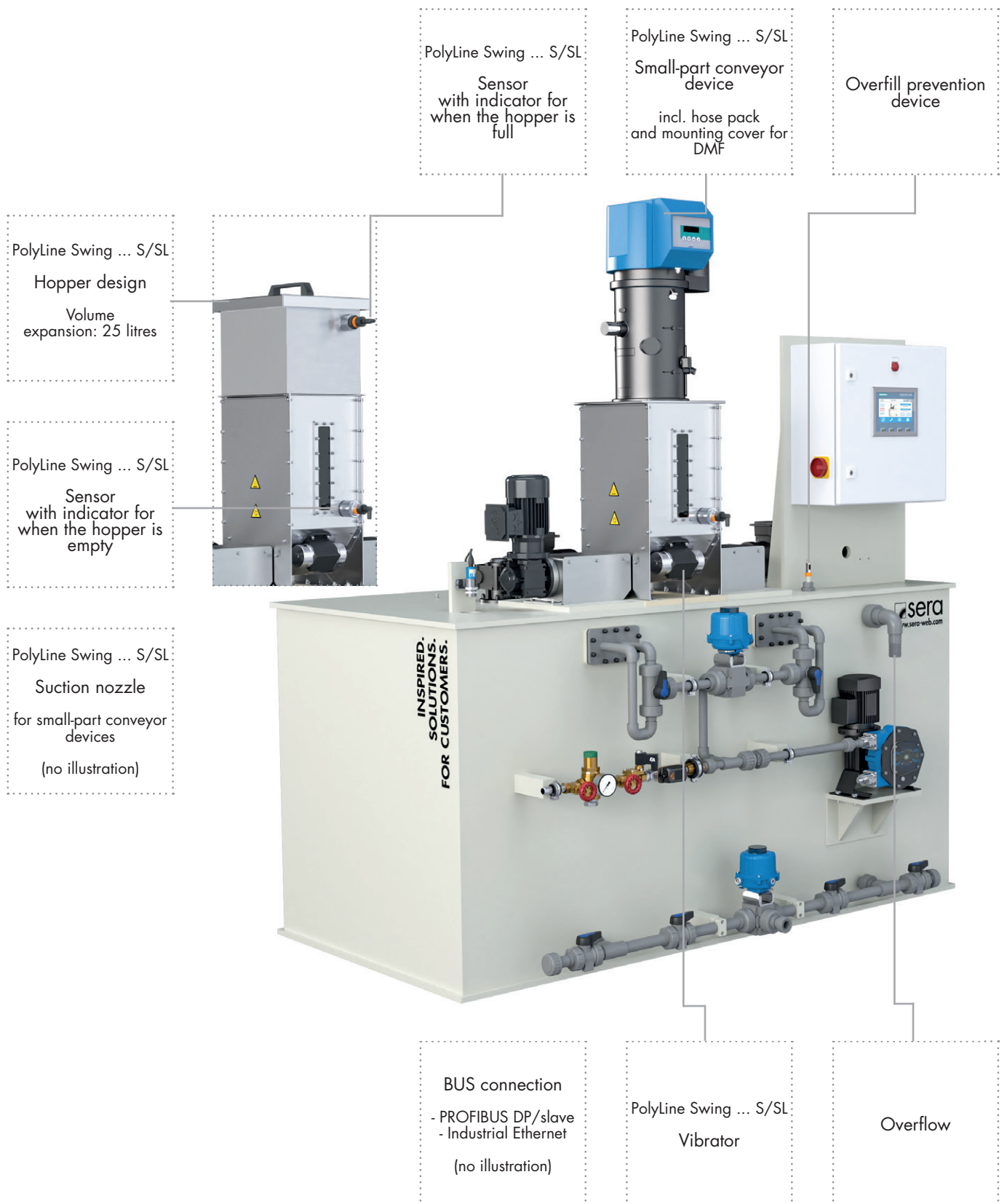
POLYLINE FLOW ADDITIONAL FEATURES



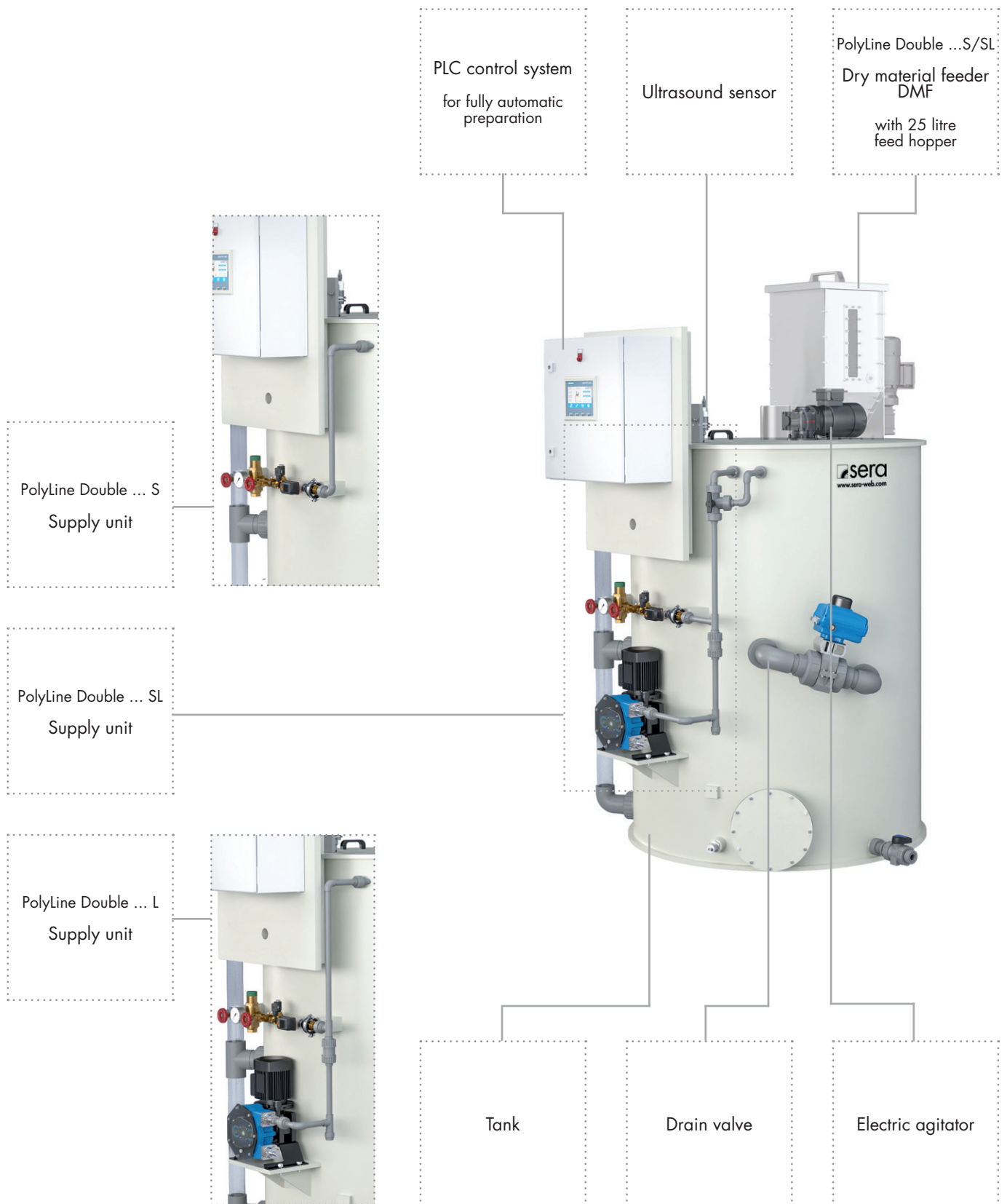
POLYLINE SWING BASIC DESIGN



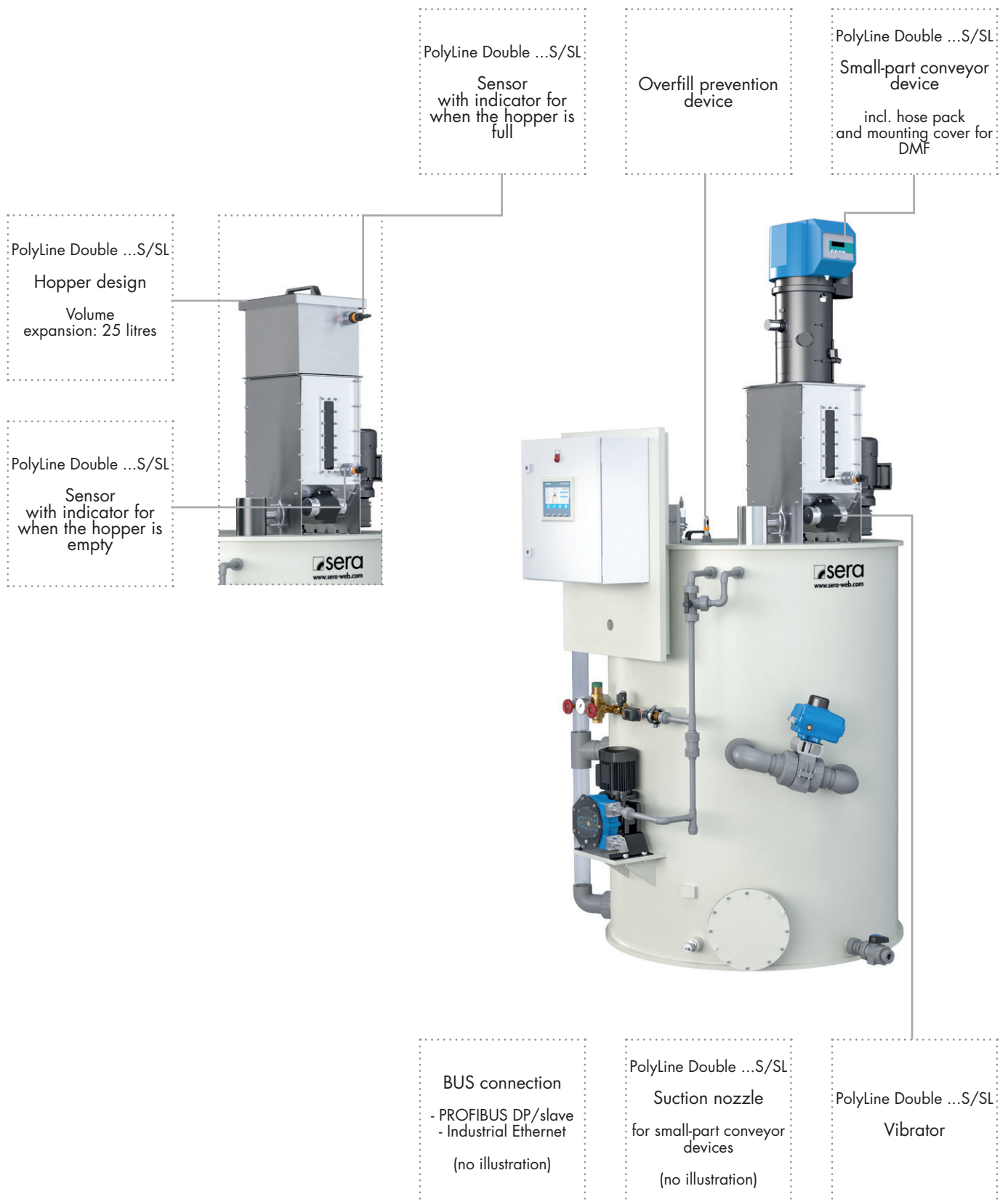
POLYLINE SWING ADDITIONAL FEATURES



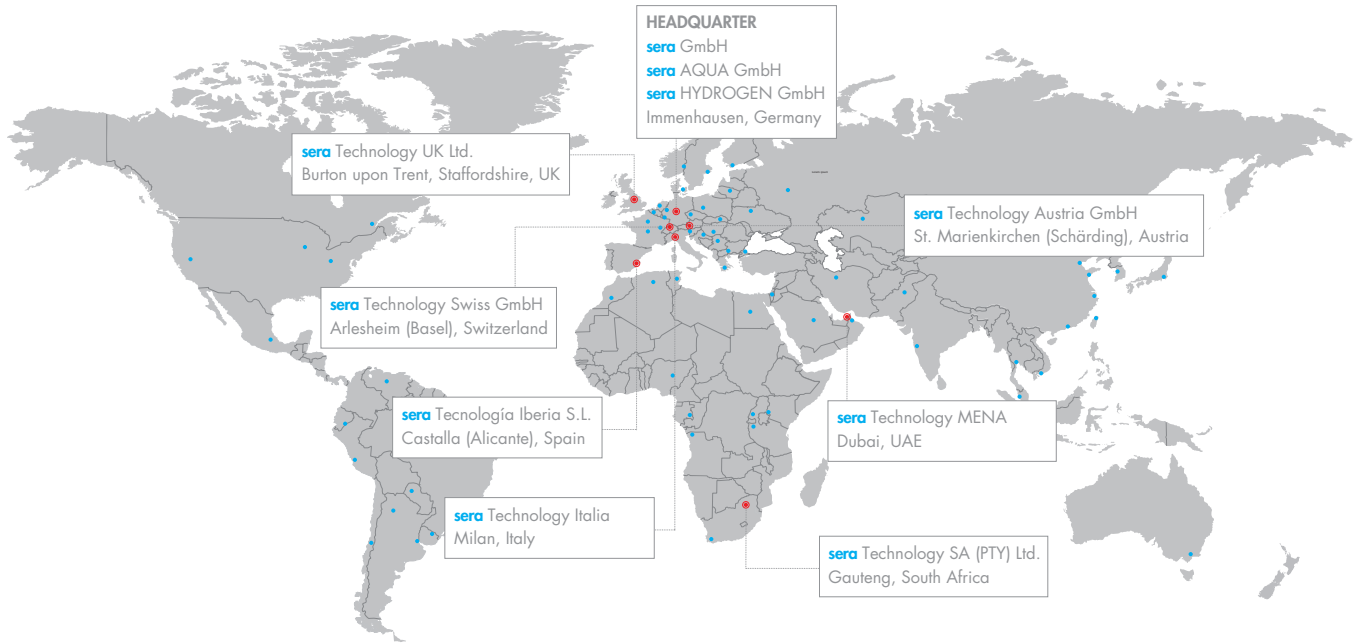
POLYLINE DOUBLE BASIC DESIGN



POLYLINE DOUBLE ADDITIONAL FEATURES



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