

MOBILE MIXING & DOSING SYSTEMS FOR COOLING LUBRICANT



- **economical**
- **high flexibility**
- **clean filling**
- **easy handling**



Gefördert durch:



Bundesministerium
für Wirtschaft
und Technologie

aufgrund eines Beschlusses
des Deutschen Bundestages

Economical cooling lubricant care directly at the machine

Our mixing & dosing systems offer you many advantages in your daily work.

The mobility and a modern control system simplify the mixing and refilling of cooling lubricants considerably. Thanks to the highest precision in mixing, the quality and service life of the machine cooling lubricant is significantly increased. Cost and time savings in production are the result.

The models of the pro series additionally offer you the possibility of recording the process and health-relevant data in accordance with the requirements of DGUV regulation 109-003 and TRGS 611 to document, store and further process.



AUTOMATICALLY DOCUMENTED VALUES:

- Date & time of the refilling process
- Refilled quantity
- MWF concentration of the refilled quantity

ADDITIONAL DOCUMENTABLE VALUES:

- pH value, nitrate, nitrite
- Actual concentration before refilling
- Operator number
- Machine assignment

DOCUMENTATION:

Storage of process/health-relevant data in CSV format. Output via USB interface.

FLACO KSS 200/60 eco

Our eco model, your cost-effective entry into the world of on-demand filling! The digital control unit enables easy handling for comfortable and safe refilling as well as exact dosing of the emulsion.



electric controlled mixing ratio



Control digital



200 litre water tank

TECHNICAL DATA 200/60 models

Control	Electronic control with digital setting of the concentration. Quantity preselection and display of the filled quantity. Permanent adjustment of the dosing process and the concentration by using 2 measuring chambers.
Operating range	Digital setting of the concentration, infinitely variable from 1% – 9.9% (series). Exact presetting of the dispensing quantity possible. Display of the actual refill quantity (depending on the viscosity of the concentrate).
Pump	<ul style="list-style-type: none"> • Diaphragm pump for water • Gear pump with controllable flow rate for KSS concentrate
Battery	Gel battery (12 V/20 Ah), plug-in power supply 230V, Charge controller integrated in the control unit
Tap valve	Automatic tap valve with venturi shut-off
Housing	Stainless steel/steel phosphated & powder coated



Go here to the product video



FLACO KSS 200/60 pro

Beyond the performance of the eco model, our pro model offers the possibility to document all process data of the refilling.



FLACO KSS ST/200 pro

Our pro model for large quantities of cooling lubricant. The water supply is provided via an on-site water connection with system separator. The integrated hose reel ensures optimum flexibility. For approx. 200 litres of coolant concentrate in a steel bung drum or plastic drum.



Data storage



Control digital



200 litre water tank



Data storage



Control digital



Hose reel

	FLACO KSS 200/60 eco	FLACO KSS 200/60 pro	FLACO KSS ST/200 pro	FLACO KSS 2ST/200 pro
Output power	approx. 15 litres/min.	approx. 15 litres/min.	approx. 22 litres/min.*	approx. 22 litres/min.*
Delivery quantity per battery charge	up to 400 litres	up to 400 litres	up to 3.000 litres	up to 3.000 litres
Water supply	200 litre PE water barrel	200 litre PE water barrel	Water connection on site*, 7 m hose reel	Water connection on site*, 7 m hose reel
Media delivery	2.5m hose with tap valve	2.5m hose with tap valve	2.5m hose with tap valve	5 m hose with nozzle on hose reel
Concentrate supply	60 litre HDPE barrel	60 litre HDPE barrel	for 200 litre bung barrel**	for 200 litre bung barrel**
Dimensions	1.010 × 750 × 1.170 mm (L × B × H)	1.010 × 750 × 1.170 mm (L × B × H)	1.010 × 750 × 1.170 mm (L × B × H)	1.010 × 750 × 1.170 mm (L × B × H)
Weight	approx. 63 kg (empty)	approx. 63kg (empty)	approx. 72kg (empty)	approx. 80 kg (empty)

* Prerequisites: Water flow rate of 35 l/min. and a static pressure of 3 - max. 4 bar applied to the hose connection of the KSS unit.

** not included in the scope of delivery

FLACO KSS 2ST/200 pro

For even more flexibility & increased radius of action. Our pro model with two hose reels. The additional media hose reel enables the refilling process even if the unit cannot be moved directly to the production machine.



Data storage



Control digital



Hose reel

Mixing and miscible media

Mineral oil-containing, partially and fully synthetic water-miscible cooling lubricant concentrates with a viscosity of 90 – 280 mm²/s can be mixed with all FLACO cooling lubricant devices. By constantly adding the concentrate to the water flow, the emulsions produced become particularly homogeneous.

Economic efficiency and sustainability

Protect not only the environment but also your wallet. Our mixing & dosing systems make daily lubricant care easy. Effortlessly prevent over-greasy emulsions effectively and with every litre of concentrate saved, you not only save money, but also protect the environment.

TECHNICAL DATA ST-models

Control	Electronic control with digital setting of the concentration. Quantity preselection and display of the filled quantity. Permanent adjustment of the dosing process and the concentration by using 2 measuring chambers.
Operating range	Digital setting of the concentration, infinitely variable from 1% – 9.9% (series). Exact presetting of the dispensing quantity possible. Display of the actual refill quantity (depending on the viscosity of the concentrate).
Pump	Gear pump with controllable delivery rate for KSS concentrate
Battery	Gel battery (12 V/20 Ah), plug-in power supply 230V, Charge controller integrated in the control unit
Tap valve	Automatic tap valve with venturi shut-off
Housing	Stainless steel/steel phosphated & powder coated



Overfilled machine tanks are a thing of the past!

In combination with our specially developed machine adapter, it is almost impossible to overfill the machine tank. The adapter can be installed in the machine tank and can be varied in its installation height by 50 mm. This enables an exact adjustment of the filling height for filling during machine standstill or during operation. When the set filling level is reached, the dispensing valve automatically stops the filling process.



Go here to the product video



Mobile KSS systems according to customer requirements

If the units of the KSS eco and pro series do not cover the requirements of your needs 100%, we will work out the configuration that fits your machine tool park together with you. Listed possibilities of additional equipment are mentioned as examples.

Water and concentrate supply is configured according to customer requirements, further equipment variants are individually possible.

FLACO KSS custom

- higher mixture concentration (>10%)
- Water hose reel
- Forklift receptacle
- Higher flow speed
- Media hose reel
- higher battery capacities



Data storage



Control digital



Go here to the product video



Accessories



Filling station eco/pro, basic

for fixed water connection with automatic tap and tap holder



Barrel pump

230 V with suction tube & delivery hose



Transfer unit

For delivery of cutting-, track- or hydraulic-oil from other containers



System separator on the building side

to protect drinking water against liquids up to and including DIN category 4



60 litre drum for KSS concentrate

with 2 carrying handles & 2 openings, incl. overflow indicator



Machine adapter

for mounting on the machine tank for filling with an automatic tap valve

Innovation & Competence



FLACO understands the requirements of modern manufacturing companies. We offer you more added value through efficient products and systems – customised or from series production.

Products and systems from FLACO have combined pioneering spirit, quality and efficiency for decades. Well-founded market understanding and intensive dialogues with our customers guarantee product innovations as well as constant optimisation of proven products.



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Here you can find our digital brochure.