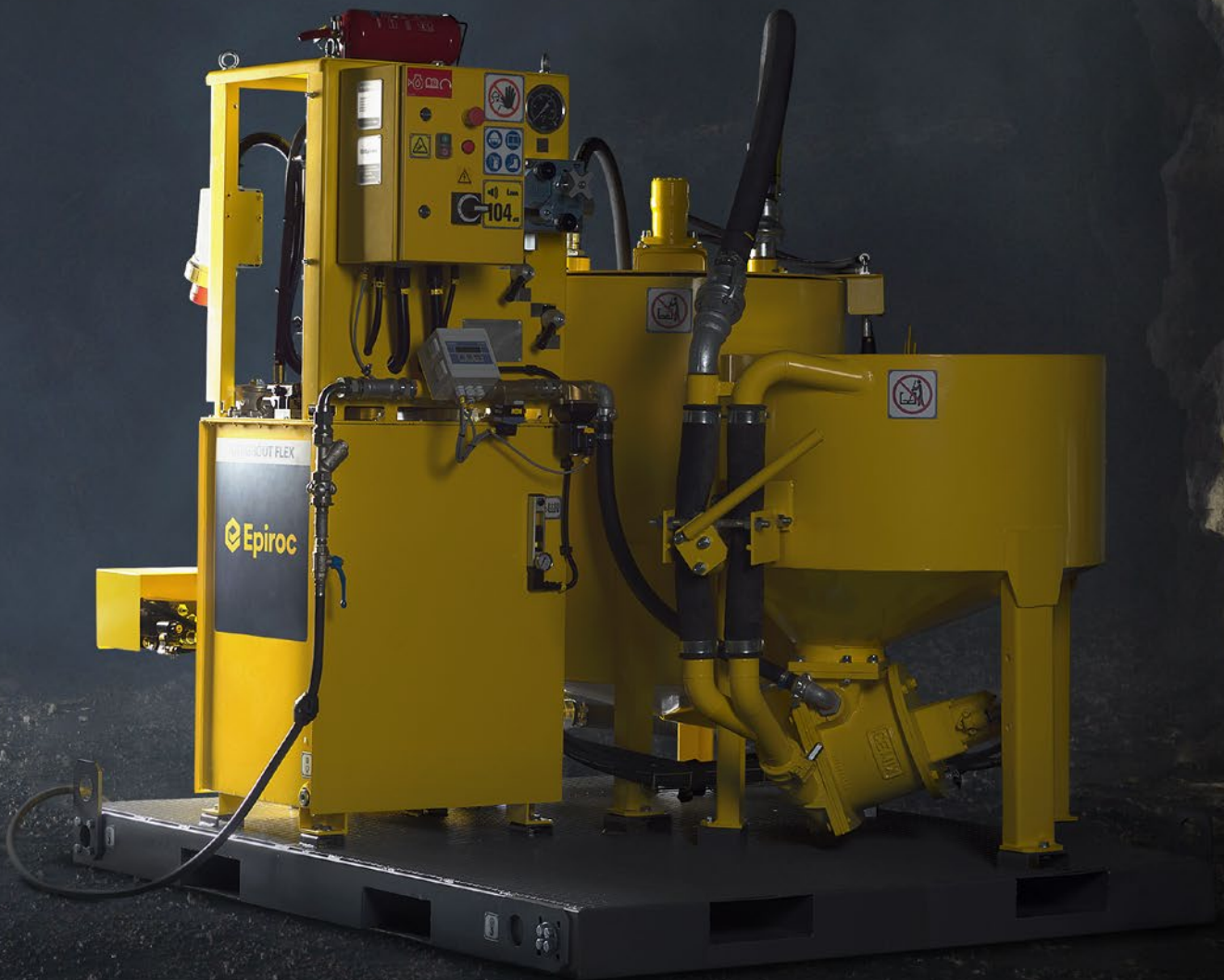


Unigrout Flex S and Flex M

The flexible grouting system to reinforce both underground and on surface construction



A flexible grouting system

Quick and easy to move, the complete Unigrout Flex S and Flex M system consists of a manually operated grouting platform which includes a mixer, agitator and injection pump. The platform design is simple, flexible and compact. Unigrout Flex S and Flex M serves a wide range of applications globally.

⊕ Main benefits

Quick mobilization thanks to a compact and complete system which is easy to move and operate

High return through a versatile and cost effective solution

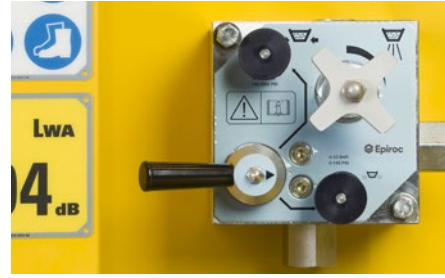
User friendly, ergonomic and service minded design makes the Unigrout Flex unit easy to operate and clean

Cemix is a high speed colloidal mixer which efficiently produces a homogenous grout mix with low water/cement ratio





A close clearance between the impeller and housing means a more homogenous mix, free from lumps or aggregates



An advanced control block enables independent control of both pressure and flow



All operating controls are within easy reach



Electro-hydraulic power unit with single electric motor and fixed hydraulic pumps

Pumpac is a single piston, double acting grout pump with advanced hydraulic controls for independent control of pressure and flow

Steel platform with forklift slots and lifting eyes for simple loading and moving

The versatile workhorse

Unigrout Flex S and Flex M are versatile workhorses with easy to reach components. Their durable design ensures trouble-free performance in a variety of grouting applications.



+ Ergonomic and service minded

The Unigrout Flex S and Flex M units are designed for easy use. The open structure allows for convenient access during cleaning and service of vital parts, which makes the work more productive and cost effective.



+ Wide coverage and high return

Covering low to high pressure ranges, Unigrout Flex S and Flex M can be used with a variety of materials and mix designs. This flexibility makes them an asset in a wide range of applications including tunneling and mining, dam projects, micropiling, and rock and soil reinforcement.



+ Compact and mobile

Recognizable by their compact design, the Unigrout Flex S and Flex M are easy to move and mobilize. A single unified platform with integrated grouting modules means that no time needs to be spent on disconnecting and reconnecting.



A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.



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Technical specifications

CEMIX mixer

	Flex S		Flex M	
	Metric	Imperial	Metric	Imperial
Model	CEMIX 103H	CEMIX 103H	CEMIX 203H	CEMIX 203H
Nominal volume	100 l	26 US gallons	200 l	53 US gallons
Rotation speed of motor	1 800 RPM	1 800 RPM	1 800 RPM	1 800 RPM
Hydraulic motor	11 cc	11 cc	11 cc	11 cc

CEMAG agitator

	Flex S		Flex M	
	Metric	Imperial	Metric	Imperial
Hydraulically driven with offset blades and inclined bottom for improved discharge				
Model	CEMAG 203H	CEMAG 203H	CEMAG 403H	CEMAG 403H
Nominal volume	200 l	53 US gallons	400 l	105 US gallons
Rotation speed	60 RPM	60 RPM	60 RPM	60 RPM
Hydraulic motor	200 cc	200 cc	200 cc	200 cc

Grout pump

	Flex S		Flex M	
	Metric	Imperial	Metric	Imperial
PUMPAC Grout pump standard	Hydraulically driven, double acting single piston pump with advanced control and robust ball valves			
Type				
Grout cylinder diameter alternatives	80, 110, 150 mm	3 1/7, 4 1/3, 6 inches	80, 110, 150 mm	3 1/7, 4 1/3, 6 inches
Max particle size	5 mm	3/16 inches	5 mm	3/16 inches
Hydraulic pump	45 CC variables	45 CC variables	45 CC variables	45 CC variables
Pump outlet size	1" BSP	1"NPT	1" BSP	1"NPT

Power unit

	Flex S	Flex M
Type	Electro-Hydraulic power unit with submerged hydraulic pumps mounted in series	
Installed power (kW)	15/(22) kW	15/22 kW
Hydraulic pumps arrangement	1x variable pump for Pumpac and 2x fixed gear pumps for Cemix and Cemag	
Hydraulic pumps sizes (V=Variable, F=fixed)	45 cc(V)+22 cc(F)	45 CC (V)+14 CC+8 CC (F)

*11 kW Power on Flex S is only when progressive cavity pump is selected.

**Recommended power unit for Flex M is 22 kW unless expected shortage of power. The capacity in extreme situation might be somewhat lower with 15 kW.

Weight and dimensions*

	Flex S		Flex M	
	Metric	Imperial	Metric	Imperial
Weight	930 kg	2 050 lb	1 135/1 190 kg	2 500/2 625 lb
Dimensions LxWxH	1 600x1 400x1 350 mm	63x55x53 inch	2 030x1 600x1 835 mm	80x63x72 inch

Sound vibration

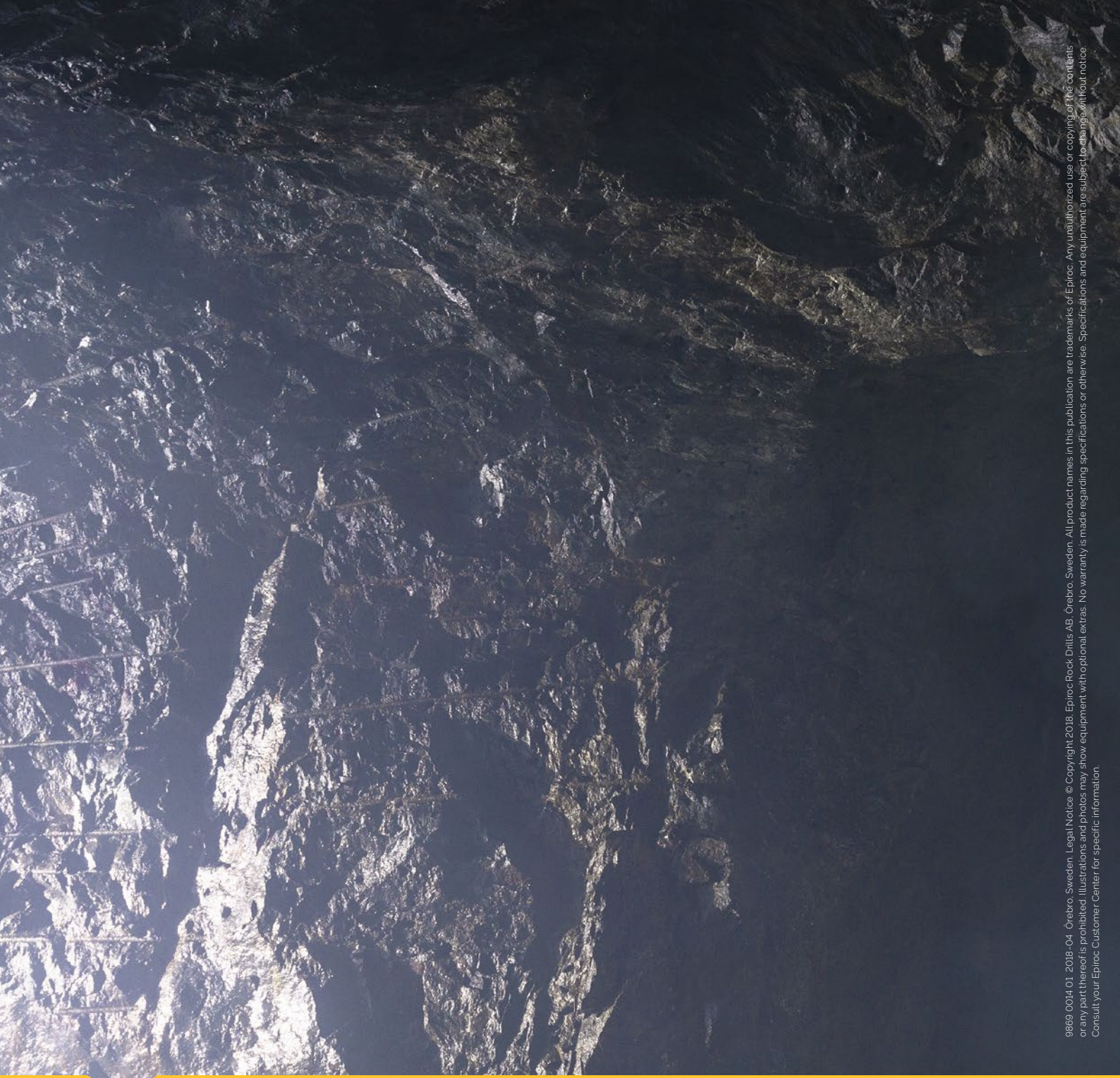
	Flex S		Flex M	
	Metric	Imperial	Metric	Imperial
Sound pressure level (dB(A) rel 20 uPa)	83 at operator station	83 at operator station	83 at operator station	83 at operator station
Vibration (m/s ²)	NA	NA	0.11 at operator station	0.11 at operator station

Optional equipment

	Flex S		Flex M	
	Metric	Imperial	Metric	Imperial
Grout pump options				
HD valve seats for Pumpac	For improved service life when constantly working with high pressure injection			
Water dosing options				
Digital water dosing kit	Digital flow meter + control instrument with electromagnetic valve for setting water volume for both LPM and GPM			
Mechanical water flow meter	Simple flow meter hanging over CEMIX, delivered separate and available either in LPM or GPM			
Water dosing tank – to speed up water dosing and rapid discharge to mixer	-	-	160 l	42 USG
Recorder				
On-board logac with 1x CFP20 meter unit	No	No	No	No

Note: Epiroc keeps the right to change specification without notice





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