

# KOINE 4

## Continuous cycle spraying and mixing pump

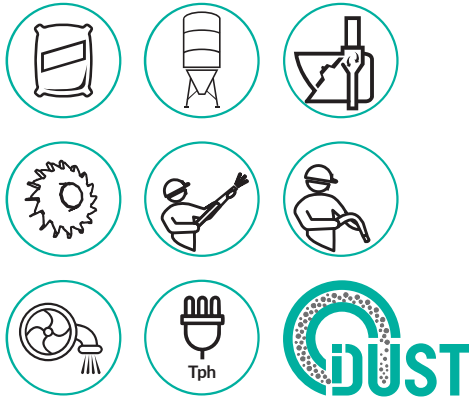
50 Hz

**Koine 4** 400V/50Hz Tph - 7.45 kW  
**1106005**

60 Hz

**Koine 4** 230V/60Hz Tph - 7.45 kW  
**1106003**

**Koine 4** 400V/60Hz Tph - 7.45 kW  
**1106112**



A simple control panel and electrical system, designed to reduce the number of components and parts most subject to wear, significantly increasing reliability and longevity.

Equipped with a manual phase inverter with light signals to identify the correct phase, overload alarm, optimal water pressure and stand-by control status (air closed).



Gearmotor —  
Mixing chamber —  
Feeding wheel —  
Mixer —  
Compressor —  
Stator and Rotor Group —  
Water flow control valve —  
Water injection —  
Water flow indicator —  
Electropump —

### Description

Continuous cycle mixing pump, suitable for pumping or spraying dry premixed materials:

- Cement / lime / gypsum plaster based
- Structural reinforcement mortars
- Structural plasters
- Restorative plasters
- Stucco
- Binders / mortars for injections
- Grout / Core-Fill Grout
- Glues for thermal insulation coatings
- Thermal insulating screeds based on cork or polystyrene
- Insulating plasters based on polystyrene or cork
- Fireproofing mortar
- Self-levelling cement-based screeds
- Self-levelling anhydride-based screeds

Bagged dry materials are poured into the dry hopper of the machine directly, or the machine can be loaded automatically from a silo even at considerable distances (over 100 m) using the Storm Plus conveyor system and a special blower hood complete of air / dust separator filter to be placed in the hopper of the machine.

### Operation

The bagged material, or product coming from the silo, is poured into the hopper, where a feeding wheel fills the mixing chamber continuously and constantly. The water necessary to obtain the mixture is injected into the mixing chamber by a stainless steel pump. The water flow is kept constant through a technical stabilization system and controlled by a valve that starts or stops the flow if necessary.

The amount of water in the mixture can be viewed in the flow meter and can be adjusted according to the needs through a micrometric valve. The material is mixed with water and immediately sucked by the eccentric screw pump and pushed into the pipe until it reaches the end of the spray gun. From here, with the help of the air supplied by the standard integrated compressor, it is sprayed on the application area, from a distance of about 20 cm. The material flow can be started or stopped directly from the spray gun by opening or closing the air valve.

Washing is simple, very fast and without water spilling in the work area. The only area that needs to be cleaned is the one where the mixture takes place. The unused dry material can remain in the hopper and be removed if necessary, by opening the appropriate discharge plug at the bottom of the hopper.

The Koine 4 is equipped with safety devices and devices for protecting electric motors from overloads with light signals:

- Correct line / phase presence
- Overload alarm (magnetothermic intervention)
- Presence of optimal water pressure
- Stand-by control status (air closed)
- Self-resetting thermal protector intervention in the mixing motor

In addition to the electromechanical part, the electrical panel contains a compressed air system inside, with a service pressure gauge useful for any checks.



Easily removable feeding wheel.



Practical toolbox.



Impact resistant square tubular frame.



Cast iron material delivery flange with pressure gauge. Direct connection for Ø35 F pipe. It allows to extend the pipes up to 50 m with the minimum increase in working pressure. The reduction to apply the Ø 25 pipe is included in the standard equipment.



Hydraulic system in anti-oxidation brass. Arrangement of components designed to improve water drainage in winter. Large sized self-priming electropump, capable of 4.5 bar pressure, with stainless steel cap and brass impeller.

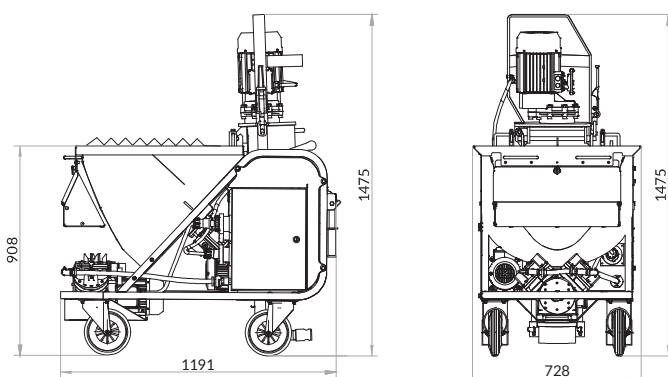
### Standard Equipment

Stator and Rotor D6-3
Material delivery pressure gauge
Feeding wheel gearmotor
Power supply and control panel
INGX2 stainless steel self-priming electropump
Brass water system with flow meter and with ANTIFREEZE discharge
40 m electric cable
40 m water hose
15 m material hose Ø 25 mm with quick couplings
16 m air hose Ø 13 mm with quick couplings
Built-in accessory box with gun and reduction Ø 35 - Ø 25
Cleaning accessories (scraper and sponge)
Rotor replacement wrench

### Technical data


Power supply	-	400V / 50-60Hz 230V / 60Hz
Max installed power	kW	7.45
Mixing motor power	kW	5.5
Feeding wheel gearmotor power	kW	0.75
Electropump motor power	kW	0.45
Membrane compressor	-	0.75 kW - 2501 / min
Material flow*	l/min	22
Pumping distance with Ø 25 mm hose*	m	25
Pumping distance with Ø 35 mm hose*	m	50
Pumping height*	m	30
Hopper capacity	l	110
Loading height	mm	900
Sound pressure level	dB(A)	< 80
Machine dimensions w / l / h	mm	728/1191/1475
Machine weight	kg	263
Packed machine dimensions w / l / h	mm	840/1200/1250
Packed machine weight	kg	355

(\*) The values indicated are subject to variations based on the characteristics of the materials used, their consistency, the type of stator / rotor installed and the size of the hose used.



# Setups for specific applications **KOINE 4**

**A**



Self-levelling cement / anhydride based screeds

**1107091** Self-levelling Kit

**B**



Accessories for thermal plaster, lightened screed and fireproofing materials

**1107028** Stator D8-1.5 - CLAMP Ocher yellow

**1107029** Rotor D8-1.5 with tab - Ocher yellow

**1107541** Mixer for lightened materials

**1107517** Turbo mixer

**C**



Accessories for thermal plaster, lightened screed based on cork or polystyrene and fireproofing materials. Without turbine

**1107028** Stator D8-1.5 - CLAMP Ocher yellow

**1107031** Rotor D8-1.5 MONO CLAMP - Green

**1107541** Mixer for lightened materials

## Accessories for customized setups **KOINE 4**

### D6-3 Orange


➔ Recommended for:

- Cement / lime / gypsum plaster based
- Stucco
- Binders / mortars for injections
- Glues for thermal insulation coatings
- Fireproofing
- Self-levelling screeds for thicknesses up to 1.5 cm

**Pressure (bar) 30**  
**Maximum grain size (mm) 3**  
**Flow rate (l / min) 20**

**1107020**  Stator D6-3

**1107021**  Rotor D6-3

**1107037**  Stator D6-3 NO SPINNING

**1107017**  Rotor D6-3 FLEX

**1107163**  Rotor D6-3 with tab

### D5-2.5 Gray

➔ Recommended for:

- Cement / lime based plasters
- Structural plasters
- Restorative plasters
- Structural reinforcement mortars
- Grout / Core-Fill Grout
- Fireproofing

**Pressure (bar) 25**  
**Maximum grain size (mm) 3**  
**Flow rate (l / min) 25**

**1107040**  Stator D5-2.5 NO SPINNING

**1107023**  Rotor D5-2.5

**1107044**  Rotor D5-2.5 FLEX

### D7-2.5 White

➔ Recommended for:

- Cement / lime based plasters
- Structural plasters
- Restorative plasters
- Structural reinforcement mortars
- Grout / Core-Fill Grout
- Fireproofing

**Pressure (bar) 25**  
**Maximum grain size (mm) 4**  
**Flow rate (l / min) 27**

**1107041**  Stator D7-2.5 NO SPINNING

**1107025**  Rotor D7-2.5

### D8-2 Black

➔ Recommended for:

- Grout / Core-Fill Grout
- Self-levelling cement-based screeds
- Self-levelling anhydride-based screeds
- Structural reinforcement mortars
- Fireproofing

**Pressure (bar) 20**  
**Maximum grain size (mm) 3**  
**Flow rate (l / min) 34**

**1107042**  Stator D8-2 NO SPINNING

**1107027**  Rotor D8-2

**1107043**  Rotor D8-2 FLEX


### D8-1.5 Ocher yellow

➔ Recommended for:

- Self-levelling anhydride-based screeds
- Thermal insulating screeds based on cork or polystyrene
- Insulating plasters based on polystyrene or cork
- Structural reinforcement mortars
- Grout / Core-Fill Grout

**Pressure (bar) 15**  
**Maximum grain size (mm) 5**  
**Flow rate (l / min) 38**

**1107028**  Stator D8-1.5 CLAMP

**1107031**  Rotor D8-1.5 MONO Green

**1107029**  Rotor D8-1.5 with tab

### D4-1/2 Lemon Yellow

➔ Recommended for:

- Glues for coatings
- Finish coat

**Pressure (bar) 25**  
**Maximum grain size (mm) 3**  
**Flow rate (l / min) 13**

**1107032**  Stator for grouting D4-1/2 CLAMP

**1107033**  Rotor D4-1/2

1107542		Standard mixer	1107597		Mixer for self-levelling floor screeds	1107541		Mixer for lightened materials
1107500		Blower hood for Koine 4 and Koine 35 Complete with filter. (Level sensor not included)	1107491		I-Dust grate and motor air flow diverter	1107517		Turbo mixer
1107540		Ø 25 F spray gun for traditional/premixed plaster with Ø14 deflector (Duse)	1107549		Ø 25 F spray gun, 1.43 m long for fireproofing and premixed plaster	1107570		U-shaped steel pipe Ø 25
1107551		10 pcs kit deflectors Ø 10 (Duse) in polyurethane for premixed plaster	1107557			5 pcs kit deflectors Ø 10 in polyurethane for traditional plaster		
1107552		10 pcs kit deflectors Ø 12 (Duse) in polyurethane for premixed plaster	1107558			5 pcs kit deflectors Ø 12 in polyurethane for traditional plaster		
1107553		10 pcs kit deflectors Ø 14 (Duse) in polyurethane for premixed plaster	1107559			5 pcs kit deflectors Ø 14 in polyurethane for traditional plaster		
1107554		10 pcs kit deflectors Ø 16 (Duse) in polyurethane for premixed plaster	1107560			5 pcs kit deflectors Ø 16 in polyurethane for traditional plaster		
1107525		Material hose Ø 25 - 15 m with camlock coupling	1107532			Air hose Ø 13 - 16 m with quick couplings		
1107526		Material hose Ø 25 - 10 m with camlock coupling	1107531			Air hose Ø 13 - 10 m with quick couplings		
1107527		Material hose Ø 25 - 5 m with camlock coupling	1107530			Air hose Ø 13 - 5 m with quick couplings		
1107528		Material hose Ø 35 - 10 m with camlock coupling						
1107074		Material hose Ø 25 M35 / M25 L5 m with camlock coupling						
1107087		Cleaning kit for Ø 35 hoses Accessory for cleaning Ø 35 hoses with air or water	1107565			Camlock coupling adapter Ø 35 F - Ø 25 M		
1107103		Cleaning kit for Ø 25 hoses Accessory for cleaning Ø 25 hoses with air or water						
1107519		Kit 10 pcs sponge balls for cleaning Ø 25 hoses	1107520			Kit 10 pcs sponge balls for cleaning Ø 35 hoses		