

SPINNER

EREM

Model: FRM4



The logo consists of a stylized atom symbol with three blue and yellow orbits. To the right of the symbol, the word 'erem' is written in a lowercase, black, sans-serif font.

1. General features:

Description	Brand	Value
Length		2,000 mm
Width		1,300 mm
Height		1,185 mm
Wheel n°1 height		According to the requirements
Weight		2,500 kg
Spindles n°1-3 engine	Leroy Somer or other if specified	30 kW
Spindles n°2-4 engine	Leroy Somer or other if specified	30 kW
Travel motor	Sew Usocome	0.55 kW
Speed of spindles n°1 -3		3,000 rpm
Speed of spindle s n°2 -4		3,000 rpm
Moving speed		15 m/min
Spindle n°1 pulley diameter	Poly-V / Trapezoidal	According to the requirements
Spindle n°2 pulley diameter	Poly-V / Trapezoidal	According to the requirements
Spindle n°3 pulley diameter	Poly-V / Trapezoidal	According to the requirements
Spindle n°4 pulley diameter	Poly-V / Trapezoidal	According to the requirements
Engine n°1-3 pulley diameter	Poly-V / Trapezoidal	∅ 300mm
Engine n°2-4 pulley diameter	Poly-V / Trapezoidal	∅ 300mm
Wheel n°1 spindle speed		According to the variable speed control
Wheel n°2 spindle speed		According to the variable speed control
Wheel n°3 spindle speed		According to the variable speed control
Wheel n°4 spindle speed		12,000 rpm max
Backflow speed	EREM	12,000 rpm
Belt	PK Hutchinson	45 kW

2. Machine sound level:

100 db at 12,000 rpm.

3. The chassis

The chassis is realized in U-shaped steel.



The machine suspension is ensured by anti-vibration mounts positioned between the bearings of the wheels and the chassis.

The motor bases are directly linked to the supply pipe of stretching air. In this way, the two engines are well placed in relation to the heart of the spinner and therefore the wheel spindles.



4. The heart:

The heart is made of rolled steel sheet. It is composed of a protection water-jacket in the upper part and of reinforced sections to strengthen the whole structure. The heart of the spinner is made of a machine-welded mono-block and is stabilized after welding.



5. The spindles:

The spinner is equipped with high speed spindles. They can turn up to 12,000 rpm. This type of spindle does not require the use of oil, because the bearings are made with ceramic. This innovation caters to the will of many companies to reduce the environmental impact of their production.

The spindles are fitted with a water inlet and outlet for the cooling of the wheels at the bottom and with a conical nose at the front that enables the centring of the wheels. Wheel n°1 is centered on a cylindrical hub.



6. The stretching lips:

The stretching lips are made in CREUSABRO.



The stretching lips of spindles n°1 and 2 are held by an external flange which is screwed to the heart. The stretching lips of spindles n°4 and 3 are mounted separately. The stretching lips are wearing parts, thus they are screwed on the heart in order to make the replacement easier.

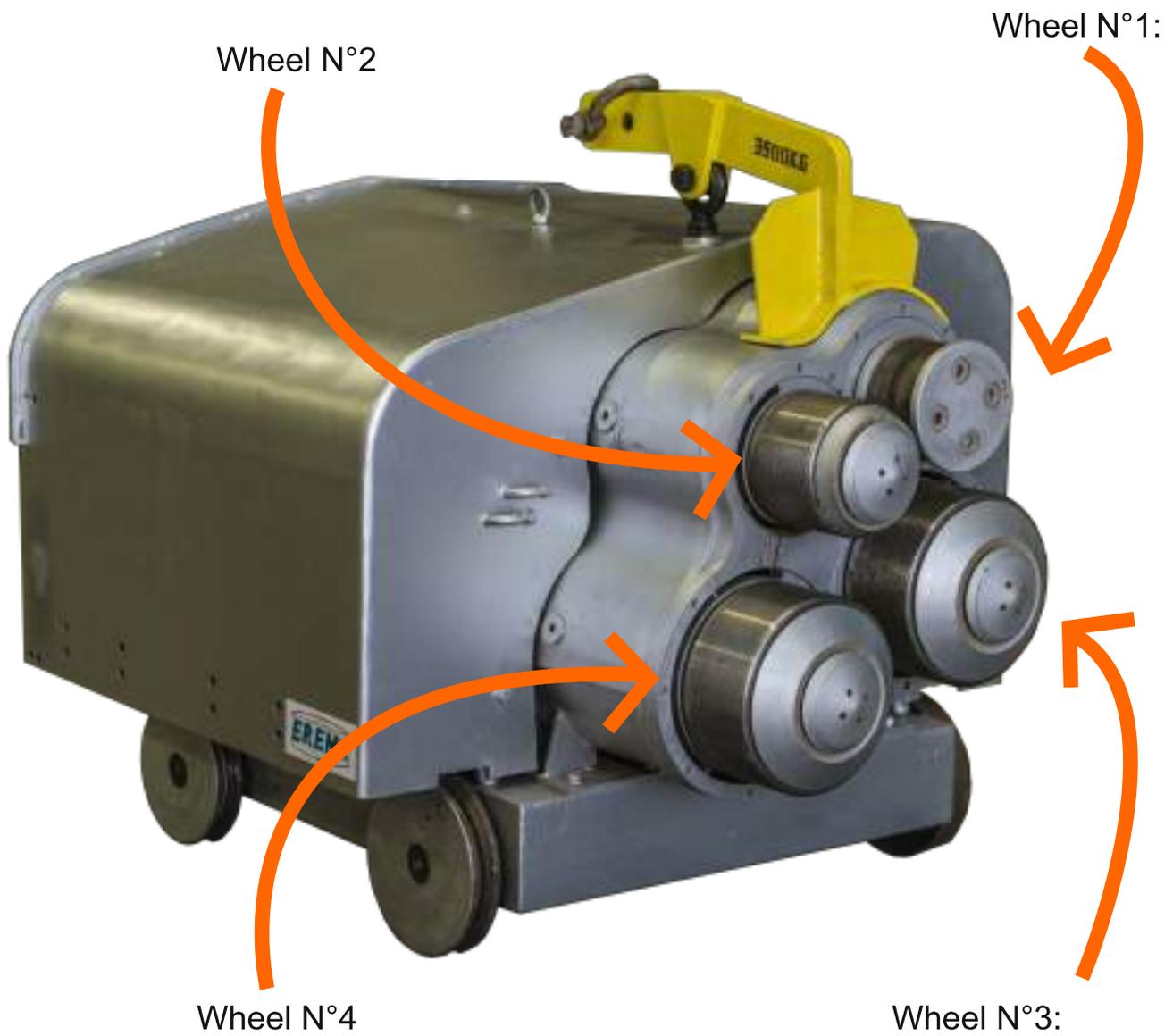


7. The central part of the frontage:

The central part of the frontage is made in CREUSABRO. It is screwed to the heart of the spinner.



8. The wheels :



The service life of each wheel is 500 hours with the overlay welding.

9. Engine Housing:

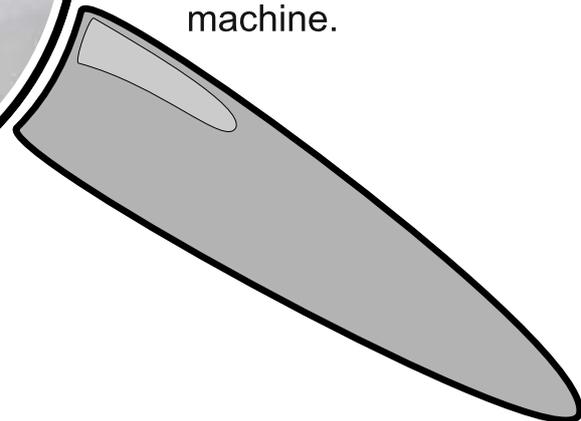
The machine housing can be easily dismantled to allow for maintenance. An electric contactor ensures the housing is closed before the engine is turned on. An edge on the back of the motor housing avoids the fusion to flow over the machine. The housing can be installed on slides as well, to allow for maintenance without disassembly.



A safety guardrail is installed under the housing, at the rear of the machine. This system enables the access to the connectors but bars the access to the moving organs. This barrier can be removed when the housing is open.



An edge on the back of the motor housing avoids the fusion to flow over the machine.



10. Motorization of the machine:

The machine spindles are driven by two 30 Kw electric engines and via two Poly-V belts.



Spindles n°1-3 are driven by the same engine.
Spindles n°2-4 are driven by another engine.



The longitudinal motion of the machine on the rails is ensured by a gear motor directly mounted on the rear shaft.



11. Machine hoisting:

A ring was installed on the machine, to allow for the lifting of the machine, on which can be fixed a lifting beam.

Maximum payload: 3,500 kg

12. Electrical supply:

Connectors are located at the back of the machine to provide the power supply.



Supply socket of
spindles n°1-3
engine

Supply socket
of the travel
engine

Supply socket
of spindles n°2-
4 engine



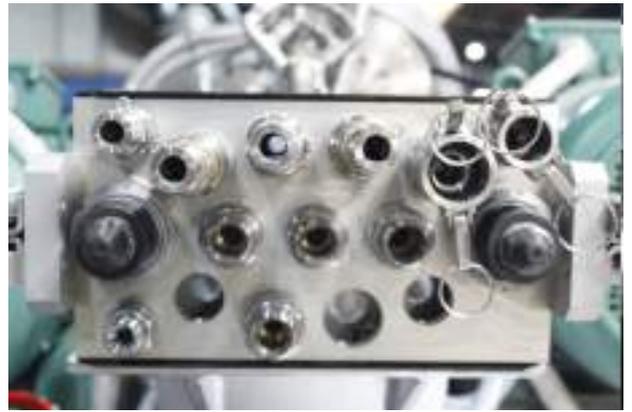
15. Stretching air supply:

A flat flange with two adjustable fasteners connects the supply ducts of stretching air to the machine.



13. Supply of fluids:

A multi-connector equipped with joins ensures the supply of fluids (wheels cooling water, heart water-jacket cooling water and binder). It is located at the rear of the machine.



The linking pipes that connect the multi-connector and the machine are achieved with TRICOCLAIR pipes.



The four cooling water pipes are connected to a collector at the rear of the machine chassis.





EREM has been existing for 43 years. It is located the city of Sotteville Les Rouen, in Seine Maritime (Upper Normandy). The company is involved in industrial mechanics and special machines manufacturing.



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