

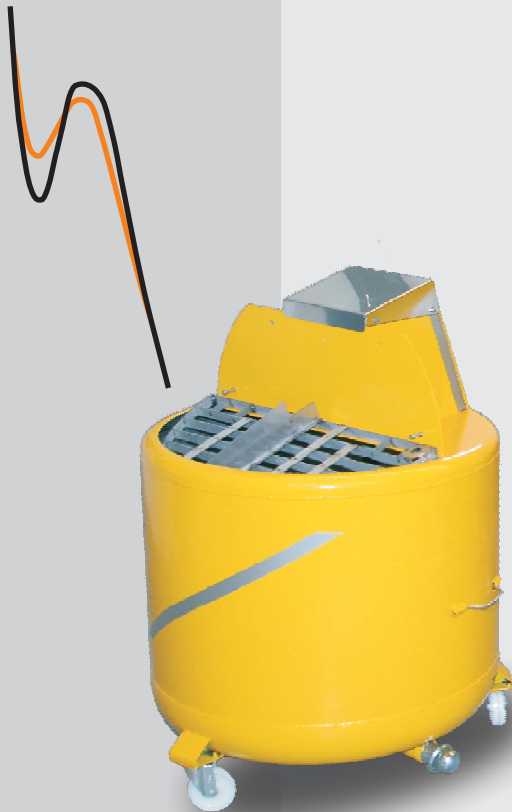


Equipment for the manufacture
of technical cellular concrete.

AG-300/60 R

Catalogue

[®]
DOSIFICADORES
garcía fernández



AG-300/60 R, the best





The AG-300/60 R equipment for making technical cellular concrete in a small portable mixer for making cellular concrete "in situ".

A small factory of high productivity up to 20 m³/h which in addition simplifies the labour necessary and makes it more pleasant.



Independent machine. On site, you only need water, cement, chemical additive and electrical energy. Easy handling for 2 workers. When pumping at the maximum flow and/or the work is especially difficult, more personnel will be needed.

The worker operating the machine selects the necessary density depending on the instructions given and the type of application. He himself programmes the machine and loads the mixer with the bags of cement. With each bag added, the water and additive pumps to provide the appropriated dose inside the mixer.



A continuous production and pumping system, providing the best performance.

Long machine life. With daily cleaning and minimum maintenance, more than 100.000 bags of cement (3,5 million kilos), equivalent to 140.000 m³ of C.C.

The quality of the materials and components used in the manufacture of the equipment, combined with the use of our range of chemical additives guarantee a suitable operation at a maximum performance without breakdowns.

DGF Procedure: Owner Character

Easy transfer of the equipment on the back of a small truck or towed by road. It comes with technical vehicle inspection documentation. Due to the low total weight of the equipment and to its design that take care of a low centre of gravity and a superior width between wheels it obtains driving and towing is safe and easy. The inertia braking system of the machine acts in form synchronized when the vehicle carrying it brakes. This frees the vehicle from any additional strain. In addition, there is a parking brake to keep the machine safely immobilised when it is stopped.



When the equipment is being used, even at its maximum output, the noise is minimal. It occupies very little space and is therefore mindful of the environment.



No vibrations:

Coins do not fall off the machine while it is working.

Wide range of densities of C.C. made between CC 225 and CC 425 for normal uses. For special uses between CC 125 and CC 500.

Some notable applications among the many possible are: slopes in roofing of buildings, various industrial uses, autolevelling of floors in the interior of houses, etc.

The common characteristics for all types of C.C. are their excellent properties of thermal and acoustic insulation, their lightness and that they are very economic.

The C.C. made by AG-300/60 R along with the DGF mark of technical additives are nowadays unbeatable in any part of the world.



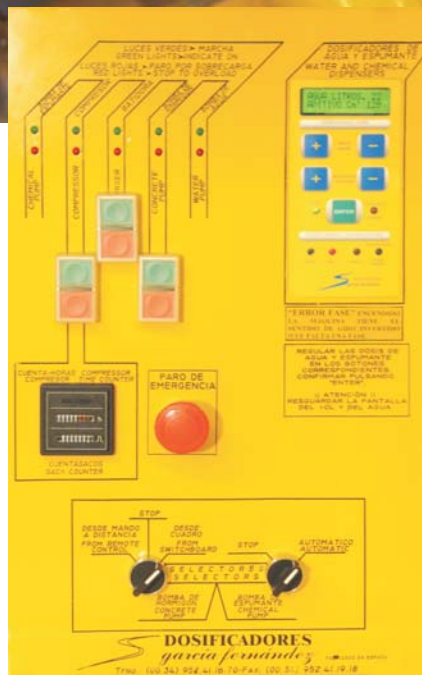
The D.G.F. naming of technical C.C.:
CC followed by a number that indicates the amount of cement.
For example: CC 250 (250 Kg of cement per m³)



QUICK

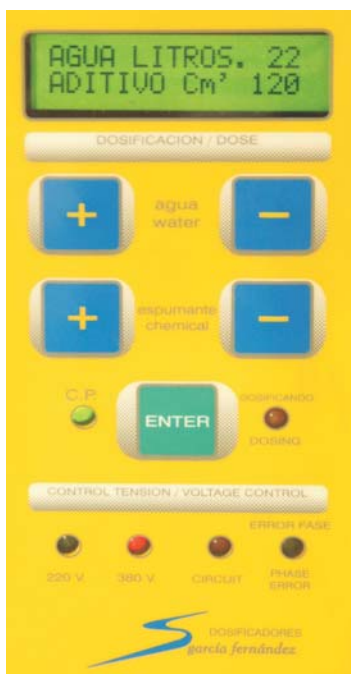
Left-hand panel with connection plugs and fuses. There is no possibility of error thanks to the different coloured plugs and pins.

General current cut-off switch in compliance with the harmonised application guidelines.



SIMPLE

Operating, Control, Signalling and Programming Panel. Start-Stop buttons for the compressor, mixer and cellular concrete pump. Operation mode selector for additive a C.C. pumps. Emergency stop and keyboard programmer. Cement bags and compressor operation hours control via a double screen. Signals for the machine in operation and stop for overload of all motors. Signalling for the type of working voltage the machine is currently working under. Signalling of correct operation or failure of electronic plate. Signalling when dispensing takes place.



ACCURATE

You select the required doses of water and chemical additive via the keyboard ("+" y "-"). Then press "ENTER" and the programming is confirmed.

The quantities of water and chemical additive can be seen at all times on the LCD screen.

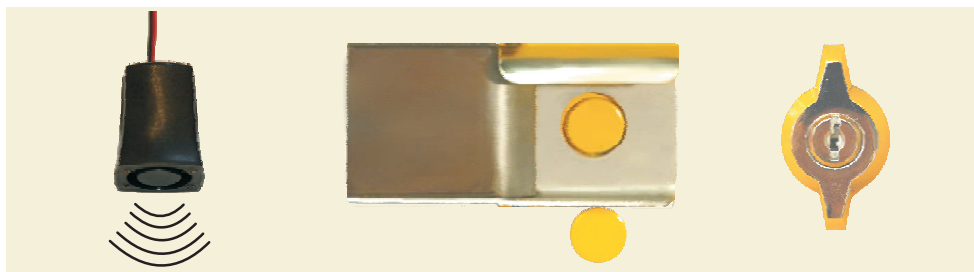
Signals for the working voltage (220 or 380), signals for phase failure in the mains.



POWERFUL AND FAST MIXING WITHOUT SPLASHES

Mixer completely constructed in stainless steel with a capacity of 500 litres. Mounted on three wheels for easy movement during use and three handles to grip while handling. It has a filter at the bottom of the mixer to prevent foreign objects from entering the interior of the pump; Grid and sack splitter; Connection of the mixer to the machine via a hose; Anti-wear stirring rod; Protective housing for the motor with a fan, on its cover there is a pivoted pedal for dispensing water-chemical additive.

With each bag that is added the dispensing pedal must be pressed once. The automatic dispensers in the machine add the previously selected amount of water and chemical additive to the interior of the mixer.



Additive fill level alarm

Acoustic warning device. If the additives container is not replaced, an automatic alarm sounds to remind you to replace it.

Double safety lock

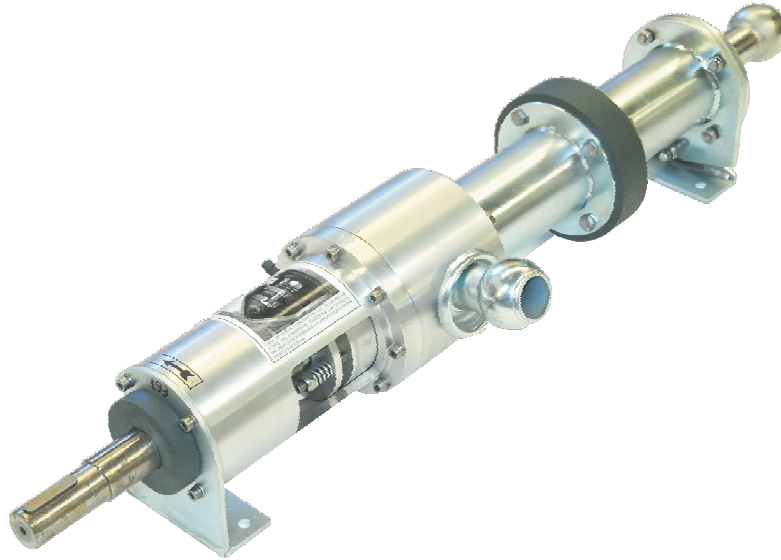
To prevent the machine opening. In addition to the lock, these devices provide double extra safety when closing the doors.

Doors locked in compliance with the current regulations.

Prevent unauthorised personnel from handling the machine.

Single key for all locks.

The best technology



CELLULAR CONCRETE PUMP MODEL DGF 1

Designed specifically for cellular concretes pumping. All internal parts are geometrically manufactured to prevent depositions of concrete, to minimise wear and corrosion. Watertight seal without losses or periodic adjustments: Zero losses and zero air entry. Independent and automatic lubrication and refrigeration circuit. Can function in very severe conditions and still provide maximum performance. Cleaning is performed by a final pumping with water. It can take on overage approximately 100.000 bags of cement between checks with no intermediate maintenance. No foreign objects or impurities ever enter the interior due to the 3 safety filters: In the mixer, in the water intake and in the additive intake.



Regulation of air flow

Next to electrical switchboard. The complete scale has a wide range of regulation. For daily normal work, it is set to between 1,5 and 4. The maximum position is only used for cleaning the equipment.



Regulation of cellular concrete flow

The complete scale has a range from a min of 1 to a max. of 5. Changing the speed of the cellular concrete pump: Operation with a crank. All lids and protective covers are constructed in stainless steel.



1

FORMING SLOPES IN ROOFING

- 1 CC 250 in the roofing. An expansion gap of low density polystyrene has been placed between the partitions.
- 2 Another piece of work carried out with CC 250 in the covering and with slopes. It is advisable to use low density polystyrene in all the perimeters as expansion gaps.
- 3 A finished piece of work. It was carried out at high performance, with several workers spreading the pumped cellular concrete type CC 225. The process of placing the impermeable layer can be seen in the photo on the concrete with a geotextile intermediate.



2



3



4

STREETS AND SQUARES OUTDOOR APPLICATIONS

- 4 A job with CC 300 in squares and streets. The finished and levelled C.C. can be seen in this photo at its height. The surface receiving pressed concrete. The cement mixing lorry is seen manoeuvring on the finished concrete. In these applications, this close-up may seem striking to the layman, above all bearing in mind that the wheels are not in the least bit marked.
- 5 Buried pipes of large diameter with C.C. in a side street of previous square. The height varies between 40-80 cm, underneath the streets and square is a parking area.
- 6 A view of the finished work passable by pedestrians and road traffic.



5



6

All applications of Cellular Concrete



C.C. AUTOLEVELLING IN BUILDING INTERIORS

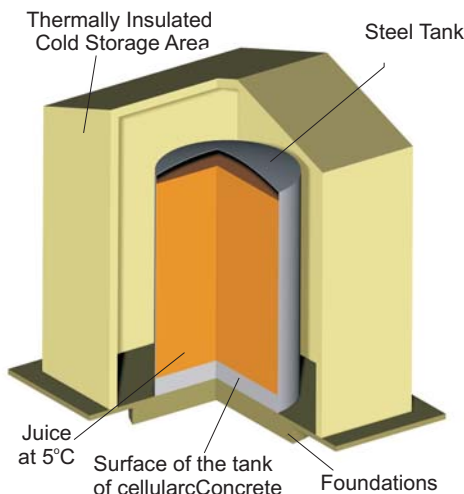


- 7 When using the chemical SAN-5, pumping and spreading of the C.C. autolevelling is fast and simple. The finish is exceptional. The rest of the process is the same as that for the AG-1 additive. It is now ready for the final paving desired.
- 8 Tripods for levelling are situated throughout the zone to be filled with autolevelling C.C. This C.C. can be used as a covering for service piping: Electrification, drinking water, waste water, floor heating surfaces, etc.
- 9 Autolevelling application of C.C. over large surfaces. The partitions are used as guides for the required level.

SPECIAL APPLICATION: TEMPERATURE INSULATION FOR LARGE TANKS



- 10 The end of the work and finish of the interior of one of the tanks in a fruit juice factory. The tanks are made of steel, each with a capacity of 4.000 m³ and there are 6 of them in the interior of refrigerated premises set at 5 °C. The only location where there is a thermal bridge is at the bottom, in the foundations. To insulate it, a thermal insulation of HC 250 is pumped in an area 1 metre thick. Once finished and dry, it receives a welded and hermetically sealed steel covering throughout the whole of the tank perimeter.
- 11 The process is performed at high performance: 25 m³/h, so the bags of cement are piled close to the mixer to supply it easily and quickly.
- 12 An outer view of the tanks in construction before being covered in the refrigerated area.



Every customer receives the best and they must always demand it

The Cellular Concrete made "in situ" is a material widely used in construction that we define as a grout of water, cement, air and chemical additive. It is made on site, where it is then pumped and spread. There are many applications and therefore the physical characteristics of the different C.C. can change.

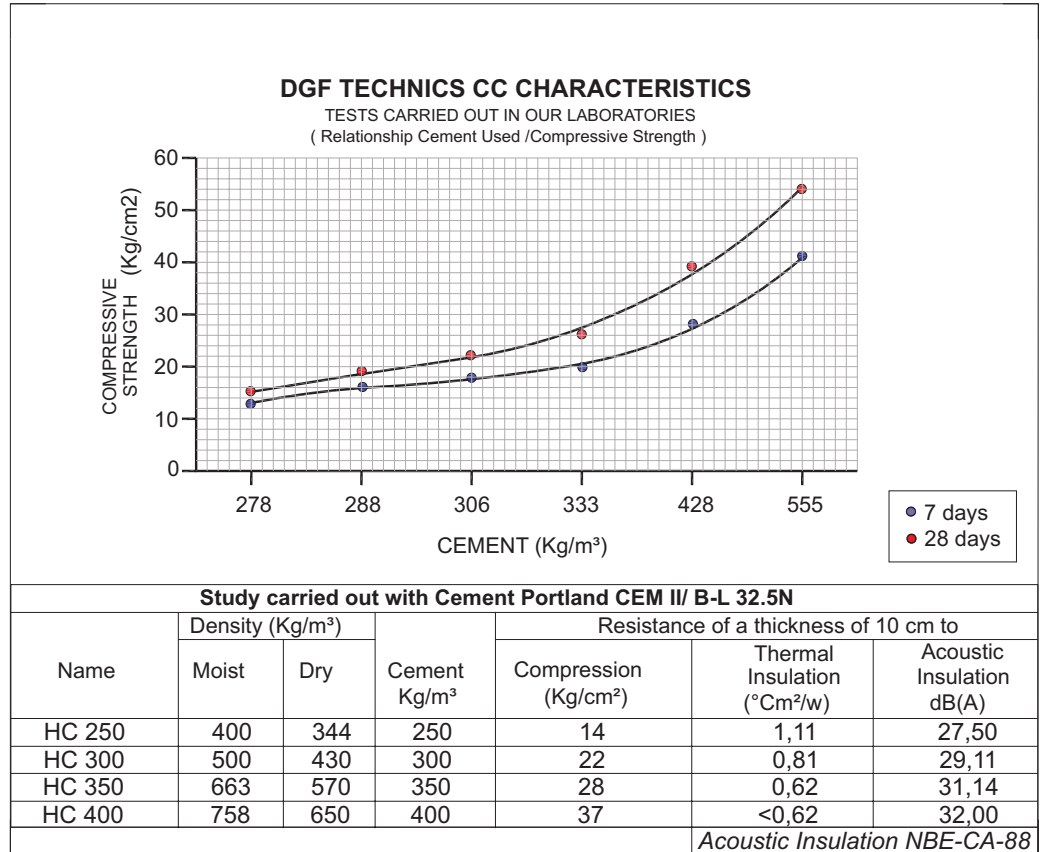
When we added the "Technical" term to that of the C.C., we were specifically referring to C.C. made with the AG-300/60 R equipment plus the appropriate **garcía fernández®** trade name foaming chemical additive for application to be carried out.

The application of the work performed with these two components: machine + foamer conforms to a unique method in the market that has been called the DGF METHOD.

With this method we basically obtain:

- A complete equipment, the AG-300/60 R that makes an uniform mixture at a high performance and the system of continuous pumping.

- Chemical additives that provide an identical, stable bubble which is capable of supporting the weight of the cement and not allowing it to precipitate to the bottom.



Cellular concrete is a material which consists of a solid cement matrix that contains lots of small air bubbles in its interior. The particles of solid cement matrix that contains lots of small air bubbles in its interior. The particles of solid material are bonded to each other by a large adhesive effect that produces a deformation on the sphere, in the contact surface between them. When a cross-sectional section of the material is observed using a magnifying lens (photos 1 and 2), a similar appearance to a bees honeycomb can be seen. This arrangement reduces cement consumption to a minimum, because the content of solid material is very small, as in nature where bees use a minimum amount of wax.

The unit form a three-dimensional reticular structure. This structural geometry contributes to the high compressive strength of C.C. From the thermal point of view, heat transmission through C.C. is much reduced, due the presence of a multitude of small and very fine reticules of hardening cement. This contains air enclosed in bubbles with a volume as sufficiently small as heat transmission not to take place via convection. Thus, the transmission of heat through them has to take place via conduction, and considering that air is a powerful thermal insulator, this means that, for heat to pass through cellular concrete, it must travel through a very long and complex path via the solid matrix.

In addition, cellular concrete is a good acoustic insulator, due to the transmission of sound is joined to the transmission of pressure waves through the material.

In C.C., sound waves lose energy whenever they cross an air cell. Therefore, the material behaves like an enormous absorbent sound blanket.

So that these three fundamental properties: Compressive strength, sound and thermal insulation are good, it is necessary for the bubbles to be very small and uniform. In turn, this is a direct consequence of the tensioactive properties of the chemical additive with which the cellular concrete is made. Thus, the use of a good additive prevents the precipitation of the cement once it is laid and until it is forged.

If, on the other hand the additive is of poor quality, and does not fulfil the minimum specifications necessary, in other words, the tensioactive properties are not adequate, large bubbles will form which break to form a cement conglomerate with large air occlusions. This results in them losing their good compressive strength and acoustic/thermal insulation properties (photo 3).

The first consequence of the above is that the cement precipitates, resulting in a heterogeneous concrete of variable density and discontinuous properties between the surface and the bottom. In other words, there will be a large amount of cement at the bottom and little on the surface, which always results in an undesirable product: very hard in the layers at the bottom and fragile on the surface. In addition, it results in a high consumption of cement.

Due to this mixture of excellent characteristics, it is a material recommended by all architects and is increasingly included in construction specifications for new work projects and those of renovation.



QUALITY CONTROL

By only weighing the CC, we can check the moist working density and with the tables provided can read off the rest of the properties (compressive strength, sound and thermal insulation, etc).

Figure 2. Graphical representation of the behaviour of a poor quality CC. Mixing with inadequate machinery and a chemical additive of poor tensioactive properties causes a precarious compressive strength, with a fragile superficial layer, air occlusions in bubbles which are broken forming a cement conglomerate with large holes. Heterogeneous section and with high cement cost. No insulation properties.

Figure 1

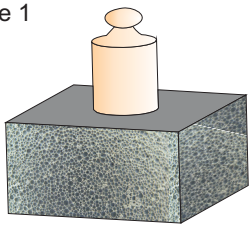
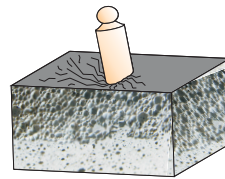
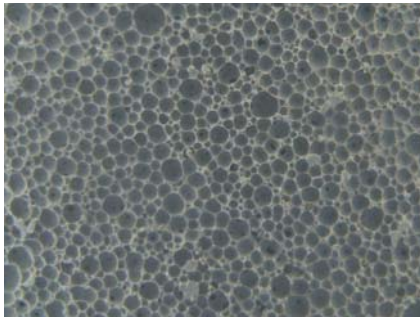


Figure 1. Graphical representation of the behaviour of a technical CC. Excellent compressive strength, low cement cost. Air occlusion in uniform bubbles and with reticular structure of homogeneous geometry throughout the whole section. Excellent thermal and acoustic insulation properties.

Figure 2

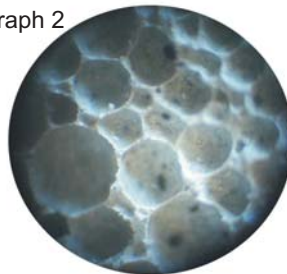


Photograph 1



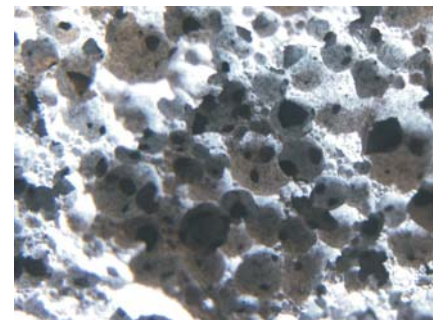
Cut section of technical cellular concrete sample (CC 250). Photograph at 5 times magnification.

Photograph 2



View of sample CC 250. Photograph at 30 times magnification. View of the complete bubble.

Photograph 3



View of CC sample of poor quality. 40 % of the bubbles are broken, deformed and of varying sizes.

CHEMICAL ADDITIVES FOR PERFORMING TECHNICAL C.C.

All our additives are classified, packaged and labelled according to applicable EC directives. They are subjected to different quality controls during the complete process of manufacture, packaging and storage.

Everything we manufacture is laboratory tested to ensure the formulations are homogeneous, clean and free of impurities, with the appropriate degree of foaming ideal that they will produce top quality technical CC with closed, well-formed bubbles, and be homogenous throughout the grout.

We also test physical properties of the CC using laboratory test pieces to certify that our clients are going to obtain the required characteristics: Compressive strength, Acoustic and Thermal Conductivities, Ageing, etc. Each pallet is accompanied by its corresponding Technical Card and Safety Sheet.



AG-1
Average Consumption
1 l/m³.



SAN-5
Average Consumption
1,5 l/m³.

At your Service

DOSIFICADORES *garcía fernández*® , as a manufacturer of AG-300/60 R and chemical additives for cellular concrete types AG-1 y SAN-5 has the resources necessary to provide the appropriate treatment and care for your customers and their machinery.
Our facilities are equipped with the technology, machinery and tools necessary so that, along with our qualified personnel, we can provide the appropriate services to satisfy your every need.

Initiation and Induction Course

The purchase of an AG-300/60 R includes and induction course for its correct use given by an engineer of our company. The customer chooses the place to be given the course and it is always previously agreed for both parts. Initiation is carried out on the actual work site, manufacturing CC for practical purposes and not in premises using technical explanations or small demonstrations. It consists of a complete working day which is sufficient time to assimilate the suitable handling of the equipment and its maintenance.

Specialised and Customised Technical Attention

We answer all your queries. Your trainer will be one of our team of engineers.

- Questions about the Equipment
- Information on Additives
- Advice on the Practical Accomplishment of any "in situ" Application of C.C.

Every now and again we inform you about regulations and application guidelines, new practical applications, studies in our and Collaborators' Laboratories, Technical Publications, New features, Information of Interest...

Envío de Repuestos y Aditivos

Todos los repuestos originales y aditivos en stock siempre que los necesite. Servicio de envío en el mismo día en que se ha realizado el pedido. Buscamos el mejor medio y servicio para realizar los envíos con eficacia, rapidez y al mejor precio.

Rapid and High Quality Repairs

Our workshops are staffed with professional personnel trained within our company. Original spare parts and suitable tools are always used so that we can guarantee all repairs. Express repair service: Barring exceptional cases everything is done 24 hours.

Complete Guarantee

We take responsibility for any possible failure or defect in manufacture. Spare parts and labour are guaranteed for 6 months.

This is the only one of our services which is rarely used by our customers. This is because quality is important for DOSIFICADORES *garcía fernández*® and because we improve our service every day.

Export Department

We are available for you at all times to facilitate any procedural difficulties.
We shorten distances with our quality personal care.

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All the information, data and technical characteristics that appear in this document were accumulated up to the date shown below, therefore this document is for information only, and our machinery is liable to be changed in the light of improvements and technological progress.

F.I.: Abril 2.008



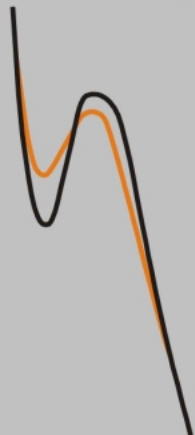


Equipment for the manufacture
of technical cellular concrete.

AG-300/60 R

Main Technical Specifications
and Equipment.

DOSIFICADORES®
garcía fernández



April of 2.008

AG-300/60 R

MAIN TECHNICAL PERFORMANCES

A continuous production and pumping system

Main supply line: (III ~) 220/440 V 50/60 Hz ⁽¹⁾

Nominal power: 10 Kw. (13,5 C.V.)

Power consumption when charge: 7,5 Kw.

Nominal Amperes: 23 A/380 V. 40 A/220 V.

Amperes consumption when charge: 14 A/380 V. 24 A/220 V.

Electric generator needed (when there is not main supply line in work): 20 KVA

Weight in Kg of towed machine

Total machine: 608

In curb weight (with all auxiliary parts except outlet C.C. hoses and water tank)

Total admissible as maximum: 750

Total payload: 142

Maximum on quick ball: 75

Weight in Kg of mixer

Total with all its elements (filter and grid): 142

Weight in Kg of outlet C.C. hoses

44 (every piece; it has 2 pieces of 40 m each one)

Weight in Kg of the rest of elements

77 (water tank 1.000 l and splash-back protection plate)

PRODUCTIVITY		PRESCRIPTIONS				Relation water/cement
Production (m ³ /h)		Designation DGF of CC	Moist density (Kg/m ³)	Dry density (Kg/m ³)	Cement consumption (Kg/m ³)	
Minimum	Maximum					
8,8	21,1	HC 250	400	344	250	63/100
7,1	16,9	HC 300	500	430	300	63/100
6,2	14,8	HC 350	570	663	350	63/100
5,4	13	HC 400	650	758	400	63/100
Test carried out with cement Portland CEM II/A-M (V-L) 32,5 N type. With other cements with other features, the productivity of the machine would be variable $\pm 10\%$. Dry density would vary a little too, doubt to same reason.						
Production of the machine would be programmed easily to adapt it at work conditions.						

It is possible a pumping high upper to 100 m

Recommended pumping high is 60 m

The technical C.C.⁽²⁾ more usual in standard applications are between CC250 and CC400. It is possible to obtain other types of CC to specific applications: Between CC125 and CC500.

MAIN STANDARD EQUIPMENT

MECHANICAL ELEMENTS

Cellular concrete pump	DGF type special for grouts. Maximum pressure 25 bar. Limited in the machine of 14 bar. With flow regulator.
Water dosing pump	Manufacture in stainless steel. Controlled by microprocessor from electric switchboard. View in LCD screen.
Chemical additive dosing pump	Manufacture in special polymers for chemical additive. Controlled by same microprocessor and screen than water pump.
Air compressor	15 bar of pressure. Limited in the machine up 10,5 bar. Regulation from switchboard. Work pressure with a automatic regulation.
Mixing	Manufacture in stainless steel. 500 l of capacity. Produce homogeneous grouts without lumps and a little quantity of water; R: 60/100.

(1) Equipment purchased in Spain

(2) C.C.: Cellular Concrete

Mechanical Protection Elements

Clearer filter air compressor

Protector filter water pump

Protector filter additive pump

Protector grid cellular concrete grid

Mechanical Safety Elements

Unload valve compressed air

Safety valve air tank

Safety valve compressor

Antireturn valve of grout to compressor

Double antireturn valve of grout to pump

Electrical Safety Elements

Protection against grounded leakage current (30 mA)

Protection against short circuiting on all lines

Engines overload protection

Low voltage operation and marking: 24 V

Protection against incorrect rotation of engines

Protection against phase failure in main supply line

General electric broke lock

Emergency stop push

Regulation and Signalling Elements

Regulator of air flow (in switchboard)

Dispenser of water in LCD screen (Programming of 1 by 1 l.)

Dispenser of chemical additive in LCD screen (Reg. 10 ml)

Regulator of pumping flow

Voltage signalling (220-380V) ⁽¹⁾

Incorrect engines rotation signalling

Phase failure signalling

Engines run function signalling

Engines overload signalling

Chemical additive finished acoustic signalling

Pumping pressure manometer

Activation Elements

Compressor stop-run push lock

C.C. pump stop-run push lock

Mixer stop-run push lock

Additive pump stop-automatic selector

C.C. Pump stop-switchboard-remote control selector

AG-300/60 R

SUPPORT STRUCTURE SUPPORT

Reticular tube structure. Light and strong

Tyres: 175.70.R 13

2

Spare wheel

1

Third wheel or Jockey for small movements and manoeuvrings

1

Shock absorber system independent for every wheel. Large distance covered and variable flexibility.

Braking system with large section independent of vehicle carrying

Parking brake

Electric installation of lighting according EC directives

The machine is divided in individual compartments which are separated between themselves for distinguish every zone and for protect its inner elements

Doors with double lock (with normal and safety lock) to access to every machine's compartments.

4

Double door for electrical compartment

Big boxes locked in the front bottom part of machine to keep auxiliary and tools elements

2

Front top box for spare tyre, hoses, etc

1

Ringbolts to charge and lift the machine for crane lifting

4

MATERIALES AND FINISHES

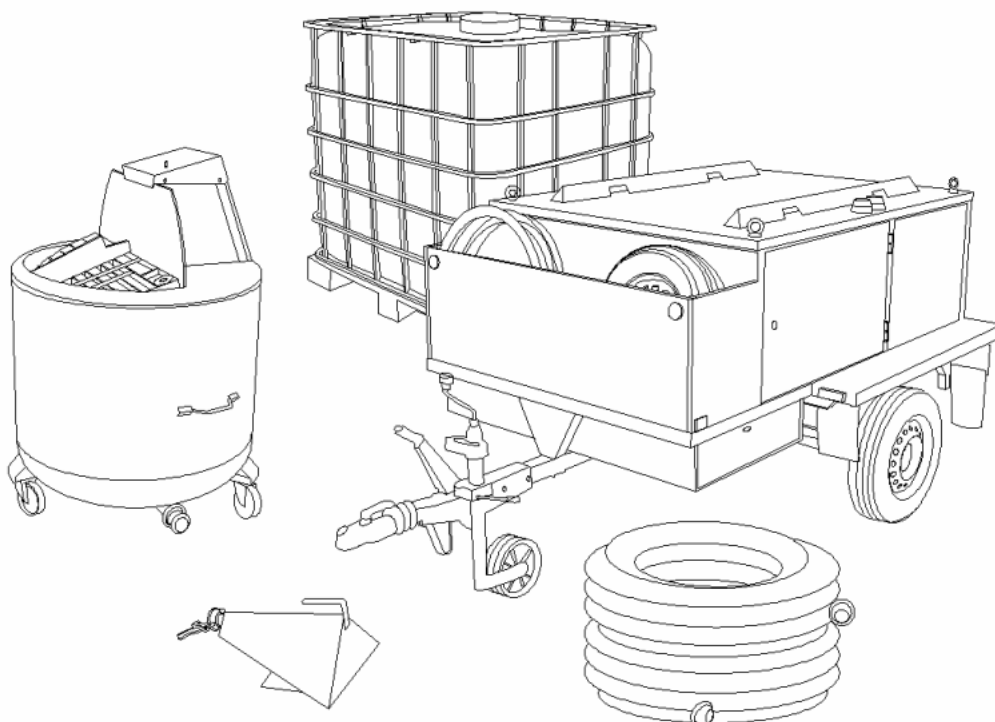
Stainless steel: In every element that have to support water, chemical additive and general contacts with strong level of corrosion

High resistance aluminium: In every part or element that needs be lighter. It reduces total weight in the equipment at this form

Tubular structure in steel. Anticorrosion treatment: Degreasing, phosphating, drying and oven dry painting. Yellow color RAL 1003. With all this it obtains a long life and resistance in the presence of external agents: sun, rain, dust, water, wind, etc.

MAIN STANDARD EQUIPMENT

D.G.F. designation of Technical C.C.:
CC follows for a number that point out the
quantity of cement.
Example: CC250 (250 Kg of cement per m³)



AG-300/60 R

STANDARD FULL EQUIPMENT LIST

1	Cellular concrete machine AG-300/60-R model
1	Mixer with filter, grid w/safety protection, engine and electric cable and plug
1	Caged tank 1000 l of capacity f/water, with level valve, auxiliary system of cleaning for c.c. pump and water pump uptake hose set up and installed in own tank
2	C.C. outlet hose with quick connection, Ø35 mm and length 40 m
1	Splash-back protection plate outlet C.C..
1	Water inlet Ø20 mm, with quick connection in one outside and 40 m. length
1	Water uptake hose with quick connection in outside and filter with valve in other side, Ø 35 mm and length 6 m (set up in tank 1.000 l.)
1	Water outlet hose w/quick connection in one outside and hook in the other side, Ø 25 mm and 7 m of length
2	Rakes to scattered and levelling of C.C. w/ stick and screws. Large (1 m) and short (0,5 m)
1	C.C. uptake hose w/quick connections in both sides, Ø35 mm and length 7m (black hose)
1	Tyre part
1	Chemical additive uptake hose w/filter, Ø 10 mm and length 6 m
1	Chemical additive outlet hose with hook elbow, Ø 8 mm and length 6 m
1	Unit of fuses (bag) into switchboard: 3 fuses 1A, 3 fuses 3A, light and allen lock tool nº 6
1	Bag kit o-ring and rubber ring for couplings outlet
5	Litres of air compressor oil (spare)
1	Wooden tool to set up C.C. pump belt
1	Main supply electric cable 4 X 4 mm ² 1KV, with plugs and 50 m. of length
1	Reduce device from 32 to 16 A.
1	Device 5P- 4P: 32-32A
1	Device 5P- 4P: 16-32A
1	Reversal device: Adapter to engines rotation reversal
1	Direct coupling plug
1	Water/chemical dosage button with 10 metres of cable and plug
1	Remote control with 50 m. of cable and plug
1	Air emulsifier antireturn
1	C.C. antireturn
1	Compressed air hose w/quick connections and valve, Ø 15 mm and 1 m. length
2	Cleaning brushes
1	Unit of C.C. hose couplings (outlet and inlet) –spare- with fixes
2	Slings with shackles
1	Long cleaning brush
1	Coupling ½" for tap work
1	Coupling ¾" for tap work
1	Coupling 1" for tap work
1	C.C. pump for cleaning accessory
1	Hook of C.C. hose
2	Keys for locks' machine (1 into switchboard, and other in one of ringbolts)
1	Instruction manual for working and maintenance
1	Technical Inspection sheet for vehicles (ITV)
1	Resume sep up document
1	Timetables block of densities, doses and consumptions
1	Manufacturer conformity certificate document (EC)
1	Warranty document

CHEMICAL ADDITIVES

FOAMER TYPE AG-1 FOR CELLULAR CONCRETES

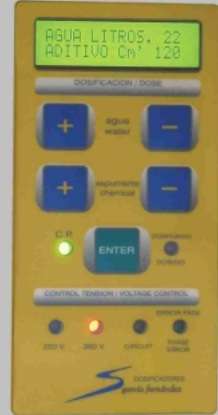
MAIN TECHNICAL FEATURES

Liquid surfactant	Package: Plastic tank black colour	Net weight pallet: 960 Kg
Black colour	Net weight per tank 30 Kg	Pallet measurements: 1 x 1,2 m
Density for 20 °C: 1,15 Kg/l	Homologated tank	Expiration of the product: 2 years
Viscosity for 20°C: 15 c.p.s.	Labelled by EC rules	Enclose documentation: Technical document and safety sheet
PH. 12	Package of 32 tanks	

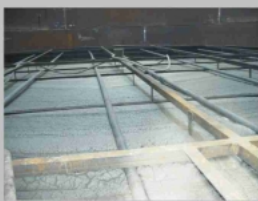
AUTOLEVELLING FOAM TYPE SAN-5 FOR CELLULAR CONCRETES

MAIN TECHNICAL FEATURES

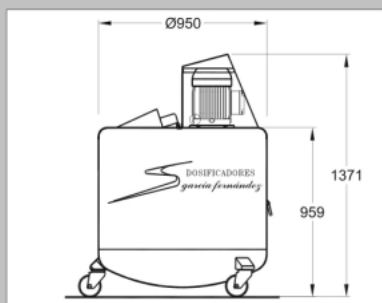
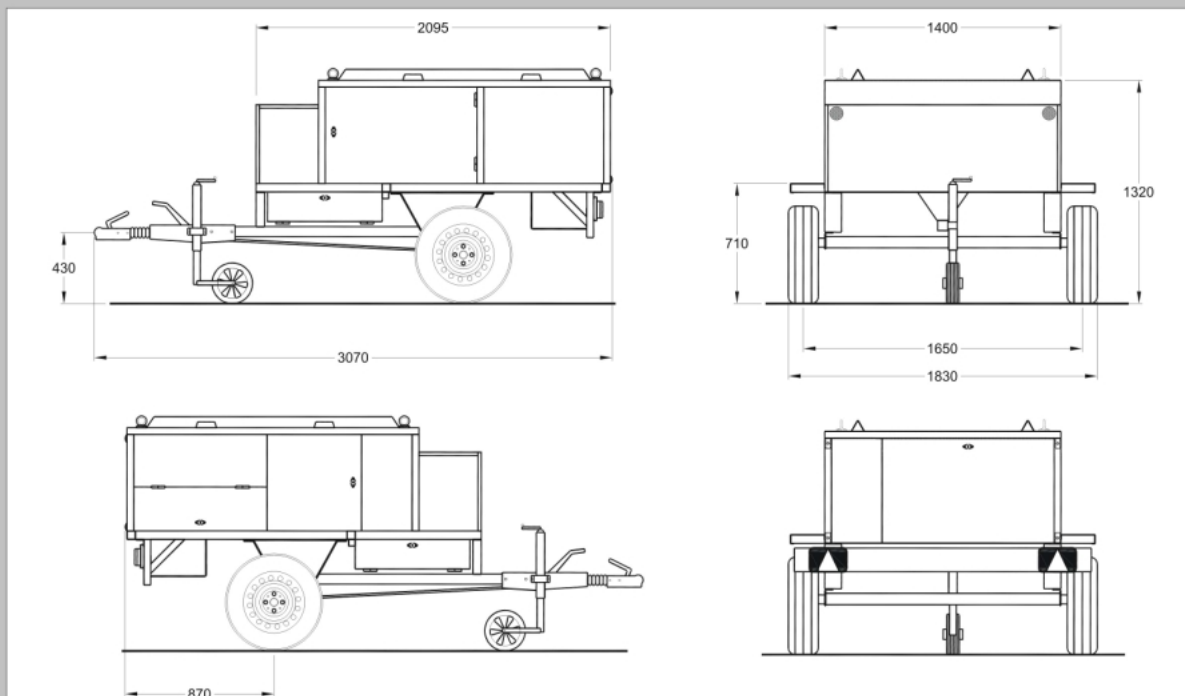
Mixing of surfactants	Package: Plastic tank black colour	Net weight pallet: 864 Kg
Colour: Lightly coloured	Net weight per tank 27 Kg	Pallet measurements: 1 x 1,2 m
Density for 20 °C: 0,97 Kg/l	Bid Homologated tank	Expiration of the product: 8 months
Viscosity for 20°C: 1-2 c.p.s.	Labelled by EC rules	Enclose documentation: Technical document and safety sheet
PH. 8,5-9,5	Package of 32 tanks	



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