

CONCRETE TECHNOLOGY Development of a smartphone app for easy determination of sieve curves
CONCRETE PRODUCTS Concrete paving blocks with geopolymer replacement
CONCRETE PIPES AND MANHOLES Innovative pipe and curing system provide the perfect combo for Dunn utility pipe plant expansion
PRECAST CONCRETE ELEMENTS Innovations that combine quality, precision and efficiency in production
MIXED AND COMPACTED Borrowing precast concrete elements instead of buying them

masa

Milestone to your success.

Our latest milestones increases the availability of your base-mix and face-mix mixers.



Optimized
Face-Mix Mixer
S 350/500

Just ask
the concrete heads!



ma-0000363

- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 

OCEM srl, 50126 Florence, Italy

A new hydraulic press to enlarge the product portfolio and market possibilities in Saudi Arabia

The Saudi Asas Almohileb company installed a new Ocem hermetic press for single layer tiles to fulfil with the increasing demand of high-quality tiles in the Country.

Established in 1974, Asas Almohileb has evolved over time to become an integrated entity encompassing several companies that have been developed and established under the umbrella of Suleiman Bin Saleh Al Mohileb and Partners Company. This entity has expanded its operations and activities through a steadfast strategic vision, drawing inspiration from the ambitious 2030 vision of Kingdom of Saudi Arabia government for a promising and prosperous future for the Country. With this ambitious vision, Asas Almohileb has diversified and expanded the company's activities geographically, catering to the needs of various regions, cities and provinces of the Kingdom to align with the comprehensive renaissance envisioned for the nation. Asas Almohileb takes pride in its ability to deliver the highest standards of quality and precision in the execution of integrated construction projects. Over time, the company has significantly expanded its operations to enter the realm of construction contracting, where precast concrete works have become a pivotal component in the construction and reconstruction endeavours. This cornerstone of the company's current endeavours in the field of general contracting is complemented by the establishment of supporting companies for construction activities, such as the wood factory, essential for the construction process, the iron and ceramic factory, and the precast concrete products company, contributing to the infrastructure of cities and suburbs.

These remarkable achievements in construction, precast concrete, wood, and iron industries could only enter the realm of highly productive production through the adoption of rigorous quality mechanisms and programs, enhancing the competitive edge in leading the field of construction. These standards have been established through an extensive cumulative experience of over 45 years in various foundational construction works, resulting in consecutive successes in the completion of numerous major projects in the Northern Border Region, Al-Jouf Region, and other cities of the Kingdom and the Arabian Gulf.

Asas Almohileb also prides itself on employing the latest technologies in several domains, including precast concrete factories, cement products, ironworks, woodworks, mosaic tiles, and raw material quarries, in addition to the construction and transportation company equipped with over 600 specialized vehicles and equipment.

Asas Almohileb has various factories located in different locations spread all over the Kingdom. In Arar City the Company manufactured high quality terrazzo tiles in double layer for indoor / outdoor uses with hermetic presses since more than 20 years.

Due to increasing demand of quality single layer tiles for indoor in the Country, in 2022 the Company decided to expand the capability introducing a press capable to produce also single layer tiles to work in parallel to the other press they have, an Ocem OPA1440/ES, to produce double layer tiles for indoor and outdoor uses.



Al Mohileb factory in Arar



Al Mohileb Tiles



OPA740/6
equipped to man-
ufacture single
layer tiles

Respect to the traditional double layer tiles, single layer ones - mainly used for indoor applications like flooring and walling - have the great advantage of the reduced thickness that means a reduced weight. In a wide Country like KSA, where distances - and so the transport costs - can represent an obstacle to expand the market, this thin product shall be a very good solution to expand the sales network and even to export to close Countries. I.e. a single layer tile size 400x400 mm with a thickness of 16 mm has a weight of about 5,5 kg while a same size tile with thickness of 32 mm in double layer weight around 12 kg; there is a very interesting saving in terms of raw materials and transport costs that are fundamentals in a sustainability and energetic footprint reduction future prospective like Vision 2030.

Single layer tiles are just the first layer of the traditional double layer ones. Raw materials are mainly: cement, marble chips, marble powder and water. In the traditional double layer tiles, the second layer, mainly composed by a semi dry mixture of cement and sand, has the function to absorb the water of the first layer and to compact the product. In single layer production, water is taken out from the material mix using different technologies and water suction systems. Single layer production requires also a more precise dosing of the mix to avoid differences in thicknesses. Ocem presses are equipped with "Wave" water suction system and the patented TAP dosers with "Tetra/Ultra" equipment to easy control and set the right quantity of material mix at any press cycle.



Detail of automatic doser TAP625

OCEM

ITALIAN QUALITY, GLOBAL MARKET

**A LONG HISTORY
FOR A NEW ERA**

**COMPLETE PRODUCTION
PLANTS, PRESSES
AND FINISHING LINES
FOR CONCRETE TILES
AND SLABS**

Firenze - Italy
Ph: +39 055 680753
sales@ocemflorence.com

www.ocemflorence.com



OPA740/6 pressing cylinder



Automatic fresh tiles extracting shovel SLIM240 and its cleaning rotating brush

To continue to follow the growing demanding of the market for very high-quality single layer tiles, Asas Almohileb addressed a request to Ocem asking how to improve the production and quality using the latest technologies.

Ocem, with its experience, willingly accepted the challenge to suggest the right machine to use and to install without major modifications on the existing plant and layout. The Ocem Mechanical and Electronical tech. depts. immediately started to analyse the existing machines positioning and electrical design to evaluate the necessary modifications and/or add-on and to permit Ocem commercial dept. to issue a dedicated economical proposal.

The technical analysis brought to a brilliant answer and the right press was pinpointed in an Ocem mod. OPA740/6. Model OPA740/6 is an Ocem medium size press that has 740 T of nominal working pressure and it is capable to produce single and double layer tiles with a max size of 750x750 mm. After a fair commercial negotiation the two Companies signed a contract with fixed terms and conditions to assure Asas Almohileb the perfect final result on due timing.

On March 2023 the press OPA740/6, specially coloured with the Customer's bespoke colours, was duly tested, packed and shipped to KSA and, after a quite long journey, it finally reached the Customer's factory in Arar.

To install and commission the new press an Ocem skilled technician travelled on site and, with the proactive help of Asas Almohileb staff, the press was smoothly and successfully installed with minor modifications in the area and with minor mechanical and electrical interfaces with the other existing machines like upstream batching plants and downstream tiles handling systems and finishing line. At today the new press is working properly producing single layer tiles in size 400x400 with full customer's satisfaction.

The press is already prearranged to produce sustainable single layer tiles and slabs like i.e. sizes 600x600 or 400x800 or even 350x750 mm.

These technical projects, where interventions are carried out on existing systems and structures, require constant and effective collaboration between customer and supplier both in the study, assembly and commissioning phases. Thanks to the excellent relationships between the technicians of Asas Almohileb and Ocem, the replacement operation was a real success and the whole system began to function again within the times and according to the methods foreseen in the study phase.

The press OPA740/6 has a production capacity of about 1000 m²/8h depending from tile size and, when duly accessorised, can produce double and single layer tiles for indoor and outdoor. Within wide Ocem range of presses, that starts from the smallest model OPA540 up to the biggest press at today on the market model OPA1480/6, model OPA740/6 is a "medium size" press and represents the ideal solution for Customers like Asas Almohileb who need to have a flexible press capable to produce big sizes of tiles, easy to use, with a quite relevant production capacity but without significant investments.

Thanks to its dedicated software and HMI (Human Machine Interface) OPA740/6 is really easy to use even for unskilled operators. All the press functions are clearly showed on the big touch screen colour panel where is possible to set, program and check all the press and accessories functions. As option it is possible also to have a dedicated hardware and software OPLA¹ permitting operators and owners a remote control of the machine production parameters even on mobile devices with a dedicated app.

Ocem is always at disposal of its Customers for any technical and commercial evaluations of bespoken solutions like the one presented by Asas Almohileb that permits to Cus-



Water suction system „Wave“ for the manufacture of single layer tiles Difference between double and single layer tiles

tomers the integration of new technical solutions inside existing plants or structures. In this specific case it was just an hydraulic hermetic press but Ocem can supply also customized complete turn-key plants including also surface finishing lines like calibrating/grinding/polishing, brushing, shotblasting, etc. for tiles, pavers, blocks both in wet and dry mode.

Thanks to this new and up-date Ocem press, Asas Almohileb is now able to fulfil with any market requests for high quality double and single layer tiles as well as expanding product portfolio and market geographical range following the future Vision 2030 of the Kingdom. ■

FURTHER INFORMATION



Asas Almohileb
ARAR factory, New Industrial Area
Turiat Road, Arar 91411, Saudi Arabia
T + 966 46692442
info@almohileb.net, www.almohileb.net



Ocem srl
Via Gran Bretagna 107, 50126 Florence, Italy
T +39 055 680753
sales@ocemflorence.com
www.ocemflorence.com

Professional translations for the concrete and precast industries



German ▪ English ▪ French
Spanish ▪ Italian

hjk multilingual communication partners

Ensener Weg 16 Phone: +49-2203-53581
51149 Cologne www.hjk-mlcp.com
Germany mail@hjk-mlcp.com

Concrete Pen
Utility model registered by CPI worldwide

Discover the new Concrete Pen!

- » New design
- » Enhanced surface quality
- » Personalization now possible in precise color printing



www.concretepenfactory.com



ITALIAN QUALITY, GLOBAL MARKET

Via Gran Bretagna 107, 50126 Firenze Italy

Ph: +39.055.680753

www.ocemflorence.com - info@ocemflorence.com