

RDB-ELSEIF Company Ltd., 11422 Riyadh, Saudi Arabia

Bringing together Italian expertise and regional commitment

الجمع بين الخبرة الإيطالية والالتزام الإقليمي

The pedigree of Italy-based RDB Group is pivoted on a century of synergy that right from the start was at the forefront of revolutionizing construction systems and the building industry in general. Breaking boundaries inevitably responded to the quest for modern architectural trends that came to rewrite the urban style of today's ever-evolving cities and actually redefine urban landscapes. It is therefore no surprise to see RDB Group still spearheading the design, production and installation of pre-fabricated structures for industrial, commercial, residential as well as logistical use. RDB specializes in three major spheres; namely the production of precast concrete elements, prefab floorings and cellular concrete (Gasbeton®).

يرتكز نسب مجموعة آر دي بي ومقرها إيطاليا على قرن من تضافر الجهود منذ البداية وكانت في طليعة ثورة نظم البناء وصناعة البناء بشكل عام. كان كسر الحواجز حتمياً للسعي لإتجاهات معمارية حديثة مثل التي جاءت لإعادة كتابة النمط العمراني للمدن اليوم وإعادة تحديد فعلياً للأراضي في المناطق الحضرية. ولذلك فليس من المستغرب أن نرى مجموعة آر دي بي لاتزال ترأس إنتاج وتركيب الهياكل الجاهزة الصناعية منها والتجارية والسكنية وكذلك لوجستية. آر دي بي تخصص في ثلاثة مجالات رئيسية، وتحديدًا في إنتاج عناصر الخرسانة سابقة الصب والأرضيات والخرسانات الجاهزة (Gasbeton®).

Indeed RDB today stands as a benchmark of quality precast elements that also embrace energy saving characteristics – clearly showing sensitivity to contemporary 'green' buildings.

The influence of RDB Group is easily manifest in the 12,000,000 houses and over 30,000 companies which were built utilizing the Group's famed prefab products. Furthermore, with 18 branches and 200 retail outlets, the company ensures that it reaches out to both its established and prospective clientele in Italy.

Ever open to new opportunities, in 2008 this leading Italian company set up a joint venture with El SEIF Investment Company a subsidiary of the El SEIF Group. The resulting RDB-ELSEIF Co. combines Italian tradition and expertise with the prominent market presence El SEIF Group enjoys in Saudi Arabia.

Since RDB-ELSEIF Co. is specifically committed to take the lead in precast concrete solutions in the region, it takes pride in introducing innovative systems of international repute. In line with this vision, the aim the joint venture was to build a state-of-the-art precast factory in

Al Karjh, south of Riyadh. To realize this dream RDB-ELSEIF Co. had to look out for a number of suppliers that would secure the setting up a successful factory with a prime focus on producing precast elements.

Nordimpianti's extruder technology stood out early during the selection process and the decision to partner up with a company that is synonymous with machinery which produces top quality hollow core slabs proved no surprise. A number of key features mark Nordimpianti's extruder technology. These include low maintenance costs because of Nordimpianti's attention to detail. For instance the screw and sideformer movement transmission is completely encased and immersed in an oil bath. This means that apart from the gears, bearings, shafts and chains being constantly lubricated to achieve a long life and smooth operation they are also protected from the harsh working environment of a prefabrication plant. Another plus point is the rapid replacement of the forming insert due to the intelligent design of the couplings. Furthermore, the Extruder can be easily modified to increase the thickness of the lower part of the panel to attain certifiable fire resistances of up to 180° Celsius.



The Nordimpianti extruder machine in full swing



The Marcantonini fly and casting buckets



The Marcantonini horizontal batching plant

In all, Nordimpianti supplied all the components of its Extruder technology to enable RDB-ELSEIF Co. manufacture slabs with heights from 150 mm to 500 mm. In addition, Nordimpianti supplied its 500AM multiangular saw, a versatile machine capable of cutting precast concrete elements up to 500 mm high at any angle. RDB-ELSEIF Co. also invested in Marcantonini's well known concrete batching plants and automatic concrete distribution systems, specifically 3 planetary mixers of 2.5 m³ capacity.



A close up of the Marcantonini casting bucket



The MEP automatic stirrup bender machine (Format 16HS model)

Marcantonini technology also ensures optimum control of consistency and quality concrete throughout the mixing phase for all kinds of prefabricated elements so that perfect results are guaranteed. Furthermore, typical of all Marcantonini equipment, the surfaces are specially designed to prevent all possibility of residue pile-up so as to minimize spillage as well as facilitate cleaning and maintenance. Marcantonini also provided fly and casting buckets to ensure a fully customized precast production and smooth running of the facility.

To complement a fully in-house production and supply of precast elements RDB-ELSEIF Co. decided to go the proverbial extra mile and purchase an automatic stirrup bender.

At this point the choice of a MEP Format 16HS capped the joint venture's capital outlay. This ultra user friendly and long life machine minimizes the time for set-up adjustments, significantly reducing wastage while guaranteeing perfect straightening of flat stirrups.

The combination of superior end products and efficiency are a clear trump card of MEP's cut and bend machinery and no doubt this contributes (even through an ancillary manner) to the first-rate precast elements which RDB-ELSEIF Co. are providing.

No spotlight on RDB-ELSEIF Co. would be complete without referring to it being one of the main contractors in the current construction of Princess Noura Bint Abdulrahman University for Women in Riyadh. Its involvement in this historic project points to a joint venture that is riding high on success.



An aerial view of the RDB-ELSEIF hollow core factory

FURTHER INFORMATION



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