

Progress Maschinen & Automation AG, 39042 Brixen, Italy

Rebuilding of infrastructure in Iraq with automated production

With prefabricated concrete elements many building projects can be realized quicker and safer. With the rising need of affordable housing and new infrastructure, this way of building is making a remarkable impact in Iraq for the better.

Automation is benefitting the building industry

Fourth Dimension Group has now invested in new machinery and software from Progress Group to modernize their reinforcement production. Now they can be even quicker and more accurate in the production of precast elements for different housing and infrastructural projects. The necessary reinforcement can be produced fully automated with the new mesh welding plant and stirrup bender in order to provide high quality elements such as wall panels, beams & columns, hollow core slabs, girders and planks.

The future for affordable construction

Is building with precast the future for affordable construction? "Yes.", says Precast Manager Osama Shatat and adds: "The

main advantages of precast technology are quality, speed of construction and a value-for-money product. We all know the proverb "Time is Gold", so the future of building depends on precast." says Mr. Shatat. The use of such technology helps in saving up to 60% of time compared to similar projects using other construction methods and technologies.

Many impactful projects have already been installed with the precast elements from Fourth Dimension:



Automating the reinforcement production

Fourth Dimension Precast invested in a new M-System Blue-Mesh® mesh welding plant and an EBA stirrup bender from



Al Ghadeer 1 village with 3,200 houses & Al Ghadeer 2 Village with 1,200 houses which was commissioned by the Al-Najaf Al-Ashraf Investment Commission in response to the increasing demand for affordable housing.



Karbala University Hospital is for the benefit of the Ministry of Higher Education and Scientific Research in the holy governorate of Karbala.



Shaab District Overfly Bridge. The bridge has four lanes, and half a kilometer long.



The Lake city project near Baghdad Airport comprises 1,466 villas as well as 26 of Fifteen-floor high rise buildings.

Progress Group to obtain their goal of saving time without compromising on quality. The tailor-made mesh for critical architectural and structural design can now be produced fully automated. This improves the production process and makes it possible to deliver within the deadlines. The machinery is easy to operate, the software feature is integrated, and the precision of the performance is remarkable according to the responsible at Fourth Dimension. With the "stabos" software solution integrated in the machinery the collection and evaluation of production data can be done automatically. With the centrally collected data, the productivity and the quality of the plant has been additionally increased.

High energy efficiency and advanced technology

"We chose Progress Group for our progress, because we noticed that their machinery has high energy efficiency and advanced technology, is cost efficient as well as easy to maintain. Also, the machines do not need a lot of space and have a low staff requirement", states Mr. Shatat and adds: "I would 100% recommend the machinery and the company. They are always available for us which is a big benefit."

A matter of confidence.



Stressing of stay cables

PAUL supplies

- Prestressing installations incl. planning work
- Anchor grips
- Prestressing machinery (single-/multi-stressing jacks)
- Strand pushing and cutting equipment
- Automatic prestressing machines for railway sleepers
- Prestressing equipment for bridge construction (prestressing cables and stay cables)

The experts in
Prestressed Concrete Technology.
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The M-System BlueMesh is automatically welding the bespoke mesh according to plan with 4 flexible welding heads.



The flexible tailor-made reinforcement for the precast elements can be produced fully automated with the new machinery.

Fourth Dimension Precast is a subsidiary of Fourth Dimension Group and is the leading Baghdad (Iraq) based group focused on building material and construction related industries. Fourth Dimension Precast has been manufacturing precast products since 2002.



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The EBA stirrup bender is providing a just-in-time production of stirrups from coil.

FURTHER INFORMATION



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