



3DCP GROUP



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The construction revolution has arrived...

"3D printing, automation and digitization are becoming more and more important in construction for several reasons. Firstly, we can build faster and with completely new forms than before, and secondly, we can minimize waste and use fewer materials."

- Kasper Lyngø, Ph.D - Deputy head of department at the Department of Construction and Building Design at Aarhus University



Who are we ...

3DCP GROUP is an association of engineers, building designers, architects and print experts. Behind us, we have more than 100 years of combined experience from the conventional construction industry. We thus have the capacity to carry your project through confidently - from the first idea to a finished building.

To the point...

The construction industry is in many ways rooted in the past, which brings some very positive aspects with it - but unfortunately also contributes to some of the challenges that the built environment faces today.

The anchoring in the past means, among other things, that we have some healthy and strong traditions for building style, methods and quality. On the other hand, this also means that the industry is very conservative and has seen a general low development in efficiency compared to other industries.

The last major construction revolution saw the light of day more than 50 years ago, when concrete elements began to be prefabricated. This is a technology that has largely helped to shape how we think about construction today - a development that has generally had a great influence on the efficiency of construction, but unfortunately often at the expense of freeform design and the beautiful details that adorn the buildings of the past.

3D printing of buildings is the next quantum leap, in the series of revolutions, in the construction industry; a technology that makes it possible to further increase efficiency, and at the same time bring the free design and the unique details back into focus.

With automation and digitization, we can build buildings with freedom of form, at an affordable price and with a method that is gentle on both people and the environment. A 3D printer works

according to a grid system, which means, that for the printer there is no difference whether a straight, curved or wavy wall is to be printed. In other words, the printer is not limited by the traditional box geometry that dominates in conventional building methods and materials such as bricks, blocks, concrete elements, skeleton walls, etc. It therefore opens a wide range of doors for the architects to think outside the box - and think about the human being.

The work is mainly carried out by a robot, which means that the majority of the strenuous work, such as heavy and repetitive lifting, no longer has to be done by humans. Automation therefore obviously has a positive effect on the working environment, but the technology actually also opens the door to a potentially cleaner and greener construction process. In the future - we must therefore build with our heads rather than our hands.

With 3D printing technology, we can optimize our resource consumption by applying finely dosed material with millimeter precision, in order to use significantly less of it - without compromising on quality. In this way, we can reduce the amount of concrete by 70% compared to a similar element construction.

The precision that the technology brings also opens up the possibility of bringing a high degree of detail back into construction, as you can construct everything from detailed reliefs to unique column structures with the printer.





What we offer...



Turnkey contract & raw house contract for private projects.



Turnkey contract & raw house contract for enterprise projects.



Custom-made concrete elements for unique solutions



Drawing, planning and execution

Do you want to hear more?

Tell us about your project!

We can be contacted by email, phone, through our website or on LinkedIn - then together we can explore the possibilities 3D printing can add to your construction project.



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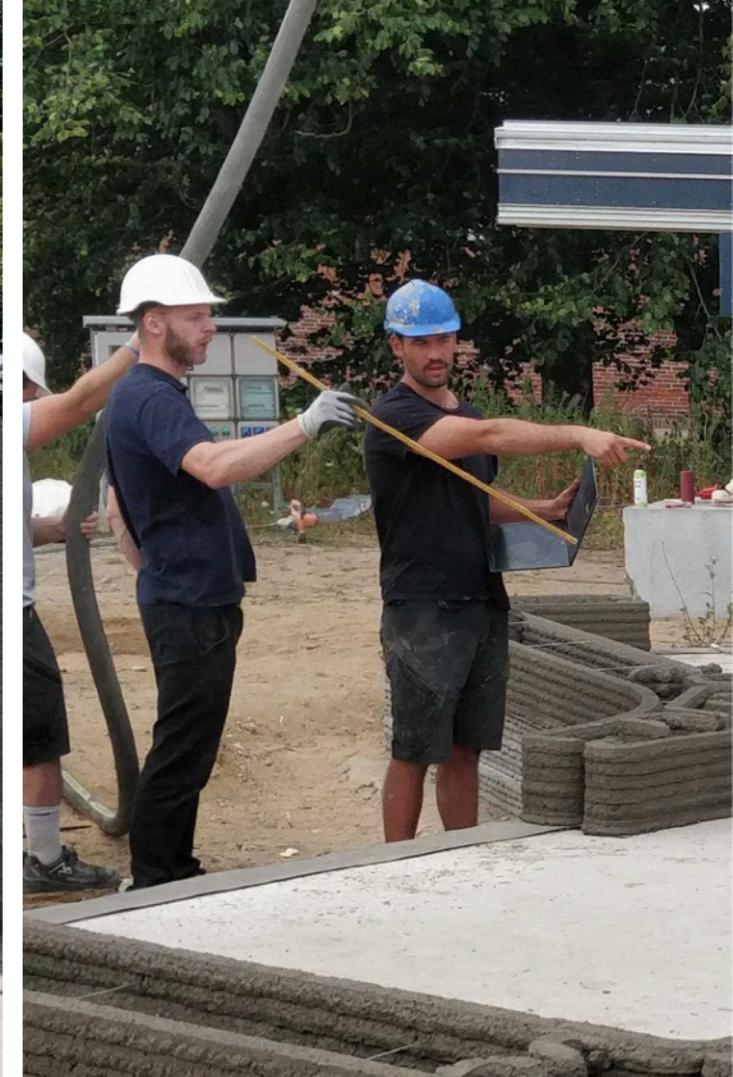
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