



Danish Advanced Manufacturing Research Center

Global Manufacturing Festival

- The chance to find out what you do not know

Global Manufacturing Festival 2018 took place for the first time in March, in collaboration with Business Region MidtVest, AU Herning and the local business councils. The festival that was located partly at DAMRC Technology Center, was characterized by inspirational speeches by a variety of personalities from home and abroad, which in an informative, provocative and inspiring way, put the technological growth of the future on the agenda.

Among other things, companies were provoked by an invitation to drop some of the seriousness and instead boost the motivation for innovation by minimizing focus on structure, operation and costs. Gijs van der Velden from MX3D expressed: "True innovation is not about thinking linearly. It's about daring to think the impossible - and make it happen, " and he continued, " This could be the motivation for participating in the next Global Manufacturing Festival - to find out what you do not know yet! "

Also the youngsters were represented among the participants- Robert Nielsen and Johan Stensig-18 and 21 years old are both apprentices as industrial technicians. They have previously participated in DAMRC events which made it a easy choice to attend the festival. "I had no doubt that the time would be well spend since I have had only good experiences with attending events at the DAMRC," Robert says, apprentice at VOLA A / S in Horsens, where he primarily

works with barrage and adds: "Every time I've been surprised by DAMRC's logical approach to creating value into the work I'm dealing with"

On the question if they would recommend others to attend the festival next time, Robert replies: "Yes, absolutely. I've actually already recommended it." He was supported by Johan: "It's about being well prepared for the future to come. You have a lot of opportunities here. "

Planning of Global Manufacturing Festival 2019 has already been launched and we are looking forward to offering the industry a boost of the newest technical knowledge and enhanced innovation.



New members

As part of an overall agreement with Business Region MidtVest, another 3 municipalities - Skive, Struer and Lemvig - have chosen to become a part of DAMRC, thereby enhancing focus on productivity and competitiveness in local businesses.

Together, the 7 municipalities in the Business Region MidtVest: Herning, Holstebro, Ikast-Brandø, Lemvig, Ringkøbing-Skjern, Skive and Struer municipalities will work to create better conditions for growth through an ambitious partnership with the business community's regional players. The manufacturing industry witnesses a transformation in which new digital technologies change the way we produce, distribute and reuse products and materials.

In a comprehensive effort with the help of DAMRC, the transition is supported by the opportunities offered by smart technologies and sustainable solutions.

Furthermore, the aim is to increase knowledge, skills and awareness of the possibilities of new kinds of production and market trends, thus promoting the motivation for the area's innovation and entrepreneurship to continue on new and more digital tracks.



DAMRC InnoBoosts the Industry!

Do you have an idea for a new product, a new service, or can you

produce smarter or cheaper?

Then the InnoBooster program can support your business development and provide you with financial assistance to make the idea a reality. It's easy and simple - and DAMRC is with you all the way!

When everything is running fast and the focus is on the daily operation, it might be difficult to find time and resources for innovation and development activities. The good ideas are never laid down on the table but are kept in the drawer - but it does not have to be like that.

With InnoBooster, you can get support for DAMRC investigating deeply and nerdy into a problem, solving issues you're stuck with or just ensuring that your development is always on track.

At DAMRC, we are very successful with the InnoBooster program and last year we accounted for almost 2% of all approved InnoBoosters throughout Denmark.

Please contact us , describe your idea and we will give you feedback and help you with the next steps!

Charlotte Frølund Ilvig, chi@damrc.com, 2030 4599
Leo Ravn-Nielsen, lrn@damrc.com, 6165 6620

FACTS:

- Innobooster is a support program under the Innovation Fund, which supports the development and innovation of small and medium-sized enterprises with state resources.
- Innovative projects can find support between DDK. 50,000 and 5 million, but up to 33% of your total project costs.
- The projects typically last from a few months and up to 2 years.
- Applications for support up to DKK. 500,000 are typically treated in 4 weeks.
- Major applications are processed in 3-4 months.
- Applications are received and processed on a regular basis except:
June 1st-15th. August as well
December 1st-15th. January



Collaboration allocates important knowledge and improved efficiency

A collaboration between DAMRC, Middelfart Business Center and seven local production companies optimized production processes by more than 40% on average.

"The aim of the program " Growth in Manufacturing Companies "was to help and inspire production companies to increase productivity and competitiveness by refining the machining processes and providing employees with knowledge and understanding of the process and when the process has been so successful, it is partly due to the fact that the participating companies and their employees became increasingly curious and committed along the way," Leo Ravn-Nielsen, Sales Engineer at DAMRC adds.

Tommy Madsen, supervisor in the mechanical department at Carl Hansen & Søn in Gelsted, also believes that the process has been worth the effort. Not least because the CNC machine machining grooves now works with improved accuracy and the machine making hooks for the Y-chair runs 32% faster.

Tommy states, "We were surprised that DAMRC came without any pre-knowledge of our company and was still able

help us make such significant improvements," but he does not hide from the fact that initially he was skeptical about the process, "My first thought was, what can they do, that we can not. We have the knowledge and experience with our machines. But that thought quickly became ashamed," and he continues, "I can only urge other production companies to participate in such a process. The results are hands on and we have received a lot of inspiration and useful knowledge."

The program "Growth in production companies" was carried out from January to March 2018 as a collaboration between DAMRC, Middelfart Business Center and seven local production companies, and the process has been financially supported by the Municipality of Middelfart.

The Prototype for Machining the Future Windmill Parts is Ready for Test Run

The INNOMILL development project is entering its final stage and theory turns into practice - how the very large wind turbine components of the future can be processed cost efficient by using flexible machines. This happens when the prototype of the lightweight and flexible milling machine of the future makes its first chips



As the size of the wind turbines increases, traditionally, even larger machining machines are required to solve the task. These machines are very expensive - both in purchasing and installation in the production.

The project INNOMILL is about finding an alternative solution by using smaller, removable machines that are mounted on the part located where it is to be machined. By dividing the part into small areas, a small machine can process a large part in multiple laps.

We have demonstrated that this can be done with the necessary precision. If high productivity is a issue, multiple machines can be used at the same time.

We carefully studying the prototype to get a good understanding of the dynamics and forces of the machining process. With this understanding, the tool paths can be adjusted so the machine produces subjects with high precision.

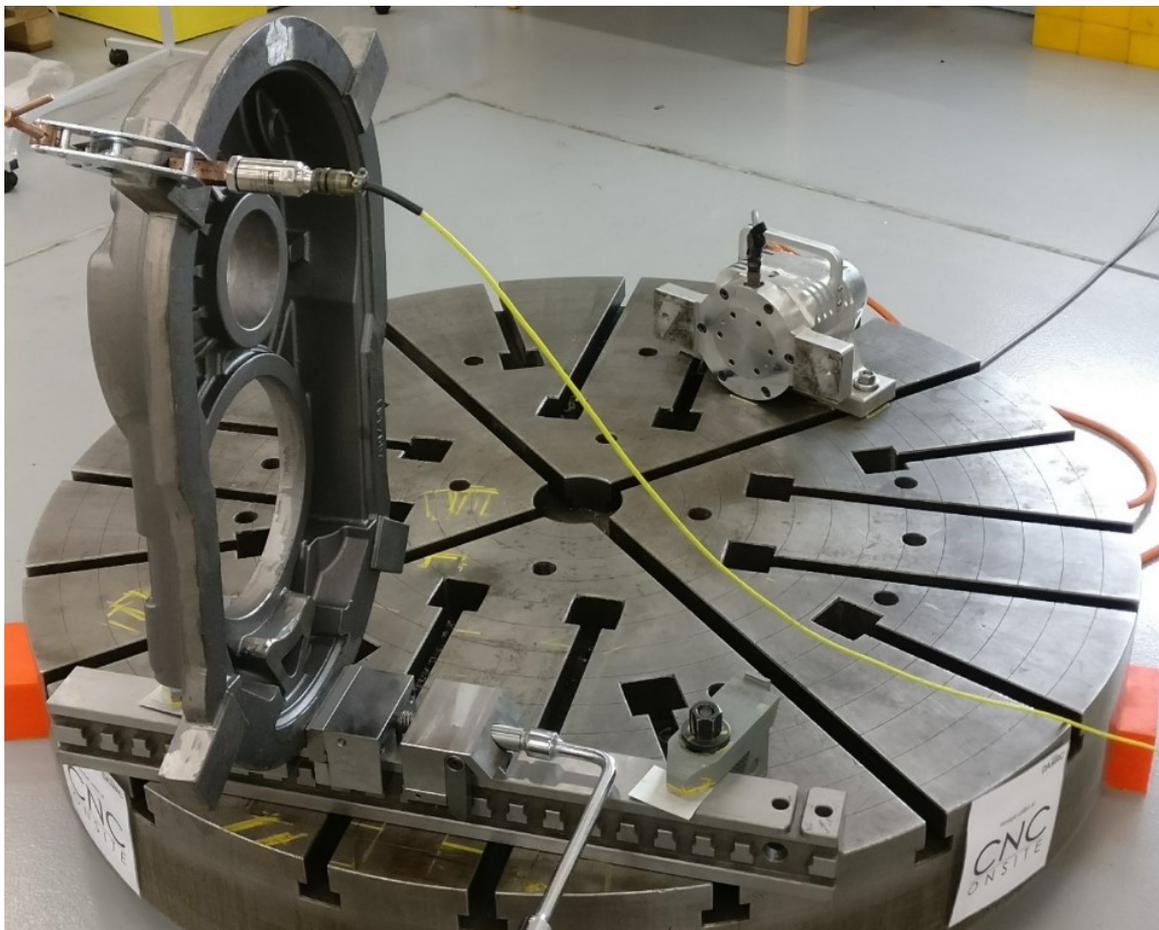
There will be a seminar with demonstration of the project and live-demos of the prototype at DAMRC in Autumn 2018. The date will be published in our newsletter and website

INNOMILL is a collaboration between Global Castings, CNC-Onsite, Aarhus University, Technical University of Denmark and DAMRC. The project is supported by the Innovation Fund.

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Since 2013, more than 60 companies have improved their productivity by 30% or more through collaboration with DAMRC -are you to be next? Give us a call or send us an email and let's take a non-binding dialog about how we can help you ...





We offer a wide range of courses, practical as well as theoretical. Similarly, we offer technicians, engineers, operators and students specialized courses. Most of our courses are conducted in Danish, but of course we are able to do it in English. Contact us for further information.

Do you have any ideas or wishes for courses, please contact Lene Nielsen on +45 21545054 or lene@damrc.com for a non-binding dialog.



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