

PREMEK MAGAZINE #02-2019

www.premek.it



IN THIS ISSUE:

- BEACONS OF INDUSTRY PROJECT
- NEW ENTRY IN THE PRODUCTION DEPARTMENT
- FOCUS ON ASSEMBLIES

- FROM PRODUCTS TO BUSINESS NETWORK SERVICES
- FURTHER IMPROVEMENT IN THE TECHNICAL DEPARTMENT
- NOVEMBER 2019 EVENTS

PREMEL HI TECH JOINS THE BEACONS OF INDUSTRY PROJECT.

We are delighted to have passed the first stage of the Digital Transformation Roadmap with flying colours.

It is with great pleasure and no small degree of pride that I can announce Premek Hi Tech has made it into the top one hundred companies in the Friuli-Venezia Giulia region for digital maturity. The ranking was based on a Digital Assessment, which rates digital maturity competencies for each of the eight areas of processes making up the value chain: design and engineering,

ject is based on a roadmap split into three stages: the first has revealed the top one hundred; the next two will whittle down the shortlist to forty and then to ten. Here at Premek Hi Tech, we are no strangers to gratification from customer satisfaction and, on top of that, we now have the gratification - in the shape of a report detailing the excellent level of digitization achieved by our company - of a positive rating from a centre of excellence promoting the region's technological development.

One thing's for sure: this is certainly a result we will treasure. At the same time, we hope that our journey towards the future of the so-called "automated factory" that we embarked on three years ago - hence, I might add, pre-dating the launch of the "Piano Nazionale Impresa 4.0" national

production, quality, maintenance, supply chain, logistics, human resources, marketing, customer care and sales. The assessment also takes into consideration the following analysis dimensions: implementation, monitoring and control, technologies, and organization. Behind the project - and this is one aspect I really appreciate - is the work of a local business, the Pordenone Technology Park who, in collaboration with the Lean Experience Factory 4.0 training centre and Industry Platform 4 FVG's Diex - the first experiential digital innovation hub - have launched the "Fari Manifatturieri" (beacons of industry) project with a view to identifying businesses in the Friuli-Venezia Giulia region who are able to play a guiding role for others coming to grips with the digital transformation process. The whole pro-

business 4.0 plan with all its attendant grants and concessions - will earn us further recognition. Certainly, it also bodes well that we left a highly favourable impression on the people carrying out the test and collecting the data required to assess our company. Such recognition would be a bonus on top of the improvements we expect to achieve in terms of quality performance and productivity. So let's keep up the good work!



President
Gino Camuccio

THE REASONS BEHIND OUR DIGITAL MATURITY AND ITS STRENGTHS.

The assessment on which the "Fari Manifatturieri" (beacons of industry) project is based has generated some very significant findings on the level of digital maturity now achieved by Premek Hi Tech. So we thought it would be interesting, below, to delve further into the subject mentioned in our Chairman's opening remarks, immersing ourselves in the associated jargon.

Our level of digitization is very high in terms of both digital readiness and digital connectivity, especially in relation to the areas of production and quality, which are our core business.

We focus heavily on the skills of our human resources and on monitoring their performance, managing them through digital media.

Raising efficiency levels in operations - with investments in the production line - is an essential business value driver for us.

Our digitization so far provides an excellent platform for future developments and can be further improved, in "waves of technology", by extending it to other areas and introducing smart instruments, capable of exploiting the wealth of digital data at our disposal analytically.

Design & Engineering

- Digital part design, including BOM and change management
- Transparent, digital nonconformance management

Production Management

- Digital production planning shared across functions
- Digital work order management with cycles, list of materials and work instructions

Quality Management

- Digitally defined and highly visible quality controls, with automatic nonconformance alerts
- Digital control tower for parameters and systems

Maintenance Management

- Digital plant maintenance plan
- Digitally coded and described maintenance operations

Logistics Management

- Digital raw materials warehouse and equipment warehouse management, with monitoring of equipment wear

Supply Chain Management

- Digital demand planning process with good timeframe visibility and use of historical and forecast data

Human Resource Management

- Transparent, digital skills assessment process

NEW TECHNOLOGIES FOR COMPLEX MACHINING.

A new horizontal lathe that cuts production times and delivers excellence.



In the second part of this year, we have strengthened our investments in manufacturing technologies, giving a further boost to a growth process that shows no sign of stopping. One of the measures was the purchase of a new Okuma LB3000 EX II MYW horizontal lathe, with Y-axis and driven tools, which adds to our already healthy array of equipment designed to handle complex machining.

The ability - a distinctive feature of this machine - to perform end-to-end workpiece machining means that the production process setup times are reduced, allowing us to offer a more competitive service in terms of turnaround times.

Nonetheless, the advantages are not limited just to faster manufacturing: single-pass machining - i.e. without having to move the part from one piece of equipment to

another - ensures a better result from a quality point of view, too, as it eliminates possible alignment errors, no matter how minimal.

The purchase of this new lathe is part of a wider technology integration process initiated by Premek Hi Tech some years ago with a view to producing complex parts, which are in increasing demand ever since we decided to orient our business to the demands of high value added industries.

ASSEMBLY PRODUCTION ON THE RISE. Growing demand for assemblies: Premek Hi Tech responds with cutting-edge technologies.

While, on the one hand, our experience and our resources find themselves faced with an increasingly challenging demand in terms of individual component machining; on the other, signals from the market clearly point to an increase in the demand for assemblies. Not so long ago, it used to be the customers who would handle this part of the process, whereas now there is a rising trend of outsourcing this assembly work to the suppliers of the components in question (as is our case), given the advantages that this brings in terms of streamlining manufacturing, too.

So, we are seeing more and more customers come to us with their assembly needs. And with good reason, given that our expertise in this field is widely acknowledged. In our Cleanroom (one of the jewels in the crown of a facility that has gone from being a "factory" to a "laboratory" over the years) - a pressure-controlled environment with filtration performance rated class ISO - 7 - we produce very small assemblies, which entail particularly painstaking handling given that they are made up of very delicate, expensive components. They include assemblies for the aerospace industry and, in ever-greater numbers, assemblies for medical equipment, operating rooms, re-

search laboratories, and pharmaceutical and food applications. The keywords underpinning this skill-broadening process - making it possible for us to produce vital parts of products made by industrial groups and businesses operating on a global scale - are evolution and integration.

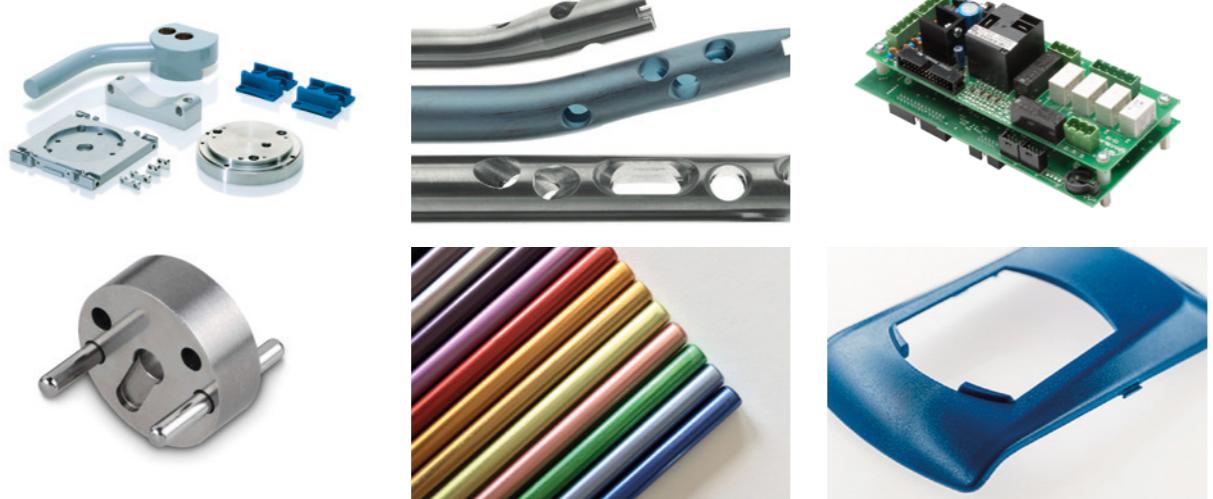


Our Cleanroom's features

Treated areas	A) 1 x vaulted entryway B) 1 x assembly room
Extraction points	A) 4 x downdraft tables B) 2 x fittings
Concurrent operation	65% of pos. A+B
Instant extracted air flow rate	1600 Nm ³ /h
Fresh air flow rate	400 Nm ³ /h
Air conditioning tot. airflow	2000 Nm ³ /h
Dilution factor	28 for room B) 100 particles in the room reduced to 28 in 1 hour
Filtration efficiency	Stage 1 EU4 Stage 2 EU9 Stage 3 EU13
Ambient temperature	+23° C with: winter outside T: -5° C summer outside T: +35° C
Ambient relative humidity	≤60% with: winter outside RH: 90% summer outside RH: 50%
Installed power	1.5 kW
Required cooling capacity	12 kW
Required heating capacity	7 kW

LEADING A BUSINESS NETWORK TO OFFER AN INTEGRATED SERVICE.

The ability to fully manage supplies by coordinating the work of different companies.



By now it's a well-known fact that we don't merely produce components. We have confirmed this again in the article on the preceding pages when talking about the know-how acquired in making assemblies. We are now offering our skills to the market as suppliers - or better still - as developers of hi-tech solutions, i.e. as a company that is open to delivering the most complete service possible. Our role as coordinators of the Meditech Group business network, born in 2016, flows perfectly with this reasoning. The Group offers its skill set to the medical device, medical equipment and food industries and

companies working in many different industries - such as precision mechanics, electronics, plastic processing, sheet metal processing, aluminium and titanium anodising - belong to it. This pool of companies lead by us aims at complementarity in the holistic meaning of the word, i.e. assigning more value to the whole than to the sum of its parts, to offer that "extra something" that translates into Premek Hi Tech's capacity to manage the entire supply by assuming the role of prime contractor and offering its services as a real system supplier. This is achieved by calling on



MEDITECH GROUP
MANUFACTURING SOLUTIONS

Meditech Group's areas of competence

- Precision mechanics
- Electronics
- Plastic processing
- Sheet metal processing
- Aluminium and titanium anodizing

the skills required to fulfil the supply contract as needed, delivering a service that is part of a range of continuously expanding company services.

FURTHER IMPROVEMENT IN THE TECHNICAL DEPARTMENT.

The latest release of the Solidworks software and its add-in Solidworks Inspection perfect the design process.

Innovation that simplifies processes and makes them quicker: that's what makes a real difference in the way a company operates every day, even more so for Premek Hi Tech that has always chosen to grow at the same speed as technological innovation. In this specific case, for our Technical Department, innovation showed up as the latest release of the Solidworks software for 3D parametric design and planning, developed for mechanical engineering and particularly useful to design mechanical apparatus, even complex ones. It's add-in, Solidworks Inspection, completes the program by automating labelling of technical drawings and 3D files

thanks to product and production information. The most important asset provided by Solidworks Inspection improves the speed at which measurements are recorded, thus making it easier to create test reports based on industry standards, eliminating input errors, further improving quality and shortening the time required to launch a product on the market.



A CALENDAR FULL OF IMPORTANT DATES IN NOVEMBER.

ELMIA Subcontractor, Compamed and the first National Workshop for the Aerospace Industry.

Events in November have become regular dates on our trade fair calendar. The first is in Jönköping, Sweden, with ELMIA Subcontractor, at the International Trade Fair for Industrial Subcontractors where you will find us from 12th to 15th November.

The next event takes place a few days later, from 18th to 21st November in Düsseldorf where we will participate in Compamed, the International Trade Fair for Suppli-

ers and Manufacturers of Medical Technologies, as leaders of the Meditech Group. It will then be the turn, on 26th November in Turin, of the first National Workshop for the Aerospace Industry organised by "AICQ Settore Aerospace" in collaboration with the Polytechnic University of Turin and Thales Alenia Space. The theme of the event will be "Aerospace quality - The state of the art of Space Economy and its challenges".

visions become reality | Elmia Subcontractor





Premek Hi Tech Srl

Via J. Linussio 3-5 33170 Pordenone - ITALY

Tel. **+39.0434.517511** Fax. +39.0434.573462

info@premek.it

www.premek.it

*Concept, copywriting and layout
carecom.it*