

PER FINIRE DI NUOVO | TO FINISH UP AGAIN

NORBLAST GROUP

The Norblast Group (Norblast S.r.l and Peen Service S.r.l.) is based in Bologna and has been working for over thirty years in the field of high quality surface treatment. We manufacture complete shot-peening and sandblasting lines offering high tech solutions. By partnering with leading Universities and renowned research centres, we have developed innovative technologies and processes to perform surface treatment suitable to the biomedical industry complex requirements



We design and manufacture machines for micro shot-peening and sandblasting. Over 6,000 machines sold world-wide have responded to the most diverse challenges. The Company is certified and offers a wide range of solutions, from modular systems meeting specific technological requirements to entirely custom made machines.



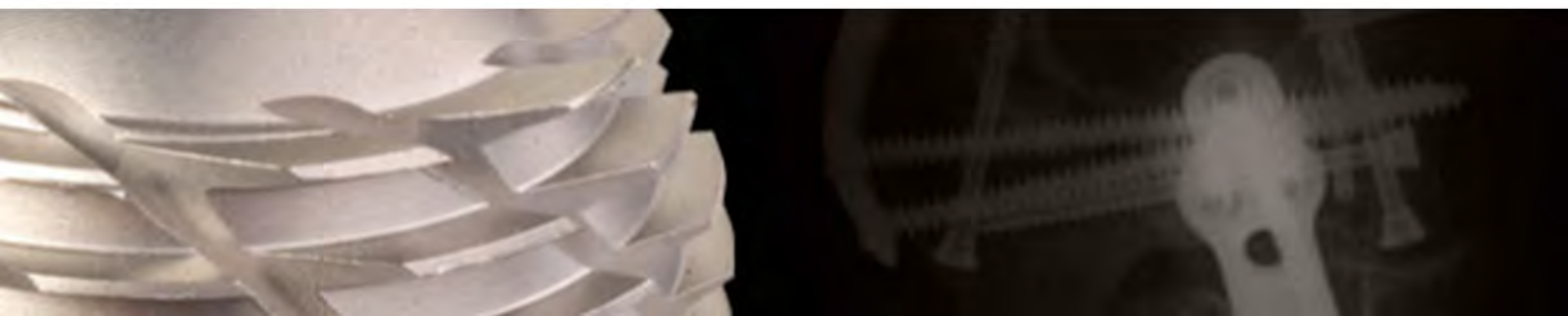
It is a centre for custom research, development and implementation of shot-peening solutions. The centre has been working with the main Italian universities for over 15 years on basic research and specific customer requirements. The high level of quality, certified according to EN 9100 and the technical support provided by Peen Service in the process design phase are the main strong points of the Company.



www.norblast.it



www.peenservice.it



In the spotlight: Norblast and Peen service

Since 1977 Norblast has been designing and manufacturing micro shot-peening and sandblasting machines offering a complete range of solutions to meet the Biomedical industry challenges.

Peen Service is a centre for custom research, development and implementation of shot-peening solutions. It has been working with the main Italian universities for over 15 years on basic and specific customer requirements..



The biomedical industry is confronted with a health system deeply and constantly evolving. Companies in this sector are committed to research and constant innovation to face continuous development and change in the industry. Miniaturisation of biomedical components and less invasive surgery are among the most difficult challenges. Biocompatibility and osseointegration are very familiar issues to **Norblast and Peen Service**.

AREAS OF WORK

Thanks to its experience and continuous research in collaboration with leading Italian universities and renowned research centres, The Norblast Group has developed innovative technologies and processes to perform surface treatment meeting the health sector requirements, in particular regarding prostheses and microsurgery. Coatings can be applied to prosthetic components for promoting osseointegration for example in the case of permanent implants or even reducing it in the case of temporary implants. Each application has its own peculiarities and requirements. A common feature of all coatings is the need for proper preparation of the adhesion surface. Preparation ensuring correct surface morphology and cleanliness is certainly one of the key factors for successful application and adhesion of technological coatings. The surface morphological characteristics are generally measured using appropriate surface roughness parameters. The best known parameters are the average value of surface roughness R_a , the maximum values of valley roughness R_v and peak R_p or the most common total value of peak-to-valley roughness R_z .



WHY CHOOSING NORBLAST?

Norblast can offer solutions for every need, from small manual machines to the most complex architecture with robots and totally automatic systems. All our machines for the biomedical industry are made using materials of the highest quality. Each element in contact with abrasive substances or surfaces to be treated is made of biocompatible material. Through the analysis of technological process quality requirements, production needs and capability requirements, biological compatibility of the materials used in the process, environmental compatibility and emissions, Norblast is able to identify the process critical phases and offer suitable machines based on Customer's requirements.

The compressed air technology used on the machines ensures strict control of all blasting variables such as operating pressure, angle of impact and grit size. The different ranges of machines available differ in size, production capability, automation, accessories and customisation but they are all able to perform the treatments the medical industry requires. Norblast machines are the result of direct field experience and are designed according to the most modern principles of ergonomics, energy efficiency, sturdiness and durability. In fact we generally use energy-efficient components as well as biocompatible components and wear-resistant coatings specially designed for critical applications in this field.

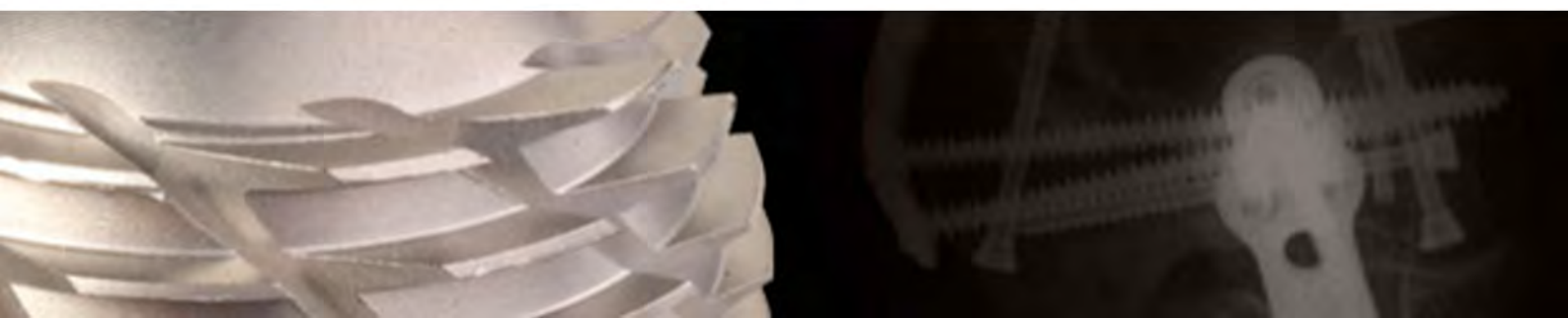
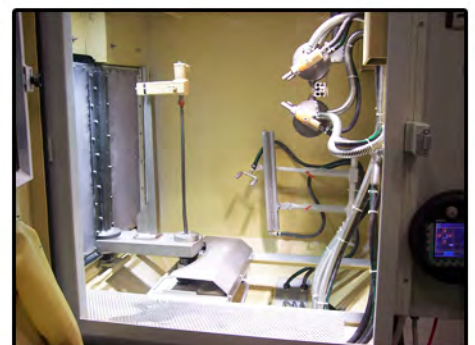
SD7 | Manual machine completely made of stainless steel



Complete line



Biomedical machine | prosthetic treatment





TECHNOLOGY

The first laboratory for the integrated management of production processes and surface analytical testing has been set up at Norblast headquarters in Bologna. Specifically created to enable companies to directly test their processes, this laboratory is equipped with a wide range of high tech instruments and staffs a team of engineers, technicians and specialists who can offer a complete range of services, from technical advice to actual tests on the customer's material using complete lines. The professional use of instruments such as the electronic microscope, the profilometer, the diffraction meter and the endoscope allows the customer to get an accurate efficient overview of all work parameters. Thanks to their field experience acquired in manufacturing over 6000 machines, our technicians are able to provide solutions for any challenge. Working closely with the customer's technical department, we examine the materials, surfaces and components to be treated. A technical report and a test chart recommend times, cycles and possible customisations. Norblast, therefore, not only supplies machines, but also creates an effective and productive workflow, thus providing the customer with pre and after-sales support and advice.



Over the years, the Company has been constantly improving the technological equipment and facilities of its data processing centre, according to industry and customer service requirements, creating cutting-edge facilities to enhance service, reduce costs and manage risks.

What we can offer you. An efficient technical department staffed by experienced engineers, CAD designers as well as a development department providing custom software for every need and a reliable IT system offering more effective and organised services to customers. This is what makes Norblast an ideal partner.



CONTACTCS

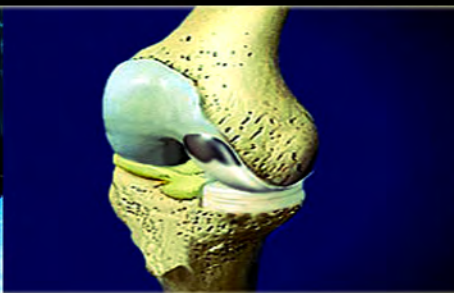


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to finish up again



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