

SAYAN ORTHOPAEDICS

Designer & Manufacturer of Orthopaedic and Spinal Instruments & OEM Implants



Content

- **& Resources founded in 2006**
- Manufacturing Plant
- ഇ Quality System Certificates
- **Muman Resources**
- **500** CNC Machines
- **So Quality Equipments**
- **80** Patents
- အာ Product Range







Resources in 2006

- Average 8.5 year / worker experience in design and manufacturing of orthopaedic instruments and implants when founded in 2006
- no skilled personel : 1 in R&D, 6 in Production and 1 in Quality
- Work discipline as if what we manufacture will be used in the operation of *OUR BEST LOVED*
- Excellent command of machinery and handcraft





SO IN LOVE with what we do



Manufacturing Plant



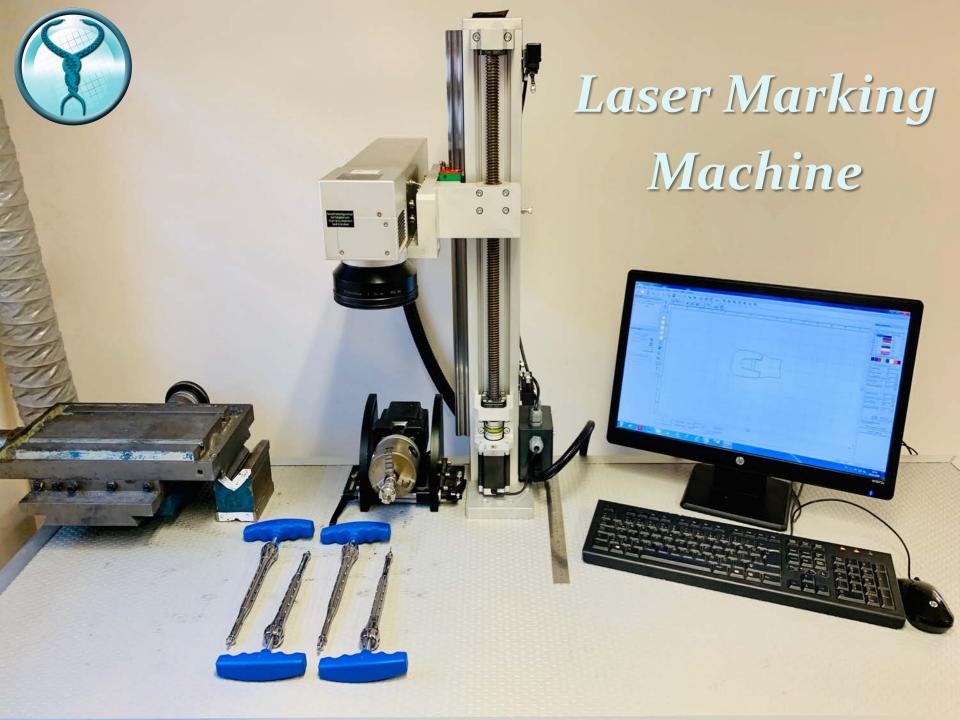






















Quality Control Devices







Quality Management System

Running a quality management system according to requirements of ISO 13485 and MDD 93/42 EEC, Sayan is serving world spread 48 Customers in 33 different countries with below certifications / registrations.

Sayan is currently in the transition period of complying with all necessities of (EU) 2017/745 MDR.

Quality Management System

Quality Certificates

- ഇ ISO 13485 Quality Management System
- ഇ Class I CE Surgical Instruments
- **Some Contractions of the Surgical Instruments Surgical Instruments**
- ഇ Class IIB CE Trauma Implants

Country Registrations

- യ FDA USA Surgical Instruments
- **250** PMDA Japan Surgical Instruments
- MARTG Australia Motor Driven Bone Cutting Surgical Instruments



ERP System / Mental Prism



Self-Learning ERP System to Record and Track Back All Production Records Online 300,000 € of Investment



... In Service of the World



Countries Served

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Americas

Argentina / Brasil / Colombia / Panama / USA
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£ Europe

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Belgium / Croatia / Czech / France / Germany / Greece / Italy / Lithuania / Norway / Poland / Portugal / Romania / Spain / Switzerland / UK
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so Africa

Egypt / South Africa

so Asia

Georgia / India / Indonesia / Israel / Japan / Philippines / South Korea / Syria / Taiwan / UAE

So Australia



Human Resources

- Enhanced 9.5 year/worker experience in average
- ∞ 1 with MBA degree
- 🔊 11 with bachelor degree (6 engineers, 1 biologist)
- ∞ 3 with college degree
- 11 with technical high school degree
- For Total of 56 personel as 17 white-collar employees and 39 blue-collar employees



Production Equipments

- 5-Axis Vertical Machining Center
- 🔊 2 x 4-Axis Vertical Machining Centers
- 3-Axis Vertical Machining Center
- 2 x CNC Lathes with C-Axis
- Swiss Turn with B-Axis and Bar Feeder
- هم 4-Axis EDM Wire
- **50** Deep Hole Drilling Machine



Production Equipments

- **Solution** Laser Welding Machine
- **50** TIG Welding Machine
- 2 x Vibratory Surface Finishing Machines
- 5 x Conventional Machines
- 🔊 2 x Plastering and Pressing Machines
- 🔊 2 x Grid Blasting Machines



Production Equipments

- **50** Laser Marking Machine
- **So** Laser Engraving Machine
- 🔊 2 x Ultrasonic Cleaning Machines
- **So** Electropolishing Device
- **Anodization Device**
- **50** Non-Sterile Packaging Machine



Quality Equipments

- 🔊 120x CNC Video Measuring Machine / Nikon Japan
- 🔊 Coordinate Measuring Machine / Mitutoyo Japan
- Surface Roughness Tester / Mitutoyo Japan
- Mardness Tester / Affri Italy
- Super Rockwell Hardness Tester / Affri Italy
- № 8x Visual Inspection Microscope / Vision Engineering – UK



Main Processes

Machining

x Passivation

യ Welding

So Assembly

Som Surface Treatment

20 Anodization of Titanium

So Quality Control

xo Laser Marking

50 Ultrasonic Cleaning

so Labelling

So Electropolishing

& Packaging



Patents

MA Coating Over Ti6Al4V in Lactic Acid Enriched
Body Fluid

Energy Conference Conference

European Patent # : EP2296718

- MIS Flex Acetabular Reamer Handle European Patent # : EP2626017
- Bone Reamer Prong Shaft with Additional Cutting Feature
 TPO Patent #: 2015 / 04604
- **Axial Persuader for Polyaxial Screw
 TPO Patent #: 2015 / 00454 B



Product Range

- 30 Trauma Instruments and Sets
- **©** Cable Instruments and Sets
- **50** Total Hip Instruments and Sets
- **50** Total Knee Instruments and Sets
- **Spinal Instruments and Sets**
- ⋒ MIS Instruments and Sets
- **x** Retractor Instruments and Sets
- **So** Revision Instruments and Sets
- **So** Cement Removal Instruments and Sets
- name Revision of Instrument Sets in Service
- န္တာ OEM Implant Design and Manufacturing
- **So** Custom-made Implant Design & Manufacturing
- x Tooth Implant Design & Manufacturing





Sample Products



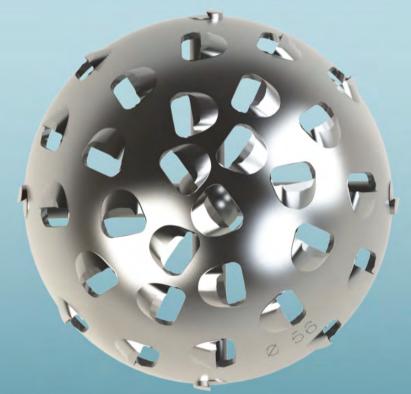
Hand-on Hand-off Axial Persuader

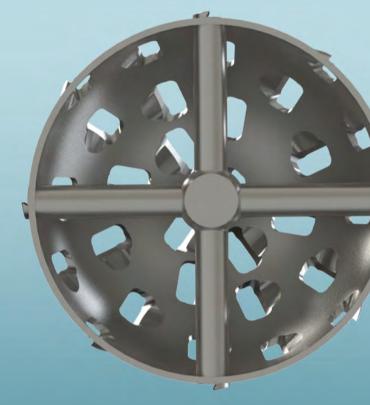
Patent #: 2015 / 00454 B

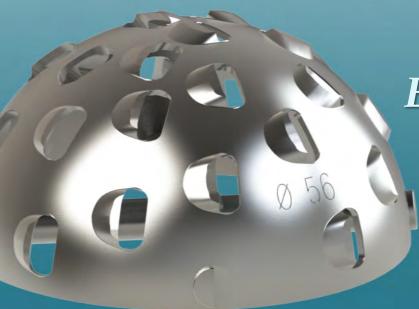










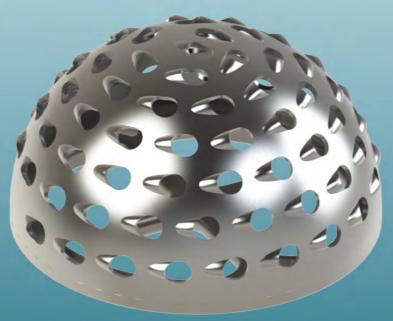


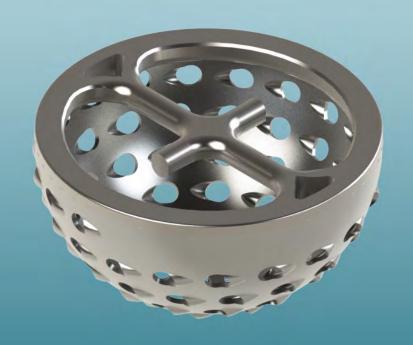
Acetabular Reamer with Equatorial Cutting Feature

Patent # : 2015 / 04604









Acetabular Reamer with Carnet Plate







Broach





Posterior Broach Handle





Anterior Broach Handle







Thanks For Your Precious Time