

### **SAYAN ORTHOPAEDICS**

Designer & Manufacturer of Orthopaedic and Spinal Instruments & OEM Implants



#### Content

so Resources founded in 2006 **Some Manufacturing Plant so Quality System Certificates So Human Resources Son CNC Machines** so Quality Equipments so Patents so Product Range







### **Resources in 2006**

 Average 8.5 year / worker experience in design and manufacturing of orthopaedic instruments and implants when founded in 2006

so in Skilled personel : 1 in R&D, 6 in Productionand 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

# Meeting Room

715

SAY

All semi-finished materials supplied either from Europe or USA

Stainless steel and titanium bars and sheets either European or USA originated

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Radel & propylux bars in various colors and propylux sheets in black and white supplied from Westlake Plastics, USA

Raw Material Warehouse

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4 Axis VMC

4 Axis VMC

5 Axis VMC

TN - 06

3 Axis VMC Deep Hole Drilling Machine

> ERP Data Entry Kiosk

4 Axis EDM

2º

C Axis Lathe

CNC Machines

12+1 Axis Swiss Turn

> Process Quality Control Station

## **CNC Machines**

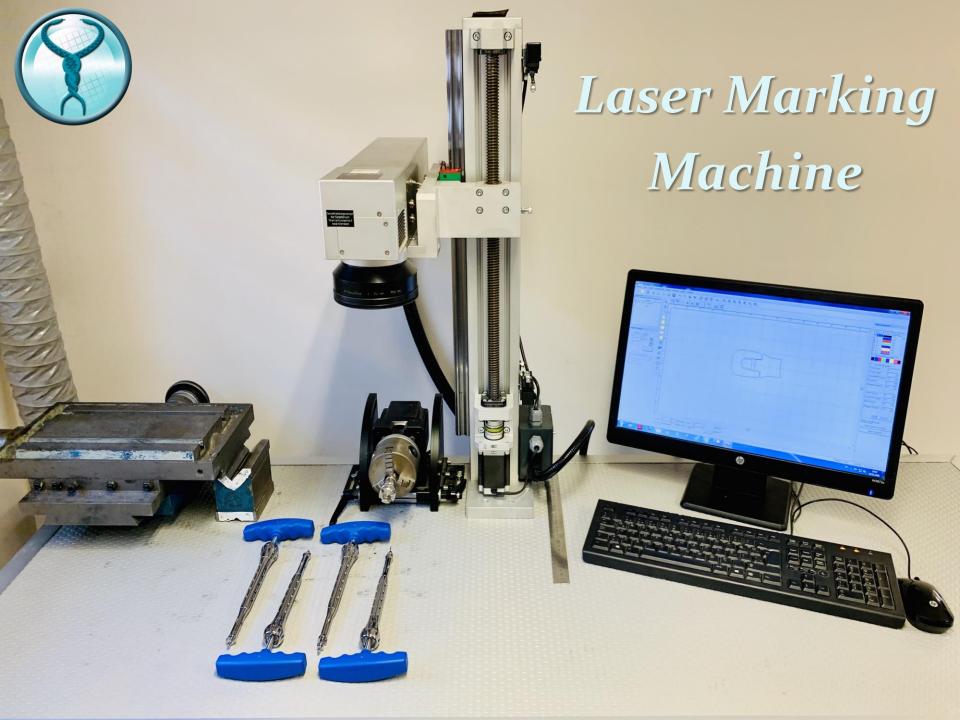
## **Conventional Machines**

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## Laser Welding Machine

and the second s



# **Final Quality Control**

Shares and

1

SAYAN

## Final Quality Control

Packaging + Shipment

SAYAN

ALL REAL PROPERTY.

SAYAN

sayan.com.tr

SA2

CNC Video Measuring Machine / Nikon

Nikon

Lee

Nikon

INEXIV

A

Surface Roughness Tester / Mitutoyo

Visiual Inspection Microscope / Vision Engineering

Mantis®

elite

Coordinate Measuring Machine / Mitutoyo

RU

COORDINATE VEASURING MACHINE

Co

₹544 ►

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# Refractory

quality life ... quality environment

### Quality Management System

More than 30 years behind, both in the US and in Europe orthopaedic implant and instrument manufacturers were individualized & Sayan is the initiative of such differentiation in Turkiye and is still the market leader in the country and serving world spread 48 Customers in 30 different countries, mostly in Europe and USA, an important player in the World arena with below certifications/registrations

> ISO 13485 : 2016 Quality Management System Class I Surgical Instruments Class IIA Motor Driven Surgical Instruments Class IIB Trauma Implants US FDA Surgical Instruments Japan PMDA Surgical Instruments





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



## ... In Service of the World



### **Countries Served**

**so** Americas

Argentina / Brasil / Colombia / Panama / USA

so Europe

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

so Africa

Egypt / South Africa

so Asia

Georgia / India / Indonesia / Israel / Japan / Philippines / South Korea / Syria / Taiwan So Australia



### Human Resources

so Enhanced 9.5 year/worker experience in average

so 1 with MBA degree

∞ 5 with bachelor degree

∞ 3 with college degree

so 11 with technical high school degree

So Total of 49 personel as 16 white-collar employees and 33 blue-collar employees



## **Production Equipments**

**so** 1 off 5 Axis Vertical Machining Center **so** 2 off 4 Axis Vertical Machining Centers **so** 1 off 3 Axis Vertical Machining Center **\$** 2 off CNC Lathes with C-Axis **50** 1 off Swiss Turn with B-Axis and Bar Feeder so 1 off 4 Axis EDM Wire



### **Production Equipments**

so 1 off Deep Hole Drilling **so** 1 off Laser Welding Machine **so** 1 off TIG Welding Machine **so** 1 off Vibratory Surface Finishing Machine **so** 3 off Belt Grinding Machines **5** off Conventional Machines



## **Production Equipments**

2 off Plastering and Pressing Machines
1 off Grid Blasting Machine
1 off Laser Marking Machine
2 off Ultrasonic Cleaning Machines



## Quality Equipments

So 120x – CNC Video Measuring Machine / Nikon – Japan

Coordinate Measuring Machine / Mitutoyo – Japan
 Surface Roughness Tester / Mitutoyo – Japan
 Hardness Tester / Affri – Italy

∞ 8x – Visual Inspection Microscope / Vision Engineering – UK



#### Main Processes

**so** Machining **so** Welding **so** Surface Treatment **so** Quality Control **so** Ultrasonic Cleaning **so** Electropolishing

**so** Passivation **so** Assembly **so** Anodization of Titanium **so** Laser Marking **so** Labelling **so** Packaging



#### Patents

☞ HA Coating Over Ti6Al4V in Lactic Acid Enriched Body Fluid European Patent # : EP2296718

- ☞ MIS Flex Acetabular Reamer Handle European Patent # : EP2626017
- Bone Reamer Prong Shaft with Additional Cutting Feature TPO Patent # : 2015 / 04604

So Axial Persuader for Polyaxial Screw TPO Patent # : 2015 / 00454 B



## **Product Range**

**so** Trauma Instruments and Sets **so** Cable Instruments and Sets **so** Total Hip Instruments and Sets **so** Total Knee Instruments and Sets **so** Spinal Instruments and Sets **so** MIS Instruments and Sets **so** Retractor Instruments and Sets so Revision Instruments and Sets so Cement Removal Instruments and Sets no Revision of Instrument Sets in Service **so** OEM Implant Design and Manufacturing **so** Custom-made Implant Design & Manufacturing noth Implant Design & Manufacturing 🔊





### Sample Products



Hand-on Hand-off Axial Persuader

Patent # : 2015 / 00454 B







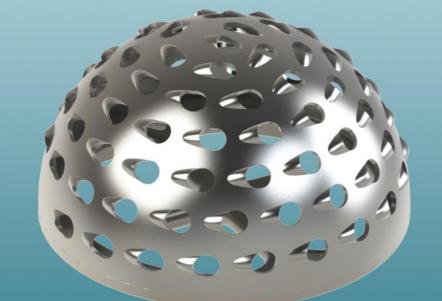


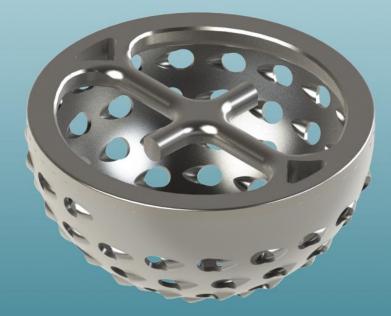
Acetabular Reamer with Equatorial Cutting Feature Patent # : 2015 / 04604

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Acetabular Reamer with Carnet Plate





### Broach





## Posterior Broach Handle





## Anterior Broach Handle

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## Thank you for your precious time