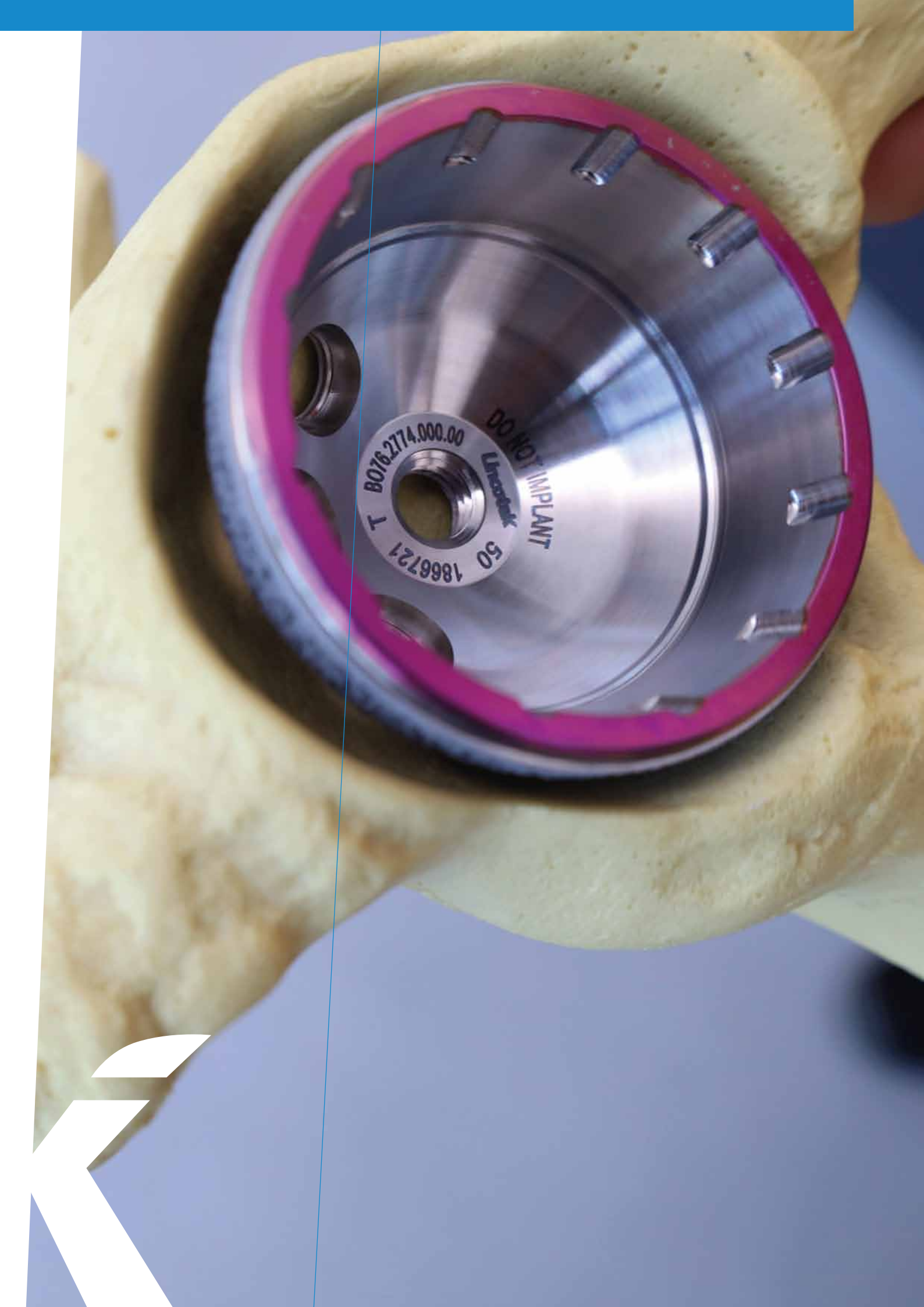




## Integrated Supply Chain Solutions



Your single point of service for spine, reconstruction, sports medicine & trauma, and extremities markets



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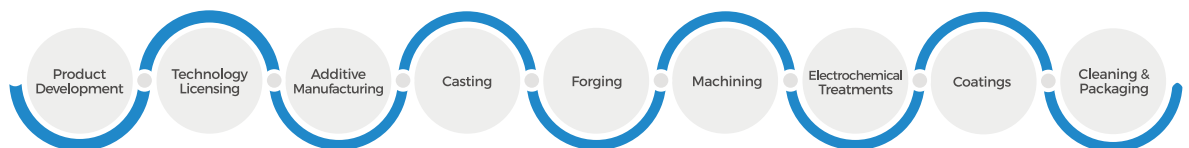
## Excellence, the way you design it

We are a fully-integrated, global solution provider for spine, reconstruction, sports medicine and trauma, and extremities markets. With a focus on innovation and speed to market, we partner with orthopedic OEMs to deliver products that enhance quality of life and standard care for patients.

Our disruptive renewed strategy allows us to provide true "Concept to Launch" support to customers. We are able to assist them during all stages of their manufacturing journey, from device conception and serial production through to finishing and polishing, and eventual packaging, simplifying the supply chain, and shortening the overall lead time.

With decades of experience and a continuous strengthening of our development engineering and manufacturing expertise, we provide a unique and comprehensive portfolio of services for the medical OEM needs.

### Unique integrated supply chain solutions



## Long-term, reliable partnership

As your production grows, we're there alongside you. Our group is family owned and has served global markets for 50 years. We believe in building a reliable partnership that gives you confidence and reassurance to plan for the future.







## R&D is at the heart of what we do

We have had an active research and development (R&D) department since the 1990s, with hundreds scientific publications and participations at international congresses worldwide. Our R&D projects have encompassed several aspects of science and technology with outstanding results. Continuous collaboration with universities and research institutes worldwide is vital to the success of our business, as is as staying constantly up-to-date with new technology and methods to give us an open-minded approach to daily problems.

## Quality and validation assured

- ISO 13485 certified
- Master Files registered with the US FDA
- Accreditation c/o Japanese Ministry for Health
- Member of ISO and ASTM technical committees
- Processes and treatments designed to be validation friendly
- CE marking (classes IIa, IIb and III bio-resorbable)

## Why partner with us?

- Integrated Supply Chain Solutions
- Partnership model, based upon a collaborative approach
- Flexibility
- Global approach
- Innovative & cutting-edge technologies
- Know-how, expertise and mastering of the process
- Lean organization for cost-effective approach
- Proprietary technologies
- R&D for continuous improvement
- Fully-integrated & customer-oriented services
- Validated processes and equipment
- Compliant with medical industry standards



# INTEGRATED SUPPLY



**PRODUCT  
DEVELOPMENT**



**ADDITIVE  
MANUFACTURING**



**COATING  
SOLUTIONS**



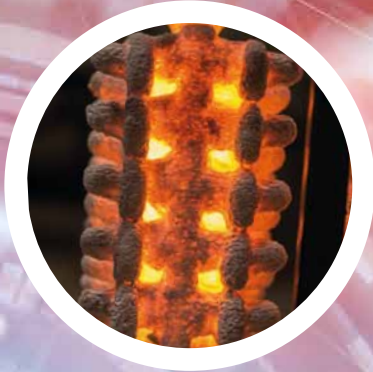
**MACHINING**



**CLEANING AND  
PACKAGING**



# CHAIN SOLUTIONS



CASTING



FORGING



FINISHING  
AND POLISHING



ELECTROCHEMICAL  
TREATMENTS



HA SPRAY  
POWDER



# Products & Services

## Product development

Turning solutions into real products and getting innovations to market quickly. Our aim is to help you make your ideas become products as quickly and cost-effectively as possible. From the first concept to creating and validating the final technical file, we are ready to support you during all stages of your product development process.



## Manufacturing

More than 10 years' experience

We start from your ideas to give you the service you are looking for:

### Casting

- Centrifugal and static casting
- Broad knowledge of key medical-grade alloys

### Forging

- Fully robotized forging line combined with a wide range of in-house services

### Machining of implants and instruments

- Milling
- Turning & Swiss turning

### Finishing & Polishing

- Grinding
- Automated Polishing

### Additional service

- Cleaning & Packaging
- Sterilization

## Additive Manufacturing

The End-to-End Additive Solution Provider

You have always been guaranteed a complete service through Lincotek Additive's unique serial production expertise in the field of global Additive Manufacturing.

Today, we go further than ever before, taking responsibility for a whole range of processes in-house. From design to final heat treatment, machining and finishing, we're with you every step of the way.

It's the simplification of your supply chain.

It's **Additive Plus**





## Coating solutions

Validated processes and equipment

### Plasma spray coatings

We have been developing plasma spray coating for medical application since 1992 and have become recognized as a world leader in the medical thermal spray coating technologies. We have a complete portfolio of coatings:

- Air plasma spray titanium coatings
- Vacuum plasma spray porous titanium coatings
- Hydroxyapatite [HA] coatings
- Plasma spray coating on PEEK
- TiGrowth® coating

### Calcium phosphate coating

Brushite or HA electrodeposition: thickness < 30 µm



## Electrochemical treatments

### Titanium anodization

We offer different types of anodization, used to enhance mechanical performance and surface osseointegration or to color the individual parts.

#### Trademarks

- TiHard™ [Type II]
- TiColor™ [Type III]
- SelectTive™
- Ti 3D Growth™ [anodic spark deposition]

#### Processes

- Titanium anodizing [Type II]
- Titanium color anodizing
- Aluminum anodize
- Electropolish
- Passivation
- Chemical conversion coating
- Laser marking
- Deep image graphics
- Epoxy painting
- Teflon coating

### Chrome coating

#### ISO 10993 compliant [surgical instruments]

Chrome coating is becoming the finish of choice for medical manufacturers of instruments. It enables a low-friction surface to be created that improves the service life, performance, and cosmetic appearance.



## HA spray powder

We manufacture the hydroxyapatite [HA] powder used in our plasma spray processes in-house.




## Lincotek Medical at a glance

- Solution provider with focus on integrated supply chain solutions for medical devices and instruments
- Over 900 employees
- Over 700 OEMs served worldwide: Europe, US, Asia
- Approximately 27M devices processed annually
- 18% CAGR from organic growth in the last ten years
- ISO 13485, FDA, NMPA and JMHLW registered sites
- 450,000 square feet of capacity globally
- Global leader in thermal spray coatings services
- Global Precision Machining, Forging, and Casting with more that 125 precision machining centers
- Additive Manufacturing pioneer (since 2006) with more than 25 production units installed globally
- 100K+ per year implantable devices produced with additive manufacturing
- Over 30 Master Files registered with FDA
- Dedicated teams to drive R&D and Innovation

With bases established in Europe,  
North America, and Asia, we support our  
OEM customers wherever they are located  
and are responsive to their demands.



## More about our Group

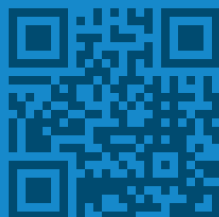
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- Solution provider with specific focus on Integrated Supply Chain
  - Focus segments: Aerospace, IGT and Medical
  - Privately owned
  - 50 years in thermal spray coatings
  - More that 15 years in additive manufacturing
  - OEM loyalty / focus
  - 18 manufacturing sites globally
  - 1,800+ employees
  - Double digit % sales growth in the last 10 years
  - 15% Revenue invested in CAPEX
  - More than 60 thermal spray systems in operation
  - Around 40 additive printing units in production





# Lincotek

Medical



[lincotek.com](http://lincotek.com)