



## VALUE-DRIVEN ORTHOPEDIC FOCUSED

### CONTACT US TODAY

Make your ideas a reality.

# ORCHID

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## Orchid Orthopedic Solutions

Helping your idea come to life from  
concept to market

# ORCHID

## PARTNER WITH US

Together,  
we can  
help people  
live longer,  
active lives.



**Orchid is a worldwide leader of orthopedic device outsourcing services** providing contract manufacturing from concept through launch. We are a strategic sourcing partner that can handle your entire project or provide services at a single point in the process to quickly bring your product to market.

## WHY ORCHID

- **Broadest portfolio in the industry:** Ranging from casting, forging, machining and coating through finished goods manufacturing and packaging
- **Innovative solutions:** We continue to develop value-added technologies and services, simplifying your value streams and mitigating risk
- **Extensive medical device and clinical experience:** Each of our facilities has a rich history of manufacturing and design in the orthopedic industry
- **Proprietary bone in-growth technologies:** FDA registered master files for applying coatings to implants
- **ISO certified:** An ISO 13485 quality system in every facility

# PRODUCT SOLUTIONS

Value-driven solutions for the manufacture of products used in orthopedic implant procedures.



## DESIGN FOR MANUFACTURE

**Design Smarter:** Partner to start with a purposeful design and make decisions up-front, saving time and cost.

## SUPPLY CHAIN MANAGEMENT

**Plan Simpler:** Utilize project management and watch your value stream grow through reduced supplier touch points, reliable product availability and increased cash flow.

## BEST-IN-CLASS MANUFACTURING

**Build Faster:** The broadest portfolio of manufacturing capabilities in the orthopedic industry, from forming through packaging.

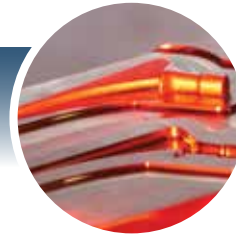
## OFF-THE-SHELF PACKAGING

**Deliver Better:** Select from pre-formed sterile packaging in a wide variety of sizes to help you save time and money.

# MANUFACTURING CAPABILITIES

## Forging

- Net and near-net forging of exotic alloys
- Simulation, die design and fixture building
- Follow-on machining and finishing



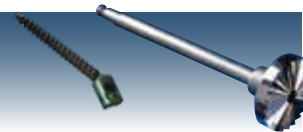
## Casting

- Investment casting of cobalt-chromium alloy and stainless steel
- Robotic polishing



## Machining

- Metal and polymer machining
- Traditional and swiss-style turning
- Multi-axis milling
- Grinding, gun drilling and electrical discharge machining (EDM)



## Coating

- Osseointegrative porous sintered coating (spherical and irregular bead)
- Osseoconductive plasma spray coating (hydroxylapatite)
- Osseointegrative porous plasma spray coating (titanium)
- Proprietary process with superior tensile strength
- Custom coating and application techniques



## Sterile and Non-Sterile Packaging

- RediPak® off-the-shelf solutions
- Pouch or blister sealing
- Boxing, labelling and shrink wrapping
- Sterilization
- Validation and package testing
- ISO Class 7 controlled environment rooms



### Typical Products:

- |                           |                                   |                                |
|---------------------------|-----------------------------------|--------------------------------|
| • Hip Stems               | • Acetabular cups                 | • Inserters, guides and drills |
| • Femoral knee components | • Trauma plates and screws        | • Nails, rods and reamers      |
| • Tibial knee components  | • Spinal cages, screws and plates | • Rasps, broaches and blades   |