

OUR BENEFITS

Quality, speed and cost will make your product a reality sooner.

An Experienced Team of Experts

Our team is composed of highly qualified professionals with vast experience working for medical device manufacturers. Our employees are active members of professional societies such as the Institute of Packaging Professionals, Medical Device Packaging Advisory Groups and the American Society for Quality, ensuring that our team is aware of the most current practices and regulatory requirements in the industry.

Faster Time to Revenue

Concurrent product and process development, optimal size and streamlined, scalable, processes get you to market faster.

Confidence in Your Final Product

Our customers trust us as a design and manufacturing partner, and have the same confidence in us to take their product from concept through manufacturing and final packaging.

Orchid Supply+

Because Orchid is vertically integrated, your product can be designed, manufactured, packaged and sterilized in one stop, saving you time, money and resources.

ABOUT ORCHID

Orchid Orthopedic Solutions is a worldwide leader of medical device outsourcing services, providing expertise to partners in more than 20 countries through a complete offering that ranges from design and development to finished goods manufacturing. One of Orchid's goals is to be the market leader and our customers' strategic partner by providing reliable results, developing new technologies and creating the best total supply chain value in the industry.

CONTACT US TODAY

Make your ideas a reality.



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Sterile Packaging Services

**Class 7 Clean Rooms,
Packaging and Test Equipment
Plus Sterilization and
Validation Expertise**



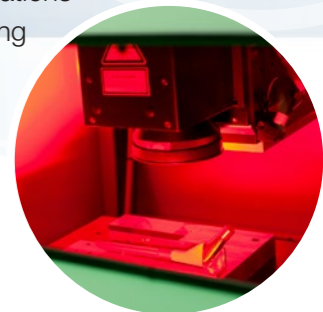
PARTNER WITH US

Package experience, quality and expertise into your products.



Orchid has committed our best resources to provide you with sterile packaging capabilities. With two ISO 7 (Class 10,000) qualified clean rooms, state-of-the-art automated packaging and test equipment, sterilization and validation expertise and a team with years of experience in medical device manufacturing, you can be sure your next packaging project is in good hands.

As a leader in the design and manufacturing of orthopedic implants and instruments, Orchid is ahead of the curve in terms of validation and quality requirements. Let us take your orthopedic products from concept all the way through to delivery, or just utilize our sterile packaging expertise to help you with design considerations and provide packaging support to bring your product to market quickly.



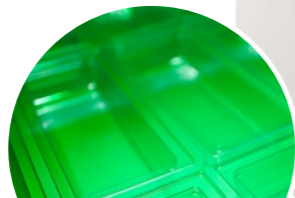
OUR CAPABILITIES

Complete management for your packaging project.



Services

- Fully staffed team of packaging and validation experts
- Sterile and non-sterile
- Contract packaging only or packaging at the point of manufacture in ISO 7 certified clean rooms – reduces lead time and WIP
- Sterile packaging design
 - Pouches
 - Tray / Blister Pack
 - Artwork
- Sterilization
 - EO and Gamma
 - Quarterly dose audits
- Complete validation services
- Packaging lab
 - Packaging testing to ASTM F1929, ASTM F2096 and ASTM F88
 - Seal leaks by dye penetrant
 - Seal leak testing by bubble emission
 - Seal strength
 - Transportation simulation ISO 11607, ASTM D4169
 - Package Stability Studies ISO 11607, ASTM F1980



REDIPAK®

RediPak® is Orchid's validated off-the-shelf packaging solution.

- Five-year shelf life
- Library of packaging and sterilization validations of numerous product families and configurations to support equivalency to your device
- Custom artwork can be applied to RediPak® packaging
- No tooling costs
- Minimal validation costs

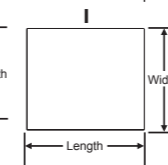
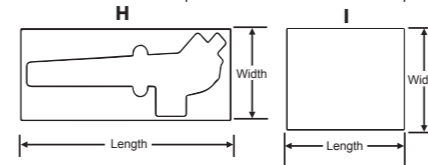
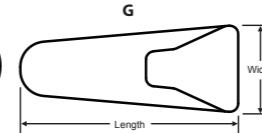
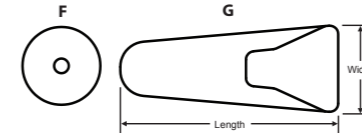
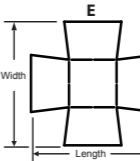
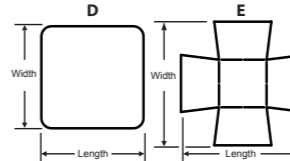
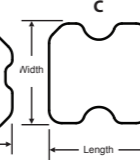
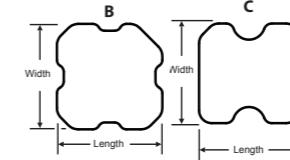
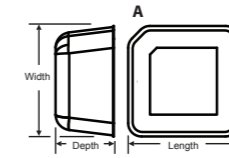
CONFIGURATIONS

Foam / Urethane

- Die-cut and molded
- Cross-linked polyethylene foam and urethane
- EO and gamma sterilization compatible
- Custom designs

Foam / Urethane #	Dimensions		
	L	W	D
A-Foam	4.4"	4.4"	2.0"
B-Foam	3.4"	3.4"	0.13"
C-Foam	4.8"	4.8"	0.38"
C-Foam	2.3"	2.3"	0.13"
E-Foam	6.5"	6.5"	0.13"
F-Foam	1.5"	2.0"	N/A
G-Uret	9.8"	3.9"	N/A
H-Foam	16.5"	8.0"	2.0"
I-Foam	1.13"	1.13"	N/A

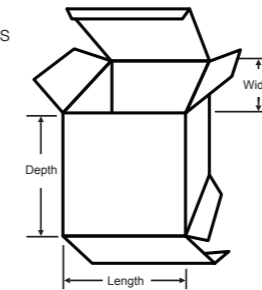
*NOTE: All dimensions are approximate



Cartons

- SBS and e-flute corrugated materials
- Printed and unprinted
- Custom graphic designs
- Custom sizes

Carton #	Dimensions		
	L	W	D
1001	6.8"	3.2"	6.8"
1002	4.375"	1.312"	6.0"
1003	6.0"	1.3"	6.0"
1004	2.8"	0.8"	7.0"
1005	5.8"	3.0"	5.8"
1006	6.5"	1.6"	12.5"
1007	3.0"	0.875"	2.5"
1008	9.0"	4.0"	7.0"
1010	6.0"	1.0"	13.0"

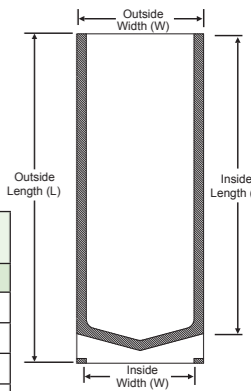


*NOTE: All dimensions are approximate

Pouches

- Chevron, peelable structure
- Materials: Tyvek 1073B / polyester, nylon, or foil
- Single or double barrier
- Five-year shelf life
- EO (Tyvek only) and gamma compatible

Pouch #	Inside Dimensions		Outside Dimensions	
	L	W	L	W
1097	8.5"	1.75"	9.25"	2.5"
1098	8.5"	2.75"	9.25"	3.5"
1099	2.0"	1.25"	4.25"	2.0"
1100	4.0"	2.25"	7.0"	3.0"
1101	5.0"	3.25"	9.0"	4.0"
1102	6.0"	5.25"	10.0"	6.0"
1103	14.0"	11.25"	18.0"	12.0"
1104	6.25"	2.25"	7.0"	3.0"
1105	4.25"	1.25"	5.0"	2.0"
1106	4.5"	2.75"	5.25"	3.5"
1107	6.25"	3.75"	7.0"	4.5"



*NOTE: All dimensions are approximate

Trays

- Precision, pressure-formed PETG
- 1073 B Tyvek Lidstock
- Single or double barrier
- Custom foam and urethane protection available
- Five year shelf life (data upon request)
- EO and Gamma sterilization compatible

*NOTE: All dimensions are approximate

Tray #	Inside Dimensions			Outside Dimensions		
	L	W	D	L	W	D
RP1MD	4.5"	4.5"	2.8"	5.5"	5.5"	2.9"
RP1LG	5.6"	5.6"	3.2"	6.4"	6.4"	3.3"
RP2SM	3.4"	3.4"	2.4"	4.6"	4.6"	2.5"
RP2MD	4.5"	4.5"	2.8"	5.5"	5.5"	2.9"
RP2.5SM	3.4"	3.4"	1.2"	4.6"	4.6"	1.3"
RP2.5MD	4.5"	4.5"	1.4"	5.5"	5.5"	1.5"
RP2.5XS	2.3"	2.3"	1.0"	3.7"	3.7"	1.1"
RP3MD	9.8"	4.1"	1.2"	11.1"	5.2"	1.3"
RP3LG	10.0"	4.3"	1.4"	12.3"	6.4"	1.5"

