

1. RUSH Chopart® Plate Description

The Ability Dynamics™ RUSH Chopart® is designed for lower limb usage.

It is designed/intended for bonding and lamination onto/at the distal end of a prosthetic socket.

Foot sizes for the RUSH Chopart® range from 22cm to 29cm*.

(*30cm will be available in the near future. Please check for availability.)

The RUSH Chopart® is designed to be a dynamic foot plate for activity levels of K3 and K4.

It is also suitable and comfortable for K2 usage.

Build height is 17mm (based on 27cm) refer to Figure A.

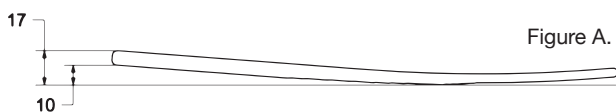


Figure A.

Size 27cm RUSH Chopart®

There may be some small variation in the build height based on the individual size.

2. Alignment

Integrate the RUSH Chopart® plate to the socket with an initial bench alignment.

Adjust the heel height appropriate to the shoe.

Align the plate on the socket by setting the plantar flexion / dorsiflexion and inversion / eversion.

The weight line of the socket should align with the

RUSH Chopart® plate at 2/3 of the posterior

distance of the plate. Figure B

Set the rotation of the RUSH Chopart® plate.

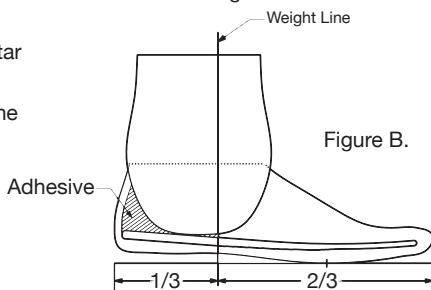


Figure B.



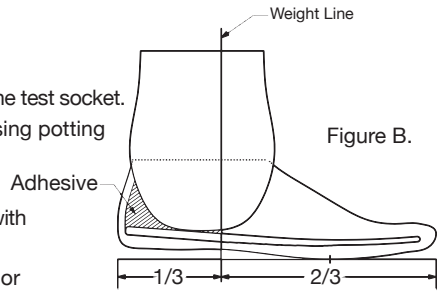
3. Socket Initial Integration

Integrate the bench aligned RUSH Chopart® plate into the test socket. The RUSH Chopart® plate is bonded to the socket using potting epoxy such as Siegelharz. Figure B

Prepare the RUSH Chopart® plate surface for bonding with potting epoxy.

- a. It is recommended to bond only the posterior 1/3 of the RUSH Chopart® plate to the socket. Figure B
- b. Clean upper and lower surfaces of the RUSH Chopart® plate thoroughly with clean cloth and acetone to remove all release agents, oils, etc.
- c. Follow proper air ventilation and skin protection as required.
- d. Lightly scuff the upper and lower bonding surfaces with fine grit paper just enough to remove the sheen off the surface.
- e. Avoid deep sanding of the surface to protect the fibers of the laminate.
- f. Epoxy the RUSH Chopart® plate to the socket by filling in the edges and providing a smooth transition.
- g. Optimize the dynamic performance of the plate by adhering as closely as possible to potting 1/3 of the plate.
- h. Secure the RUSH Chopart® plate with synthetic casting tape, scotch cast or other temporary wrap materials.

Perform dynamic alignment and make adjustments to the plate as required.



4. Socket Lamination

Secure the orientation of the dynamic alignment procedure using an alignment device or jig. Prepare for direct lamination by removing temporary bonding materials and synthetic casting tape. Prepare the RUSH Chopart® plate for final lamination by cleaning the exposed surfaces and ensuring surface preparations with a light scuff using fine grit paper. Laminate the plate to the socket with carbon fiber cloth starting with a long posterior layer and follow with medial / lateral layers. Fold the long posterior layer back over medial / lateral layers to interlock the lamination sequence. Secure with circumferential wraps. Compensate for the weight and activity level of the user with increased laminating layers for additional strength.