

Terminal Devices

A terminal device is the component of the prosthesis that replaces a person’s hand. Terminal devices can be active, where they open and close or they can be passive, where there is no action and the function is primarily for cosmetic purposes. Terminal devices can be in the form of a hook or in the form of a hand. Generally, hook terminal devices are more functional than hand terminal devices. Terminal devices can also be in the form of a piece of equipment – such as a hammer, a knife, a device to hold a golf club, or a mitt for sporting events.

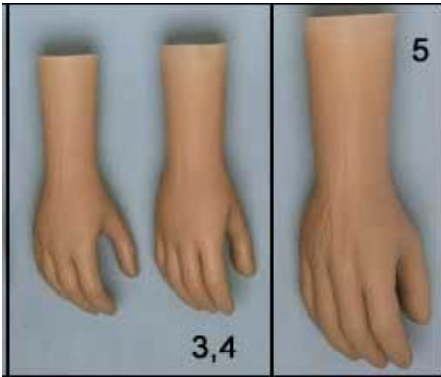
Passive Hands

A passive hand is used primarily for cosmetic purposes. Some cosmetic hands have fingers that can be repositioned or bent. Various sizes of cosmetic hands are available in order to match the measurements of the person’s sound side hand. Gloves are made to fit over the cosmetic hand and are available in many different shades. Gloves are typically made of vinyl or silicone. Custom-made silicone gloves are also available at a substantially higher price. Custom-made gloves are individually made to match the person’s sound side hand details (size, veins, fingernails, coloring).



Hosmer Child Passive Hand

<p>Arlington Heights 617 E. Golf Road, Suite 108 Arlington Heights, IL 60005 847-437-3929</p>	<p>Bannockburn 2101 Waukegan Road, Suite 104 Bannockburn, IL 60015 847-444-0690</p>	<p>Lincoln Park/Chicago 2551 N. Clark St., Suite 200 Chicago, IL 60614 773-472-3663</p>	<p>Rush/Chicago 1725 W. Harrison St. Suite 220 Chicago, IL 60612 312-942-2011</p>	<p>UIC/Chicago 1740 W. Taylor St. Room C100 Chicago, IL 60612 312-996-6450</p>
<p>Hickory Hills 8641 W. 95th St. Hickory Hills, IL 60457 708-599-8336</p>	<p>Naperville 1551 Bond St., Suite 111 Naperville, IL 60563 630-637-4638</p>	<p>Oakbrook Terrace 1S376 Summit Ave., Ct. E Oakbrook Terrace, IL 60181 630-424-0392</p>	<p>Oak Park 401 Harrison Street Oak Park, IL 60304 708-383-2257</p>	<p>Schererville 6629 W. Lincoln Hwy. (Rt. 30), Suite 1 PO Box 507 Schererville, IN 46375 219-864-9501</p>



Otto Bock Gloves



Hosmer Glove

Cable Operated

Cable operated terminal devices are controlled by the person’s muscle movements. The person wears a harness that is connected under the opposite arm. Attached to the harness is a cable that is attached to the prosthesis and the terminal device. By moving the shoulders and upper arms, the person can either open (voluntary opening) or close (voluntary closing) the terminal device. The person can also control how far the terminal device opens or closes.



Figure 9 harness



TRS Lifetouch hand - voluntary closing

Arlington Heights
617 E. Golf Road, Suite 108
Arlington Heights, IL 60005
847-437-3929

Bannockburn
2101 Waukegan Road,
Suite 104
Bannockburn, IL 60015
847-444-0690

Lincoln Park/Chicago
2551 N. Clark St., Suite 200
Chicago, IL 60614
773-472-3663

Rush/Chicago
1725 W. Harrison St.
Suite 220
Chicago, IL 60612
312-942-2011

UIC/Chicago
1740 W. Taylor St.
Room C100
Chicago, IL 60612
312-996-6450

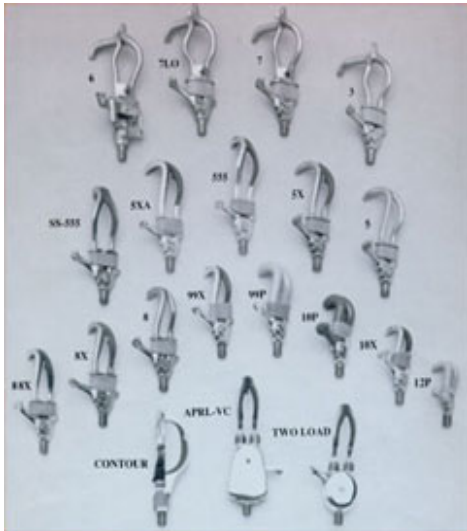
Hickory Hills
8641 W. 95th St.
Hickory Hills, IL 60457
708-599-8336

Naperville
1551 Bond St., Suite 111
Naperville, IL 60563
630-637-4638

Oakbrook Terrace
1S376 Summit Ave., Ct. E
Oakbrook Terrace, IL 60181
630-424-0392

Oak Park
401 Harrison Street
Oak Park, IL 60304
708-383-2257

Schererville
6629 W. Lincoln Hwy.
(Rt. 30), Suite 1
PO Box 507
Schererville, IN 46375
219-864-9501



Hosmer Hooks – voluntary opening



Otto Bock Hooks – voluntary opening

Most hooks are voluntary opening terminal devices. Hooks come in various sizes and types of material depending on the age of the user and the activities that will be performed. Aluminum hooks are the lightest weight while stainless steel hooks are considered heavy duty. Hooks are also made with special functions. A work hook can hold a nail, a chisel, a broom or a shovel and also has a hook on the end that can carry a bag. Rubber bands (hook tension bands) are used to regulate the amount of force needed to open the hook. By adding a rubber band around the base of the hook, it will take more force to open the hook. This will prevent the hook from opening just from random body movements.

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Hosmer Model 7 Work Hook



Hosmer Model 5 Hook



Hosmer Model 12P Hook



Hosmer Hook Tension Bands

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Most mechanical hands are voluntary opening as well. Hands are generally in the shape of an anatomical hand with a cosmetic glove covering. Hosmer and TRS both supply a hand that does not require a glove.



Hosmer CAPP hand - voluntary opening



TRS Lifetouch Hand – voluntary closing



Hosmer SVO Hand – voluntary opening

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Myoelectric Operated

A myoelectric prosthesis uses muscles of the affected arm to control the opening and closing of the terminal device (hand or hook). Electrodes are fit within the prosthesis. Rechargeable batteries are used to supply the power to operate the motor of the hand. By contracting the muscles of the arm that formerly controlled the movement of an anatomical hand, electrical outputs are sent to a motor that open and close an artificial hand. Electrical outputs can be used to control the speed that the hand opens and closes and can also rotate the wrist with the addition of a wrist rotator.



Otto Bock Electrode



Otto Bock Greifer Hand



Otto Bock Myoelectric Hand



Motion Control ESP Hook

Arlington Heights
617 E. Golf Road, Suite 108
Arlington Heights, IL 60005
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Bannockburn
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Alternative Terminal Devices



TRS Free-Flex hand – gymnastics



TRS Swimming Terminal Device



TRS Guitar Accessory



TRS Baseball/Softball Accessory

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Texas Assistive Devices Hammer



Texas Assistive Devices
Adjustable Wrench Set

For more information on terminal devices and assistive devices, please visit the following websites:

www.ottobockus.com
www.hosmer.com
www.n-abler.org
www.oandp.com/products/trs/

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