Hosmer mechanical elbows have long been the benchmark standard in prosthetics for rugged durability and simplicity in design. Easy to install and adjust, this efficient design continues to be a mainstay to the transhumeral prosthesis.

Hosmer also offers a diverse number of choices to address your upper extremity client’s individual needs. There are small, medium, and large sizes in both mechanical and passive designs to cover the spectrum from child to adult. Heavy-duty elbows are available with fewer locking positions or with stainless-steel PowerBow gear sectors. Endoskeletal options, with reciprocating lock, manual button, or manual lever release, maximize the cosmesis and minimizes the weight. Passive friction elbows are also used for higher level prostheses and where extra harnessing is prohibitive. Different turntable options help maximize cosmesis and function by allowing the cable to exit internally or externally. The plastic elbow cap is also available in a caucasian or negroid color.

A spring lift assist is often used in conjunction with the Hosmer elbow to help offset the weight of the forearm and to increase efficiency. The nudge control has also been developed to offer an alternative lock when there is limited shoulder excursion available. The Hosmer mechanical elbows are frequently combined with an externally powered prehensor in a “hybridized” configuration.
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Elbows

**E-400 Elbow**

- Provides eleven locking positions and accommodates a lift assist unit on either left or right side
- Heavy duty saddle straps for the E-400 available on special order
- Supplied with Caucasian elbow cap unless otherwise specified
- See page H53 for lift assist information

50650  E-400 Standard Size Elbow w/Outside Cable Exit;
2-13/16" (7.1cm) Diameter; 2-1/8" (5.4cm) Elbow Axis To Socket End; 15oz (420g)

50651  E-400A, Same As Above w/Inside Cable Exit

61658  E-400HD Standard Size Elbow; Inside Cable Exit,
8 Locking Positions, Heavy Duty Saddle and Gear Sector; 15oz (420g)

50653  E-400HD Standard Size Elbow; Outside Cable Exit,
8 Locking Positions, Heavy Duty Saddle and Gear Sector; 15oz (420g)

60149  E-400XHD: Standard Size Elbow; Outside Cable Exit, 8-Locking Positions Reinforced Double Gear Sector, Heavy Duty Saddle; 17oz (480g)

60665  Power-Bow: Standard Size Elbow; Outside Cable Exit,
8-Locking Positions, Stainless Steel Frame, Cam and Reinforced Double Gear Sector, Heavy Duty Saddle. (597.5g) 21.2 oz.

---

A. 50720  Short Sleeve
B. 50721  Long Sleeve
*C. 57497  Internal Assembly,  E-400 and HD
D. 50725  Cable Housing Assembly
E. 50667  Lock Nut
F. 50668  Belleville Washer
G. 50658  Turntable, E-400, 400HD
G50659  Turntable, E-400A
H. 50665  Cork Washer
I. 50719  Shaft
J. 50739  Outside Washer
K. 50740  Screw
L. 50724  Cable Assembly
M. 50729  Washer
N. 50716  Gear Sector, E-400 and 400A
50718  Gear Sector, E-400HD
60200  Double Gear Sector
*O. 50748  Yoke Assembly
P. 50730  Elbow Saddle Assembly, E-400 and 400A
50738  Elbow Saddle Assembly, E-400HD
Q. 50742  Sheet Metal Screw
R. 50741  Elbow Cap, Caucasian, E-400, E-400HD
54419  Elbow Cap, Dark Negroid, E-400
54422  Elbow Cap, Med. Negroid, E-400
54425  Elbow Cap, Latin, E-400
53926  Elbow Cap, Caucasian, E-400A
54418  Elbow Cap, Dark Negroid, E-400A
54421  Elbow Cap, Med. Negroid, E-400A
54424  Elbow Cap, Latin, E-400A
S. 50427  Anchor
T. 50747  Hanger
U. 50680  Bolt
V. 50678  Screw
W. 50722  Bearing

*Note: See Next Page for Sub Assembly Information
Elbows

E-400 Elbow Sub Assemblies

Note: Endoskeletal Elbows are on page H99

57497 Internal Assembly, E-400 and HD Includes

**AA.  57496 Internal Cage Assembly, E-400 and HD
BB.  50677 Base
CC.  50679 Screw
DD.  50680 Bolt
EE.  50715 Locking Bar Spring

50748 Yoke Assembly Includes

ZZ.  50671 Yoke
AAA.  50675 Nut
BBB.  50674 Bumper
CCC.  50758 Yoke Cover, Right
      50773 Yoke Cover, Left
DDD.  50761 Screw

60143 Yoke Assembly E-400 XHD

60664 Yoke Assembly, Power Bow

57497 Internal Cage Assembly, E-400 and HD Includes

FF.  50681 Cage
GG.  50684 Cam Bearing
HH.  50831 Screw
II.  50687 Cam
JJ.  50689 Spring
KK.  50701 Washer
LL.  50160 Retaining Clip
**MM.  50709 Ratchet Assembly
NN.  50714 Locking Bar
OO.  50813 Case Pin
PP.  50713 Cable Pin

60148 Internal Cage Assembly, EUOOGHD and Power Bow
(SST Double Gear Sector)

50709 Ratchet Assembly Includes

**QQ.  55561 Lever Sub Assembly
RR.  50711 Spacer
SS.  50712 Screw
TT.  50708 Keeper
UU.  50710 Ratchet

55561 Lever Sub Assembly Includes

VV.  50630 Pawl
WW.  50705 Spring
XX.  50706 Pin
YY.  50688 Lever
Elbows

**E-200 Elbow**

- Medium size mechanical elbow with eleven locking positions
- See page H53 for lift assist information

50606  E-200 Elbow w/Outside Cable Exit; 2-3/8” (6.1cm) Diameter; 12.5oz (350g); 2” (5.1cm) Elbow Axis to Socket End

50610  E-200A Elbow w/Inside Cable Exit

50613  E-200HD Heavy Duty Elbow, Nine Locking Positions

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**Elbow Caps Injection Molded**

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*Note: See Next Page for Sub Assembly Information*
Elbows

E-200 Elbow

50646  Yoke Assembly Includes
CC.  50675  Nut
DD.  50674  Bumper
EE.  50621  Yoke

54155  Internal Assembly Includes
**FF.  50647  Internal Cage Assembly
GG.  50680  Bolt
HH.  50636  Locking Bar Spring
II.  50624  Base
JJ.  50679  Screw

50647  Internal Cage Assembly Includes
KK.  50625  Cage
LL.  50635  Locking Bar
MM.  50813  Pin
NN.  50628  Cam
OO.  50629  Spring
PP.  50626  Cam Bearing
QQ.  50627  Screw
RR.  50632  Ratchet
**SS.  50648  Lever Assembly

55561  Lever Sub Assembly Includes
TT.  50630  Pawl
UU.  50705  Spring
VV.  50574  Lever
WW.  50706  Pin
### Elbows

**E-50 Elbow**

- Child size mechanical elbow; 10 locking positions

**50556**  
**E-50 Elbow w/Outside Cable Exit; 2" (5.1cm) Diameter; 7.5oz (210g); 1-3/4" (4.4) Elbow Axis to socket End**

**50557**  
**E-50A Elbow w/Inside Cable Exit**

*Note: See Next Page for Sub Assembly Information*
Elbows

E-50 Elbow

59577  Yoke Assembly Includes

DD. 50565 Yoke
EE. 56110 Locking Bar
FF. 50813 Case Pin
GG. 50573 Cam
HH. 50629 Spring
II. 50572 Cam Bearing
JJ. 50627 Screw
KK. 50632 Ratchet
**LL. 50648 Lever Assembly
MM. 56659 Screw
NN. 50566 Bushing
OO. 50567 Bumper
PP. 50568 Screw
QQ. 51684 Pin

50648  Lever Assembly Includes

RR. 50630 Pawl
SS. 50705 Spring
TT. 50574 Lever
UU. 50706 Pin

See page 99 to 100

Endo Electric Elbow
57442 Medium
57443 Large

Manual Lock Elbow
55170 Right
56344 Left

Alternating Lock Elbow
55135

71983 Pylon Connector
55109 Socket Adaptor

Endoskeletal Elbow
60012
60826 Flare Adaptor

* A
# Elbow

**Friction Elbow**

- Allows manual positioning of the forearm
- Adjustable friction

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<td>E-50F Friction Elbow, Small; 2&quot; (5.1cm) Diameter; 7oz (196g) Weight</td>
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<td>58183</td>
<td>E-200F Friction Elbow, Medium; 2-3/8&quot; (6.1cm) Diameter; 12.5oz (350g) Weight</td>
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<td>53363</td>
<td>E-400F Friction Elbow, Standard; 2-13/16&quot; (7.1cm) Diameter; 15oz (420g) Weight</td>
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A. 50748 Yoke Assembly, E400
B. 50677 Base
C. 50678 Screw
D. 50679 Screw
E. 59331 Friction Clamp
F. 50269 Screw
G. 59330 Friction Shaft
H. 70153 Dowel Pin
I. 50730 Saddle Assembly E400
J. 50729 Washer
K. 50739 Outside Washer
L. 50740 Screw
M. 59332 Hex Bolt
N. 59333 Bolt Retainer
O. 59334 Screw
P. 50665 Cork Washer, E400
Q. 50658 Turntable, E400
R. 50668 Belleville Washer
S. 50667 Lock Nut
T. 50600 Elbow Cap, Caucasian, E-50F
U. 50742 Sheet Metal Screw
V. 59586 Allen Wrench
Forearm Lift Assist

**Forearm Lift Assist Unit**

- May be installed on the E-400 and E-200 elbows
- Mounted medially or laterally
- Supplied for installation on medial side unless otherwise specified
- Weighs only 1.5oz (42g)

50609 Lift Assist Unit, Right
50752 Lift Assist Unit, Left

A. 50759 Lift Assist Assembly, 50752
   54291 Lift Assist Assembly, 50609
B. 50771 Screw Lock
C. 50768 Teflon Washer
D. 50769 Screw
E. 50764 Case Bolt, 50609
   50762 Case Bolt, 50752
F. 50770 Spring
G. 50765 Dog Assembly, 50752
   53901 Dog Assembly, 50609
H. 52022 Washer
Locking Hinges

Outside Locking Hinge, Small

- For an elbow-disarticulation prosthesis
- Seven locking positions
- Alternator type locking mechanism requires very short cable travel to operate
- Lower anchor strap is laminated around the end of the humeral socket to insure permanent alignment of the hinges
- Available without the lower anchor strap
- Each pair includes one locking and one non-locking hinge, with medial side locking

53881 Outside Locking Hinge, Small, E-2500R; 5oz (140g), Pair, Right
50915 Outside Locking Hinge, Small, E-2500L; 5oz (140g), Pair, Left
53882 Outside Locking Hinge, Small, No Anchor Strap, E-2500AR; 5oz (140g), Pair, Right
50916 Outside Locking Hinge, Small, No Anchor Strap, E-2500AL; 5oz (140g), Pair, Left

A. 50944 Cable Housing Assembly
B. 50887 Cable Assembly
C. 55583 Locking Bar Assembly
D. 54167 Gear Strap Assembly, 53881 and 53882
55713 Gear Strap Assembly, 50915 and 50916
E. 54601 Case Assembly
F. 50945 Set Screw
G. 50937 Spring
H. 50884 Cam
I. 50876 Pin
J. 50875 Spring
K. 50879 Keeper
L. 50878 Driver
M. 50920 Strap Assembly, 53881
53527 Strap Assembly, 53882
50919 Strap Locking Side, 50915
53528 Strap Locking Side, 50916
N. 50933 Bushing
O. 50932 Screw
P. 50947 Screw
Q. 54003 Free Side Assembly, 53881
55521 Free Side Assembly, 50915
55786 Free Side Assembly, 50916
60874 Free Side Assembly, 53882
R. 50747 Hanger
S. 50427 Anchor
T. 51258 Lockwasher

Hinge: 53881
Locking Hinges

Outside Locking Hinge, Medium

- For an elbow-disarticulation prosthesis
- Seven locking positions
- Alternator type locking mechanism requires very short cable travel to operate
- Lower anchor strap is laminated around the end of the humeral socket to insure permanent alignment of the hinges
- Available without the lower anchor strap
- Each pair includes one locking and one non-locking hinge, with medial side locking

53879 Outside Locking Hinge, Medium, E-1500R; 7.5oz (210g), Pair, Right
50853 Outside Locking Hinge, Medium, E-1500L; 7.5oz (210g), Pair, Left
53880 Outside Locking Hinge, Medium, No Anchor Strap, E-1500AR; 7.5oz (210g), Pair, Right
50854 Outside Locking Hinge, Medium, No Anchor Strap, E-1500AL; 7.5oz (210g), Pair, Left

A. 50886 Cable Housing Assembly
B. 50887 Cable Assembly
C. 50818 Cable Return Spring
D. 55710 Gear Strap Assembly, 50853 and 50854
   54607 Gear Strap Assembly, 53879 and 53880
E. 55583 Locking Bar Assembly
F. 55709 Case Assembly
G. 50829 Set Screw
H. 50884 Cam
I. 50876 Pin
J. 50875 Spring
K. 50879 Keeper
L. 50878 Driver
M. 54276 Strap Assembly, 50853
   50855 Strap Assembly, 53879
   50856 Strap Assembly, 50854
   54145 Strap Assembly, 53880
N. 50808 Screw
O. 50831 Screw
P. 50867 Free Side Assembly, 50853
   54913 Free Side Assembly, 53879
   50868 Free Side Assembly, 50854
   54171 Free Side Assembly, 53880
Q. 50809 Bushing
R. 50747 Hanger 50747
S. 50427 Anchor 50427

Hinge: 53879
Locking Hinges

Outside Locking Hinge, Large

- For an elbow-disarticulation prosthesis
- Seven locking positions
- Alternator type locking mechanism requires very short cable travel to operate
- Lower anchor strap is laminated around the end of the humeral socket to insure permanent alignment of the hinges
- Available without the lower anchor strap
- Each pair includes one locking and one non-locking hinge, with medial side locking

53877 Outside Locking Hinge, Large, E-500R; 10.5oz (294g), Pair, Right
50776 Outside Locking Hinge, Large, E-500L; 10.5oz (294g), Pair, Left
53878 Outside Locking Hinge, Large, No Anchor Strap, E-500AR; 9.5oz (266g), Pair, Right
50777 Outside Locking Hinge, Large, No Anchor Strap, E-500AL; 9.5oz (266g), Pair, Left

A. 50725 Cable Housing Assembly
B. 50724 Cable Assembly
C. 50820 Cable Return Spring
D. 55615 Gear Strap Assembly, 50776 and 50777
   53980 Gear Strap Assembly, 53877 and 53878
E. 55584 Locking Bar Assembly
F. 55639 Case Assembly
G. 50829 Set Screw
H. 50826 Cam
I. 50819 Pin
J. 50818 Spring
K. 50822 Keeper
L. 50821 Driver
M. 50783 Strap Assembly, 50776
   50784 Strap Assembly, 53877
   54175 Strap Assembly, 53878
   50779 Strap Assembly, 50777
N. 50808 Screw
O. 50831 Screw
P. 50804 Free Side Assembly, 50776
   53923 Free Side Assembly, 53877
   54176 Free Side Assembly, 53878
   50805 Free Side Assembly, 50777
Q. 50809 Bushing
R. 50747 Hanger
S. 50427 Anchor
Locking Hinges

Outside Locking Hinge, Large Heavy Duty

- For an elbow-disarticulation prosthesis
- Five locking positions
- Alternator type locking mechanism requires very short cable travel to operate
- Lower anchor strap is laminated around the end of the humeral socket to insure permanent alignment of the hinges
- Each pair includes one locking and one non-locking hinge, with medial side locking

A. 50966 Locking Bar Assembly
B. 50820 Spring
C. 50819 Pin
D. 50826 Cam
E. 50822 Keeper
F. 50821 Driver
G. 50820 Spring
H. 50724 Cable Assembly
I. 50945 Set Screw
J. 50725 Cable Housing Assembly
K. 50967 Case
L. 50958 Long Bushing
M. 55714 Gear Strap, 50950
   53981 Gear Strap, 53883
N. 53978 Locking Side, 53883
   50957 Locking Side, 50950
O. 50962 Screw
P. 50959 Screw
Q. 54140 Free Side Assembly, 53883
   50972 Free Side Assembly, 50950
   54475 Free Side Assembly, 50951
   54476 Free Side Assembly, 53884
R. 50747 Hanger
S. 50427 Anchor
Locking Hinges

Residual Limb Activated Locking Hinge Below Elbow

- For the amputee with a very short below elbow residual limb, with strength to operate a lever, but cannot be fit with a standard below elbow prosthesis
- Above elbow forearm lift control cable is used to position the forearm
- Hinge is locked or unlocked by flexion or extension of the residual limb
- With the limb extended, the forearm socket is free to swing or to be positioned
- Once positioned the forearm is locked by flexing the limb
- Standard and small sizes

53886 Residual limb Activated Hinge, E-1600R; 8.5oz, (238g), Pair, Small, Right
50900 Residual limb Activated Hinge, E-1600L; 8.5oz (238g), Pair, Small, Left
53885 Residual limb Activated Hinge, E-600R; 14.5oz (406g), Pair, Large, Right
50833 Residual limb Activated Hinge, E-600L; 14.5oz (406g), Pair, Large, Left

<table>
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<td>A. Locking Bar Assembly</td>
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<td>B. Pin</td>
<td>50876 50819</td>
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<td>C. Spring</td>
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<td>D. Case Assembly</td>
<td>50909 50848</td>
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<tr>
<td>E. Long Bushing</td>
<td>50809 50809</td>
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<tr>
<td>F. Gear Strap Assembly, Right</td>
<td>54607 53980</td>
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<tr>
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<td>H. Stud Screw</td>
<td>50843 50843</td>
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<td>50831 50962</td>
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<tr>
<td>J. Short Bushing</td>
<td>50811 50811</td>
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<tr>
<td>K. Cam Strap</td>
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<td>L. Teflon Washer</td>
<td>50885 50827</td>
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<td>M. Washer</td>
<td>50913 50851</td>
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<tr>
<td>N. Screw</td>
<td>50845 50845</td>
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<tr>
<td>O. Free Side Assembly, Right</td>
<td>54172 53876</td>
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<tr>
<td>Free Side Assembly, Left</td>
<td>50905 55779</td>
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</tbody>
</table>
Flail Arm Hinges

Flail Arm Hinge, Locking

- Spring assisted lift
- Sold per pair

53887  Flail Arm Hinge, Pair, Spring Loaded, Medial Side Locking, Lateral Side Non-Locking, FAH-100R; 12.5oz (350g), Right
50989  Flail Arm Hinge, Pair, Spring Loaded, Medial Side Locking, Lateral Side Non-Locking, FAH-100L; 12.5oz (350g), Left

Flail Arm Hinge, Non-Locking

- Spring assisted lift
- Sold each, right or left

53889  Flail Arm Hinge, Single Spring Loaded Hinge, Non-Locking Type, FAH-100BR; 5oz (140g), Each, Right
51001  Flail Arm Hinge, Single Spring Loaded Hinge, Non-Locking Type, FAH-100BL; 5oz (140g), Each, Left

A. 51004  Upper Strap Assembly
B. 51005  Strap
C. 50811  Short Bushing
D. 50827  Teflon Washer
E. 50841  Stud
F. 51007  Spring Bushing
G. 52832  Pin
H. 51009  Spring
I. 56881  Spacer
J. 50842  Screw, (2 required)
K. 51008  Case Spring Cover

NOTE: Lock is normally placed on medial side
## Flail Arm Hinges

### Flail Arm Hinge, Locking

- Sold each, right or left

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</tr>
<tr>
<td>51000</td>
<td>Flail Arm Hinge, Adjustable Lift Assist Hinge w/locking Mechanism, FAH-100AL; 8oz (224g), Each, Left</td>
</tr>
<tr>
<td>K</td>
<td>50822 Keeper</td>
</tr>
<tr>
<td>L</td>
<td>50809 Bushing Long</td>
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<tr>
<td>M</td>
<td>51003 Gear Strap Assembly, Right</td>
</tr>
<tr>
<td>N</td>
<td>53603 Strap, Right</td>
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<tr>
<td>O</td>
<td>50831 Screw</td>
</tr>
<tr>
<td>P</td>
<td>71618 Hinge Screw</td>
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<tr>
<td>Q</td>
<td>56881 Spacer</td>
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<tr>
<td>R</td>
<td>50842 Screw</td>
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<tr>
<td>S</td>
<td>59116 Pin</td>
</tr>
<tr>
<td>T</td>
<td>51007 Spring Bushing</td>
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<td>U</td>
<td>51009 Spring</td>
</tr>
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<td>V</td>
<td>51008 Case Spring Cover</td>
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<tr>
<td>W</td>
<td>50845 Screw</td>
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<td>X</td>
<td>50747 Hanger</td>
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<td>Y</td>
<td>50427 Anchor</td>
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<tr>
<td>A</td>
<td>50724 Cable Assembly</td>
</tr>
<tr>
<td>B</td>
<td>50725 Cable Housing Assembly</td>
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<tr>
<td>C</td>
<td>55639 Case Assembly</td>
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<td>D</td>
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<td>E</td>
<td>50826 Cam</td>
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<tr>
<td>F</td>
<td>50820 Spring</td>
</tr>
<tr>
<td>G</td>
<td>55584 Locking Bar Assembly</td>
</tr>
<tr>
<td>H</td>
<td>50818 Spring</td>
</tr>
<tr>
<td>I</td>
<td>50819 Pin</td>
</tr>
<tr>
<td>J</td>
<td>50821 Driver</td>
</tr>
</tbody>
</table>

![Diagram of Flail Arm Hinges](image)

NOTE: Lock is normally placed on medial side
Below Elbow Hinges

Polycentric Below Elbow Hinge

- Useful in compensating for excessive tissue in the cubital fold area
- Hinges are made of tool steel which is heat treated and plated for long life

<table>
<thead>
<tr>
<th>Small</th>
<th>Medium</th>
<th>Adult</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Upper Strap, Right</td>
<td>51636</td>
<td>51642</td>
</tr>
<tr>
<td>B. Upper Strap, Left</td>
<td>51636</td>
<td>51642</td>
</tr>
<tr>
<td>C. Lower Strap, Right</td>
<td>52836</td>
<td>51645</td>
</tr>
<tr>
<td>D. Lower Strap, Left</td>
<td>51637</td>
<td>51643</td>
</tr>
<tr>
<td>E. Outside Plate</td>
<td>51638</td>
<td>51651</td>
</tr>
<tr>
<td>F. Inside Plate</td>
<td>51638</td>
<td>51652</td>
</tr>
<tr>
<td>G. Stud</td>
<td>51639</td>
<td>51653</td>
</tr>
<tr>
<td>H. Screw</td>
<td>51640</td>
<td>51654</td>
</tr>
</tbody>
</table>

Step Up Below Elbow Hinge

- Intended for short, below elbow amputees who have a limited range of elbow flexion
- Multiplies the residual limb action of the forearm by a factor of two
- Hinge is made of tool steel which is heat treated and plated for long life

<table>
<thead>
<tr>
<th>Small</th>
<th>Medium</th>
<th>Adult</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Outer Strap, Right</td>
<td>52836</td>
<td>51645</td>
</tr>
<tr>
<td>Outer Strap, Left</td>
<td>51637</td>
<td>51643</td>
</tr>
<tr>
<td>B. Screw</td>
<td>55460</td>
<td>51654</td>
</tr>
<tr>
<td>C. Upper Strap, Right</td>
<td>51636</td>
<td>51642</td>
</tr>
<tr>
<td>Upper Strap, Left</td>
<td>51636</td>
<td>51642</td>
</tr>
<tr>
<td>D. Lower Strap, Right</td>
<td>51479</td>
<td>53987</td>
</tr>
<tr>
<td>Lower Strap, Left</td>
<td>51479</td>
<td>51484</td>
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<tr>
<td>E. Plate</td>
<td>51638</td>
<td>51651</td>
</tr>
<tr>
<td>F. Stud</td>
<td>51481</td>
<td>51488</td>
</tr>
</tbody>
</table>
Below Elbow Hinges

Sliding Action Step Up Hinge

- Variable ratio hinge serves the same purpose as the 51485, MA-100
- Reduces residual limb projection when in flexed position

51500 Sliding Action Hinge, Adult MA-200, 7oz (198.5g), Pair

A. 50675 Hex Nut
B. 51511 Stud
C. 52935 Strap, Right
D. 51504 Strap, Left
E. 51503 Strap, Right
F. 51502 Strap, Left
G. 51510 Washer
H. 51532 Screw
I. 51512 Lock Washer
J. 51509 Bushing
K. 51511 Stud
51508 MA210 Stud Kit (See Page H80)

Single Axis Below Elbow Hinge

- A rugged hinge system designed for heavy duty use

51849 Single Axis Hinge, SP-75; Upper Strap 4.5" (11.4cm), Lower Strap 4.5" (11.4cm), 4.5oz (126g), Pair, Small
51855 Single Axis Hinge, SP-100; Upper Strap 5-1/8" (13cm), Lower Strap 4.5" (11.4cm), 6.5oz (184g), Pair, Regular
51856 Single Axis Hinge, SP-100L; Upper Strap 8-5/8" (21.9cm), Lower Strap 4.5" (11.4cm), 9oz.(255g),Pair, Long

A. Lower Strap, Right
B. Lower Strap, Left
C. Upper Strap
D. Bearing
E. Washer
F. Stud

\[
\begin{array}{ccc}
\text{Small} & \text{Regular} & \text{Long} \\
51850 & 51860 & 51860 \\
53550 & 51859 & 51859 \\
51851 & 51861 & 51862 \\
51853 & 51864 & 51864 \\
51852 & 51863 & 51863 \\
51865 & 51865 & 51865 \\
\end{array}
\]
Hinge Accessories

Below Elbow Hinge Spacer Kit

- For accurate alignment of elbow hinges
- Adjustable for all Hosmer hinges

50188  Spacer Kit BES-100; 10oz (280g)
Includes:
A. 50205 Screw
B. 50204 Washer
C. 50206 Shim
D. 50207 Shim
E. 50203 Nut
F. 53463 Stud
G. 50202 Stud
H. 50201 Stud
I. 50200 Stud

MA210 Stud Kit

51508  Kit MA-210, Repair Parts for 51500, MA-200 Hinge
Includes:
A. 51654 Screw
B. 51513 Screw
C. 50675 Nut
D. 51510 Washer
E. 51511 Stud
F. 51509 Bushing
G. 51512 Star Washer
Flexible Hinges

Hosmer Metal Flexible Hinges

- Hinge may be laminated into the prosthesis or riveted to the outside
- Flexing conforms to the center of rotation of the elbow and permits pronation and supination of the forearm
- A pivot on the cable attachment prevents stress on the stainless steel elements
- Forearm attachment is contoured
- Easy disconnect feature

53574  Flexible Hinge, Short, 4” (10.2cm), 5oz (142g), Pair
53575  Flexible Hinge, Long, 6” (15.2cm), 5.5oz (156g), Pair

A. 53576  Cuff Strap
B. 53578  Lower Laminating Strap
C. 53579  Pivot Pin
D. 50702  Hair Pin Clip
E. 53580  Cuff Strap Retainer
F. 53584  Cable Assembly, 53575
53583  Cable Assembly, 53574

Leather Hinge Kit

- Sold by the pair with a leather check strap
- Ready to rivet to prosthesis and triceps pad
- Used on medium to very long Below Elbow prostheses
- Made of leather backed with dacron tape

51453  Leather Hinge Kit LH-100
Shoulder Joints

Shoulder Flexion Abduction Joint

- Allows independent adjustment of friction for flexion and abduction

51010 Flexion Abduction Joint, Adult; 9oz (255g)
55134 Flexion Abduction Joint, Endoskeletal Model

A. 51011 Strap
B. 51022 Lower Strap
55119 Lower Strap, 55134
C. 51014 Hinge Assembly, Includes F - J, sold as complete assembly
D. 51019 Screw, 4 required
E. 50990 Clamp Center Screw
F. 51016 Clamp
G. 51017 Hinge Pin
H. 50991 Locking Pin, 2 required
I. 51015 Hinge
J. 51018 Spring Pin
K. 51020 Screw
L. 51021 Nut

Universal Shoulder Joint

- Standard friction wrist units allow complete circumduction
- Main axis provides abduction, upper axis provides humeral flexion, lower axis provides humeral rotation

52027 Universal Shoulder Joint w/WE-300N Wrist
as Humeral Section, Small, USJ-75; 6.5oz (184g)
52028 Universal Shoulder Joint w/WE-500N Wrist
as Humeral Section, Standard, USJ-100; 7.5oz (213g)

A. 54313 Universal Shoulder Joint Only, USJ-150
B. 52156 Friction Wrist, Medium, 1 3/4" Diameter, WE-300N, 52027
52160 Friction Wrist, Adult, 2" Diameter, WE-500N, 52028
Shoulder Joints

Shoulder Bulkhead

- Adjustable friction shoulder joint has a round bulkhead, extension stop with full humeral flexion; right or left application.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>51067</td>
<td>Medium Bulkhead FS-75</td>
<td>2 1/2” (7cm) diameter, 6 1/2 oz (184g)</td>
</tr>
<tr>
<td>51066</td>
<td>Small Bulkhead FS-50</td>
<td>2 3/8” (6cm) diameter, 5 1/2 oz (156g)</td>
</tr>
<tr>
<td>51065</td>
<td>Extra Small Bulkhead FS-25</td>
<td>2” (5.1cm) diameter, 3 oz (85g)</td>
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</tbody>
</table>

Shoulder Abduction Joint

- Adjustable friction joint allows abduction of humeral socket
- May be fabricated into the prosthesis at an angle to promote a slight forward movement as the humeral socket is abducted

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>51832</td>
<td>Shoulder Abduction Joint 3oz</td>
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<tr>
<td>A. 51850</td>
<td>Lower Strap, Right</td>
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<tr>
<td>B. 53550</td>
<td>Lower Strap, Left</td>
</tr>
<tr>
<td>C. 51851</td>
<td>Upper Strap</td>
</tr>
<tr>
<td>D. 51834</td>
<td>Bushing</td>
</tr>
<tr>
<td>E. 51833</td>
<td>Brass Washer</td>
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<tr>
<td>F. 51835</td>
<td>Screw</td>
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<table>
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<th>Description</th>
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<tr>
<td>51836</td>
<td>Shoulder Abduction Joint 8oz</td>
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<tr>
<td>A. 52914</td>
<td>Upper Strap</td>
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<td>B. 52859</td>
<td>Lower Strap</td>
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<tr>
<td>C. 51839</td>
<td>Screw</td>
</tr>
<tr>
<td>D. 50667</td>
<td>Locknut</td>
</tr>
</tbody>
</table>
Sierra Nudge Control

- Operates elbow lock when limited shoulder excursion is available
- Includes Cable Slack Adjuster shown below

52521 Sierra Nudge Control, 2.2oz (62.4g), Right
52522 Sierra Nudge Control, 2.2oz (62.4g), Left

A. 52523 Housing, Right, 52521
   52524 Housing, Left, 52522
B. 52525 Main Lever
C. 52526 Lever, Right, 52521
   52527 Lever, Left, 52522
D. 52345 Grooved Pin
E. 52346 Grooved Pin
F. 51057 Screw
G. 52344 Screw
H. 52528 Cover
I. 61580 Cable Slack Adjuster (shown below)
J. 50455 Cable Housing*
K. 50321 Cable*
L. 52348 Screw
M. 50457 Housing Cover*
N. 50423 Ferrule
O. 56119 Connector

*Sold in 25’ lengths

Cable Slack Adjuster

- This device allows easy adjustment of excursion for all devices operated by cables

61580 Cable Slack Adjuster
Cables

**Cable, Swaged Rolls**

- Stainless Steel

50321 Small 3/64" (.119cm) Diameter, C-101; 25' Roll
56858 Small 3/64" (.119cm) Diameter, C-101-101; 100' Roll
55986 Small 3/64" (.119cm) Diameter, 500' Roll
50318 Standard 1/6" (.159cm) Diameter, C-100; 25' Roll
56856 Standard 1/16" (.159cm) Diameter, C-100-100; 100' Roll
56148 Standard 1/16" (.159cm) Diameter; 500' Roll
50319 Heavy Duty 3/32" (.238cm) Diameter, C-100HD; 25' Roll
56857 Heavy Duty 3/32" (.238cm) Diameter, C-100HD-100; 100' Roll
50322 Nylon Coated 3/64" (.119cm) Diameter, C-101P; 25' Roll

**Cable Housing and Housing Liner**

A. 50455 Cable Housing for C-100 and C-101 Cable, CH-100
50456 Cable Housing for C-100HD Cable, CH-100HD, Stainless Steel
   25 foot package, (2 sections of 12.5 ft (3.8 m) length)

B. 50482 Teflon Liner for Heavy Duty Cable Housing (CH-100HD) and Cables of 1/16" (.159cm) Diameter: 25' Roll

**Cable Housing Cover**

50457 Cable Housing Cover, Standard, CHC-100, 25' Roll
50458 Cable Housing Cover, Heavy Duty, CHC-100HD, 25' Roll
Cable Connectors

**Cable Housing Anchors**

- A. 50427  Cable Housing Anchor, Stainless Steel, C-717
- B. 54482  Plastic Retainer, 1/8" (.318cm)
- C. 54483  Plastic Retainer, 3/16" (.476cm)
- D. 54484  Plastic Retainer, 1/4" (.635cm)

**Cable Swaging Tool**

- Requires two of same size
- A. 50520  Cable Swaging Tool
  - 50524  Die 3/64" (.119cm), Replacement
  - 50523  Die 1/16" (.159cm), Replacement
  - 50522  Die 3/32" (.238cm), Replacement

**Triple Swivels**

- 9/32" (.71cm) diameter ball for hooks
- Furnished with grommet 50448 (C-759)
- A. 50348  Triple Swivel for 1/16" (.159cm) Cable, C-701
- B. 50352  Triple Swivel for 3/64" (.119cm) Cable, C-701A
- C. 50353  Triple Swivel for 3/32" (.238cm) Cable, C-701HD
- 50448  Rubber Grommet, C-759

**Ball Terminals 3/16"**

- 3/16" (.48cm) diameter ball
- For most hands
- A. 50354  Ball Terminal for 1/16" (.159cm) Cable, C-703
- B. 50355  Ball Terminal for 3/64" (.119cm) Cable C-703A
- C. 50356  Ball Terminal for 3/32" (.238cm) Cable, C-703HD
Cable Connectors

**Retainers**

- **A.** 50361 Retainer for Standard CH-100 Housing, Aluminum, C-709
- **B.** 50364 Retainer for Standard CH-100 Housing, Stainless Steel, C-709S
- **C.** 50363 Retainer for HD Cable Housing, Stainless Steel, C-709HD

**Cable Connectors**

**Ball Terminals 9/32”**

- 9/32” (.71cm) diameter ball

  - **A.** 50357 Ball Terminal for 1/16” (.159cm) Cable, C-704
  - **B.** 50358 Ball Terminal for 3/64” (.119cm) Cable, C-704A

**Ball Receivers**

  - **A.** 50411 3/16” (.476cm) Receiver for 1/16” (.159cm) Cable, C-713
  - **B.** 50419 3/16” (.476cm) Receiver for 3/64” (.119cm) Cable, C-713A
  - **C.** 50415 3/16” (.476cm) Receiver for 3/32” (.238cm) Cable, C-713HD
  - **D.** 50422 9/32” (.714cm) Receiver for 1/16” (.159cm) Cable, C-714
  - **E.** 57072 3/16” (.476cm) Receiver for 1/16” (.159cm) Cable, C-713L, w/Sliding Cover

**Base Plates**

  - **A.** 50359 Base Plate for Retainer, C-708; Including Rubber Disc, 50360
  - **B.** 50360 Rubber Disc, C-708A

**Retainers**

- **A.** 50361 Retainer for Standard CH-100 Housing, Aluminum, C-709
- **B.** 50364 Retainer for Standard CH-100 Housing, Stainless Steel, C-709S
- **C.** 50363 Retainer for HD Cable Housing, Stainless Steel, C-709HD
Cable Connectors

Stainless Ferrule

50423  Ferrule for Standard Size Cable Housing, C-715
50424  Ferrule for Heavy Duty Cable Housing, C-715HD
61445  Ferrule for Heavy Duty Cable Housing and Teflon® Liner

Control Cable Insulator

• Provides 15kV resistance to help protect patient from electrical shock
• May be swaged or soldered onto the cable receiving terminals

50428  Insulator for 1/16" (.159cm) Cable
53365  Insulator for 3/32" (.238cm) Cable

NOTE: There is no guarantee implied nor warranted that the insulator will shield the patient from shock

Cable Kits

• For all cable sizes:  1/16“, 3/64“ or 3/32“
• Provides enough components to make 6, 10, or 20 AE or BE Control Systems

<table>
<thead>
<tr>
<th>Kits Include:</th>
<th>Cable Size</th>
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<tbody>
<tr>
<td></td>
<td>1/16“ (.159cm)</td>
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<tr>
<td>Swivels</td>
<td>52644</td>
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<tr>
<td>Ball Terminals</td>
<td>52646</td>
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<tr>
<td>Retainers</td>
<td>52648</td>
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<tr>
<td>Cross Bars</td>
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<tr>
<td>Hangers</td>
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<tr>
<td>Lift Assemblies</td>
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<td>Ferrules</td>
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<tr>
<td>Cover</td>
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</tr>
<tr>
<td>Base Plates</td>
<td></td>
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</tbody>
</table>
Cable Hangers

Adjustable Hanger

- Accepts 1/16” (.159cm) or 3/64” (.119cm) diameter cable

50434 Adjustable Hanger, C734

Elbow Lock Cable Hanger

50747 Cable Hanger for 1/2” (1.27cm) Tape, for 3/64” cable

Hangers

A. 50374 Hanger for 1/16” (.159cm) Cable, 1” (2.54cm) Webbing, C-711
B. 50377 Hanger for 3/64” (.119cm) Cable, 1” (2.54cm) Webbing, C-711A
C. 50383 Hanger for 3/32” (.238cm) Cable, 1” (2.54cm) Webbing, C-711HD
D. 50384 Hanger for 1/16” (.159cm) Cable, 3/4” (1.9cm) Webbing, C-711M
E. 50387 Hanger for 3/64” (.119cm) Cable, 3/4” (1.91cm) Webbing, C-711MA
F. 50378 Hanger for 1/16” (.159cm) Cable, 1/2” (1.27cm) Webbing, C-711C
G. 50381 Hanger for 3/64” (.119cm) Cable, 1/2” (1.27cm) Webbing, C-711CA
H. 50382 Hanger for 3/32” (.238cm) Cable, 1/2” (1.27cm) Webbing, C-711CHD (Not Shown)
## Harness Clips and Cross Bar Components

### Anchor Plates

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>50370</td>
<td>Anchor Plate for All Sizes, C-710C</td>
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### Cross Bars

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>50366</td>
<td>Cross Bar, Standard, C-710A</td>
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<tr>
<td>50367</td>
<td>Cross Bar, Heavy Duty, C-710AHD</td>
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### Housing Cross Bar Assembly

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<th>Code</th>
<th>Description</th>
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<td>50365</td>
<td>Housing Cross Bar Assembly, Standard Size, C-710</td>
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<tr>
<td>50373</td>
<td>Housing Cross Bar Assembly, Heavy Duty, C-710HD</td>
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### Leather Cross Bar

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>50368</td>
<td>Leather Cross Bar, Standard, C-710B</td>
</tr>
<tr>
<td>50369</td>
<td>Leather Cross Bar, Heavy Duty, C-710BHD</td>
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</tbody>
</table>

### Nylon Detachable Suspension Clips

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<tr>
<th>Code</th>
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<tr>
<td>55102</td>
<td>Clips for 1/2” (1.27cm) Harness</td>
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<tr>
<td>55101</td>
<td>Clips for 1” (2.54cm) Harness</td>
</tr>
<tr>
<td>55100</td>
<td>Clips for 1-1/2” (3.81cm) Harness</td>
</tr>
</tbody>
</table>
Forearm Lift Assemblies

**Forearm Lift Assembly**

A. 50388 Lift Assembly for Standard Size Cable Housing, C-712
B. 50408 Lift Assembly for Heavy Duty Housing, C-712HD

- 50401 Screw
- 50409 Rivet
- 50410 Spacer
- 50402 Rivet Cap
- 50389 Leather, for 50388
- 50452 Leather, for 50408

**Deluxe Forearm Lift Assembly**

- Special forearm post screw eliminates lock nuts and prevents loosening

A. 50403 Deluxe Lift Assembly for Standard Housing, C-712D
B. 50405 Deluxe Lift Assembly for Heavy Duty Housing, C-712DHD

- 50407 Screw, 50403 and 50405
- 50409 Rivet
- 50404 Base, 50403 and 50405
- 50402 Rivet Cap
- 50389 Leather, 50403
- 50452 Leather, 50405

**Northwestern Lift Tab Drilling Jig**

- 51040 Forearm Lift Tab Jig, FLJ-100
- 51042 Replacement Screw
Hook To Hand Accessories

APRL Sheave (Excursion Amplifier)

- Doubles cable excursion

A. 50442 APRL Sheave, C-735, Offset Pull
B. 50438 APRL Sheave, Deluxe, w/Removable Face, C-735DX for use with 1/16” (.159cm) Cable, Straight Pull
C. 50439 Cable Pulley for 50438 (Deluxe APRL Sheave)
D. 50433 Cable Pulley for 50442 (APRL Sheave)

Cosmetic Arm Terminal

- Designed to receive a 3/16” (.476cm) ball
- Mounted on forearm
- Allows interchange from hook to passive hand

50425 Cosmetic Arm Terminal, C-716

Hook to Cable Adapter

A. 50444 9/32” (.714cm) Ball One End, Receiver for 3/16” (.476cm) Ball On The Other End. 1/16” (.159cm) Cable, C-740
B. 50445 9/32” (.714cm) Ball One End, Receiver for 3/16” (.476cm) Ball On The Other End. 3/64” (.119cm) Cable, C-740A
C. 50446 9/32” (.714cm) Ball One End, Receiver for 3/16” (.476cm) Ball On The Other End. 3/32” (.238cm) Cable, C-740HD
D. 50447 9/32” (.714cm) Ball One End, Receiver for 9/32” (.714cm) Ball On The Other End. 1/16” (.159cm) Cable, C-741
Harnesses

Northwestern Ring Harness

- Fabricated with high grade Dacron web tape
- Stainless steel anchor ring prevents binding or bunching
- 4-bar buckles, axilla loop, "Y" strap and anterior suspension
- Furnished ready to fit

Below Elbow

- 71787  BE Bilateral Harness, Adult
- 51586  BE Northwestern Ring Harness Kit, NRH-75, 1/2" (1.3cm), Child
- 51588  BE Northwestern Ring Harness Kit, NRH-85, 3/4" (1.9cm), Medium-Small
- 51600  BE Northwestern Ring Harness Kit, NRH-100, 1" (2.5cm), Adult

Above Elbow

- 71786  AE Bilateral Harness, Adult
- 51602  AE Northwestern Ring Harness Kit, NRH-175, 1/2" (1.3cm), Child
- 51603  AE Northwestern Ring Harness Kit, NRH-185, 3/4" (1.9cm), Medium-Small
- 51604  AE Northwestern Ring Harness Kit, NRH-200, 1" (2.5cm), Adult

Heavy Duty Harness

- Heavy duty used for either AE or BE prostheses
- Fabricated with leather shoulder saddle and chest strap
- AE socket is attached with leather straps and "D" rings

- 51152  Heavy Duty Harness, HD-100R, Right
- 51151  Heavy Duty Harness, HD-100L, Left

Michigan Roller Harness

Modified version of the Heavy Duty Harness, suspends the socket with cable and housing

- 53904  Michigan Roller Harness, MRH-100R, Right
- 51514  Michigan Roller Harness, MRH-100L, Left

Shoulder Disarticulation Prosthesis Harness

- Conventional chest strap harness
- Chest expansion generates cable excursion which operates terminal device or elbow lock

- 51842  Shoulder Disarticulation Harness, SDH-200
### Harness Accessories

#### Buckles

- Stainless steel
- Provided added security and ease of adjustment to harnesses

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Four Bar Buckle, FBB-75; 1/2&quot; (.127cm)</td>
<td>51026</td>
</tr>
<tr>
<td></td>
<td>Four Bar Buckle, FBB-85; 3/4&quot; (1.91cm)</td>
<td>51027</td>
</tr>
<tr>
<td></td>
<td>Four Bar Buckle, FBB-100; 1&quot; (2.54cm)</td>
<td>51028</td>
</tr>
<tr>
<td>B</td>
<td>Safety Buckle, 1/2&quot; (.127cm)</td>
<td>54884</td>
</tr>
<tr>
<td></td>
<td>Safety Buckle, 1&quot; (2.54cm)</td>
<td>70178</td>
</tr>
</tbody>
</table>

#### Northwestern Harness Rings

- Solid stainless steel ring

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Northwestern Harness Ring, Small, NRH-76; 1-13/16&quot; (4.6cm)</td>
<td>51587</td>
</tr>
<tr>
<td>B</td>
<td>Northwestern Harness Ring, Medium, NRH-86; 2-1/8 (5.4cm)</td>
<td>51589</td>
</tr>
<tr>
<td>C</td>
<td>Northwestern Harness Ring, Large, NRH-101; 2-7/16&quot; (.6.2cm)</td>
<td>51601</td>
</tr>
</tbody>
</table>

#### Axilla Loop Pads

- Preshaped plastic tube; pads and protects dacron tape
- 13-1/4" (33.7cm)

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Axilla Loop Pad, Small for 1/2&quot; (1.27cm) Tape, ALP-75</td>
<td>50114</td>
</tr>
<tr>
<td>B</td>
<td>Axilla Loop Pad, Large for 3/4&quot; (1.91cm) or 1&quot; (2.54cm) Tape, ALP-100</td>
<td>50115</td>
</tr>
</tbody>
</table>
BE Prostheses Cuffs

Molded Cuffs

- Available to comply to patient’s requirements when cast and measurements are provided

58347 Molded Full Cuff, BEC-400

Bulk Cuff Material

- Laminated with standard pigments
- Furnished in rolled sheets, 12” x 24” (30.5 x 61cm)

51464 Laminated Plastic Material, LPM-100, (Specify Color)

Triceps Pads and Biceps Cuffs

- Laminated to match the BE Prostheses
- Triceps Pads furnished with dacron straps, half and full Cuffs furnished with “Y” straps
- Available in leather or polypropylene at an additional cost

58339 Triceps Pad, BEC-120, Child
58338 Triceps Pad, BEC-140, Medium-Small
50185 Triceps Pad, BEC-160, Adult
58337 Triceps Pad, Custom Made, BEC-100
56231 Triceps Pad Only

58341 Biceps Half Cuff, BEC-220, Child
58342 Biceps Half Cuff, BEC-240, Medium-Small
58343 Biceps Half Cuff, BEC-260, Adult
58340 Biceps Half Cuff, Custom Made

58346 Biceps Full Cuff, BEC-320, Child
58345 Biceps Full Cuff, BEC-340, Medium-Small
58344 Biceps Full Cuff, BEC-360, Adult
50191 Biceps Full Cuff, Custom Made
Prefabricated Forearms

- Laminated in three pigment colors
- Prefabricated Forearm components may be purchased separately OR you may order a setup already assembled with forearm and elbow
- Wrists are sold separately; specify type when ordering
- Forearms may be cut to length

### PREFABRICATED FOREARMS: Measurement Chart

<table>
<thead>
<tr>
<th>Size</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>Large (50mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elbow Type</td>
<td>E-50 and E-50F</td>
<td>E-200 and E-200F</td>
<td>E-400 and E-400F</td>
<td>E-400 and E-400F</td>
</tr>
<tr>
<td>Elbow Diameter</td>
<td>2&quot; 51mm</td>
<td>2-3/8&quot; 61mm</td>
<td>2-13/16&quot; 71mm</td>
<td>2-13/16&quot; 71mm</td>
</tr>
<tr>
<td>Forearm Length</td>
<td>4.5&quot;-9.0&quot; 114-229mm</td>
<td>5.5&quot;-11.0&quot; 140-279mm</td>
<td>6.5&quot;-13.0&quot; 165-330mm</td>
<td>6.5&quot;-13.0&quot; 165-330mm</td>
</tr>
<tr>
<td>Forearm Diameter</td>
<td>O.D. I.D. 38mm 34mm</td>
<td>O.D. I.D. 45mm 40mm</td>
<td>O.D. I.D. 50mm 45mm</td>
<td>O.D. I.D. 55mm 50mm</td>
</tr>
<tr>
<td>Wrist Diameter</td>
<td>D1 D2 38mm 34mm N/A N/A</td>
<td>D1 D2 45mm 40mm N/A N/A</td>
<td>D1 D2 50mm 45mm 50mm</td>
<td>D1 D2 55mm 50mm (Bock)</td>
</tr>
</tbody>
</table>

### COMPONENTS: Sold Separately

**FOREARMS**
- Forearm, Caucasian
  - 57941 57940 57939 57509
- Forearm, Latin
  - 57546 57545 57544 57510
- Forearm, Negroid
  - 57549 57548 57547 57511

**ELBOWS, W/O Saddles**
- Elbow, Standard
  - 54446 54445 54444 54444
- Elbow, Friction
  - 54449 54448 54447 54447

**WRISTS**
- WE-500N Style
  - 57932 N/A 57938 N/A 57935 57062 50mm Bock Wrist
- WE-500 Style
  - N/A N/A N/A N/A

### SETUPS: Assembled with forearm and elbow; order wrist separately

<table>
<thead>
<tr>
<th>SETUP</th>
<th>Small E-50</th>
<th>Medium E-200</th>
<th>Large E-400</th>
<th>Large E-400</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOREARM w/ELBOW</td>
<td>FOREARM, Caucasian</td>
<td>FOREARM, Latin</td>
<td>FOREARM, Negroid</td>
<td></td>
</tr>
<tr>
<td>- 57540</td>
<td>57541</td>
<td>57542</td>
<td>57512</td>
<td></td>
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<tr>
<td>- 57505</td>
<td>57504</td>
<td>57503</td>
<td>57513</td>
<td></td>
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<tr>
<td>- 57508</td>
<td>57507</td>
<td>57506</td>
<td>57514</td>
<td></td>
</tr>
</tbody>
</table>

**WRISTS**
- WE-500N Style
  - 57932 N/A 57938 N/A 57935 50mm Bock Wrist
- WE-500 Style
  - N/A N/A N/A N/A
Central Fabrication

Central Fabrication Technical Services
Quality Central Fabrication Services are available from Hosmer. Please refer to Customer Service (800) 827-0070 for more information and pricing.

Modified Check Socket with Markings
All modifications and test fittings should be completed before sending the check socket to Hosmer.

Markings should include:
- Trim and Alignment lines
- Measuring Reference Points (acromion, etc.)
- Component Placement Sites
- Electrode Placement Sites
- Patient Name, Facility Name, Address, Phone Number and Contact Name

Measurement Chart
A complete filled in measurement chart provides us with specific details necessary for fabrication of your patient prosthesis. See the Appendix for a sample measurement chart (available in English or Spanish); call Customer Service to order a supply of charts.
- Left or Right
- Color of Prosthesis
- Construction
- Component list
- Type of Socket
- Special Adaptations

Tracings
Tracings are required for the following:
- Shoulder Disarticulation
- Interscapular Thoracic
- Detail required:
  a) Thoracic mid-line
  b) Alignment Lines
  c) Joint Center
  d) Lengths and Circumferences
Modular Endoskeletal System

- A versatile system with many options
- Call our customer service representatives for additional information on Modular Endoskeletal configurations
- Externally powered components should be considered for the high level amputee

55134 Shoulder Joint Assembly (see page H85)
- Recommended for the shoulder disarticulation patient

55132 Socket Adaptor
55573 Pylon Tube Kit

Cosmetic Cover Kits
Includes foam and stockinette
56217 Above Elbow
56886 Below Elbow

Endo Electric Elbow
57442 Medium
57443 Large

Manual Lock Elbow
55170 Right
56344 Left

Alternating Lock Elbow
55135

55109 Socket Adaptor

55573 Pylon Tube Kit

71983 Pylon Connector
56012

60826 Flare Adaptor

55573 Pylon Tube Kit

71983 Passive Wrist
56966 Passive Wrist

56658 Forearm Lift Kit

Distal Attachment Ring
56758 Small
56255 Large

56217 Above Elbow
56886 Below Elbow

571988 Friction Wrist

Distal Attachment Ring
56758 Small
56255 Large

A-Socket Not Included

Medium-Short BE Endoskeletal
A. Socket (Not Included)
B. 55132 Socket Adaptor
C. 55573 Pylon Tube Kit
Includes:
71991 Friction Washer
71993 Tube Sleeve
71984 Collar
71990 Pylon Tube
D. 71983 Passive Wrist, 1/2-20 Thread
56966 Passive Wrist, 12mm Thread
E. Distal Attachment Ring

Long BE Endoskeletal
A. Socket (Not Included)
B. 55573 Pylon Tube Kit
Note: Cut and bend over socket or use PVC pipe
C. 71988 Friction Wrist
D. Distal Attachment Ring
Modular Endoskeletal System

**Endoskeletal Electric Elbow**

- 57442  Endoskeletal Electric Elbow, Medium
- 57443  Endoskeletal Electric Elbow, Large

**Manual Lock Elbow**

- 55170  Manual Lock Elbow, Right
- 56344  Manual Lock Elbow, Left

**Alternating Lock Elbow**

- 55135  Alternating Lock Elbow

**Endoskeletal Elbow**

- 60012  Endoskeletal Locking Elbow, 8 locking positions

Flare Adaptor Not Included w/60012
Modular Endoskeletal System

**Flare Adapter For Endoskeletal Elbow**

60826  Flare Adapter  
59724  O – Ring

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**Forearm Lift Kit**

56658  Forearm Lift Kit

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**Socket Adapter**

- CAPP Wrist may be used as a socket adaptor for the upper extremity endoskeletal system.  
- Constant friction applied with a unique friction adjustment collar

55109  Socket Adapter CAPP Wrist 1413,  
1-3/4” (4.4cm) Diameter; 1oz (28g)  

A.  55106  Housing, 55109  
B.  59711  Clamp Assembly  
C.  56661  Socket Head Screw  
      55313  Allen Wrench (Not Shown)

---

**Socket Adapter**

55132  Socket Adapter  
59724  O – Ring
Modular Endoskeletal System

Passive Wrist

- 71983 Passive Wrist, 1/2-20 Thread
- 56966 Passive Wrist, 12mm Thread

Friction Wrist

- 71988 Friction Wrist

Distal Attachment Rings

- 56758 Distal Attachment Ring, Small
- 56255 Distal Attachment Ring, Large

Pylon Tube Kit

- 55573 Pylon Tube Kit
  Includes:
  A. 71991 Friction Washer
  B. 71993 Tube Sleeve
  C. 71984 Collar
  D. 71990 Pylon Tube
Modular Endoskeletal System

Shoulder Joint

55134  Flexion Abduction Joint, Endoskeletal

A.  51011  Upper Strap
B.  55119  Lower Strap
C.  55541  Flare Fitting
D.  51019  Screw, 8-32 .375 Soc HD SST, 2 Req.
E.  59724  O Ring .734 ID 1" OD
F.  51014  Hinge Assembly

Includes:
G.  51019  Screw, 4 Req.
H.  50990  Clamp Center Screw
I.  51016  Clamp
J.  51017  Hinge Pin
K.  50991  Locking Pin, 2 Req.
L.  51015  Hinge
M.  51018  Spring Pin
N.  51020  Screw
O.  51021  Nut

Cosmetic Cover Kits

• Includes foam and stockinette

56217  AE Cosmetic Cover Kit
56886  BE Cosmetic Cover Kit