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# BT is now over 25 years old. We ve worked on dozens of projects, grown and shrunk and grown again 

 in size, and changed offices several times. One thing hasn't changed over time - the love of our homecity of Baltimore. We think it's a wonderful place: hopefully this edition of the catalogue inspires you to visit us.

## WHAT IS PATTERN RECOGNITION?

Pattern recognition is the foundation of modern gesture-based control for prostheses. At its core is a learning algorithm tha a data imprint of your muscle movements for each grip. Then, while running in real-time, whenever the system sees the same movements, it changes to the corresponding hand grip.

With up to eight electrodes in one prosthesis, there's a lot more to
work with than just open and close. Pattern recognition gives you
free range to go into any grip you want. You're not locked into one
particular grip, and you don't need to cycle through other grips to get to the one you want. With Sense, you're always within one step




## SENSE

$\qquad$
US FDA $510(\mathrm{k})$ approved
ELBows
Ottobock ErgoArm Hybrid Plus (12K44)
Ottobock AxonArm Ergo (with Michelangelo Hand and AxonRotation only)
Motion Control Utah Arm U3+ Hosmer E2 Electric Elbow
Espire Pro, Espire Hybrid Elbow
WRISTS
Motion Control Standard Wrist

Taska Hand
Ossur i-Limb Quantum
Ottobock Michelangelo Hand
Steeper bebionic series
ittobock SensorHand Speed, MyoHand VariPlus Speed Ottobock SensorHand
Ottobock bebionic
Motion Control ProPlus Hand, ProETD, ProETD2
Ossur iLimb Ultra, iLimb Access
Cowvi Nexus


| SENSE FOR E2 ELBOW | PART NUM. |
| :--- | :---: |
| TASKA Hand + Wrist | $70101-9-1$ |
| iLimb Quantum + Wrist | $70101-9-10-1$ |
| TASKA Hand, No Wrist | $70101-10-3$ |
| iLimb Quantum, No Wrist | $70101-11$ |
| Hands without grip control + Wrist | $70101-12$ |
| Hands without grip control, No Wrist | PART NUM. |
| SENSE FOR U3+ ELBOW | $70101-14$ |
| U3+ Elbow |  |
| order U3+ P/N 5010039, 40, 41 with P/N 3010677 for iLimb/bebionic battery upgrade |  |
| SENSE FOR PASSTHROUGH ELBOW | PART NUM. |
| Hands + grip control, + Wrist | $70101-5$ |
| Hands + grip control, No Wrist | $70101-6$ |
| Hands without grip control + Wrist | $70101-7$ |
| Hands without grip control, No Wrist | $70101-8$ |
| Sense System includes: |  |
| 8 IBT Electrodes, 8 molding dummies for IBT Electrodes |  |

## NOTES

Sense requires a FlexCell Battery Kit, sold separately. The only exception is for the system and Michelangelo hanc which do not need a FlexCell kit.

Orders for TASKA Hand and No Wrist will come with a 6 -band coaxial plug.

Orders for TASKA Hand + Wrist must be for a Motion Control Standard Wrist (P/N 501045 54 , or 55) with upgrade 3010869

Order Ottobock 10S17 or Motion Control Standard Wrist 501045 , 54 , or 55 , if you wish to use a wrist without hand grip control

Android phone provided only if the user does not already have one

Sense Controller, Sense Controller molding dummy
Android phone with pre-installed Sense App


## ELGMENT

When we started building electrodes for our pattern recognition system, we realized that people may want to use these electrodes for direct control systems as well. We know a prosthetist has a multitude of electrodes to choose from. So, why would IBT enter that market now?

We'll tell you why. With a Bluetooth-enabled controller, your electrode system can be fully sealed off. That means no more drilling holes into the socket to adjust gains or check if the electrode is connected properly. With the Element software, everything you need to know about the electrodes is possible without ever opening up the prosthesis again.

Combined with sophisticated noise-rejection algorithms and the smallest form factor of encapsulated electrodes, IBT electrodes are the next step in our goal to provide unparalleled control to prosthetic hands.


ELEMENT

For Coaxial Plug, Ottobock Wrist, or ProWrist**
80101-1 For DynamicArm

ACCESSORIES
Molding dummy for IBT Electrodes Molding dummy for Signal Processing Box (BT Electrode, spare
$\qquad$ Motion Control, part number 1701064. Each Element system includes 2 IBT Electrodes, 2 molding dummies for electrodes,
Element signal processing box, Element desktop software, and USB Bluetooth ${ }^{\circledR}$ Adapter


## FLEXCELL

The battery that started it all. With over ten years on the market, our first product exemplifies the goals we strive to achieve in all of our work at IBT: solve a key need, exemplifies the goals we strive to achieve in all of our work at IBT: solve a key need,
lead the way with innovation, and build a quality product. If you have used FlexCells in the past - Thank you! If you haven't used it yet, we invite you to see how FlexCells can simplify your fabrication and make power issues a thing of the past.



## TOUGHWARE

ToughWare Prosthetics develops and manufactures cutting-edge, afioroable prosthetic gear for amputees who need dependable performance. New polymer and alloy materials, state-of-the-art manufacturing processes, and innovative engineering ensure our designs delight users worldwide with robust simplicity, functionality, and longevity in service. ToughWare builds products that put the user in the driver's seat. There are no worries about getting them wet or expensive adjustments and repairs - they just work.



## Equilux

The ToughWare Equilux is the world's first body-powered hook that can switch between voluntary-opening and voluntary closing mode with the flip of a lever. Having the choice of both of functional ability.


V2P
This voluntary opening terminal device uses a simple slide selector that allows the user to select the pinch force that selector that allows the user to select the pinch force that is appropriate for each task. The power is there when you
need it. The ability to choose a lighter grip also saves stress that the harness places on the body.


The ITAL is designed to provide a fully functional, body-powered, transradial prosthesis without the need for custom fabrication. It can be fit in a matter of minutes and is an excellent choice for an immediate post-operative fitting. A lightweight, ventilated design allows for use in the worst environments.

Self-suspension is achieved using an innovative Humeral Suspension Cuff (HSC) that can be easily adjusted for comfort or to allow for limb volume changes. The HSC can be ordered separately to be used to suspend a custom fabricated prosthesis

EQUILUX
Equilux Vo/VC Terminal Device
Equilux Vo/VC Replacement Pad Set

V2P
Vari-Pinch Prehensor (V2P) - Stainless Stee
Vari-Pinch Prehensor (V2P) - EMS Grivory ${ }^{\circ}$
Replacement Tip Boot Set
Black Rubber Band Set
Elastic Bungee Ring (Band Replacement)
Ball Terminal Connector Plate - $9 / 32^{\prime \prime}$ Ball
Ball Terminal Connector Plate $-3 / 16^{\prime \prime}$ Ball
Thumb Plate
No-Thumb (Filler) Plate

## RETRO CLASSIC HOOK

Retro Classic Hook - Lite Spring
Retro Classic Hook - Standard Spring Retro Classic Hook - Heavy Spring Retro Classic Hook Spring Kit (Lite) Retro Classic Hook Spring Kit (Standard) Retro Classic Hook Spring Kit (Heavy)

2P-207-R/L-BK/MT/XX ${ }^{+}$ V2P-307-R/L-BK/BN ${ }^{\ddagger}$ V2P-B00т-BK V2P-RBND-BK V2P-BNG-BK V2P-CPLT-932 V2P-CPLT-316
V2P-TPLT
V2P-NTPLT

RCH-050-R/L-BK/MT/XX ${ }^{+}$ RCH-100-R/L-BK/MT/XX ${ }^{+}$ RCH-200-R/L-BK/MT/XX ${ }^{+}$

RCH-LITE-SPRING RCH-STND-SPRING RCH-HVY-SPRING

ITAL
nternational Transradial Limb (ITAL) / EMS Grivory ${ }^{\circ}$ V2P Unit International Transradial Limb (ITAL) / Equilux VO/VC Unit Ventilated Transradial Sport Socket
Adjustable Humeral Suspension Cuff
Four (4) Piece Strap Set
Swivel Retainer Kit
Humeral Cuff Suspension Strap Kit
TAL Service \& Fitting Tool Kit

ITAL-307-SM/MD/LG-R/L-BK/BN ${ }^{\ddagger}{ }^{\ddagger}$ ITAL-EQX-SM/MD/LG-R/L-BK/BN ${ }^{\ddagger+2}$
VTSS-SM/MD/LG-R/L-BK/BN ${ }^{\ddagger 2}$
HSC-SM/MD/LG-BK/BN ${ }^{\ddagger 2}$
${ }^{\text {ITAL-STP-BK/BN }}{ }^{\ddagger}$ ITAL-SRK-BK HCSC-KIT ITAL-TOOL-KIT

## ACCESSORIES

Ruick-Disconnect (QD) Detachable Harness Hanger
Quick-Disconnect (QD) Detachable Ball Terminal--Short Versio
Uick-Disconnect (a) ) Dialle minal-Short Versio
Uick-Disconnect (QD) Detachable Ball Terminal--Bent
Quick-Disconnect (Qa)
Ontrol Cable Set
QD-DBS-SS
QD-DBS-S QD-DBB-SS

Rubber Grommets ( 6 Pcs)
R/L denotes Right-(R) or Left-(I) side unit --Select either $R$ or $L$ P Part Number
R/L denotes Right-(R) or Left-(L) side unit --Select either R or Lin Part Number.
Color Code: Black (BK), Brown (BN), Metal (MT), Silver (SV), Custom (XX)-Insert one color code (BK,BN,MT,XX) into Part Number.

## AN IBT PARTNER COMPANY

## POINT DESIGNS

 building and testing prostheses. Point's innovative 3 D metal printed manufacturing process ensures uperior strength of their devices, while maintaing a , weight.

POINT PARTIAL
7 locking levels of flexion Anatomical rotation about the patient's PIP joint 3 lengths: 45,50 , and 55 mm , measured from PIP joint center to fingertip

POINT DIGIT \& POINT DIGIT MINI

Up to 11 locking levels of flexion
Anatomical rotation about the patient's MCP joint
11 lengths, measured from MCP joint center to fingertip: $55,60,65,70,75 \mathrm{~mm}$ for Point Digit Mini, and $80,85,90,95,100$, and 105 mm for Point Digit

POINT THUMB
11 locking levels of flexion
Anatomical rotation about the patient's MCP joint
3 lengths: 59,66 , and 73 mm , measured from MCP joint center to fingertip

Point Digit
PNTDG2-XXX-G
PNTMN-XXX-G
PNTDG012MK-L
PNTDG012MK-R

Point Digits
point designs
The Point Digits are mechanical, passive (i.e. not powered) and robust articulating prosthetic fingers. They use a ratcheting mechanism that enables 11 unique positions ( 7 for Point Partial) of flexion. They also feature integrated compliant, touchscreen-compatible fingertip pads for enhanced grip. A semi-hollow titanium construction ensures a high strength-to-weight ratio.

" User positions the Point Digit levels of flexion by pushing the fingertip against an opposing surface (e.g. leg, table, etc.)
" The Point Digit automatically locks into place, enabling the user to perform desired task.
" The Point Digit is extended from a locked position by either pushing the release button or fully flexing the digit to engage the auto-spring-back feature.

MOUNTING KITS
" Steel construction for high strength -300 lb tear out strength
Tor $\mathrm{T}^{\text {TM }}$ screws are used to minimize stripping and tampering


FOR POINT DIGIT \& POINT DIGIT MINI
» Breakaway design for easy integration into socket for 1-4 Point Digit or Point Digit Mini systems
» Mounting bracket shape enables anatomical flexion with adduction of multiple digit installations
» Mounting areas are labeled for intuitive orientation and installation


Bendable tabs for easy tacking during alignment and strength after lamination
" Alignment tool demonstrating full flexion/extension enables alignment without using prosthetic digit
» Alignment transfer post provides secure attachment during transfer of alignment from diagnostic socket Lamination spacers maintain mounting area during bracket embedding process

MIDWEST PROCAD

Midwest ProCAD is the result of years of dedication to helping amputees get back to doing what they love. When founder, Matt Razink, lost his arm in a construction accident, he didn't know how he would be able to work again. With limited available options, he chose to create his own product that has all the features he needed to start living his new normal. The results are durable prosthetic devices that can be customized to fit a person's exact needs.





