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MOUNTING SPEECH GENERATING DEVICES AND TABLETS TO WHEELCHAIRS

Michelle L. Lange, OTR/L, ABDA, ATP/SMS



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Mounting AT to Wheelchairs

- Speech Generating Devices (SGDs)
 - Larger
- Smaller (less than 5 lbs)
- Computers
 - Notebooks
 - Tablets



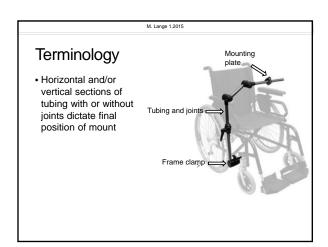
Dynavox T Series

M. Lange 1.2015 Poll Time • Are you working with Mounting Systems? • I recommend them • I mount them Nope • I would like to! Whose Job is This? Recommendation • Partly, it comes down to funding • If the SLP orders a mount with the device, then the SLP may need to "spec" this out • If the wheelchair supplier orders the mount, they may "spec" this • Sometimes, it is the Occupational Therapist The OTR may determine the optimal SGD access, placement and mounting system M. Lange 1.2015 Whose Job is This? Ordering and Funding • If the mount is ordered with the SGD, funding may be for both and the SLP typically does this • If the mount is ordered with a new wheelchair frame, the wheelchair supplier may order the mount, or at least a new frame clamp • If a mount is ordered alone, whoever can pursue funding may order

Whose Job is This: Mounting

- Who holds the Allen wrenches?
- Typically, whoever ordered the mount
- The wheelchair supplier often knows how, but if they did not pursue funding, they will not put on the mount
- Mounting is usually too difficult for a client or caregivers to do competently
- Whoever attaches the mounting system must be competent and assumes liability

Terminology • Frame Clamp attaches to frame and is designed to fit a specific shape and diameter Tubing and joints Frame clamp



Terminology • Mounting Plate connects the mount to the AT device. A device adaptor may be required. Mounting plate Tubing and joints Frame clamp

Terminology

• SGDs must have an adaptor plate on the device, as well

Device Adaptor

Mounting Plate

Why Mount?

• Access

• Direct

• Head Mouse

• Eye Gaze

• Visual Regard

• Security

• Falling

• Theft

How Do I Get Started?

- Device Type
- Device Placement
- Mount Placement

How Do I Get Started?

- Device Type
- · Which device?
- What mounting plate will be required?
- Will a device adaptor be required for the device itself?
- Choose appropriate mounting category



How Do I Get Started?

- Device Placement
 - Determine approximately where the device needs to be placed
 - For optimal visual regard and access
 - Within boundaries of wheelchair so device doesn't get bumped
 - i.e. through doorways
 - · Not blocking client's view of
 - Communication partner
 Blackboard

 - Where they are propelling MWC or driving PWC

M. Lange 1.2015 How Do I Get Started? Mount Placement • Where will the frame clamp be placed based on desired device placement? Place above tilt · Avoid moveable parts • Ensure mount can move out of the way for transfers · Fold, swing-away or remove Ensure mobility base will not tip over from weight of mount and device if to the side during transfers Ordering Help • Some Mounting manufacturers offer additional help • For example, take photos from several directions holding the device where you want it in relation to the wheelchair • They will spec out what you need! REHAdapt VMS M. Lange 1.2015 Questions?

M. Lange 1.2015 Mounting Speech Generating Devices (SGDs) Mounting: SGDs • Larger devices include: • Dynavox Maestro • PRC ECO, Essence • Tobii • Smaller devices include: • Dynavox T series • PRC Accent Saltillo NovaChat series Mounts for Larger SGDs • Larger devices are bigger in dimension and weight • Usually not a weight limit due to variety of configurations and usage • Devices accessed by eye gaze always require a heavier capacity mount due to both weight and height requirements

Mounts for Heavier SGDs

- BlueSky Designs
- CJT Enterprises
- Daedalus
- Dynavox
- Prentke Romich
- REHAdapt

BlueSky Designs

• Mount n Mover

Universal Quick Release Plate Elbow

Wrist Paddle Hoop

Hoop

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Specifications

- Pros:
 - Allows the user to independently move the mount in various positions for transfers and access. It can be especially helpful with Eye Gaze technologies.
- Supports wide range of wheelchair frame sizes
- Supports wide range of SGDs

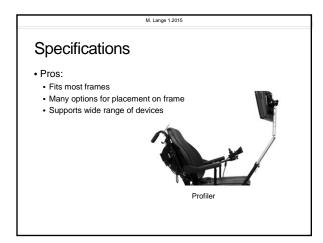


Specifications

- Cons:
- Heavy
- Bulky
- Large frame clamp
- Does not fold
- Cost
- \$710-1300



CJT Enterprises Profiler Profiler Angular Profiler Angular



Specifications

- Cons:
- Heavy
- Bulky
- Large frame clamp
- Does not fold
- Cost:
- \$856-1400
- Standard and Super versions



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Profiler Angular

• Can attach under the seat pan or behind seat back



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Daedalus

- Rigid
- Folding
- Locking Swing Away
- Rear Folding
- Positioner

Specifications

- Pros
 - Wide variety of frame clamps, including custom sizes, locking clamp for tilt frames, side clamp for placement on seat rail
- Clamp takes up little space on frame
- Supports many devices
- Folding version



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Specifications

- Cons
 - Heavy
 - Pin in frame clamp can slip during tilt if locking clamp is not used
- Cost
- \$600 1100









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Rigid

- Rigid
- Lighter than others
- Simple
- Less costly





Folding

- Folds away to side
- Allows transfers without base tipping
- Device is facing out risk of damage



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Rear Folding

- Very heavy
- Non-removable
- Allows device to remain on chair out of the way, even during transport



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Locking Swing Away

- Allows client to pull down on cable and push mount to the side for independent transfers
- Can be difficult to operate



Positioner

- Different joints than other Daessy mounts
- Less bulky
- More planes of adjustment at joints



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DynaVox

- ConnectIT
- Made by REHAdapt



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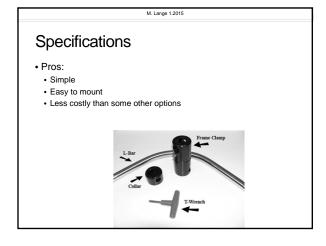
Specifications

- Pros
 - Lighter weight than other mounts in this category
- Fits most frames
- Frame clamp is small
- Tubes flow through joints for increased adjustability



Specifications Cons: Only supports Dynavox products Does not fold Cost: \$1100 base





Specifications

- Cons:
- Rigid with little adjustment
- Heavy
- Only supports PRC products
- Cost
- \$675





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Specifications

- Pros:
- Lighter weight than other mounts in this category
- Fits most frames
- Small frame clamp
- Tubes flow through joints for more adjustability
- Works with a variety of devices
- 3 positions for transfers
- Knob or tool adjustment versions



Specifications Pros: Folding version (3DK) Heavy duty version for eye gaze systems (3D eye) **Built-In Positions** In Judy School Company School Company Suit In Positions Sin Judy School Company School Company Suit In Judy S

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Specifications

- Cons
- Pin can slip during tilt without Swivel Joint with lever (not included on standard 3D)
- Cost
- \$755 1100



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Power Options

- Some clients need to reposition a SGD for varying access methods (i.e. Direct and Eye Gaze)
- Some clients need to reposition a SGD for visual field during mobility
- Some clients need to move a SGD out of the way for transfers

Power Options

- Power mount
- Motion Concepts





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Mounts for Smaller SGDs

- Smaller in dimension and weight
- If client uses excessive force against the device and/or mount, a heavier mount may be indicated
- Generally lack the height available in heavier mounts
 i.e. for eye gaze



Nova Chat 7

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Mounts for Smaller SGDs

- CJT Enterprises
- Daedalus
- REHAdapt



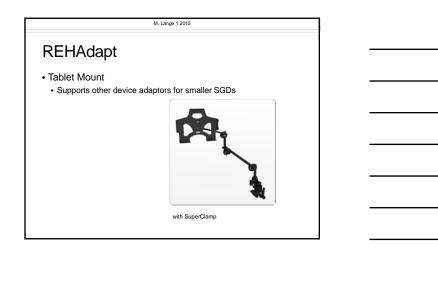
M. Lange 1.2015 Daedalus • M series Mini Adjustable Mount Mini Folding Mini Rigid Mini Adjustable Specifications Smaller and lighter than standard mounts Holds up to 10 lbs • 3 versions Mini Folding M. Lange 1.2015

Specifications

- Cons:
 - Heavier than many other mounts in this category
- Cost:
- \$900



Mini Rigid



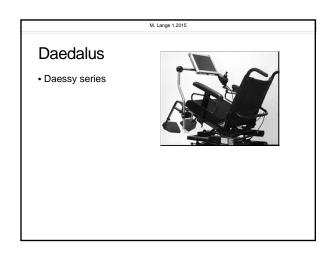
Specifications Pros: Smaller and lighter than standard mounts Versions include knob (QS) or tool adjustment Frame clamps for most size frames SuperClamp for unusual sizes Device adaptors and mounting plates for most lightweight SGDs, including tablet based devices



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| Mounting Computers | - |
| Notebook/Laptop | |
| • Tablet | - |
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| Mounting Notebooks | |
| • BlueSky | |
| CJT Enterprises Daedalus | |
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| Poll Time | |
| Are you being asked to mount Tablets? | |
| All the time! | |
| Occasionally Never | |
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| Mounting Tablets | - |
| • REHAdapt | |
| Stealth Therafin | |
| • Others | |
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Mounting Tablets

- There are an ever increasing amount of Tablet mounts
- Some do not hold their position well or offer adequate positioning, so are not included here

REHAdapt

- Tablet Mount
- Pros:
- Versions include knob or tool adjustment
- Frame clamp fits most size frames
- SuperClamp available for unusual sizes
- Various tablet mounting plates available



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REHAdapt

- Cons:
- None that I have come up with yet...
- Cost:
 - \$275-355



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Stealth Products

- Tablet Mount
- Pros:
 - Various links can be added or removed to achieve desired position
- Adjustable mounting plate holds various size tablets
- Swing away option



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Stealth Products

- Cons:
- Heavy
- Cost:
- \$375 Gatlin style
- \$555 Standard



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Therafin Corporation

- Communication Mount
- Pros:
 - Holds iPads, iPad minis, 7" and 10" tablets
 - Extension kit adds 3-6" to any mount





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|---|---------------------------------------|
| Therafin Corporation | |
| Communication Mount Cons: | · · · · · · · · · · · · · · · · · · · |
| Frame clamps are limited Cost: \$510 - 815 | |
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| Other | |
| Resourceful? Check out RAM mounts http://www.rammount.com | |
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| Funding | |
| Can you get funding for a Tablet mount? You if Tablet is being used for communication. | |
| Yes – if Tablet is being used for communication | I |

• No – most of the time

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| Ougations? | |
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