Daedalus Technologies, Inc.
Richmond, BC Canada

www.daessy.com

DAESSY

DAESSY by Daedalus Technologies, Inc.

In 1986 Daedalus Technologies, Inc. developed and introduced the Daedalus Support System for mounting AAC devices and laptop computers onto wheelchairs. Between 1988 and 1991 the Daedalus Support System was known as and marketed as the 'Quick 'n Easy' wheelchair mounting system. In 1991 the mounting component system became known as DAESSY, an acronym derived from Daedalus Support System.

Since 1991 the DAESSY product line designed and manufactured by Daedalus Technologies, Inc. has expanded to include floor stands, extended desk stand options, a mid-range mount system the M-Series and the Lite Mount for switches or small tablets.

http://www.daessy.com

Daedalus Technologies, Inc. manufactures the DAESSY Mounting Systems onsite in Richmond, B.C. Canada.

Total Quick Release Base - TUSB

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Choosing a Wheelchair Mount

The choice of an appropriate mount assembly will depend on a number of factors including the abilities of the user, the type of device, and the type of wheelchair. Not all DAESSY mount assemblies are appropriate for all situations.

The team of professionals involved with any person using an AAC device or laptop must determine which mount is most suitable. In some cases it may be necessary to modify the standard mount or assemble a custom one.

DAESSY wheelchair mounts are compatible with most wheelchairs.

Please Note: Included in these descriptions are some specific cautions. These cautions should be used as a guide to the type of details that should be considered whenever any mount assembly is being evaluated for attaching a device onto a wheelchair. All applications have their unique aspects and some situations may be impossible to address with any mount assembly. Most of the DAESSY mount assemblies may be used with most AAC /SGD devices and laptop computers; however, extra attention must be given when mounting larger devices.

DAESSY Mounting System – Original Series

Wheelchair mounting for communication devices and laptops

The DAESSY Mounting System is a component based system that allows for customization and varying configurations to meet mounting and positioning needs.

Positioner Mount – DPM9

Achieve the ideal position and angle through 6 points of adjustment. The Positioner Mount allows simple and flexible positioning adjustment for height, angle and location through the use of two articulating joints and a height adjustment collar.

- Easy height adjustment.

- 2 Articulating Joints for precise positioning.

- Easily removed from wheelchair.

- Suitable for Tilting Seat Systems (See Page 7).

Caution DPM9:
When installed on a tilting seat system the wheelchair seat should be in the upright position while adjustments are made. All joints must be tightly secured prior to tilting the seat and mount. (See Page 7)

When adjusting and/or loosening any joint of the Positioner Mount the weight of the mount arm and attached device must be supported to prevent it from swinging or falling towards the user. Heavy or large devices should be removed during adjustments.

Folding Mount ROP Version – DFM2ROP

The top horizontal but of a Folding Mount can be lifted and rotated down to the side into a folded position. The mount is easily removed from the wheelchair. The frame clamp includes a locking receiver.

- Suitable for most wheelchairs.

- Easily removed from the wheelchair.

- Non-directional. Attaches to either side of the wheelchair with the same components.

- Suitable for Tilting Seat Systems (See Page 7).

Caution DFM2 & DFM2ROP:
In the folded position the attached device protrudes beyond the side of the wheelchair making it vulnerable to collisions if the wheelchair is moved or driven. It is recommended to remove the device from the mount.

When folded the unbalancing effect of heavy devices mounted to small lightweight wheelchairs is reduced but not eliminated. It is advisable to remove the device and/or mount before the wheelchair is vacated.

The User is unlikely to be able to perform the folding sequence independently; assistance is often required.

Rigid Mount – DRM1

The Rigid Mount provides a simple, adaptable and adjustable mounting solution. The mount consists of two stainless steel tubes joined by a rigid connection at a right angle.

- Simple, sturdy and cost-effective.

- Suitable for most standard wheelchairs.

- Quickly and easily removed from the wheelchair.

- Non-directional. Attaches to either side of the wheelchair with the same components.

- Can be lifted and swung to the side.

- Available in ROP version with lock receiver.

Caution DRM1 & DRM1ROP:
The Rigid Mount can support equipment that is heavy enough to unbalance an unoccupied wheelchair when swung out to the side. It is recommended to remove the device and/or mount before the wheelchair is vacated.

The DRM1 Rigid Mount is only suitable for limited Tilt Seat Systems. The vertical tube must not be installed or moved beyond 15° during tilt.

The DRM1ROP Rigid Mount ROP cannot be swung to the side. The mount must be unlocked and removed for access to the user or during transfers.

Swing Aside Mount – DSAM4

The top horizontal tube of a Swing Aside Mount can be rotated around to move a device away independently. The mount can be swung away from the user by pushing the cable that runs below the horizontal tube to release a positioning lock-pin.

- Non-directional. Attaches to either side of the wheelchair with the same components.

- For greater independence the user may release the lock-pin to swing the mount away.

- Easily removed from the wheelchair.

- Suitable for Tilting Seat Systems (See Page 7).

Caution DSAM4:
The Swing Aside Mount can support equipment that is heavy enough to unbalance an unoccupied or lightweight manual wheelchair when swung out to the side. It is recommended to remove the device and/or mount before the wheelchair is vacated.

The horizontal tube assembly is pre-installed; tube length cannot be changed after ordering. Standard length 16".

Fitting and Customization

Detailed fitting information is available on the DAESSY web site at www.daessy.com and also by Email on request.

When installed onto a wheelchair a mount assembly must be connected to a part of the main wheelchair frame or the seat frame. Wheelchair mounts must not be attached onto moveable or removable parts such as the armrest or footrest.

The standard vertical tube length for all original series mounts is 22". The standard offset for S-Bend tubes is 3". The standard horizontal tube length for all original series mounts is 16".

> Caution: The ends of the stainless steel tube provided by Daedalus Technologies, Inc. are fully machined and chamfered to minimize sharp edges. Daedalus Technologies, Inc. strongly disapproves of the tube being cut to length by purchasers. Cutting the stainless steel tube by any method produces very sharp and hazardous edges.

All DAESSY mount assemblies are customizable. Refer to the DAESSY web page "S-Tubes and Offset Links" for information on custom tubes; www.daessy.com/dms/stuboff.html.

If a standard mount assembly is not appropriate for a particular situation it is often possible to build an assembly from individual components to meet special requirements.

Mounting on a Tilting Seat System

Mounts suitable for use on a tilting seat system or where an angled installation may be necessary:

- **Rigid Mount ROP Version – DRM1ROP, Mini Rigid Mount – M75RM, Mini Bent-tube Mount – M75BTM**
  The Removable Frame Clamp Receiver allows the mount to be locked onto the wheelchair and provide a secure attachment for use on a tilting seat system. Note the DRM1ROP, M75RM or M75BTM cannot be swung to the side; the mount must be lifted from the chair for access to the user and during transfers.

- **Folding Mount ROP Version – DFM2ROP, Mini Folding Mount – M75FM**
  The Folding Mount ROP Version and Mini Folding Mount includes the ability to be locked at the frame clamp similar to the DRM1ROP.

- **Positioner Mount – DPM9, Mini Adjustable Mount – M75AM**
  All adjustable joints must be tightened and secured before use, particularly on a tilt seat system. The frame clamp includes the locking feature to secure for use in a tilted or angled position. When adjusting or loosening any joint of the Positioner Mount or Mini Adjustable Mount the weight of the mount arm and attached device must be supported. Large or heavy devices should be removed during adjustment.

- **Swing Aside Mount – DSAM4,**
  The Swing Aside Mount includes the Removable Outer Piece & Receiver components that allow the mount to be locked onto the wheelchair and provide a secure attachment for use in a tilted position.

Mounts not suitable for use on a tilting seat system or where an angled installation is necessary:
- Locking Swing Away Mount – DLSA7[1]

Mounts suitable for use on limited tilting seat system not beyond 15 degrees of vertical:
- Rigid Mount – DRM1
- Folding Mount – DFM2

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[1] See www.daessy.com for information on the DLSA7 & DLRFM8 mounts.

M-Series Mount System by DAESSY
"Mini" wheelchair mounts system for lightweight devices.

The M-Series Mount System by DAESSY is a mid-range mount solution for devices under 10 lbs[2].

Built to the same high quality standard of DAESSY these new "Mini" mounts expand the mounting choices. M-Series Mounts work with the wide selection of DAESSY frame clamp inner pieces to fit the majority of wheelchairs and mounting situations. The "Mini" quick release system is compatible with all DAESSY device adapters and holders.

The standard configuration of a M-Series mount assembly includes the Frame Clamp Inner Piece 1" (UFC1000IP) for attachment to a wheelchair main-frame with round tube. Alternate inner pieces are available, see www.daessy.com for information.

The Mini Quick Release (MQR75) included by default with a mount assembly can be switched for the optional Articulating Quick Release (AQR75) by request.

AQR75

Mini Adjustable Mount – M75-AM

The Mini Adjustable Mount has several points of adjustment to setup and position the mount. Two rotating joints can be angled and twisted in numerous directions to adjust the 'horizontal' tube position.

The Mini Adjustable Mount includes real-time height adjustment – no tools needed.

Caution M75AM:
When installed on a tilting seat system the wheelchair seat should be in the upright position while adjustments are made. All joints must be tightly secured prior to tilting the seat and mount. (See Page 7)

When adjusting and/or loosening any joint of the Positioner Mount the weight of the mount arm and attached device must be supported to prevent it from swinging or falling towards the user.

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[2] M-Series Mounts are not suitable for eye-tracking camera systems; refer to the standard DAESSY Mounting System on Page 3.

Mini Folding Mount – M75-FM

The Mini Folding Mount, as the name suggests, folds the horizontal tube down to the outside. The folding joint between the two mount tubes performs a 2-step folding sequence to bring the tubes parallel. When folded and removed from the wheelchair the Mini Folding Mount is a more compact unit for storage.

The mount is non-directional and may be installed on either side of a wheelchair

M75-FM standard side tube dimension 24" length, 6" offset, and horizontal tube 14" straight.

Caution M75FM:
In the folded position the attached device protrudes beyond the side of the wheelchair making it vulnerable to collisions if the wheelchair is moved or driven. It is recommended to remove the device from the mount.

The vertical tube must not be installed or moved forward beyond 15° during use.

Mini Rigid Mount – M75-RM

The Mini Rigid Mount is a simple mount with a rigid connector between the two mount tubes. The side tube with a s-curve bend allows for greater positioning ability and can be used to clear obstacles or a tray.

The mount is non-directional and may be installed on either side of a wheelchair.

The Mini Rigid Mount is easily removed from the chair.

M75-RM standard side tube dimensions 24" length, 6" offset, and horizontal tube 14" straight.

Mini Bent-Tube Mount – M75-BTM

The Mini Bent-Tube Mount is a basic mount assembly. A single right-angle bent tube provides a simple support for a communication device or computer. The Mini Bent-Tube Mount is easily removed from the chair.

M75-BTM standard tube dimension 24" vertical x 14" horizontal.

Tablet Mounts, Small Device Mounts, Switch Mounts

The DAESSY Lite Mount builds on years of experience and quality. Designed for switch mounting, lightweight devices under 5lbs/2.3Kg or tablets the component based system has numerous possibilities. Choose a kit or build your own, the DAESSY Lite Mount will support your lightweight mount needs.

ITC2 Lite Mount shown with Chair Clamp and iPad connected

AF Lite Mount shown with Chair Clamp and Switch end.

Lite Mount AF – articulated joints for quick, easy adjustments and streamlined connections for switch mounting.

Lite Mount ITC – indexed clamps for solid, adjustable joints. Easily change tube lengths and mount span for devices.

The DAESSY Lite Mount system expands on the quality systems created and made by Daedalus Technologies Inc. Providing a component based system for switches, tablets and smaller mount needs. The Lite Mount has two distinct connector styles for varied applications and numerous configuration possibilities. Interchangeable, individual components provide for easy changes as needs require and limitless configurations.

The AF Ball Clamp connectors provide secure and highly adjustable streamlined connectors for switch mounting applications. Two balls within the clamp can be infinitely articulated to the exact angle required and are locked down with a clamp bolt. In the event a mount joint is overloaded the ball clamp will allow the balls to move and absorb the impact. Various switch end fittings to suit different switch attachments available.

The ITC Indexed Clamp connectors provide a strong, adjustable joint for lightweight devices and tablets. Mount tubes can slide through the clamp for length adjustment in setup. A 'notched' hirth face between the ITC clamps gives the ability for a very strong joint. A DAESSY quick release base allows connection of device adapters and holders.

Attach your Lite Mount to a chair, table clamp or directly to a device mount.

Using AF Ball Clamps:

- The tubes used with an AF Ball Clamp have a ball-end at one or both ends. Lengths are available from 2" to 12" tube plus the ball-end(s). The ball-ends are factory installed.

- AF Ball Clamps are available in three sizes, the larger the ball the stronger the joint. The AF Ball Clamp sizes are marked on the component. Tube ball-ends are available in sizes to match the clamps.

- The bolt in the AF Ball Clamp secures the joint with a 5mm hex tool (Allen key).

Using ITC Indexed Clamps:

- The ITC Indexed Clamp is comprised of two clamps sized for the tube diameters being used in the mount. The tubes can be rotated in the clamp and slid through for adjustment. The ITC Indexed Clamp allows adjustment of angle between the tubes.

- Various clamp sizes are available for tube diameters used with the Lite Mount system.

- The bolt in the ITC Indexed Clamp secures the joint with a 5mm hex tool.

DAESSY Desk Mounts and Desk Stands

DAESSY Desk Mounts and Stands provide flexible solutions for AAC device and laptop use on tabletops. Using the DAESSY Quick Release System they are easily used in conjunction with a DAESSY wheelchair mount.

Vertical Desk Stand - VDS

The Vertical Desk Stand (VDS) is a height adjustable desk stand. The VDS has an articulating Quick Release Base for a broad range of angular adjustment. The VDS can be used in conjunction with a DAESSY wheelchair mount.

- Adjustable quick release for extensive device positioning.
- Height Adjustable (up to 17" above surface).
- Ideal companion for a DAESSY wheelchair mount.
- Usable on most desk surfaces.

Caution:
It must be recognized the Vertical Desk Stand may slide on some surfaces when the device or touch screen is directly accessed.

X-Base Folding Desk Stand – XDS

The DAESSY X-Base Folding Desk Stand is a versatile table/desk mounting solution that can fold for storage and transport. The Articulating Quick Release Base[3] (included) provides extensive height, angle and rotational adjustment. The XDS can be used in conjunction with a DAESSY wheelchair mount.

- Adjustable quick release for extensive device positioning.
- Height Adjustable (up to 17" above surface).
- Folds for easy transport and storage.
- Usable on most desk surfaces.

Caution:
It must be recognized the X-Base Folding Desk Stand may slide on some surfaces when the device or touch screen is directly accessed.

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[3] The vertical tube used with the XDS is ¾" OD requiring the AQRL75-2H.

Desk Mount - DM

The Desk Mount allows for a device to be positioned at a precise angle while seated on a desk surface. Often used in conjunction with a DAESSY wheelchair mount, it allows the device to be transferred between locations easily and still oriented on the same angle for access.

- Ideal companion for a DAESSY wheelchair mount.
- Usable on most desk surface.

Caution:
With large devices it is important to ensure the device is within the base area of the Desk Mount to reduce any tendency to tip. It must be recognized the Desk Mount may slide about some surfaces when the device or touch screen is directly accessed.

Clamp Desk Mount - DMC

A variation on the standard Desk Mount, the Clamp Desk Mount can be attached to almost anything including tables, desks or tray edges. The surface must be between ½" and 2" thick.

- Precisely position a device at any angle.
- Clamp to any suitable surface.
- Manual handle allows it to be moved without tools.

Caution:
The Manfrotto Super Clamp is rated for 8 lbs. Large/heavy devices positioned away from the clamp should not be used with this mount. Care must be taken to ensure the clamp is properly installed prior to attaching the Clamp Desk Mount and device.

Rolling Mounts

The DAESSY Rolling Mounts provide an independent floor stand solution for using an AAC/SGD device or laptop computer. Fitted with the DAESSY quick release base the Rolling Mount is an excellent companion to the wheelchair mounts allowing easy transfer of a device or laptop from wheelchair to the Rolling mount for use in bed or at a recliner.

All Rolling Mounts have real-time height adjustability and low-profile bases with locking casters.

The DAESSY Total Quick Release Base (TUSB) is included with all Rolling Mounts, unless noted.

Rolling Mount Offset Base

- The DAESSY quick release base makes it easy to transfer an AAC device from wheelchair to Rolling Mount for use on a bed or chair.

- Height Adjustable

- Locking caster wheels allow smooth rolling on most surfaces.

- 3.5" of clearance allows easy fit under most beds, and other furniture.

Type	Base Width	Height Range
ROM24	24"	28 – 45"
ROM32	32"	28 – 45"
ROM32T	32"	38 – 57"
ROM36	36"	28 – 45"
ROM36T	36"	38 – 57"

Caution:
The Rolling Mount Series must be used on a level floor with all wheels securely in contact with the floor before extending to full height.

A limiter stops the horizontal tube of the mount to be swung outside of the Rolling Mount base for stability. Modifications or tampering with the limiter are not to be made by any person.

- Same features as the Offset Rolling Mount with the addition of an articulating joint on the horizontal tube to add more adjustability.

- The DAESSY quick release system makes it easy to transfer an AAC device from a wheelchair to Rolling Mount for use on a bed or chair.

- Height Adjustable

- Locking caster wheels allow smooth rolling on most surfaces.

- 3.5" of clearance allows easy fit under most beds, and other furniture.

Type	Base Width	Height Range
ROM32-AJH-AQL	32"	28 – 45"
ROM32T-AJH-AQL	32"	38 – 57"
ROM36-AJH-AQL	36"	28 – 45"
ROM36T-AJH-AQL	36"	38 – 57"

DAESSY Quick Release System

The DAESSY Quick Release System consists of a Quick Release Base attached to the mount and an Adapter or Mounting Plate attached to the computer/device. These two parts fit together to secure the computer/device on a mount assembly and easily separate to remove the computer/device from the mount. In most cases the Mounting Plate remains on the computer/device.

Quick Release Bases – Original Series, Desk Mounts, Rolling Mounts

The Quick Release Base is available in various styles with different functionalities.

Total Quick Release Base - TUSB

The Quick Release Base is included by default.
- The TUSB provides a fixed angle and tilt once installed on the mount tube.
- An alternate Quick Release Base can be selected when purchasing a mount assembly (additional charge may apply) or purchased separately.

Folding Quick Release Base - USBF

The Folding Quick Release Base provides real-time adjustment to rotate the angle around the mount tube.
- No tools required to adjust.
- 6 stop positions.
- A retractable lock-pin secures each position.

Sideways Tilting Quick Release Base – (USBA+TMAT)

This version of the Quick Release Base allows an attached device to be rotated sideways and secured in the tilted position.
- Tools are required to adjust tilt.
- Maintains position under the weight of heavier AAC devices or laptops.

Mini Quick Release Base – (MUSB)

A smaller version of the standard Quick Release Base.
- Same features as the TUSB with a smaller profile.
- Provides secure attachment for smaller devices.
- May not be suitable for very large and heavier computers/devices.

Articulating Quick Release Base – (AQR Series)

Articulating Quick Release Bases is available in regular and mini sizes.

- Multiple angle and tilt adjustments are possible with this ball-joint style quick release base.

- The **AQRL-87** with regular sized quick release attachment is well suited to full-size and larger communication devices.

- The **AQR-87** quick release attachment is similar to the MUSB and well suited to smaller devices.

Optional quick handles are available to allow angle and rotation changes without tools.

- **AQRL-87-RH**, Articulating Quick Release Base with Quick Handle provides a quick handle for adjusting the ball-joint rotation and tilt.

- **AQRL-87-2H**, Articulating Quick Release Base with 2 Handles provides one handle on the tube mount for adjustment of the component along the mount tube and one handle on the ball-joint for adjusting the rotation and tilt of the attached device.

- **AQR-87-RH**, Articulating Quick Release Small Face with Quick Handle provides a quick handle for adjusting the ball-joint rotation and tilt.

- **AQR-87-2H,** Articulating Quick Release Small Face with 2 Handles provides one handle on the tube mount for adjustment of the component along the mount tube and one handle on the ball-joint for adjusting the rotation and tilt of the attached device.

Communication devices and computers are attached to a DAESSY mounting assembly in a manner that allows quick and easy removal. A mounting plate, device adapter or holder is attached to the computer or device allowing it to be connected to a DAESSY quick release base. Most mounting plates and adapters are attached to the device with screws in pre-existing holes in the case, some devices are secured with stainless steel clips, and some are held in a case. For information on holders for laptop computers refer to www.daessy.com/laptop.html.

The listed device adapters, holders and mounting plates are a sampling of standard adapters available.

Part-code:	Device	Part-code:	Device
WCA23	Wedge Plate Devices	PRC7	PRC-Saltillo device wedges
FR4A	4-hole FRS devices	QRP1	Quick Release Plate basic
EVALPLATE	Generic for evaluation purposes	3SANC	PRC-Saltillo 3-hole devices (Novachat)
MDMT	Basic mounting plate 11-3/4" x 7-7/8"	TIS21	Tobii i13, i16 bolt-on, SC Tablet
LCSKT/90L	LC Tech Edge Socket & Connector	TBS32	Tobii S-32 (Tobii)
DYNT1	Dynavox T10, T15 Adapter	VMAD	Vesa 75x75 or 100x100 compliant

iPad and Tablet holders

Standard Holders for iPad by Apple
The standard holders allow an iPad to be connected to a DAESSY quick release base in either landscape or portrait orientation. The iPad is housed in a protective case fitted with a mounting adapter. The adapter fits all DAESSY quick release bases.

Twist Case Holders for iPad by Apple
The Twist Case Holders enable real-time rotation of an iPad between landscape and portrait orientations while attached to a DAESSY quick release base. The iPad is housed in a protective case and the adapter fits all DAESSY quick release bases.

Surface Pro by Microsoft holders
Holders for the Surface Pro tablets are available in standard and twist versions or a standard holder with eye-gaze camera bracket attached. The tablet fits into a protective case that has been adapter for mounting to fit all DAESSY quick release bases.

As new Tablet computers are launched we continue to add and review mounting options. Custom holders are available on request. Contact us for more information if your computer is not mentioned here.

Notes