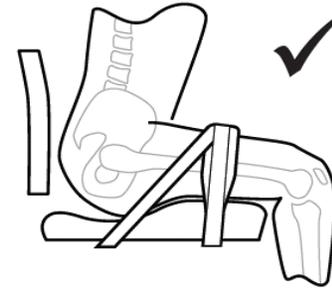
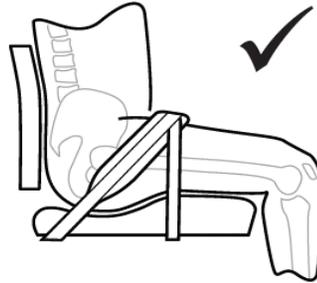
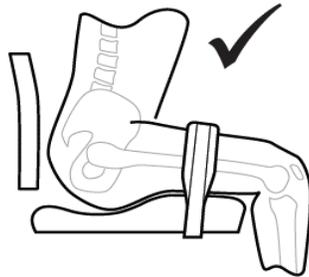
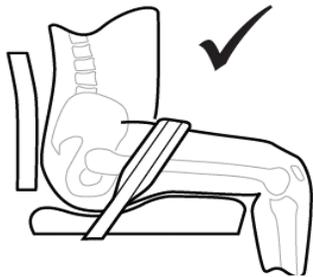


Wheelchair Mounting Hardware Compatibility Specifications

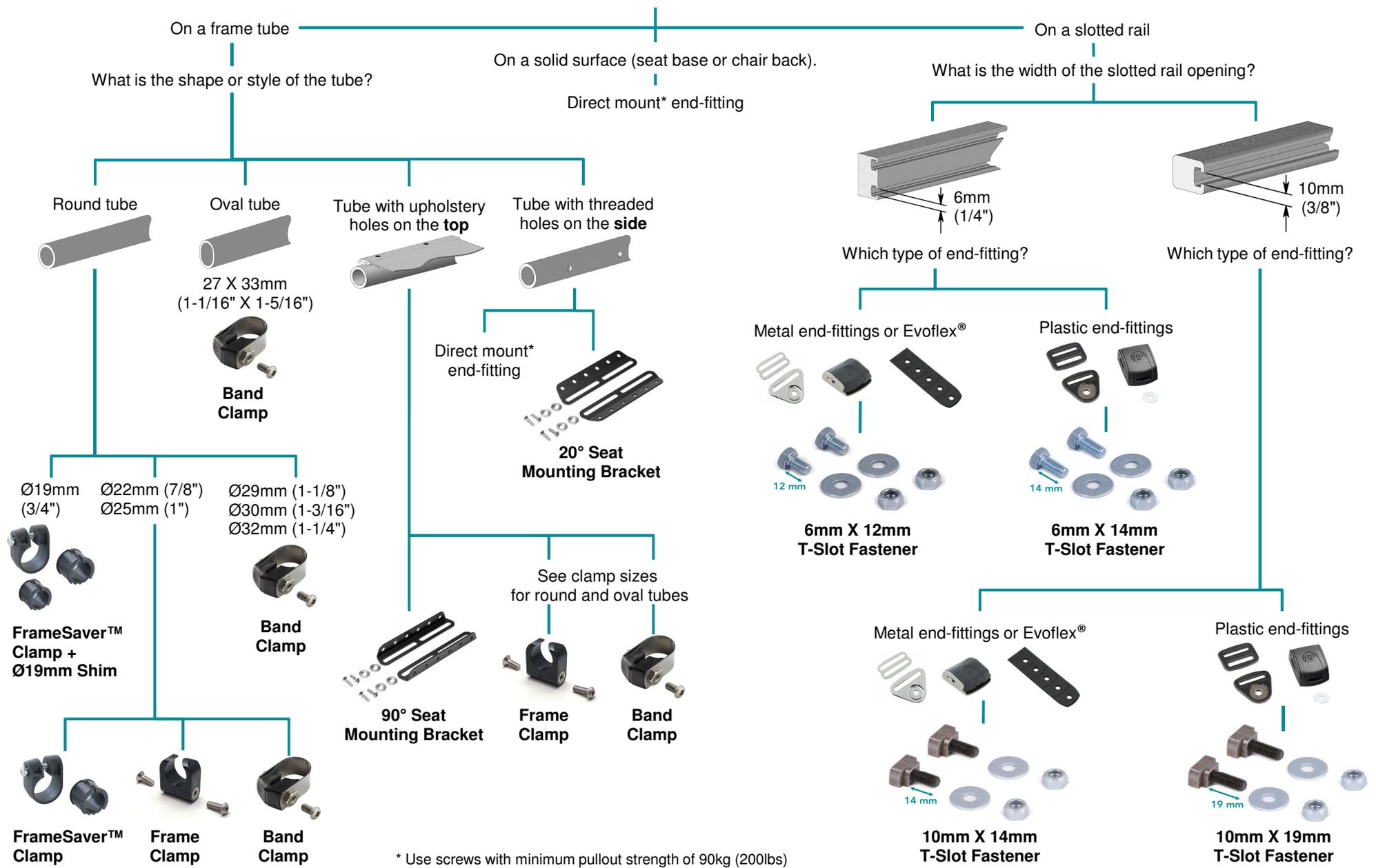
How to Select Mounting Hardware	2
Metal Flat-Mount™ End-Fitting	4
Metal Cinch-Mount™ End-Fitting	5
Plastic Flat-Mount™ End-Fitting	6
Plastic Cinch-Mount™ End-Fitting	7
Cam Buckle	8
FrameSaver™ Clamp	9
Frame Clamp	10
Band Clamp	11
20° Seat Mounting Bracket	12
90° Seat Mounting Bracket	13
6mm T-Slot Fastener Kit	14
10mm T-Slot Fastener Kit	15

How to Select Mounting Hardware

1. Based on clinical goals and individual needs, determine the most effective position and angle for the belt or harness. See examples below.
2. Locate desired mounting points on the wheelchair frame or seating system.
3. Select the appropriate mounting hardware. See next page.



Where are the mounting points?



* Use screws with minimum pullout strength of 90kg (200lbs)

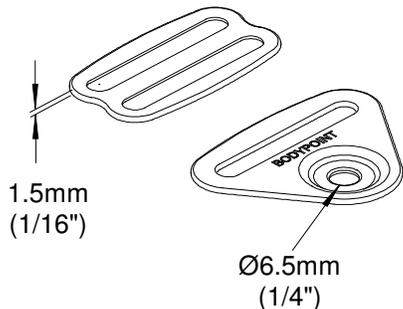
Technical Specifications

Part Number Prefix

Mounting Options

Metal Flat-Mount™ End-Fitting

- HKA1-R 25mm (1")
- HKA1-G 38mm (1-1/2")
- HKA1-B 50mm (2")

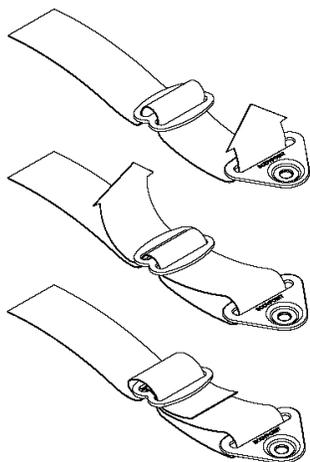


Material:

Chrome plated steel

Typical Breaking Strength:

> 283kg-f (625lb-f)



Threading webbing through the end-fitting



Mount on round tube with FrameSaver™ Clamp



Mount on 6mm slotted rail with 6mm T-Slot Fastener (HKA6-12MM)



Direct mount* on tube with threaded holes



Direct mount* on solid surface

*Requires M6 (1/4") mounting screws with minimum pullout strength of 90kg (200lbs). Not included.

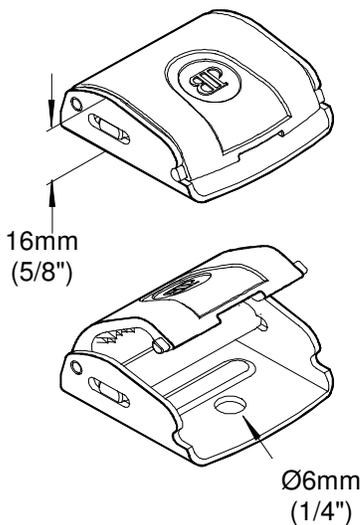
Technical Specifications

Part Number Prefix

Mounting Options

Metal Cinch-Mount™ End-Fitting

- HKA2-R 25mm (1")
- HKA2-G 38mm (1-1/2")
- HKA2-B 50mm (2")



Material:

Chrome plated steel, nickel plated pins, plastic cover

Typical Breaking Strength:

- 25mm (1") 453kg-f (1000lb-f)
- 38mm (1-1/2") 794kg-f (1750lb-f)
- 50mm (2") 521kg-f (1150lb-f)



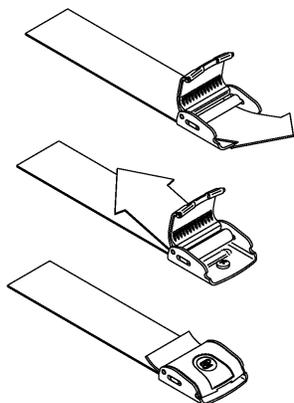
Mount on round tube with Band Clamp



Mount on 6mm slotted rail with 6mm T-Slot Fastener (HKA6-12MM)



Direct mount* on tube with threaded holes



Threading webbing through the end-fitting



Direct mount* on solid surface

*Requires M6 (1/4") mounting screws with minimum pullout strength of 90kg (200lbs). Not included.

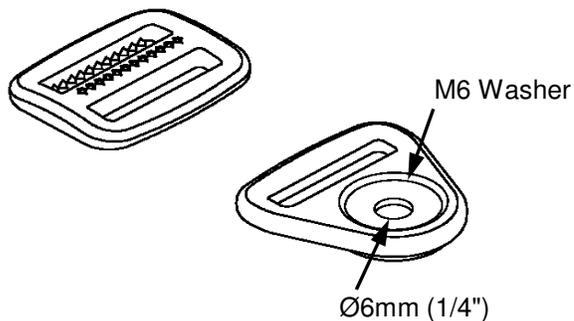
Technical Specifications

Part Number Prefix

Mounting Options

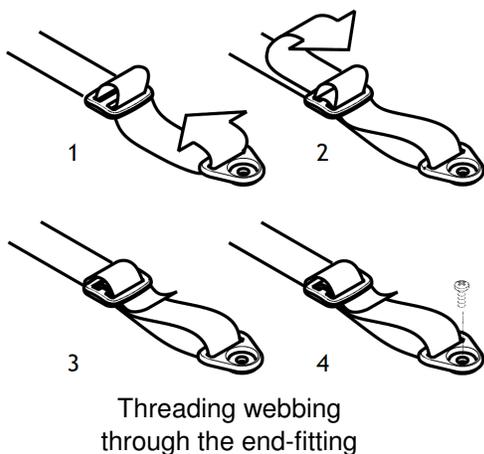
Plastic Flat-Mount™ End-Fitting

HKA31-25MM 25mm (1")

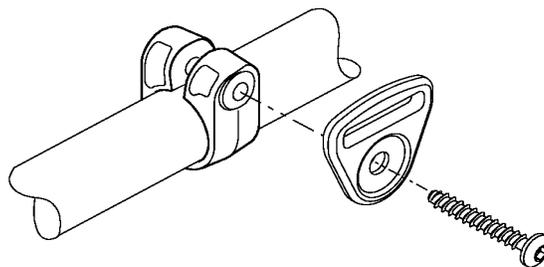


Material:
Plastic, stainless steel washer

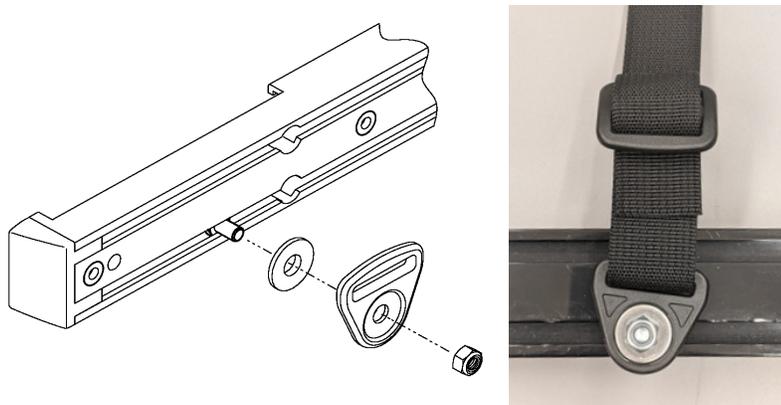
Typical Breaking Strength:
105kg-f (232lb-f)



Direct mount on solid surface
Requires M6 (1/4") mounting screws with minimum pullout strength of 90kg (200lbs). Not included.



Mount on round tube with FrameSaver™ Clamp



Mount on 6mm slotted rail with
6mm T-Slot Fastener (HKA6-14MM)

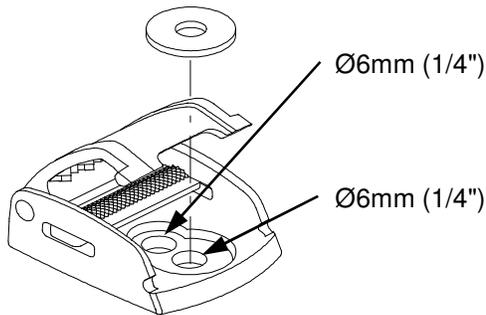
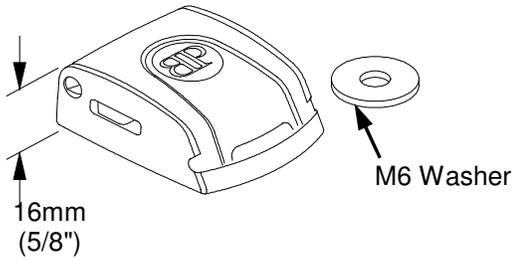
Technical Specifications

Part Number Prefix

Mounting Options

Plastic Cinch-Mount™ End-Fitting

HKA32-25MM 25mm (1")

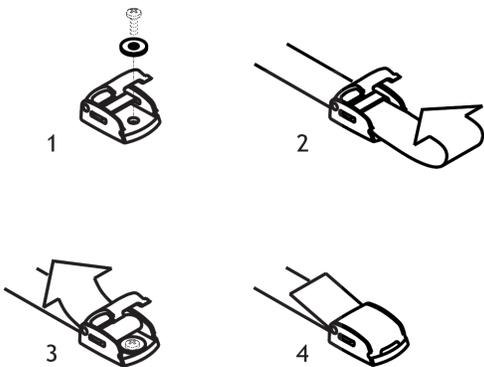


Material:

Plastic, zinc-plated washer

Typical Breaking Strength:

113kg-f (250lb-f)



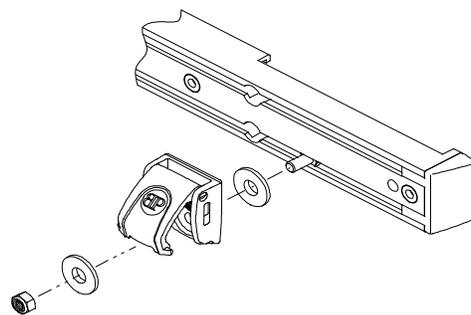
Threading webbing through the end-fitting



With Shoulder Harness Strap Guides, using M6 X 8mm screws in threaded holes of Strap Guides



Direct mount on solid surface
Requires M6 (1/4") mounting screws with minimum pullout strength of 90kg (200lbs). Not included.



Mount on 6mm slotted rail with 6mm T-Slot Fastener (HKA6-14MM)

Technical Specifications

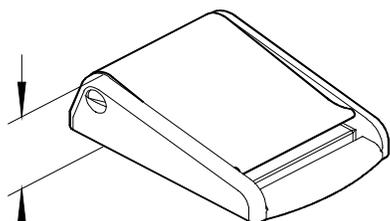
Part Number Prefix

Mounting Options

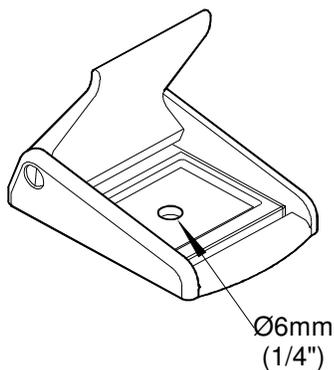
Cam Buckle

FS032-2 25mm (1")
FS033-2 38mm (1-1/2")
FS034-2 50mm (2")

1" cam buckle is suitable for users up to 75kg.
 1-1/2" and 2" cam buckles are suitable for all users.



FS032 = 14mm (9/16")
 FS033 = 21.5mm (7/8")
 FS034 = 21.5mm (7/8")



Material:
 Plastic

Typical Breaking Strength:

25mm (1") = 27kg-f (60lb-f)
 38mm (1-1/2") = 163kg-f (360lb-f)
 50mm (2") = 90kg-f (200lb-f)



Direct mount on solid surface
 Requires M6 (1/4") mounting screws with minimum pullout strength of 90kg (200lbs). Not included.

Technical Specifications

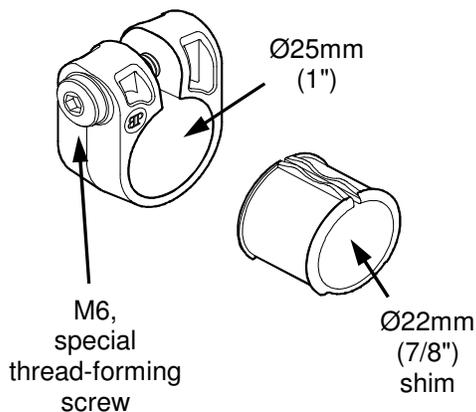
Part Number Prefix

Mounting Options

FrameSaver™ Clamp

HW303-B
 Ø25mm (1")
 Ø22mm (7/8") shim

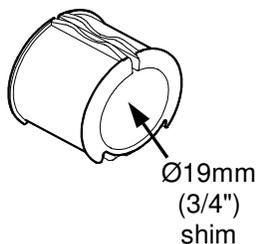
For manual chairs with
 Ø19, 22, 25mm (3/4", 7/8" or 1") round tubing



FrameSaver™ Clamp on round tube

FrameSaver™ Shim

HW303-19SHIM
 Ø19mm (3/4")



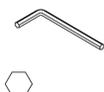
With Metal Cinch-Mount™ End-Fitting

Material:

Nylon, zinc-plated screw

Tools:

4mm (5/32") hex key



With Metal Flat-Mount™ End-Fitting

Typical Breaking Strength:

567kg-f (1,250lb-f)

Technical Specifications

Part Number Prefix

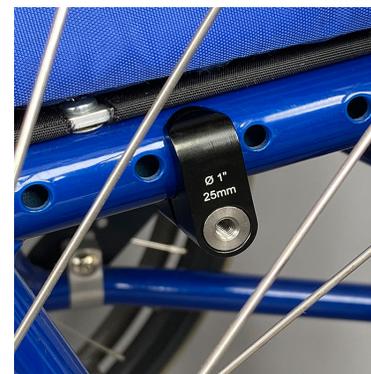
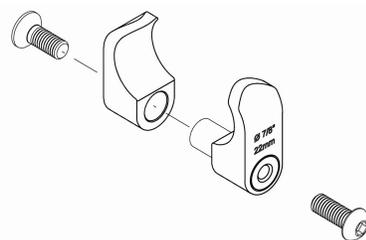
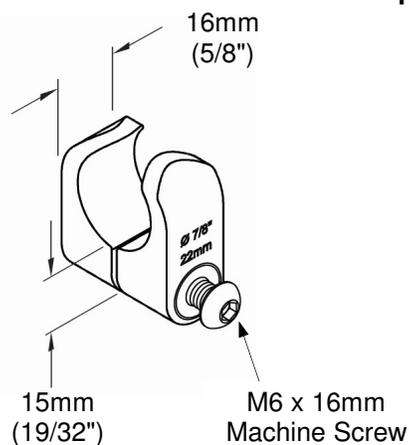
Mounting Options

Frame Clamp

HW310-22-A $\varnothing 22\text{mm}$ (7/8")

HW310-25-A $\varnothing 25\text{mm}$ (1")

For manual chairs with $\varnothing 22$ or 25mm (7/8" or 1") round tubing



Mount under upholstery strip on round tube

Material:

Anodized aluminum, stainless steel screws

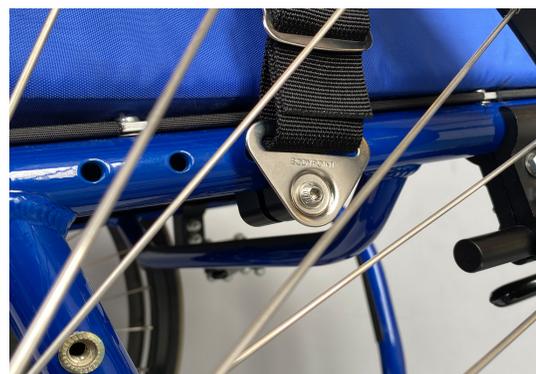
Tools:

4mm (5/32") hex key



Typical Breaking Strength:

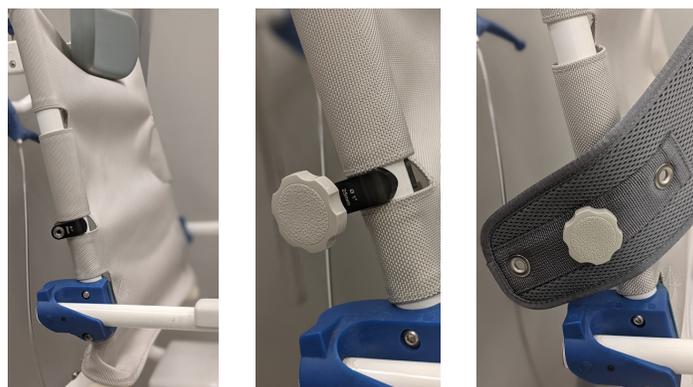
362kg-f (800lb-f)



With Metal Flat-Mount™ End-Fitting

Quick Release Knobs

FA812-BP



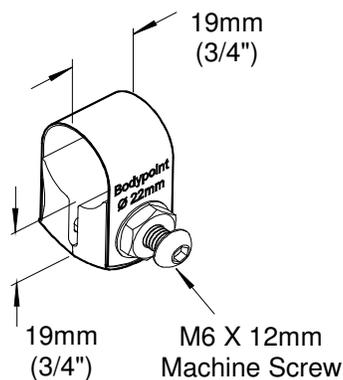
Mount on shower chairs with Bath Belts and Quick Release Knobs

Technical Specifications

Part Number Prefix

Mounting Options

Band Clamp



- HW320-22** 22mm (7/8")
- HW320-25** 25mm (1")
- HW320-29** 29mm (1-1/8")
- HW320-30** 30mm (1-3/16")
- HW320-32** 32mm (1-1/4")
- HW320-27X33**
27mm X 33mm OVAL
(1-1/16" X 1-5/16")

For manual chairs with Ø22, 25, 29, 30, 32mm round tubing, or 27 X 33mm oval tubing



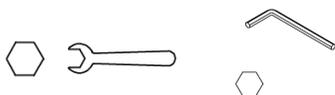
Mount under upholstery strip on round tube

Material:

Stainless steel, plastic

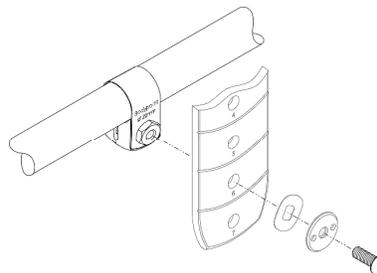
Tools:

13mm wrench
& 4mm (5/32") hex key



Typical Breaking Strength:

1270kg-f (2800lb-f)

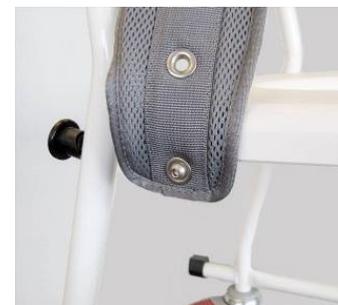


With Evoflex® Hip Belt, using Evoflex® wave spring washer, flange nut and Band Clamp M6 X 12mm screw

Quick Release Knobs FA812-BP



For use with Band Clamps on shower chairs. See images on Frame Clamp page.



Mount on shower chairs with Bath Belts

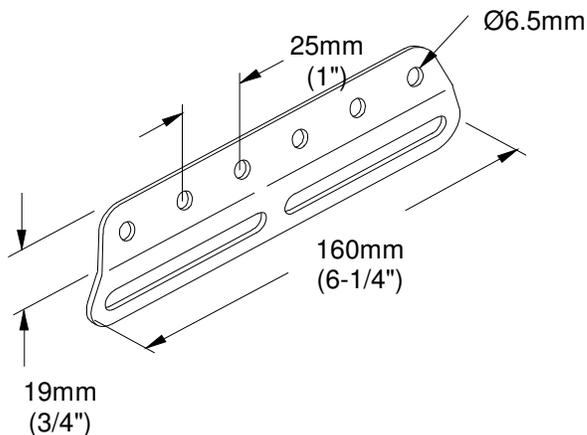
Technical Specifications

Part Number Prefix

Mounting Options

20° Seat Mounting Bracket

HW200-20



← 10-32 (M5) X 3/4" Phillips Screw



← M5 / M6 Countersunk Washer



← M6 X 10mm Truss Head Screw



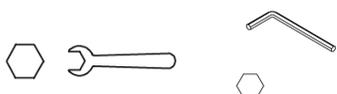
← M6 Nyloc Nut

Material:

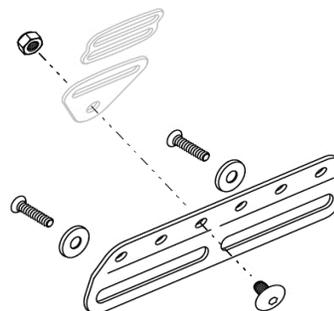
Heat-treated and powder-coated steel bracket, stainless steel Phillips screw and countersunk washer, nickel-plated truss head screw, zinc plated nut

Tools:

No.2 Phillips screwdriver,
10mm wrench
& 4mm (5/32") hex key



Mount on tube with threaded holes



With Metal Flat-Mount™ End-Fitting, using Seat Mounting Bracket M6 X 10mm screw



With Evoflex® Hip Belt, using Evoflex® M6 X 8mm screw, wave spring washer, flange nut



Mounting Plastic Flat-Mount™ and Plastic Cinch-Mount™ End-Fittings on Seat Mounting Brackets requires M6 X 12mm screws. Not included.

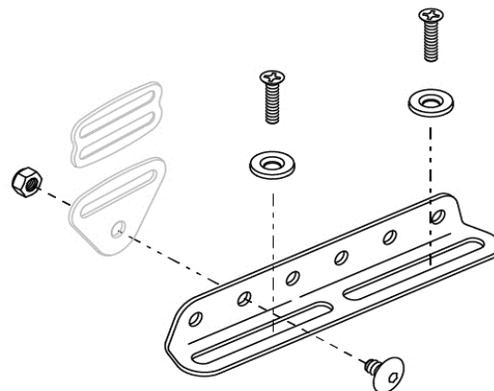
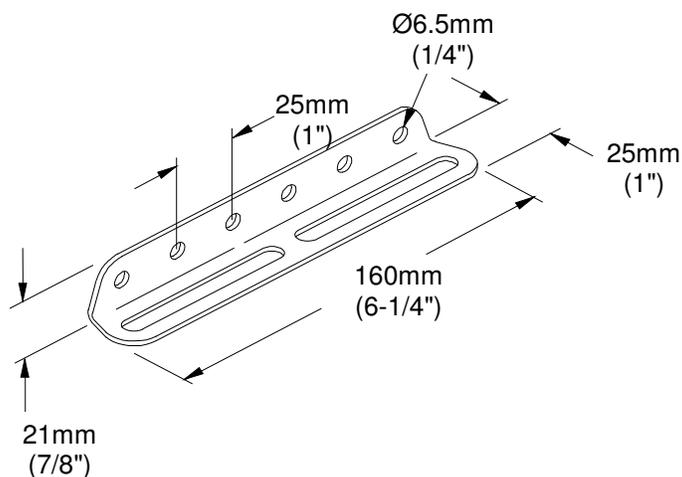
Technical Specifications

Part Number Prefix

Mounting Options

90° Seat Mounting Bracket

HW200-90



With Metal Flat-Mount™ End-Fitting, using Seat Mounting Bracket M6 x 10mm screw

-  ← 10-32 (M5) X 3/4" Phillips Screw
-  ← M5 / M6 Countersunk Washer
-  ← M6 X 10mm Truss Head Screw
-  ← M6 Nyloc Nut



Mount on upholstery strip with Evoflex® Hip Belt, using Evoflex® M6 X 8mm screw, wave spring washer, and flange nut

Material:

Heat-treated and powder-coated steel bracket, stainless steel Phillips screw and countersunk washer, nickel-plated truss head screw, zinc plated nut

Tools:

No.2 Phillips screwdriver,
10mm wrench
& 4mm (5/32") hex key



Mounting Plastic Flat-Mount™ and Plastic Cinch-Mount™ End-Fittings on Seat Mounting Brackets requires M6 X 12mm screws. Not included.

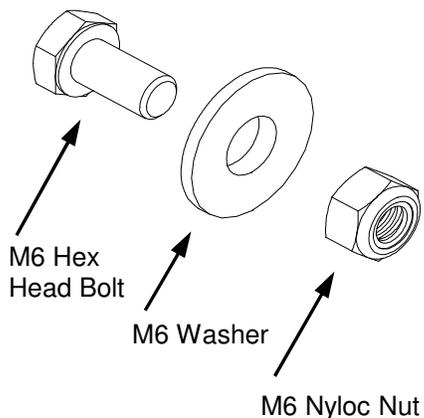
Technical Specifications

Part Number Prefix

Mounting Options

6mm T-Slot Fastener Mounting Kit

Compatible with Permobil and Netti slotted rails

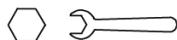


Material:

Zinc-plated screw and nut, stainless steel washer

Tools:

10mm wrench

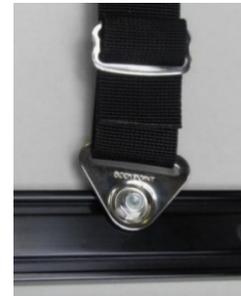
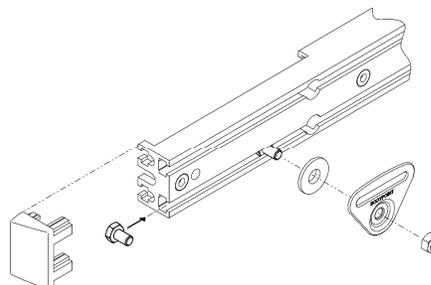


Typical Breaking Strength:

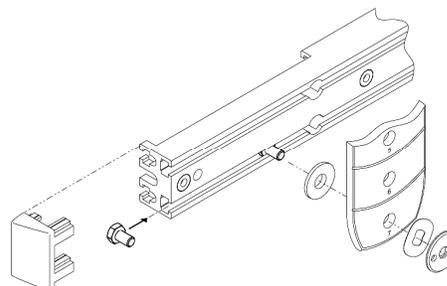
770kg-f (1,696lb-f)

HKA6-12MM
M6 X 12mm bolt for metal end-fittings and Evoflex®

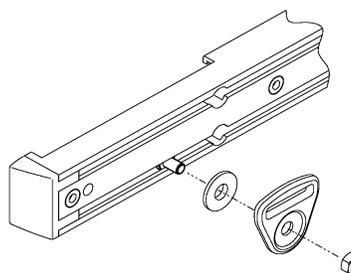
HKA6-14MM
M6 X 14mm bolt for plastic end-fittings



With Metal Flat-Mount™ End-Fitting using HKA6-12MM



With Evoflex® Hip Belt, using HKA6-12MM bolt and washer, and Evoflex® wave spring washer and flange nut



With Plastic Flat-Mount™ End-Fitting using HKA6-14MM

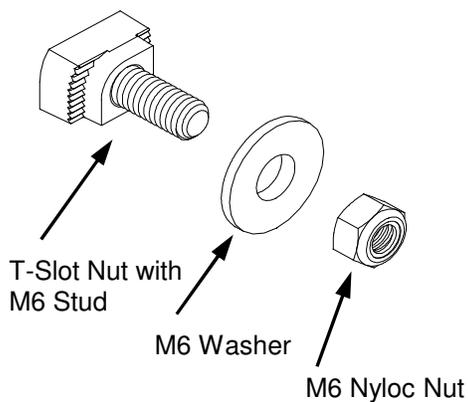
Technical Specifications

Part Number Prefix

Mounting Options

10mm T-Slot Fastener Mounting Kit

Compatible with Invacare, Quantum, and Motion Concepts slotted rails

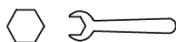


Material:

Steel with anti-rust oil finish, black oxide coated stud, stainless steel washer, zinc plated nut

Tools:

10mm wrench



Typical Breaking Strength:

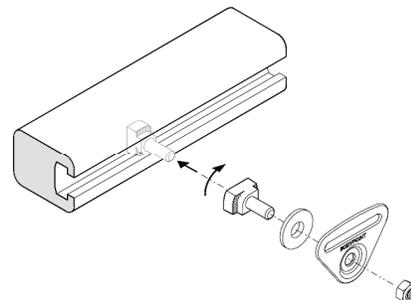
770kg-f (1,696lb-f)

HKA10-14MM

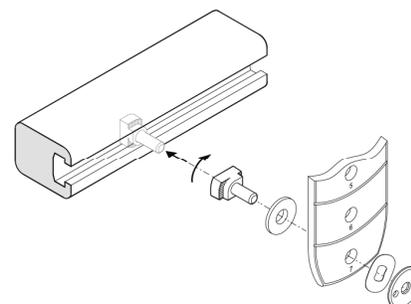
M6 X 14mm stud for metal end-fittings and Evoflex®

HKA10-19MM

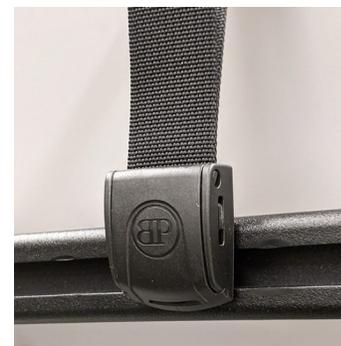
M6 X 19mm stud for plastic end-fittings



With Metal Flat-Mount™ End-Fitting using HKA10-14MM



With Evoflex® Hip Belt, using HKA10-14MM stud and washer, and Evoflex® wave spring washer and flange nut



With Plastic Flat-Mount™ and Plastic Cinch-Mount™ End-Fittings using HKA10-19MM