

MOUNTING REFERENCE GUIDE

MINDRAY MONITORING FOR QUICK RELEASE MOUNTING ADAPTER



CIM Cable Integrated Mounting System



CONTENT

General notes	3
How to create part numbers	4
Product highlights	6
Support arm pivot	7
Extended pivot arm	9
Height adjustable arm	11
Extended height adjustable arm	13
High position height adjustable arm	15
Extended high position height adjustable arm	17
Counter top	19
Cart Light duty	21
Fixings	23
Fixings for anaesthesia machines	24

GENERAL NOTES

Mounting adapter (quick release)

The monitor adaption is prepared to accept the mounting adapter from Mindray and is suitable for the following Mindray monitors: **T1, T5, T8, T9, iMEC series** and **iPM series**.

Please note that the mounting adapter (quick release) has to be ordered separately from Mindray. For descriptions and part numbers, please refer to catalogue: Monitor-specific mounting adapter Mindray.

5" Plunge Plate

Please see mounting reference guide: 5" plunge plate adaptation.

The 5" plunge plate is suitable for the following Mindray monitors: **T1, T5, T8** and **VS600/ 900**.

Please note that the mounting adapter has to be ordered separately from Mindray or CIM med®. For descriptions and part numbers, please refer to catalogue: Monitor-specific mounting adapter Mindray.

Components' grounding

All arms with integrated cable management are equipped with **components grounding**. No grounding is required for arms with external or semi-integrated cable management with cables not being lead through joints.

Load capacity

All **height adjustable arms** have a load capacity of 22 kg/ 48.5 lbs. Rear mounted monitor adaptations and horizontally mounted 5" plunge plates accept a maximum monitor weight of 18 kg/ 39.7 lbs. Additional 4 kg/ 8.8 lbs may be mounted on a down-post underneath the front swivel part. Depending on material and tensile factor all weight indications have a 4-fold and/ or 6-fold safety factor according to EN 60601-1, 3rd Edition regulations.

Custom-designed solutions and MRI applications

Please contact us for **custom-designed** solutions.

Product marking

All CIM products are CE marked. As **medical product risk class 1** they are conform with the regulations MDD 93/42 ECC and EN 60601-1, 3rd Edition. TUEV reports for numerous products especially for anaesthesia applications guarantee electrical and mechanical safety of our products.



HOW TO CREATE PART NUMBERS

Part numbers can be easily created by following the steps below:

Please replace the letters in **green** with the part no. code as per your requirements.

1. Components' grounding:

A = grounded

2. Choose the arm version required:

224MD/ 230MD	=	support arm pivot
H33030MD	=	extended pivot arm
431MD	=	height adjustable arm
73130MD	=	extended height adjustable arm
531MD	=	high-position height adjustable arm
83130MD	=	extended high-position height adjustable arm

3. Specify where you want to mount the arm and select the fixing (Y):

1V	=	pole ø 23 - 40 mm/ 0.9 - 1.6"
1	=	pole ø 25 mm/ 1.0"
1F	=	pole ø 35 mm/ 1.4"
1C	=	pole ø 38 mm/ 1.5"
2F	=	horizontal rails 10 x 25, 10 x 30 mm
3	=	vertical rail
3DR	=	dual vertical rails, distance 150 mm/ 5.9"
3TX	=	dual vertical rails, distance 225 mm/ 8.9"
4V	=	vertical wall channel
4U	=	vertical wall channel for arms with high mounting position
	=	anaesthesia machine with existing GCX channel
8	=	lateral adapter to Trumpf klinoPORT ceiling pendant
82	=	adapter to Trumpf klinoPORT frontal
9	=	Heinen & Löwenstein anaesthesia machine
10	=	Maquet FLOW i anaesthesia machine



HOW TO CREATE PART NUMBERS

4. Choose the colour requested for decorative parts (C):

gr	=	RAL 7024 (dark grey)
bl	=	RAL 5013 (blue)

5. Choose the colour requested for the aluminium die-cast parts (D):

1	=	RAL 9016 (pure white)
2	=	RAL 9002 (grey white)

6. Specify the spring depending on the weight of your monitor/ device - only with height adjustable arms (X):

80	=	3 - 8 kg/ 6.6 - 17.6 lbs
95	=	5 - 11 kg/ 11 - 24.3 lbs
130	=	9 - 14 kg/ 19.8 - 30.9 lbs
175	=	13 - 17 kg/ 28.7 - 37.5lbs
220	=	16 - 22 kg/ 35.3 - 48.5 lbs

EXAMPLE

1 Grounding		2 Arm version		3 Fixing		4 & 5 Colour		6 Spring tension
A	-	431MD	-	Y	.	CD	—	X
A	-	431MD	-	4V	.	gr1	—	80

PRODUCT HIGHLIGHTS

Non-height adjustable arm

Pivot and extended pivot arms offer **full cable integration** and easy cleaning for **infection control** in all critical care areas in the clinical environment. Our **5-years warranty** guarantees reliable, trouble-free and maintenance-free operation. The swivel function at the fixing point as well as the **tilt/ swivel function** of the monitor adaptation offers optimum positioning of your device. The extended pivot arm is a two-part arm with central pivot point between the two arm sections. All bottom-mounted monitors have the safety feature of a **20° tilt stop**.

Height adjustable arm

The height adjustable arm offers **full cable integration**, one-wipe clean surfaces and our **5-year warranty** on the entirety of the product. Vertically and horizontally adjustable the arm offers optimal positioning of your device. A constant viewing angle when vertically adjusted is guaranteed by a parallel linkage. **Weight-optimized springs counter-balance** the monitor without making any adjustments. All bottom-mounted monitors have the safety feature of a **20° tilt stop**. Individual rotational stops may be integrated in any joint.

SAFETY

To provide the perfect combination of arm and monitor, the CIM articulated height adjustable arm has a simply quarter-turn lock to hold the arm safely in position when removing the monitor. Furthermore the arm is equipped with the unique safety feature of a slow-release gas spring. Should anybody try to remove the monitor before locking the arm in position, our arm will only rise at a slow and even tempo.



SUPPORT ARM PIVOT

Monitor adaption	prepared to accept Mindray mounting adapter
Colours to choose	decorative parts: RAL 5013 blue / RAL 7024 dark grey aluminum parts: RAL 9016 pure white / RAL 9002 grey white
Max. load capacity support arm	18 kg/ 39.7 lbs
Max. load monitor adaptation	18 kg/ 39.7 lbs
Product weight	240 mm/ 9.5": 1,9 kg/ 4.2 lbs; 300 mm/ 11.8": 2 kg/ 4.4 lbs
Part number	A-224MD-Y.CD arm length 240 mm/ 9.5" A-230MD-Y.CD arm length 300 mm/ 11.8"



Fixings Y / details page 23 and 24



Adapter for vertical wall channel



Fixed rail clamp



Vertical rail clamp



Dual vertical rail clamp



Fixed / universal pole clamp



Lateral adapter Trumpf



Adapter for Maquet anaesthesia machines



Adapter for Heinen & Löwenstein anaesthesia machines



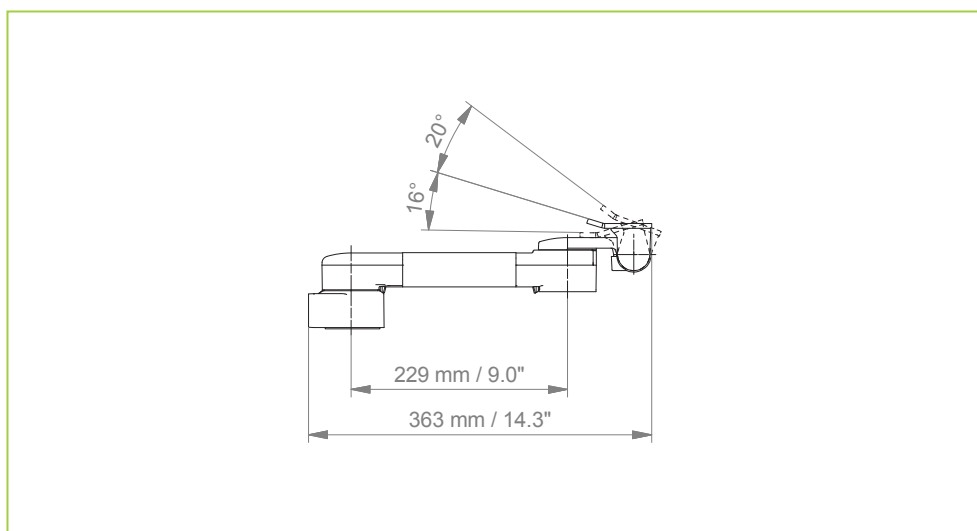
Adapter for anaesthesia machines with existing side channel



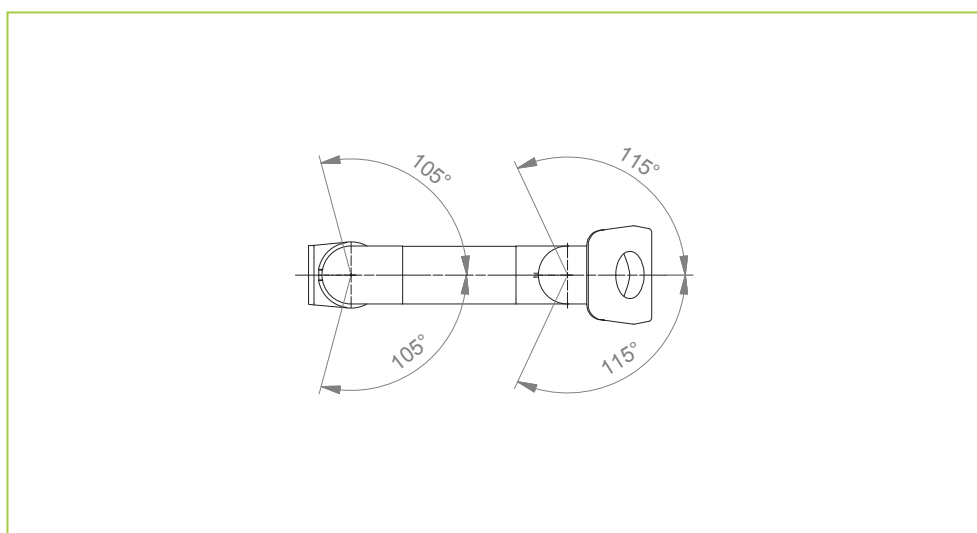
SUPPORT ARM PIVOT

Technical data - arm length 300 mm/ 11.8"

Side view



Top view



EXTENDED PIVOT ARM

Monitor adaption	prepared to accept Mindray mounting adapter
Colours to choose	decorative parts: RAL 5013 blue / RAL 7024 dark grey aluminum parts: RAL 9016 pure white / RAL 9002 grey white
Max. load capacity support arm	18 kg/ 39.7 lbs
Max. load monitor adaptation	18 kg/ 39.7 lbs
Product weight	3 kg/ 6.6 lbs
Part number	A-H33030MD-Y.CD



Fixings Y / details page 23 and 24



4V

Adapter for vertical wall channel



2F

Fixed rail clamp



3

Vertical rail clamp



3DR
3TX

Dual vertical rail clamp



1
1F
1C
1V

Fixed / universal pole clamp



8
82

Lateral adapter Trumpf



10

Adapter for Maquet anaesthesia machines



9

Adapter for Heinen & Löwenstein anaesthesia machines



4U

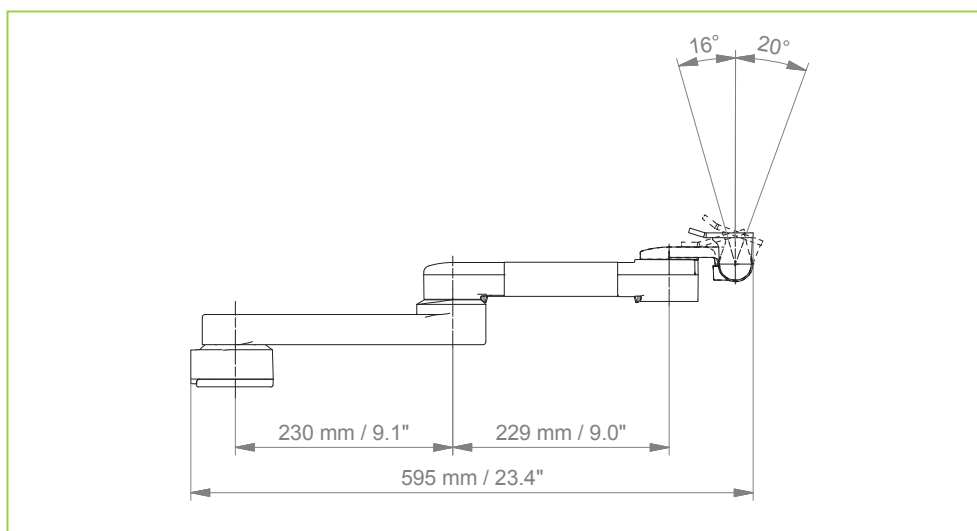
Adapter for anaesthesia machines with existing side channel



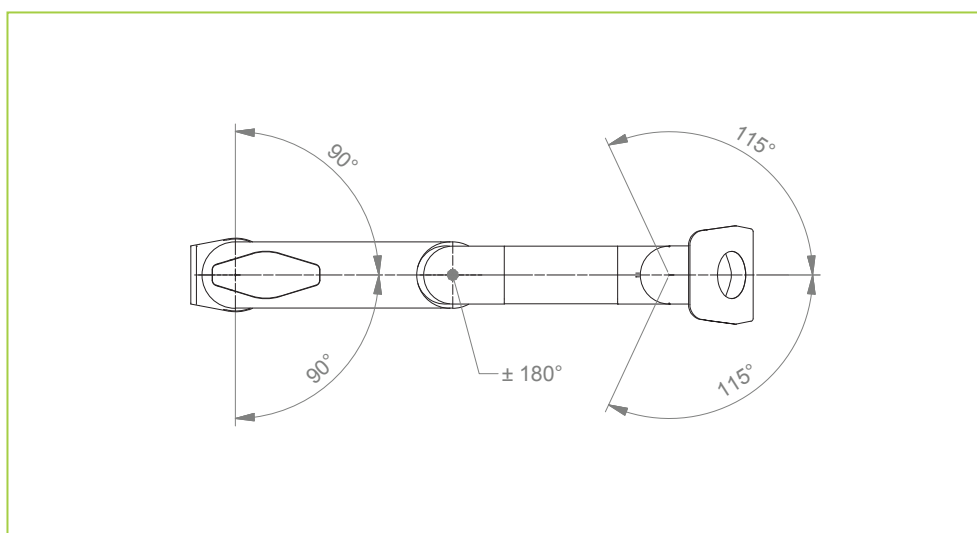
EXTENDED PIVOT ARM

Technical data

Side view

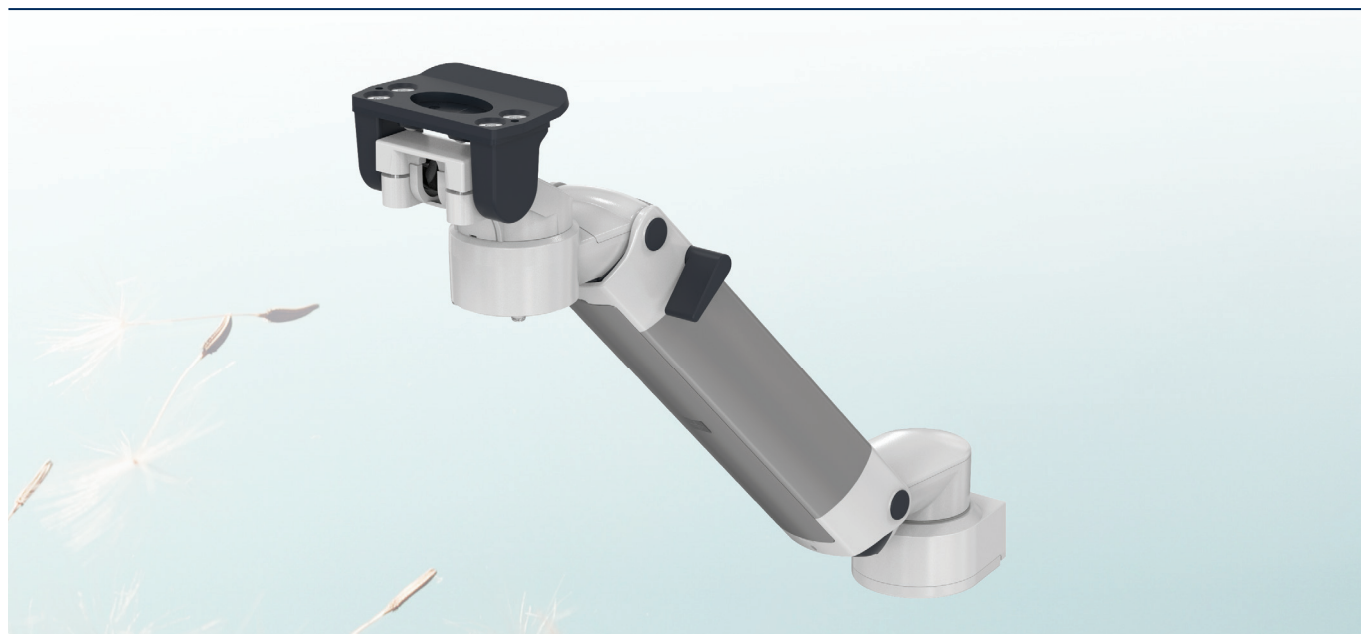


Top view



HEIGHT ADJUSTABLE ARM

Monitor adaption	prepared to accept Mindray mounting adapter
Height adjustment	slow-flowing spring, parallel linkage for a constant viewing angle
Colours to choose	decorative parts: RAL 5013 blue / RAL 7024 dark grey aluminum parts: RAL 9016 pure white / RAL 9002 grey white
Max. load capacity support arm	22 kg/ 48.5 lbs
Max. load monitor adaptation	22 kg/ 48.5 lbs
Product weight	3.6 kg/ 7.9 lbs
Balancing range	800 N (3 - 8 kg/ 6.6 - 17.6 lbs); 950 N (5 - 11 kg/ 11 - 24.3 lbs); 1300 N (9 - 14 kg/ 19.8 - 30.9 lbs); 1750 N (13 - 17 kg/ 28.7 - 37.5lbs); 2200 N (16 - 22 kg/ 35.3 - 48.5 lbs)
Part number	A-431MD-Y.CD_X



Fixings Y / details page 23 and 24

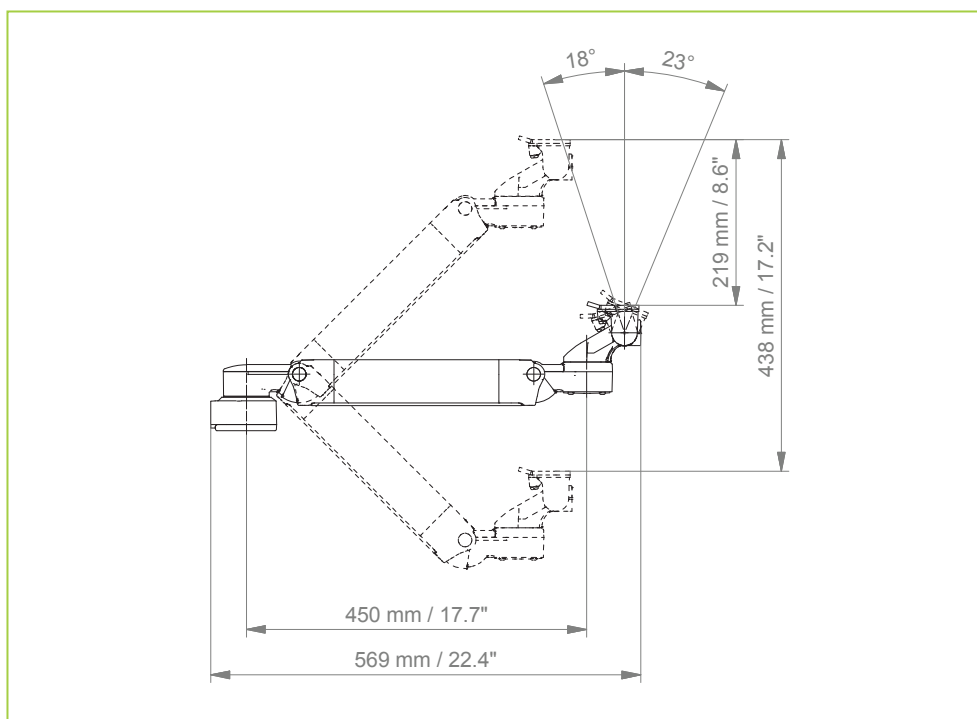
 4V	 2F	 3	 3DR 3TX	 1 1F 1C 1V	 8 82
Adapter for vertical wall channel	Fixed rail clamp	Vertical rail clamp	Dual vertical rail clamp	Fixed / universal pole clamp	Lateral adapter Trumpf
 10	 9	 4U			
Adapter for Maquet anaesthesia machines	Adapter for Heinen & Löwenstein anaesthesia machines	Adapter for anaesthesia machines with existing side channel			



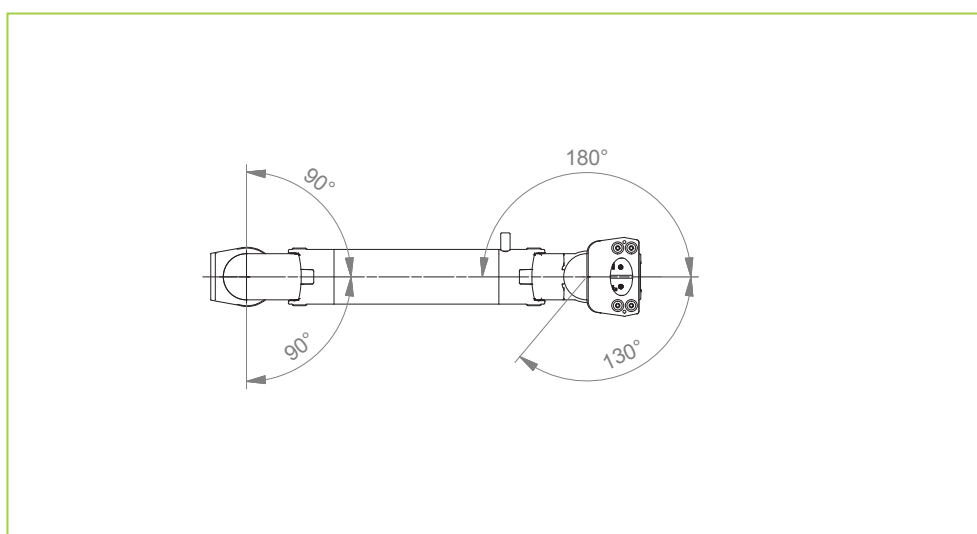
HEIGHT ADJUSTABLE ARM

Technical data

Side view



Top view



EXTENDED HEIGHT ADJUSTABLE ARM

Monitor adaption	prepared to accept Mindray mounting adapter
Height adjustment	slow-flowing spring, parallel linkage for a constant viewing angle
Colours to choose	decorative parts: RAL 5013 blue / RAL 7024 dark grey aluminum parts: RAL 9016 pure white / RAL 9002 grey white
Max. load capacity support arm	22 kg/ 48.5 lbs
Max. load monitor adaptation	22 kg/ 48.5 lbs
Product weight	5.6 kg/ 12.4 lbs
Balancing range	800 N (3 - 8 kg/ 6.6 - 17.6 lbs); 950 N (5 - 11 kg/ 11 - 24.3 lbs); 1300 N (9 - 14 kg/ 19.8 - 30.9 lbs); 1750 N (13 - 17 kg/ 28.7 - 37.5lbs); 2200 N (16 - 22 kg/ 35.3 - 48.5 lbs)
Part number	A-73130MD-Y.CD_X



Fixings Y / details page 23 and 24

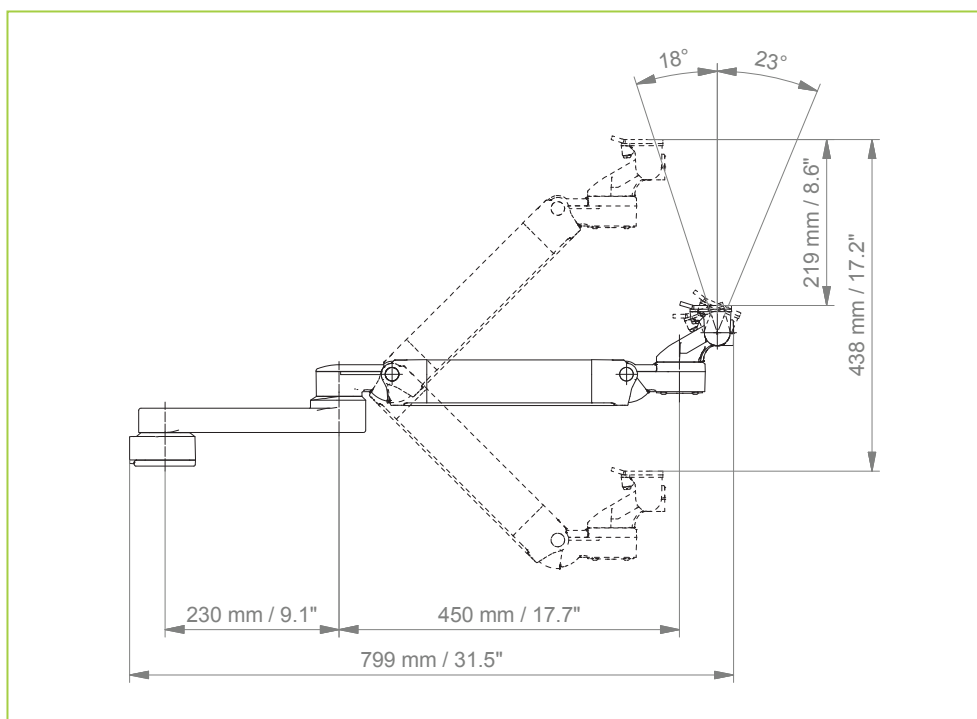
 4V	 2F	 3	 3DR 3TX	 1 1F 1C 1V	 8 82
Adapter for vertical wall channel	Fixed rail clamp	Vertical rail clamp	Dual vertical rail clamp	Fixed / universal pole clamp	Lateral adapter Trumpf
 10	 9	 4U			
Adapter for Maquet anaesthesia machines	Adapter for Heinen & Löwenstein anaesthesia machines	Adapter for anaesthesia machines with existing side channel			



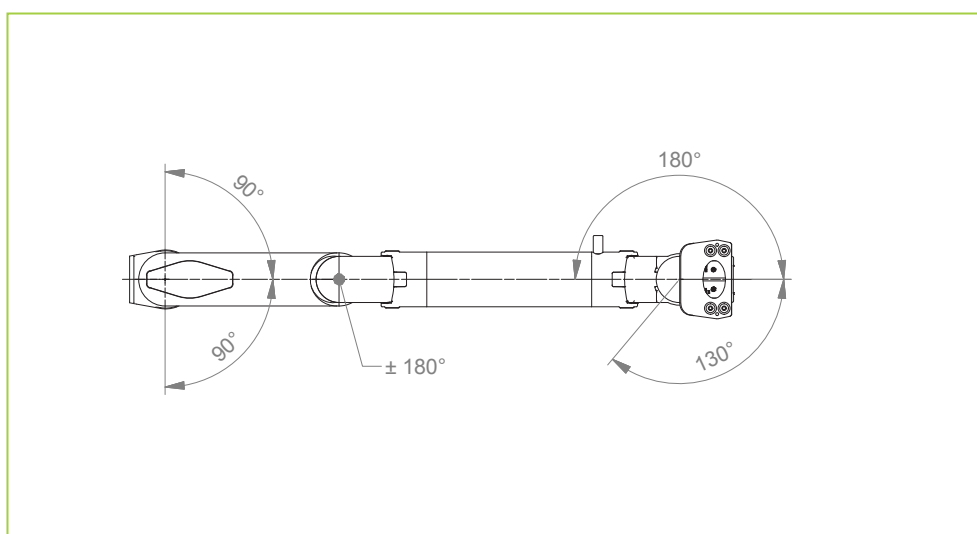
EXTENDED HEIGHT ADJUSTABLE ARM

Technical data

Side view

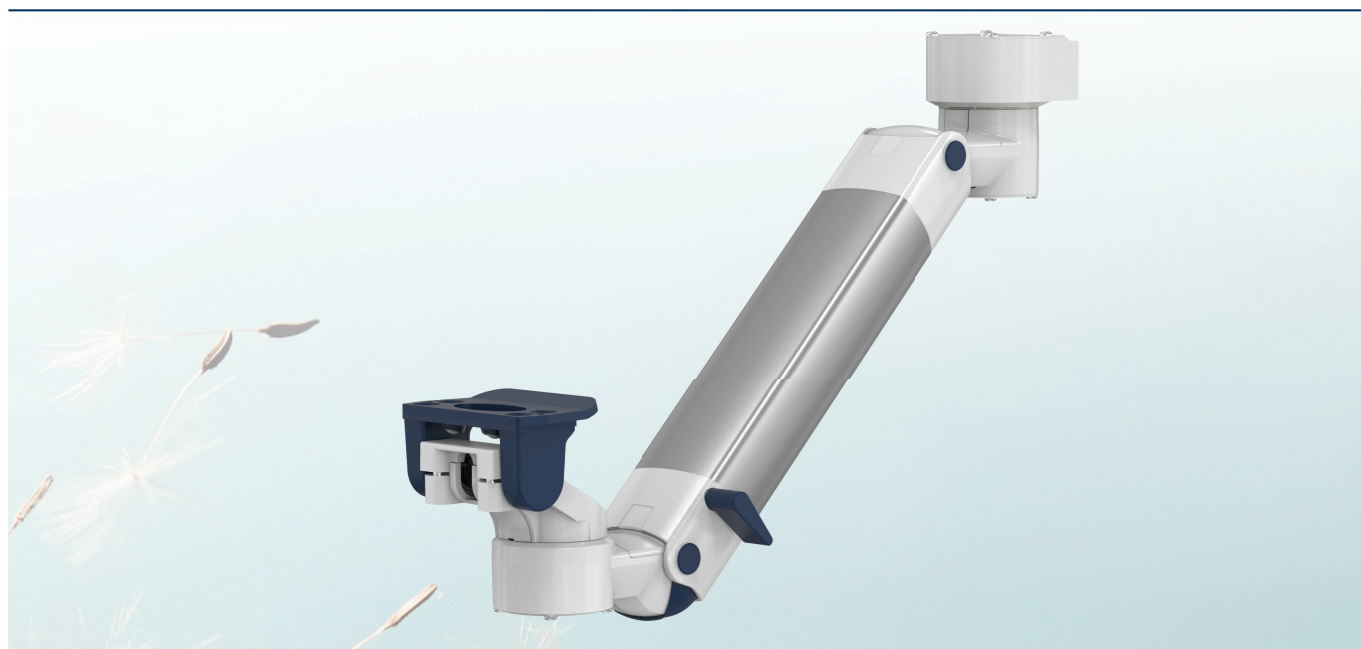


Top view



HIGH POSITION HEIGHT ADJUSTABLE ARM

Monitor adaption	prepared to accept Mindray mounting adapter
Height adjustment	slow-flowing spring, parallel linkage for a constant viewing angle
Colours to choose	decorative parts: RAL 5013 blue / RAL 7024 dark grey aluminum parts: RAL 9016 pure white / RAL 9002 grey white
Max. load capacity support arm	22 kg/ 48.5 lbs
Max. load monitor adaptation	22 kg/ 48.5 lbs
Product weight	3.6 kg/ 7.9 lbs
Balancing range	800 N (3 - 8 kg/ 6.6 - 17.6 lbs); 950 N (5 - 11 kg/ 11 - 24.3 lbs); 1300 N (9 - 14 kg/ 19.8 - 30.9 lbs); 1750 N (13 - 17 kg/ 28.7 - 37.5lbs); 2200 N (16 - 22 kg/ 35.3 - 48.5 lbs)
Part number	A-531MD-Y.CD_X



Fixings

Y / details page 23



4U

Adapter for
vertical wall channel



3

Vertical
rail clamp



3DR
3TX

Dual vertical
rail clamp



1
1F
1C
1V

Fixed / universal
pole clamp



8
82

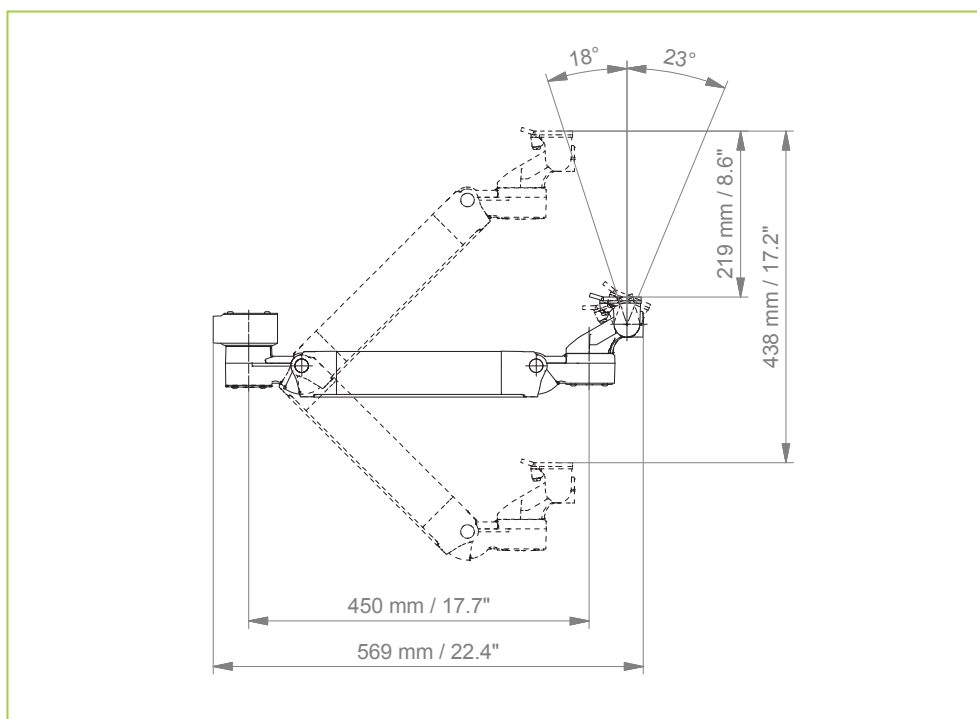
Lateral adapter
Trumpf



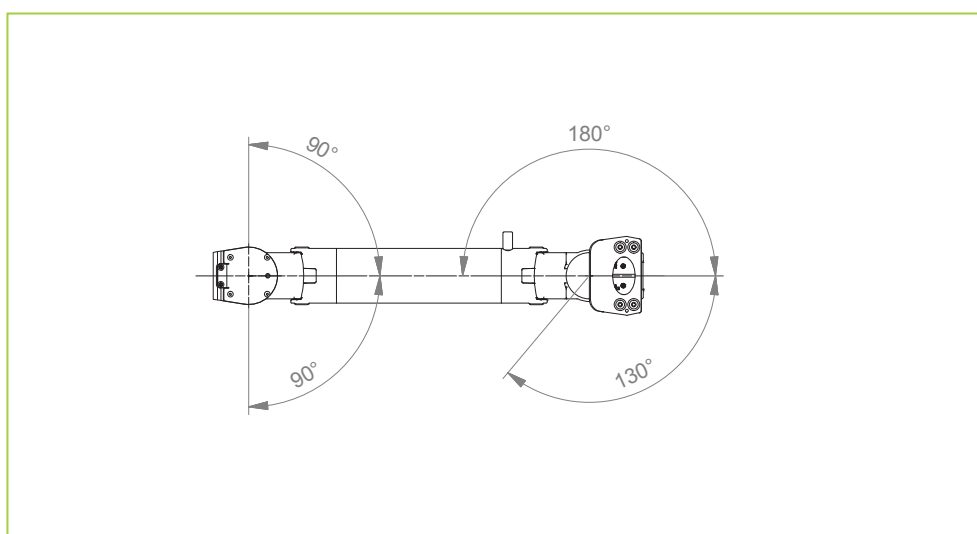
HIGH POSITION HEIGHT ADJUSTABLE ARM

Technical data

Side view



Top view



EXTENDED HIGH POSITION HEIGHT ADJUSTABLE ARM

Monitor adaption	prepared to accept Mindray mounting adapter
Height adjustment	slow-flowing spring, parallel linkage for a constant viewing angle
Colours to choose	decorative parts: RAL 5013 blue / RAL 7024 dark grey aluminum parts: RAL 9016 pure white / RAL 9002 grey white
Max. load capacity support arm	22 kg/ 48.5 lbs
Max. load monitor adaptation	22 kg/ 48.5 lbs
Product weight	5.6 kg/ 12.4 lbs
Balancing range	800 N (3 - 8 kg/ 6.6 - 17.6 lbs); 950 N (5 - 11 kg/ 11 - 24.3 lbs); 1300 N (9 - 14 kg/ 19.8 - 30.9 lbs); 1750 N (13 - 17 kg/ 28.7 - 37.5 lbs); 2200 N (16 - 22 kg/ 35.3 - 48.5 lbs)
Part number	A-83130MD-Y.CD_X



Fixings

Y / details page 23



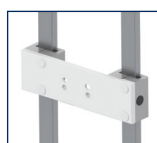
4U

Adapter for
vertical wall channel



3

Vertical
rail clamp



3DR
3TX

Dual vertical
rail clamp



1
1F
1C
1V

Fixed / universal
pole clamp



8
82

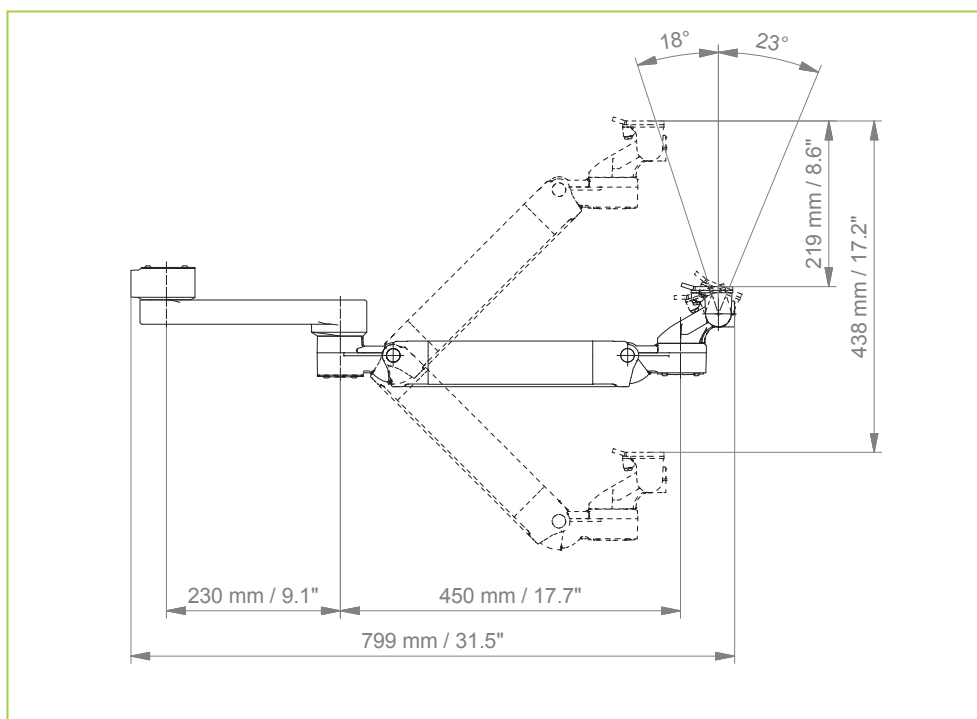
Lateral adapter
Trumpf



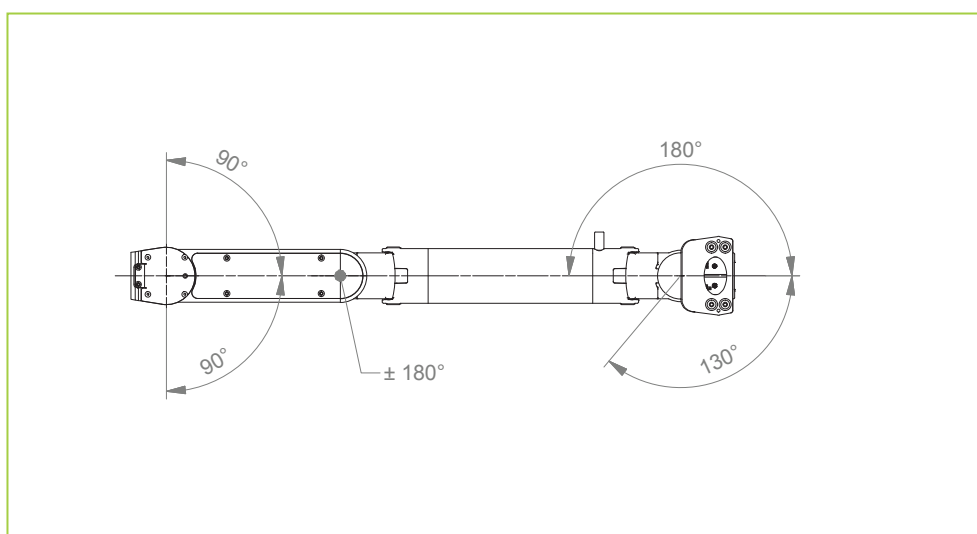
EXTENDED HIGH POSITION HEIGHT ADJUSTABLE ARM

Technical data

Side view



Top view





COUNTER TOP

Monitor adaption

prepared to accept Mindray mounting adapter

Colours to choose

decorative parts: RAL 5013 blue / RAL 7024 dark grey

aluminum parts: RAL 9016 pure white / RAL 9002 grey white

Max. load monitor adaptation

18 kg/ 39.7 lbs

Part number

Counter top with base plate (see illustration)

T-HMD-60.CD_50 height 50 mm/ 2"

T-HMD-60.CD_120 height 120 mm/ 4.7"

Counter top without base plate

T-HMD-69.CD_50 height 50 mm/ 2"

T-HMD-69.CD_120 height 120 mm/ 4.7"

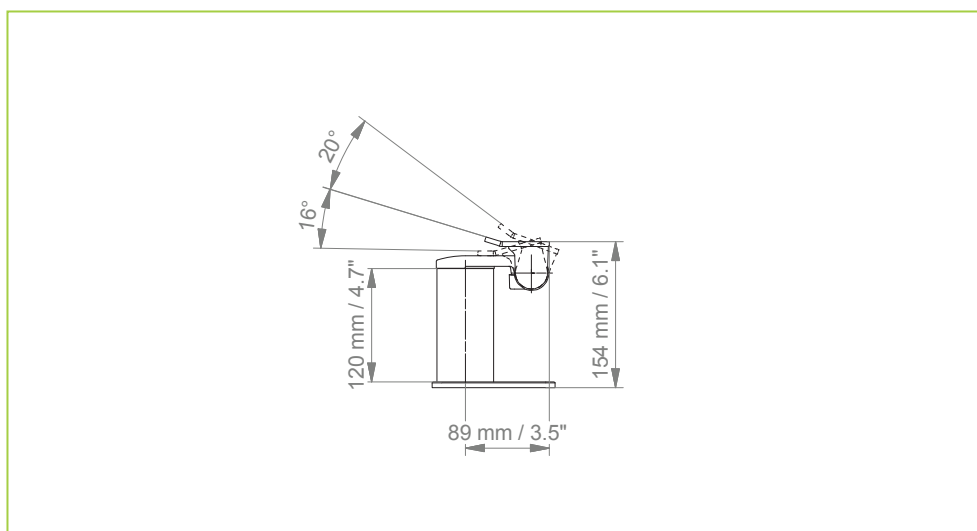




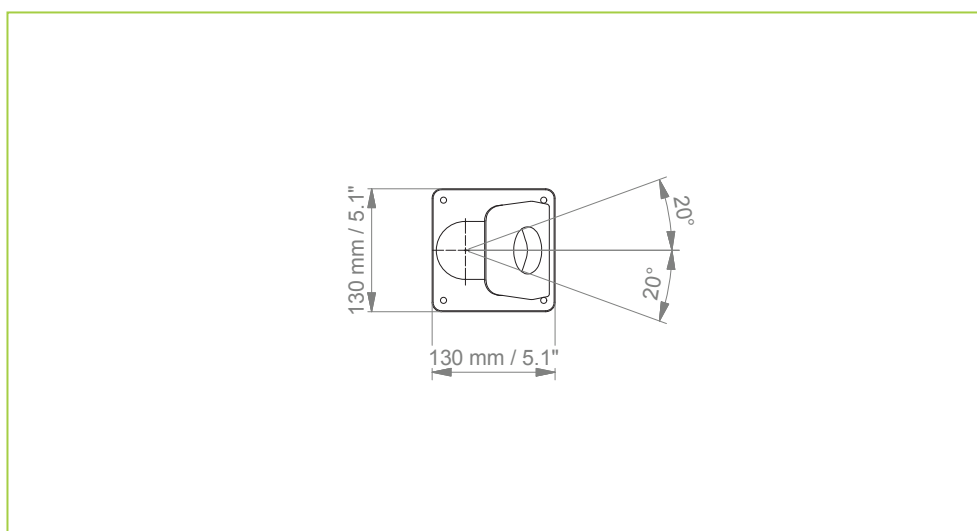
COUNTER TOP

Technical data - with base plate

Side view



Top view



CART LIGHT DUTY

- 5-star base aluminum base with counter weight
- double wheel castors, ø 100 mm, 2 lockable
- column to accept components and accessories on opposite sides
- monitor adapter: prepared to accept Mindray mounting adapter
- colours to choose:
decorative parts: RAL 5013 blue / RAL 7024 dark grey
base: RAL 9016 pure white (part no. code 1) / RAL 5013 blue (part no. code 6)
- max. load monitor adaptation: 14 kg/ 30.9 lbs

Part number		
	Roll stand	R-002MD.CD
	Basket big	Z-51-4Z
	Basket small	Z-52-4Z
	Handle	Z-HD-4Z.e1

Optional Accessories

- basket big 300 x 200 x 180 mm/ 11.8 x 7.9 x 7.1"
- basket small 200 x 150 x 100 mm/ 7.9 x 5.9 x 3.9"
- handle

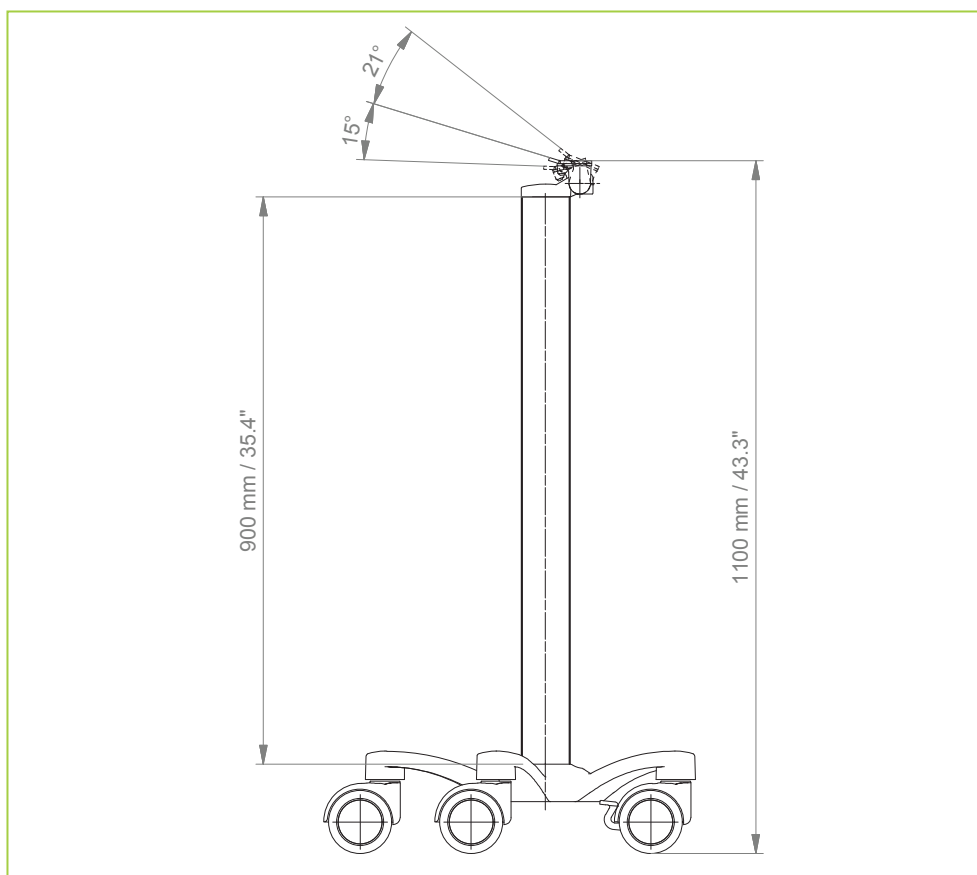




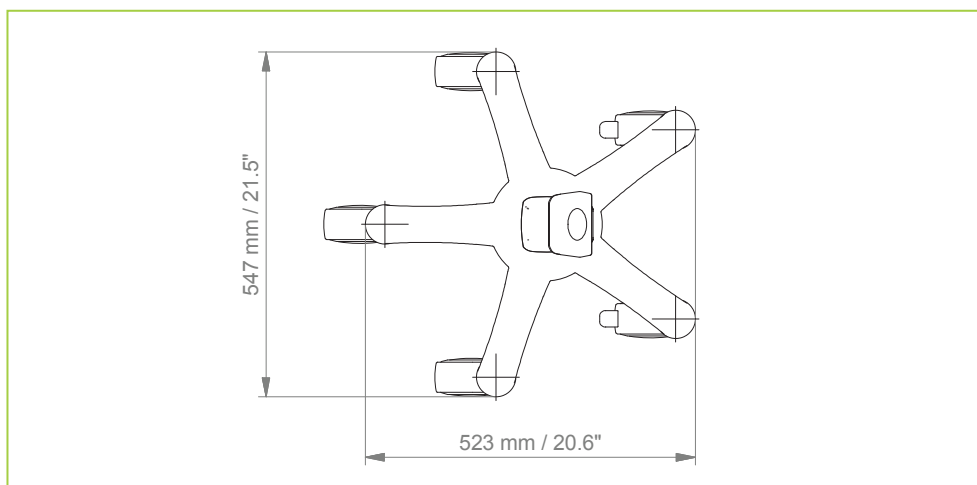
CART LIGHT DUTY

Technical data

Side view



Top view





FIXINGS

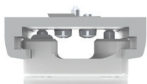


Illustration	Description	Notes	Part. no
	Adapter for vertical wall channel	To mount to CIM wall channel (compatible with GCX channel) For arms with high mounting positions Please order separately: CIM wall channel, see catalogue accessoires	4V 4U
	Fixed rail clamp	To mount to horizontal European rails 10 x 25, 10 x 30mm for all arms	2F
	Vertical rail clamp	To mount to vertical European rail 10 x 25 mm	3
	Dual vertical rail clamp	To mount to two parallel vertical European rails 10 x 25, 8 x 35, 10 x 30, 10 x 50 mm Distance between rails 150 mm/ 5.9", e.g. Dräger pendant Distance between rails 225 mm/ 8.9", e.g. Trilux pendant	3DR 3TX
	Fixed pole clamp	To mount to pole ø 25 mm/ 1.0" To mount to pole ø 35 mm/ 1.4" To mount to pole ø 38 mm/ 1.5"	1 1F 1C
	Universal pole clamp	V-block to mount to pole ø 23 - 40 mm/ 0.9 - 1.6"	1V
	Lateral adapter adapter	For Trumpf klinoPORT ceiling pendant For Trumpf klinoPORT frontal	8 82



FIXINGS FOR ANAESTHESIA MACHINES



Illustration	Description	Notes	Part. no
	Adapter for Maquet anaesthesia machines	Cone adapter for Maquet FLOW i	10
	Adapter for Heinen & Löwenstein anaesthesia machines	Adapter for Leon/ Leon plus	9
	Adapter for anaesthesia machines (all suppliers)	H 80 mm/ 3.1" With existing side channel	4U
If your anaesthesia machine does not have a side channel already mounted to the machine, please order the following in addition to 4U:			
	Adapter for Dräger 	Dräger Primus/ Julian/ Cato/ Fabius GS/ Zeus side channel adapter L 127 mm/ 5" side channel adapter L 320 mm/ 12.6"	DR-J01 DR-J02
	Adapter for GE 	GE Avance/ Aespire/ Aestiva side channel adapter L 200 mm/ 7.9"	DX-AES-01



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