



Coupling determination

When determining the coupling, there are two choices you have to make. Which base-part is mounted on the machine and which front-part is coupled to the trolley.

On the right is the explanation of the base-part and the front-part.

On pages 3 and 4 there are 2 flowcharts for determining which parts are needed.

Starting on page 5 there are the drawings where the dimensions of the coupling can be filled in.

On page 11 the rest of the specifications and the standard couplings can be found

Base-part coupling

The type of base-part to be used is depending on the machine and on the height of the connection with the trolley.

The base-part includes the hinge point to ensure a flexible connection between machine and trolley.

Front-part coupling

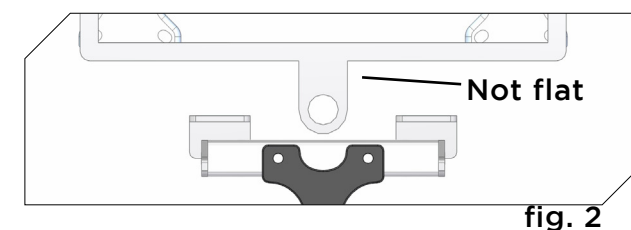
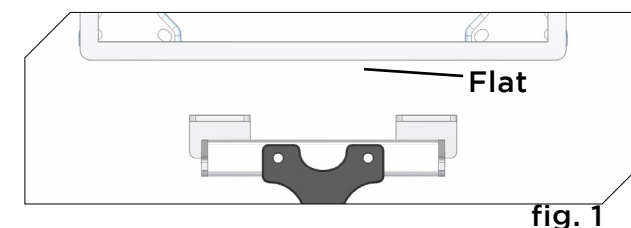
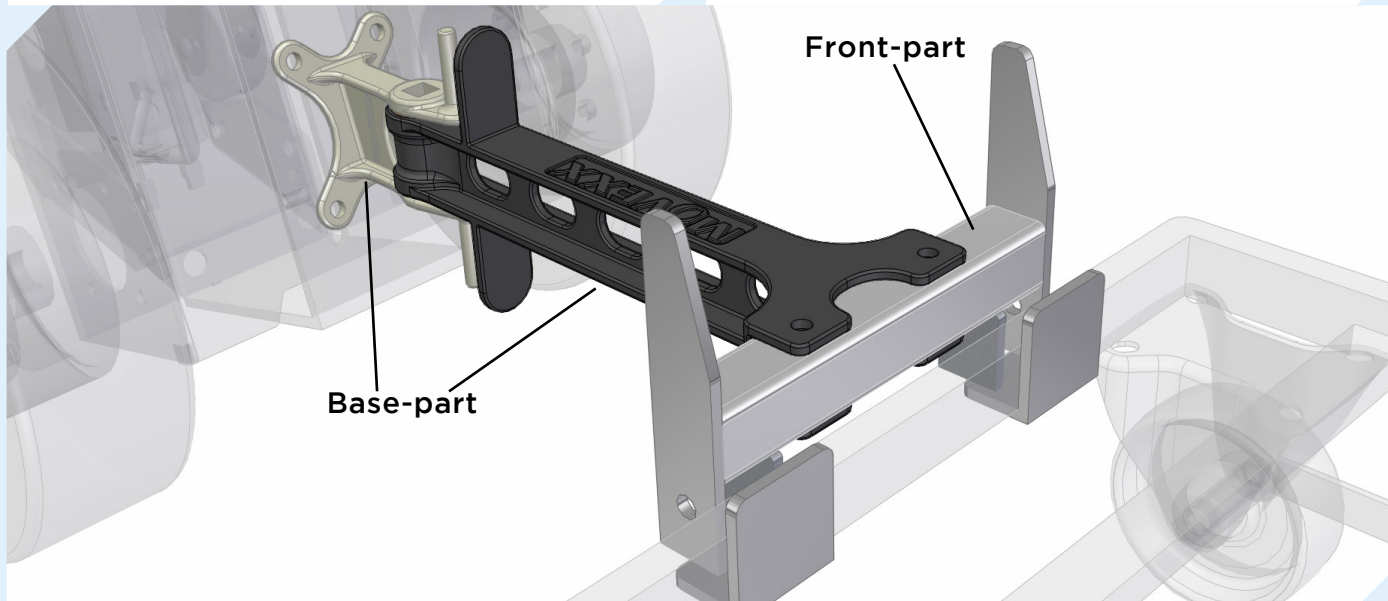
The front-part must fit to the trolley frame

Each type of front-part can be mounted to every base-part

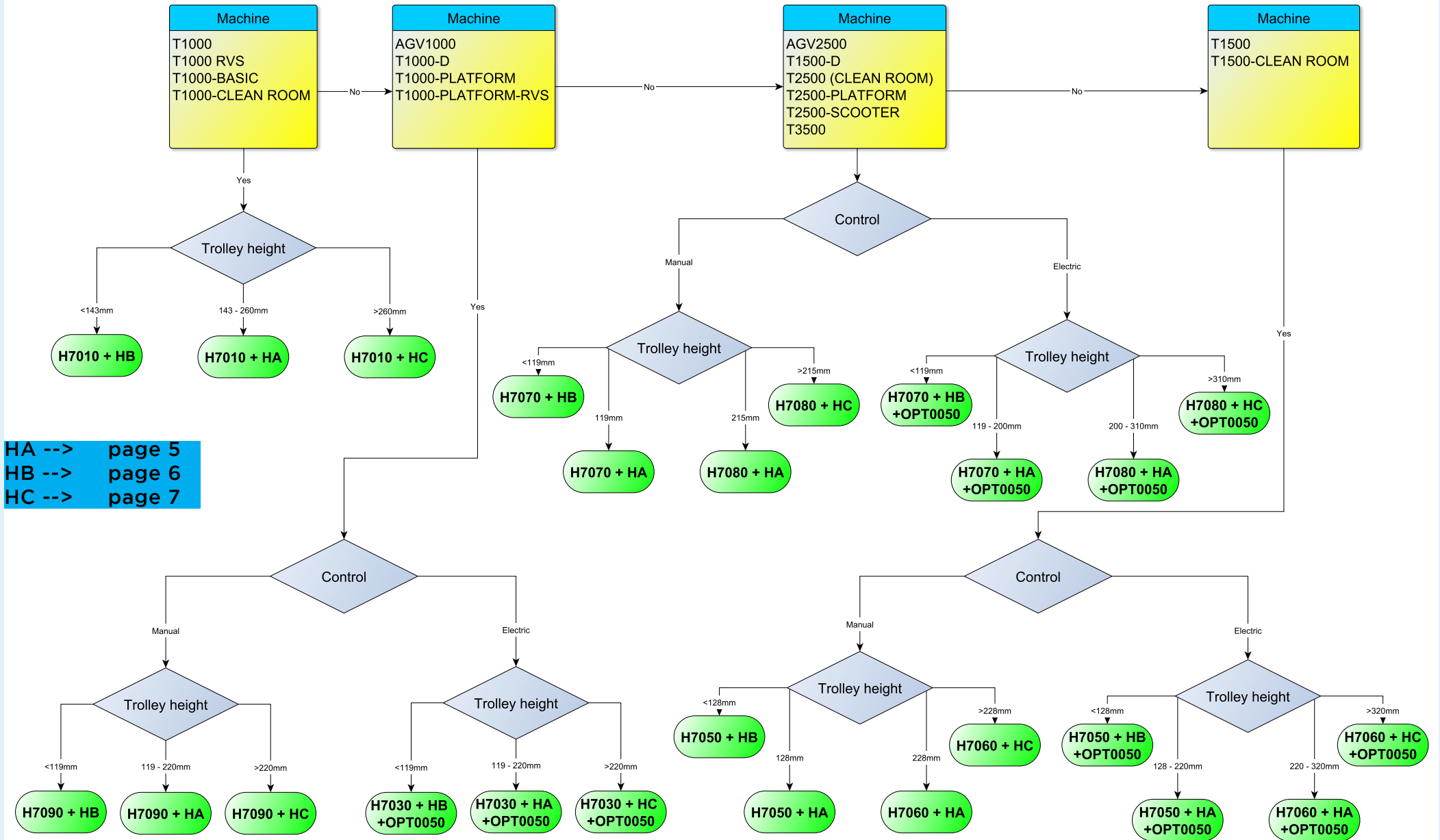
There are 6 front-part types. On page 3 and 4 there are 2 flowcharts that can be used to determine which front-part is needed to connect to the trolley.

If the front of the trolley is flat (fig. 1), use the flowchart at page 3.

If the front of the trolley is not flat (fig. 2), use the flowchart at page 4.



Determining flowchart for base-part and front-part (standard)



HA --> page 5
HB --> page 6
HC --> page 7

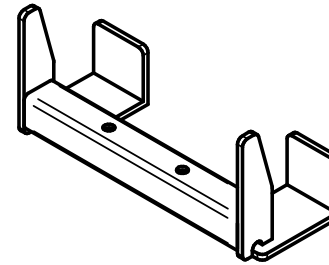
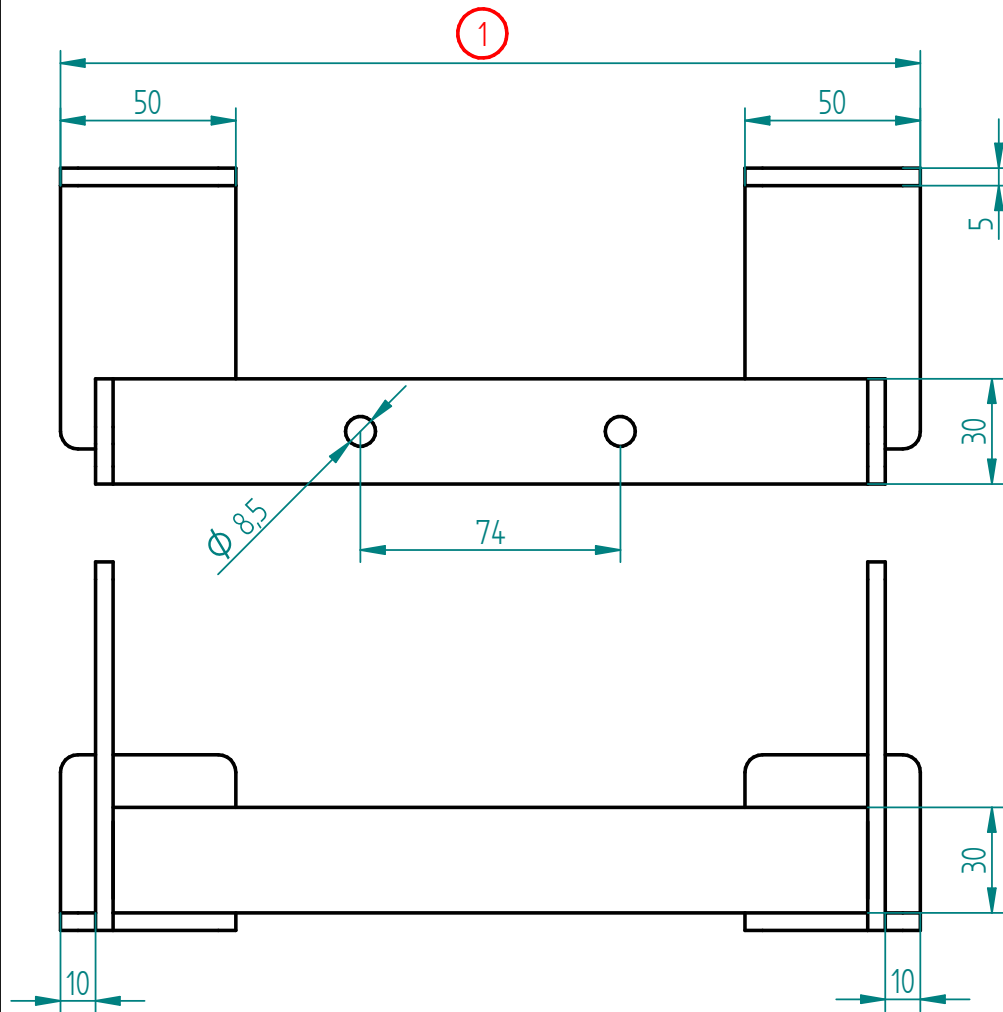
Standard

Determining flowchart for base-part and front-part (Extended)

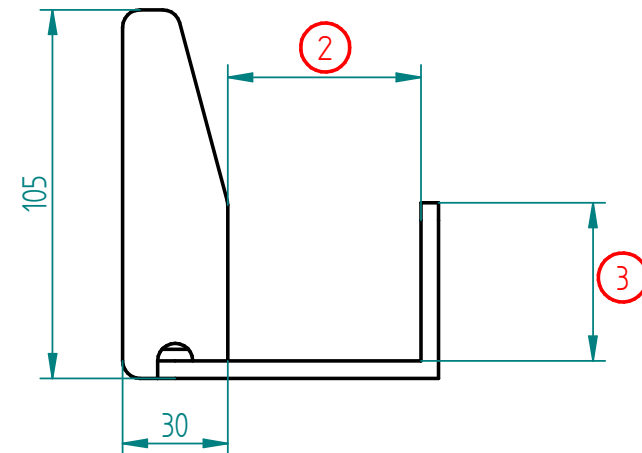


Extended

Dimensions front-part HA



Dimensions	
1	
2	
3	

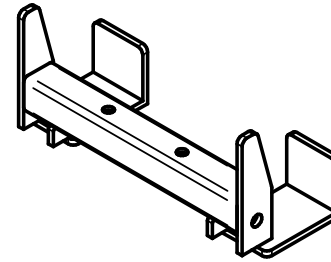
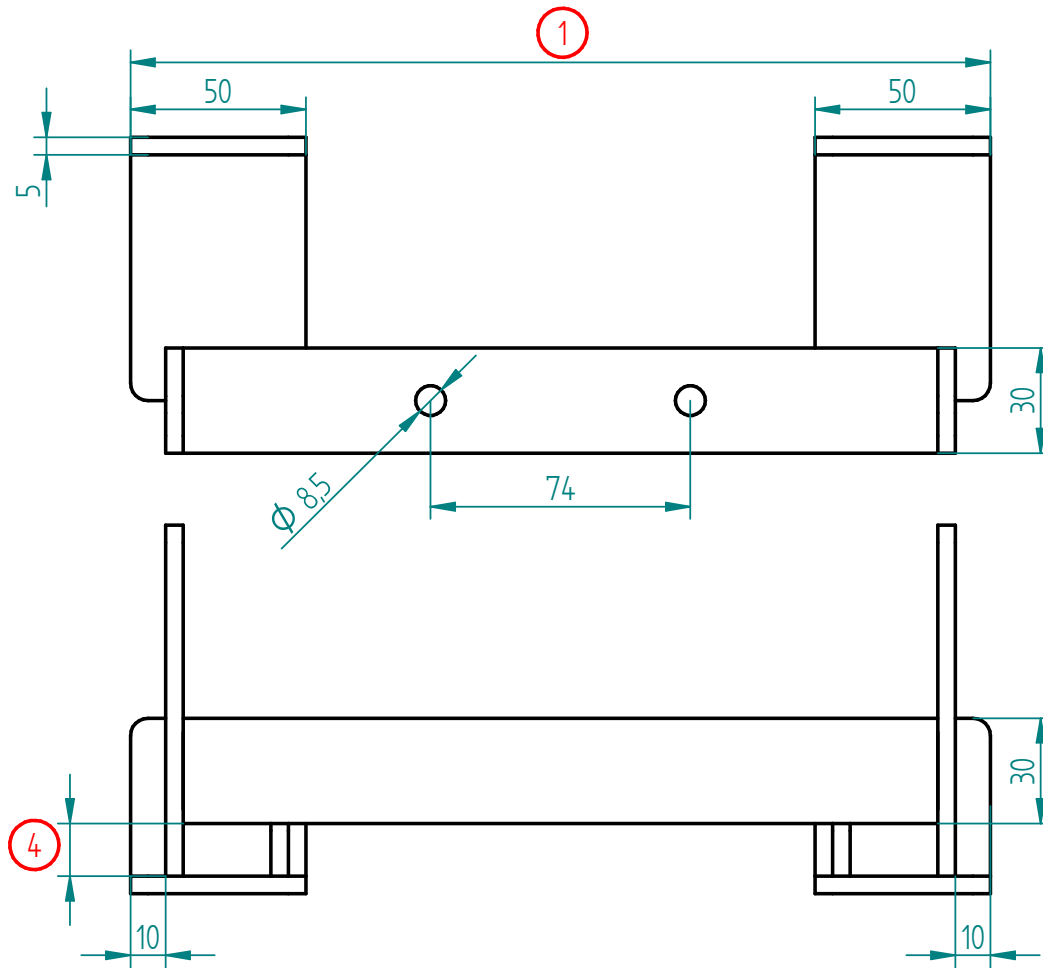


Standard

movexx

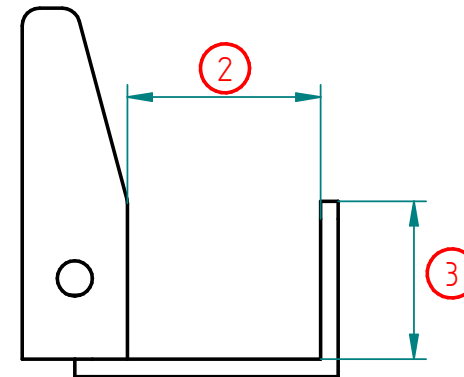
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Getekend :	Johan	5-12-2014	Materiaal:	
Gecontroleerd :	-	DD-MM-JJJJ	Documentnr. :	
Maateenheid : mm			HA front	
Formaat : A4			Rev.	
Schaal : 1:2			Bestandsnaam : HA front.dft	

Dimensions front-part HB (Standard - Lowered)



Dimensions

1	
2	
3	
4	

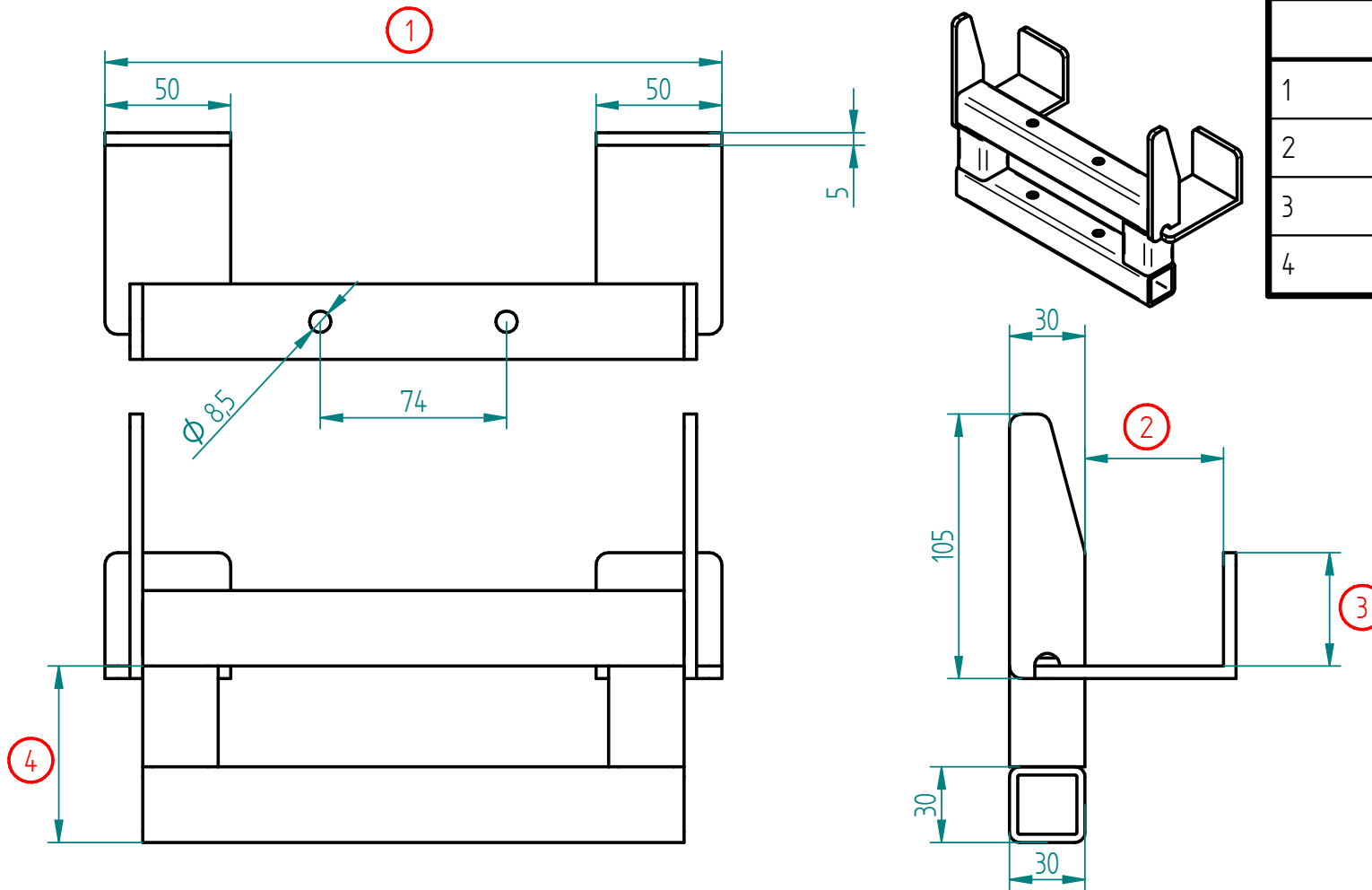


Standard - Lowered

movexx

	Naam	Datum	Titel :	
Getekend :	Johan	5-12-2014	Materiaal:	
Gecontroleerd :	-	DD-MM-JJJJ	Documentnr. :	
Maateenheid : mm			HB front	
Formaat : A4			Rev.	
Schaal : 1:2			Bestandsnaam : HB front.dft	

Dimensions front-part HC (Standard - Raised)



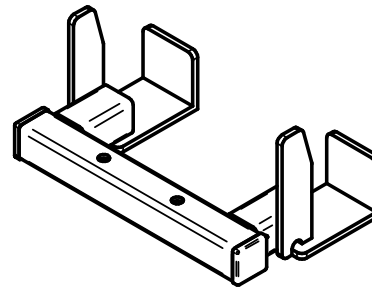
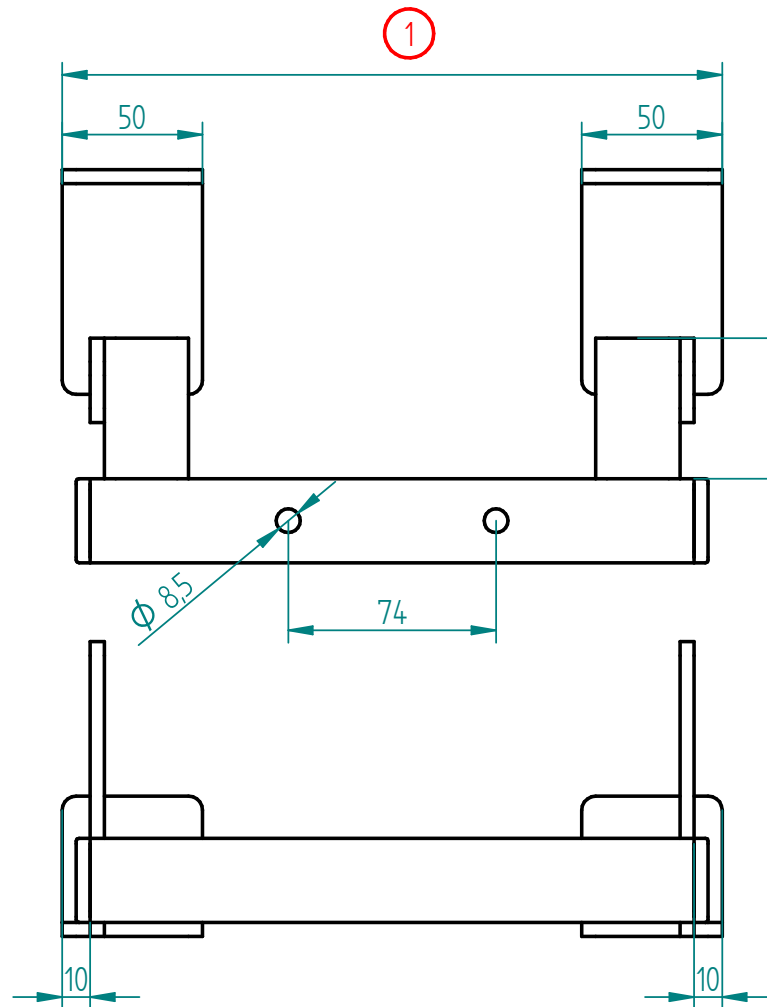
Dimensions	
1	
2	
3	
4	

Standard - Raised

movexx

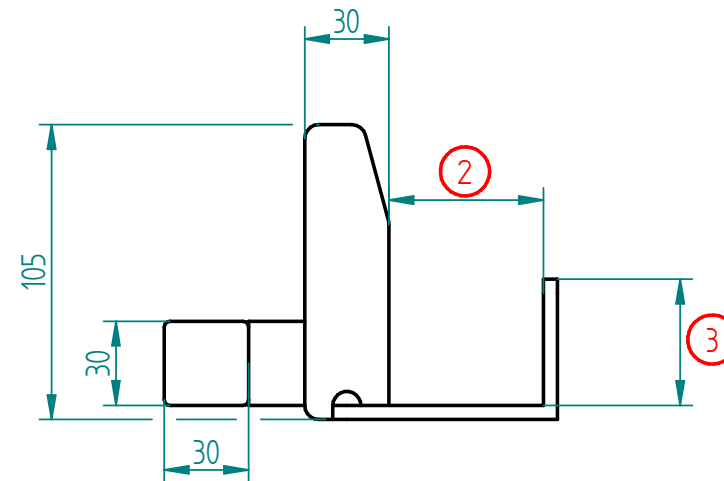
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Gecontroleerd :	-	DD-MM-JJJJ		
Maateenheid :	mm		Documentnr. :	
Formaat :	A4		HC front	
Schaal :	1:2,5		Bestandsnaam : HC front.dft	
		Amerikaanse Projectie	Rev.	

Dimensions front-part HD (Standard - Extended)



Dimensions

1	
2	
3	
5	

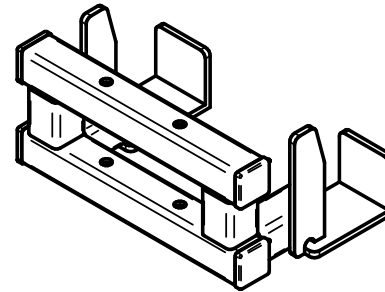
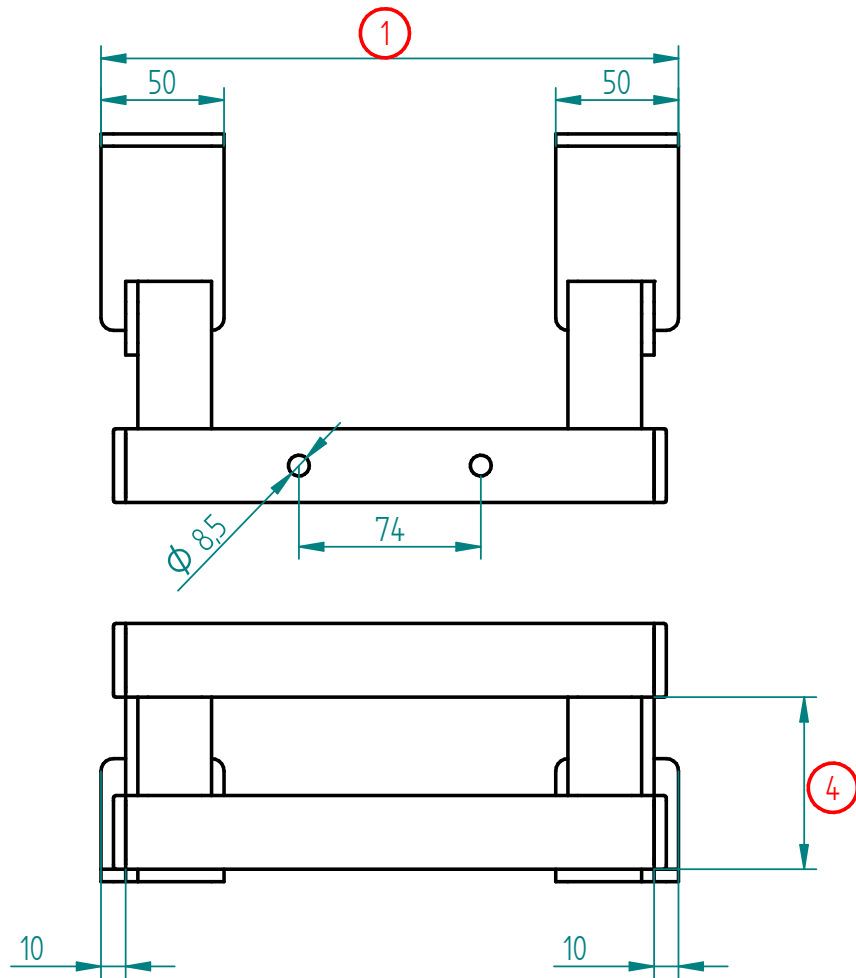


Standard - Extended

movexx

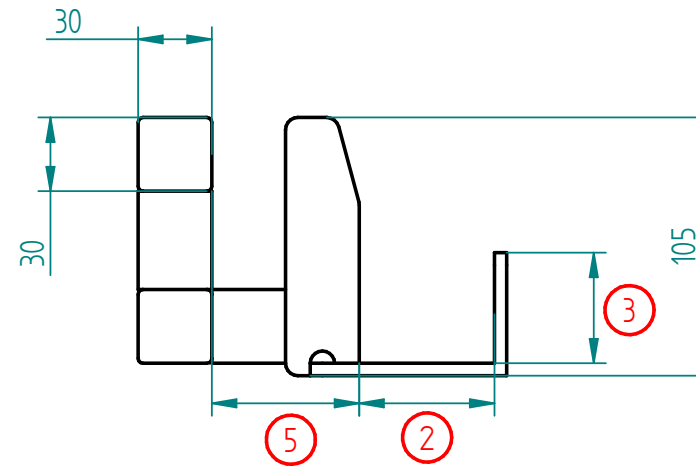
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Getekend :	Johan	5-12-2014	Materiaal:	
Gecontroleerd :	-	DD-MM-JJJJ	Documentnr. :	
Maateenheid : mm			Rev.	
Formaat : A4			HD front	
Schaal : 1:2,5			Bestandsnaam : HD front.dft	

Dimensions front-part HE (Extended - Lowered)



Dimensions

1	
2	
3	
4	
5	

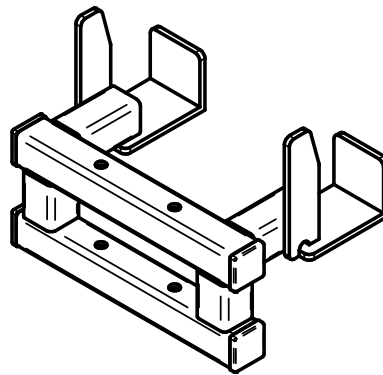
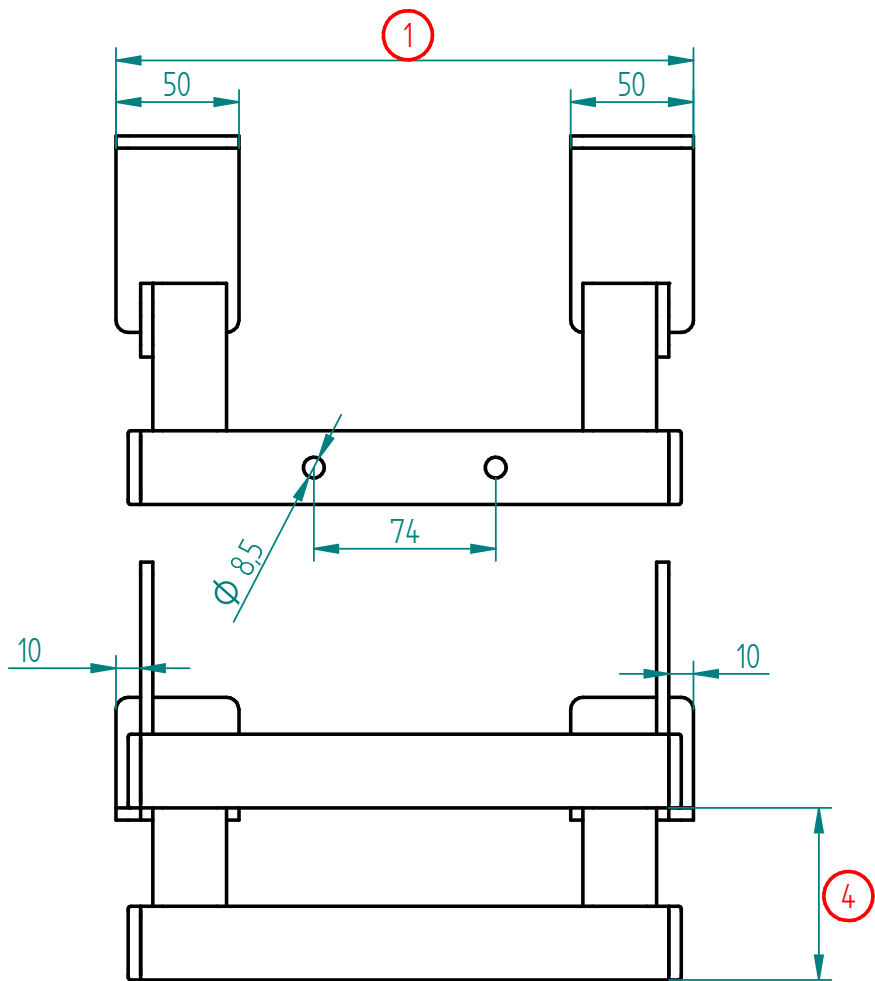


Extended - Lowered

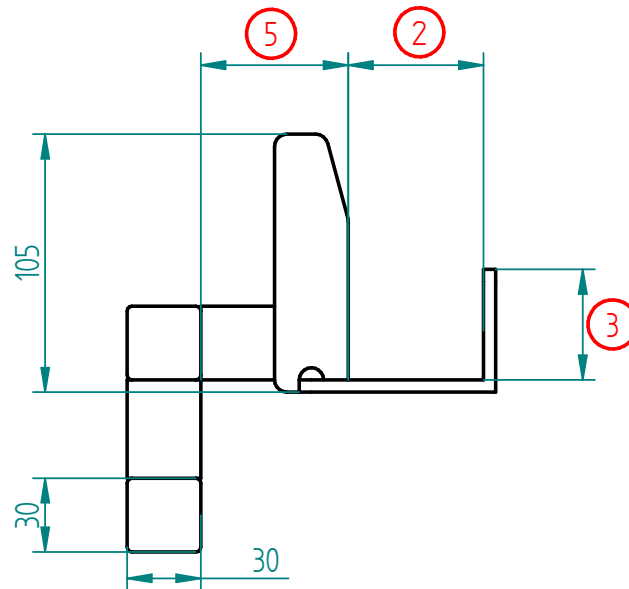
movexx

Naam	Datum	Titel :	
Getekend : Johan	5-12-2014	Materiaal:	
Gecontroleerd : -	DD-MM-JJJJ	Documentnr. :	
Maateenheid : mm		HE front	
Formaat : A4		Bestandsnaam : HE front.dft	
Schaal : 1:2,86	Amerikaanse Projectie	Rev.	

Dimensions front-part HF (Extended - Raised)



Dimensions	
1	
2	
3	
4	
5	



Extended - Raised



	Naam	Datum	Titel :		
Getekend :	Johan	5-12-2014	Materiaal:		
Gecontroleerd :	-	DD-MM-JJJJ			
Maateenheid : mm			Documentnr. :	Rev.	
Formaat : A4			HF front		
Schaal : 1:2,86			Amerikaanse Projectie		Bestandsnaam : HF front.dft

Standard couplings

Table 1 on page 12 contains the standard couplings of Movexx. Including the dimensions.

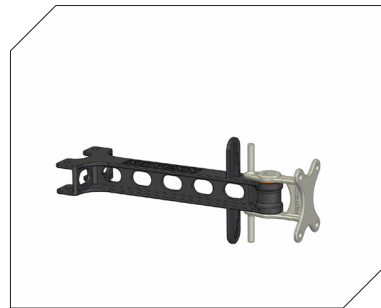
Important to know is that “dim. 2” is the dimension of the tube at which the coupling needs to be connected. The standard that Movexx follows is “tube-size + 3mm”. This means that when the tubesize is 30mm, “Dim. 2” has to be 33mm.

Customer specific couplings

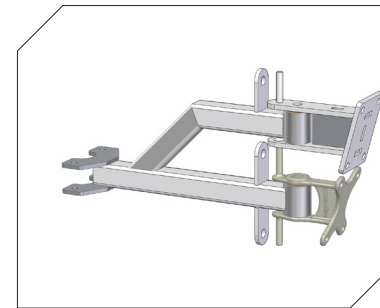
If no standard coupling to your application is available, then you can choose a “customer specific coupling”. You need to complete the drawing of the appropriate coupling type. In the table on page 12 you find the prices of the “customer specific couplings”.



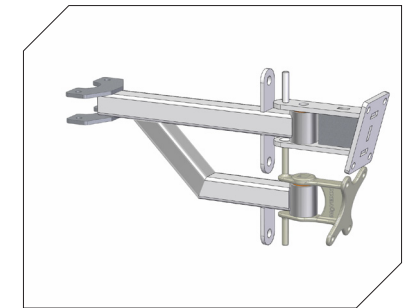
H7010



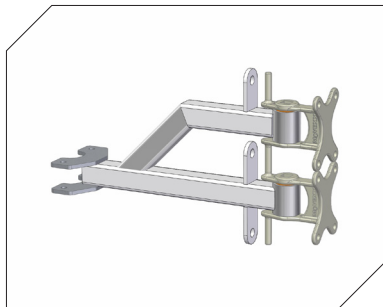
H7030



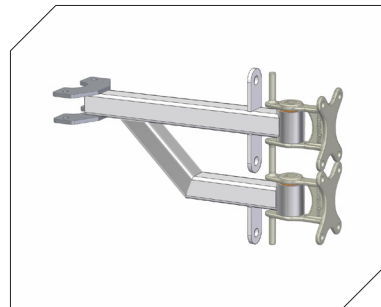
H7050



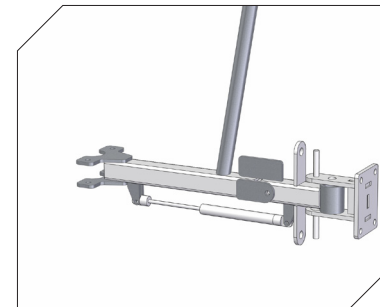
H7060



H7070



H7080



H7090

Existing couplings

Standard couplings

Article	Description		Type	Dim. 1	Dim. 2	Dim. 3	Dim. 4	Dim. 5
H0067	HA250.23.27.0.0		HA	250	23	27	0	0
H0094	HA225.28.30.0.0		HA	225	28	30	0	0
H0095	HA250.33.30.0.0		HA	250	33	30	0	0
H0051	HA250.43.35.0.0		HA	250	43	35	0	0
H0004	HA245.55.45.0.0		HA	245	55	45	0	0
H0004 CLEAN RM	HA245.55.45.0.0 (Stainless)		HA	245	55	45	0	0
H0057	HA245.142.35.0.0		HA	245	142	35	0	0
H0092	HB245.60.45.10.0		HB	245	60	45	10	0
H0090	HD245.10.35.0.50		HD	245	10	35	0	50
H0084	HD503.40.45.0.40		HD	503	40	45	0	40
H0055	HD370.73.35.0.40		HD	370	73	35	0	40

Customer specific coupling

HA5000	Include completed drawing with P.O.		HA
HB5000	Include completed drawing with P.O.		HB
HC5000	Include completed drawing with P.O.		HC
HD5000	Include completed drawing with P.O.		HD
HE5000	Include completed drawing with P.O.		HE
HF5000	Include completed drawing with P.O.		HF



H00□1



H0004



H0051



H0055



H0057



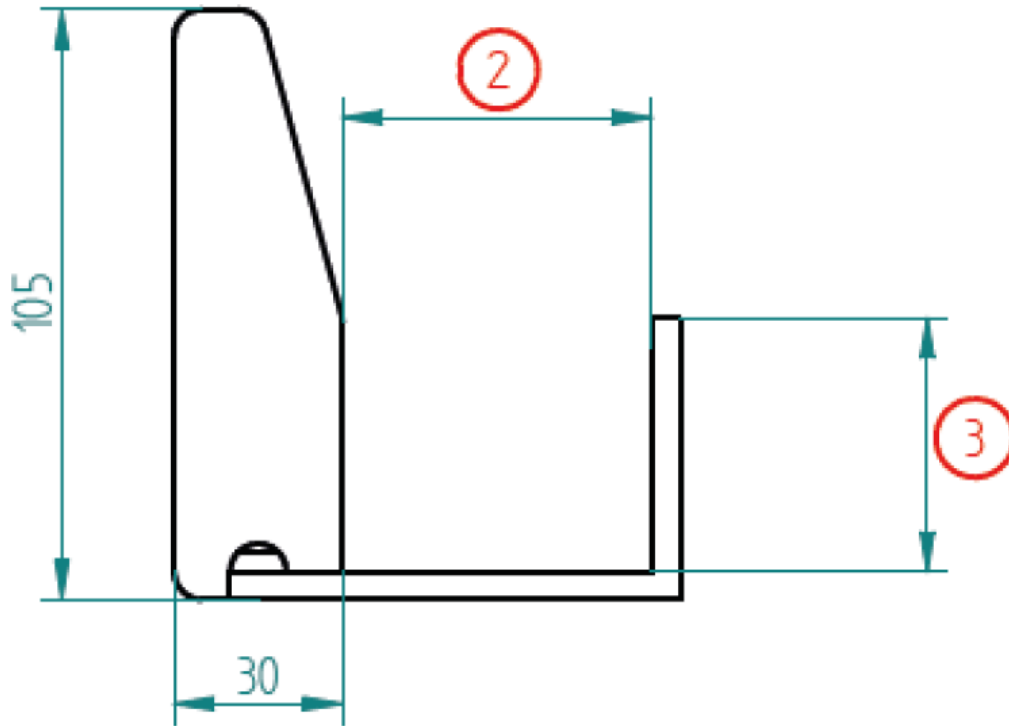
H006□

Hook Tips

1) When determining how high to make the front "tines", the formula is as follows:

$$(3) = 0.7 \times (2)$$

This will allow the front tines to fit under the frame when going to engage the hook.

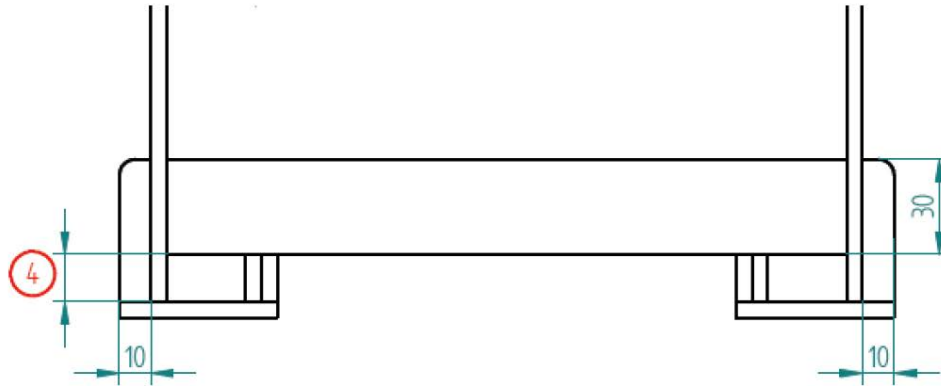


Hook Tips

2) When using the OPT0129 electric hook lock, you need to generally make the hook deeper so that the hook lock will fit. Here is the formula for that:

H = Total Height from top to bottom of frame to contain

(4) = $H - 35\text{mm}$

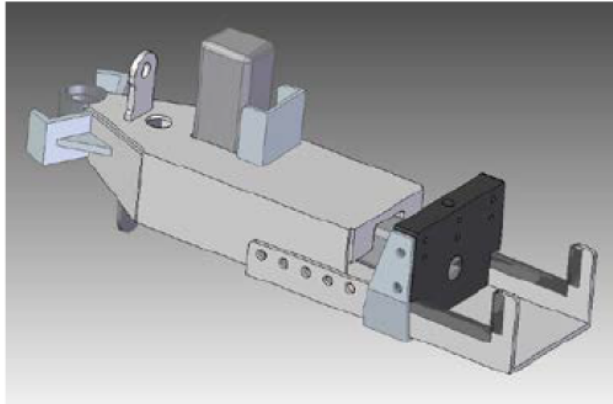


Electrical locking module for hook

Article number:
OPT0129

Hook Tips

3) The H0096 electric clamping hook is nice when you need to adjust to different size frames, but it is only intended for the T1000. We have seen issues when used with a T1500 and 1500kg loads since it only has 1 spring and support arm. There are no immediate plans to make a stronger one.

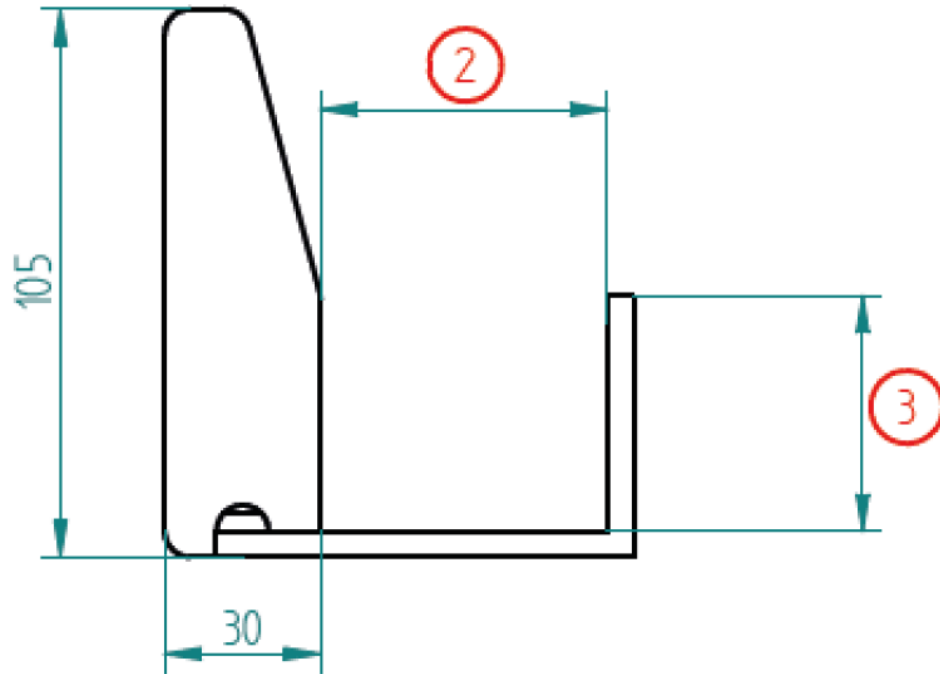


Clamping Hook Stainless steel

Article number:
H0096

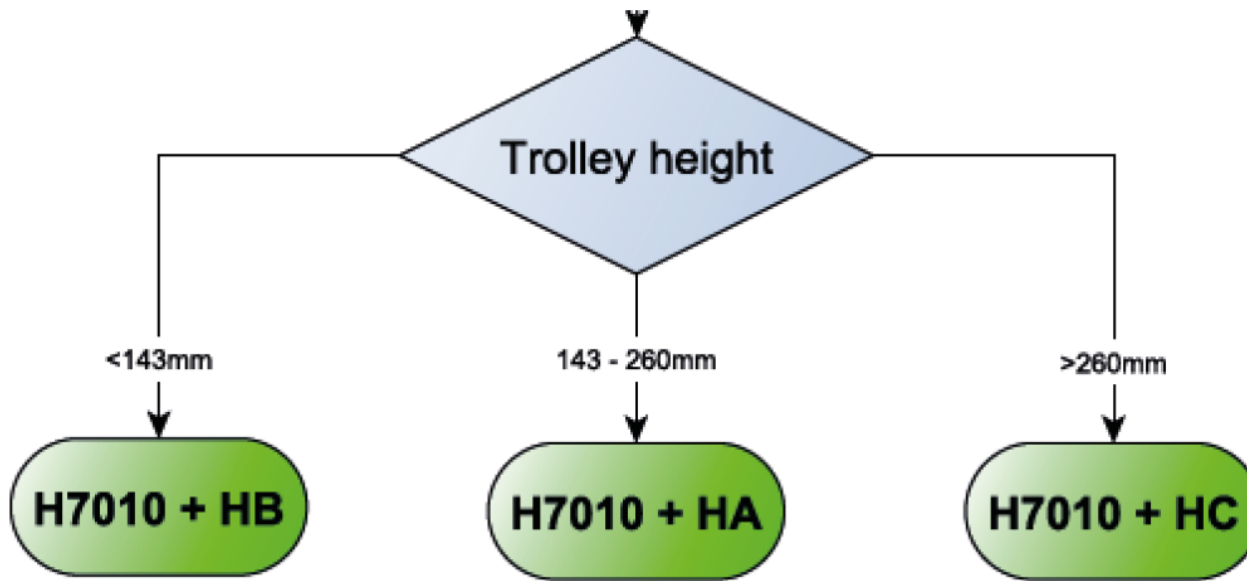
Hook Tips

4) When determining dimension 2, add 3mm to the measurement of the actual profile when 50mm or less. For profiles larger than 50mm, you can start with 3mm but may need to increase to 5mm or 10% of the total so that it fits properly.



Hook Tips

5) When working with standard hooks and you have to go to an HB or HC (lower or higher than normal), the goal is to place the base of the hook arm at the midpoint of the vertical adjustment slots (which are 200mm total length). This still provides 100mm of adjustment up or down if necessary. This may require positioning it in a 3D model to get it right.



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