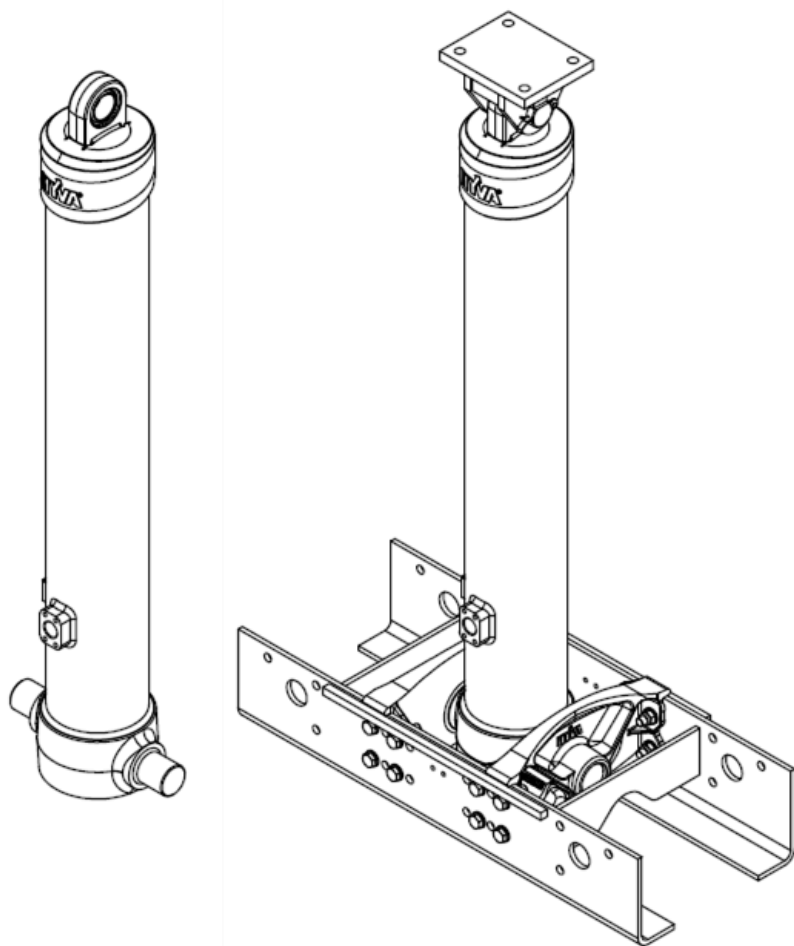


MOUNTING INSTRUCTIONS FRONT-END CYLINDER FE TYPE ALPHA



HYVA[®] **TIPPING
SOLUTIONS**

Mounting instructions Front-end cylinder FE type ALPHA

Long version of the mounting manual (CYL-0037) is available on request.

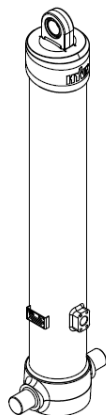
No.	Description	Qty.
1	HYVA cylinder FE	1
2	HYVA chassis bracket	2
3	HYVA top bracket	1

For chassis bracket	No.	Description	Qty.
	10	Bolt DIN960	16
	11	Flat washer DIN 6916	32
	12	Self-locking nut DIN985	16

For top bracket	No.	Description	Qty.
	4	Clevis pin	1
	5	Filler ring	2
	6	Split pin DIN 94 ZP	2
	7	Bolt DIN960	4
	8	Flat washer DIN 6916	8
	9	Self-locking nut DIN985	4

Hole in Top bracket		Bolt		Min. Quality	
(mm)	(in)	Metric	Imperial	Class	Grade
Ø14	Ø 0.51	M12x1.25	7/16"-20 UNF	8.8	5
Ø17	Ø 0.67	M16x1.5	5/8"-18 UNF	8.8	5
Ø19	Ø 0.75	M18x1.5	N/A	8.8	5

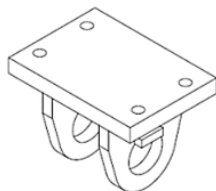
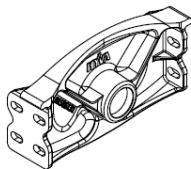
Hole in chassis bracket		Bolt		Available lengths	Min. Quality	
(mm)	(in)	Metric	Imperial	(mm)	Class	Grade
Ø13	Ø 0.51	M12x1.25	7/16"-20 UNF	50	8.8	5
Ø17	Ø 0.67	M16x1.5	5/8"-18 UNF	60/70	8.8	5
Ø21	Ø 0.83	M20x1.5	3/4"-16 UNF	80	8.8	5
Ø25	Ø 0.98	M24x2.0	N/A	80	8.8	5



1

2

3



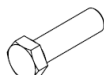
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5



6



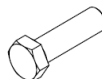
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8



9



10



11

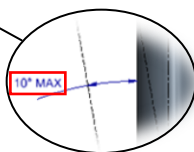
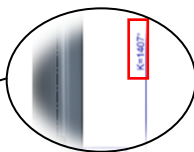
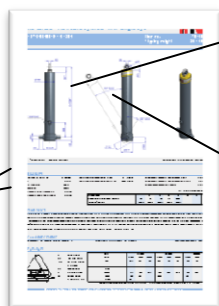


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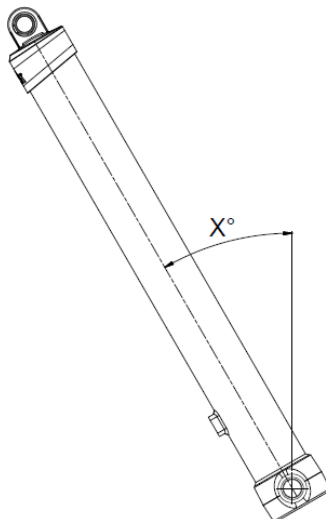
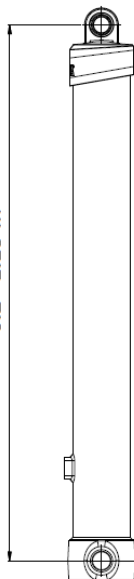
Mounting instructions Front-end cylinder FE type ALPHA



HYVA Pack set grease
SHELL ENSYS
MOLYKOTE G4500
DINITROL PASTE



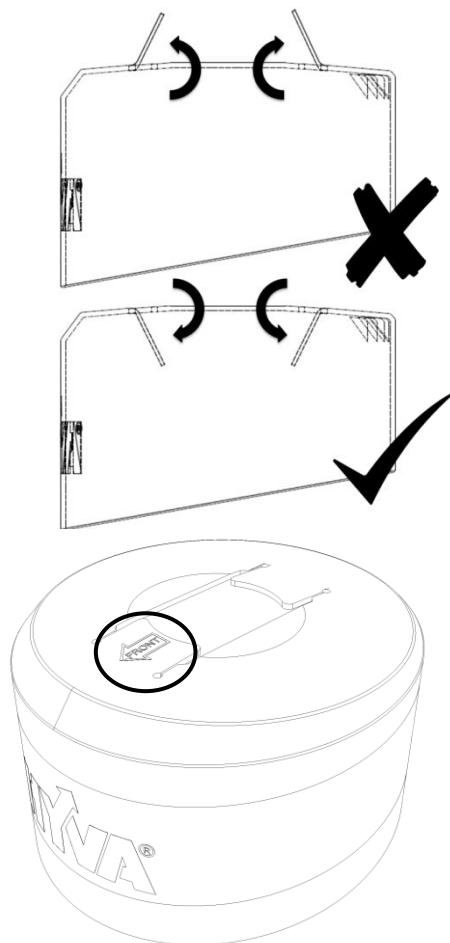
K* -5 +30 mm
-0.2 +1.18 in



Mounting instructions Front-end cylinder FE type ALPHA

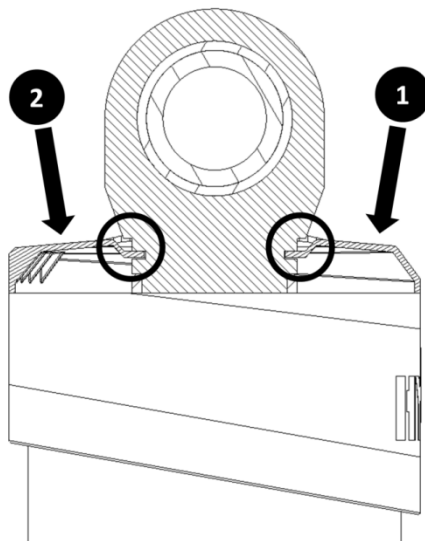
1.

Press flaps inside and mount dust cover over the piston eye with the arrow pointing to the front (cabin side). Pay attention to the grease nipple if present.



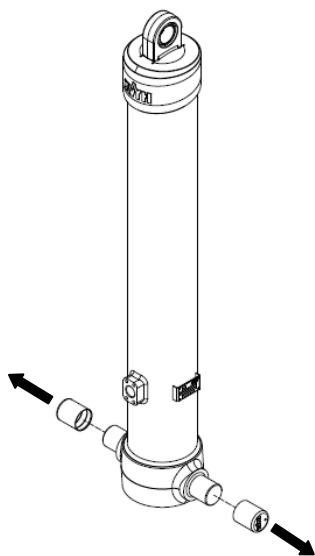
2.

(1) First guide in the front flap into the groove on the piston eye by pushing the front side of the dust cover first. (2) Then guide in the back flap by pushing on the back side of the dust cover.

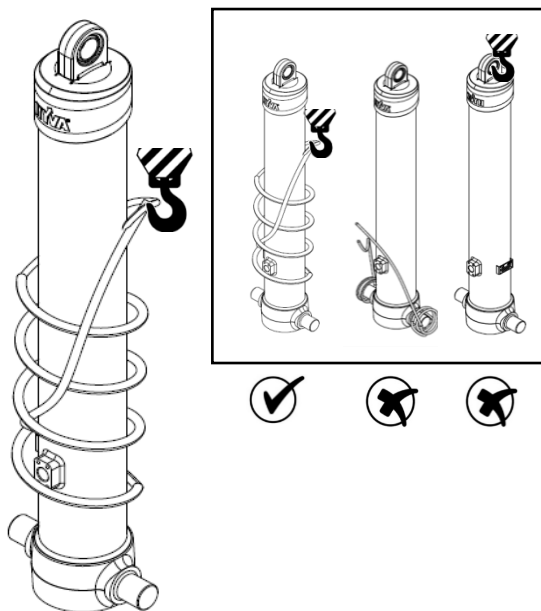


Mounting instructions Front-end cylinder FE type ALPHA

1

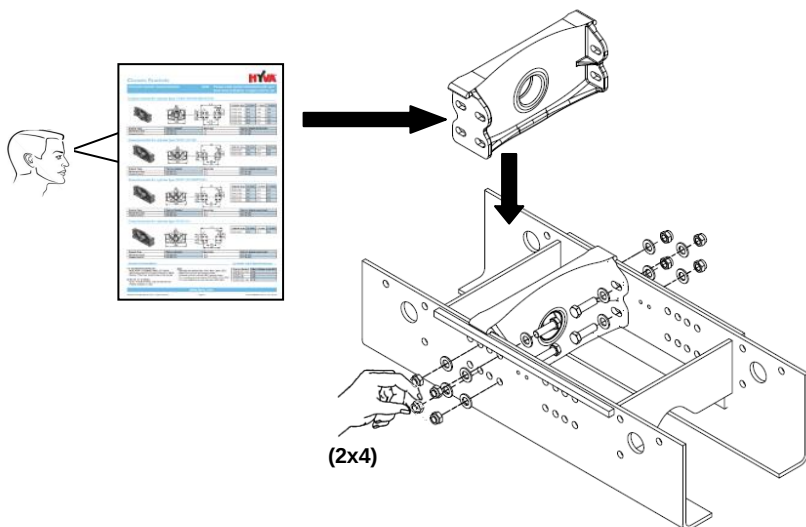


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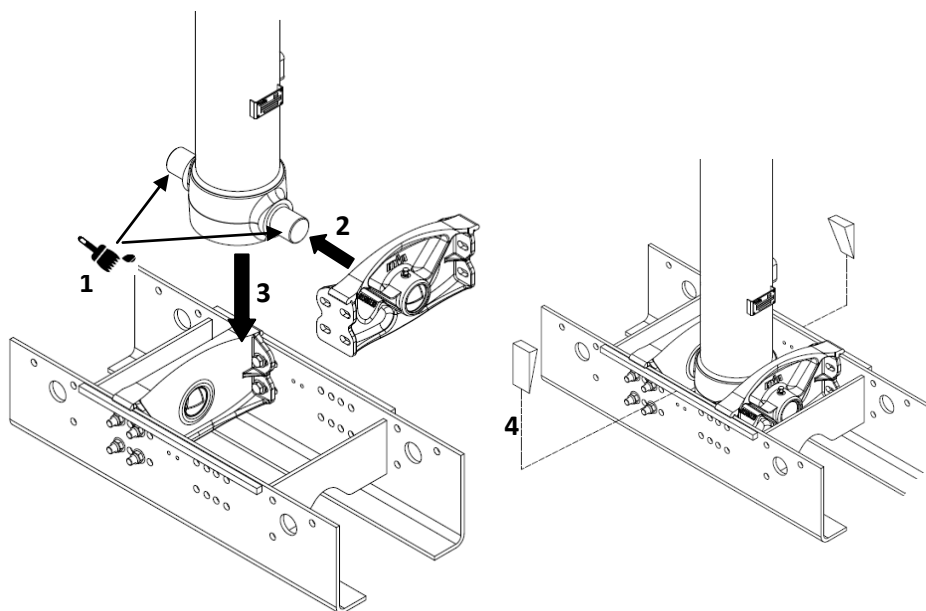


Mounting instructions Front-end cylinder FE type ALPHA

3

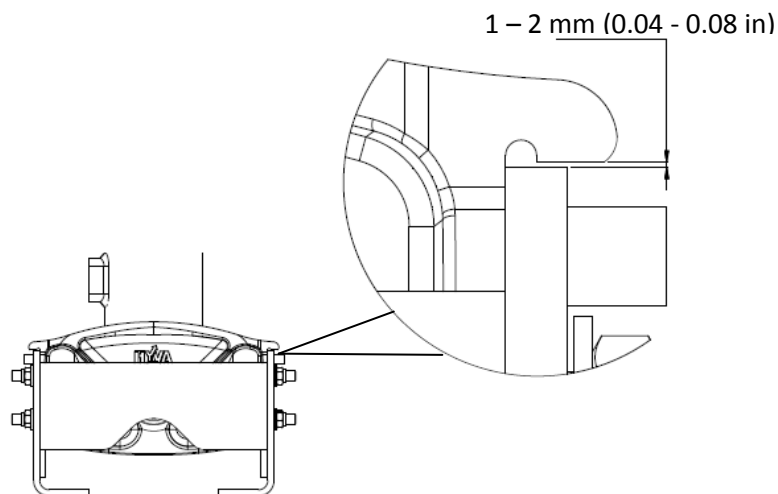
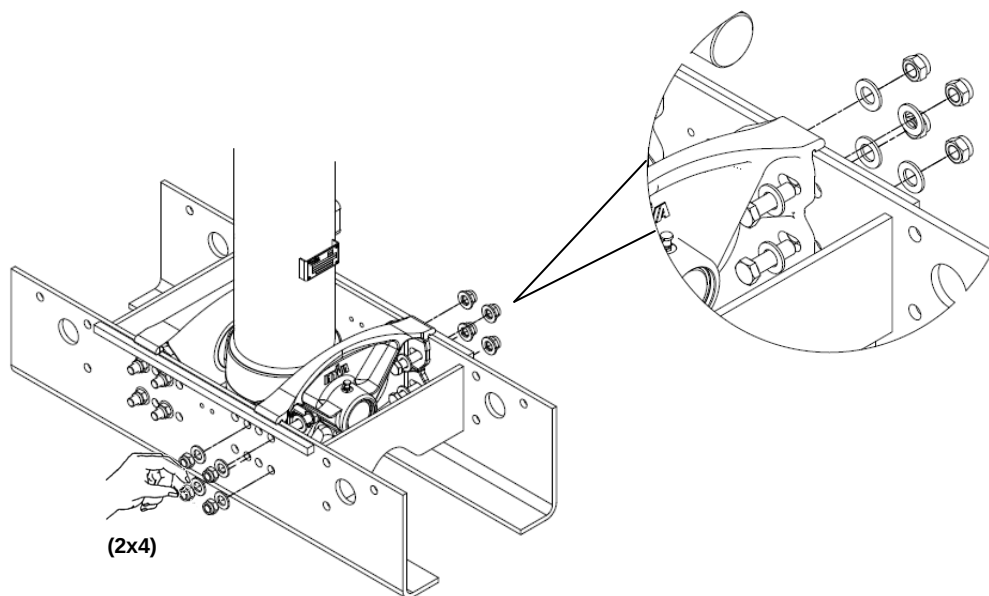


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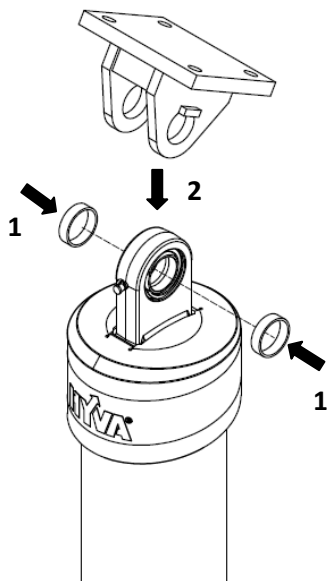
Mounting instructions Front-end cylinder FE type ALPHA

5

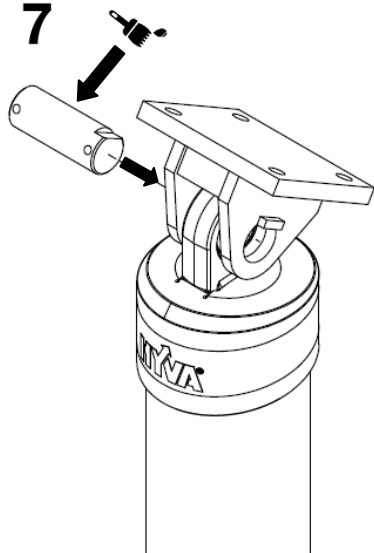


Mounting instructions Front-end cylinder FE type ALPHA

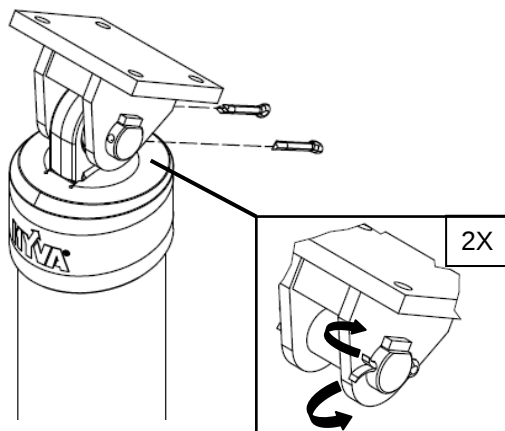
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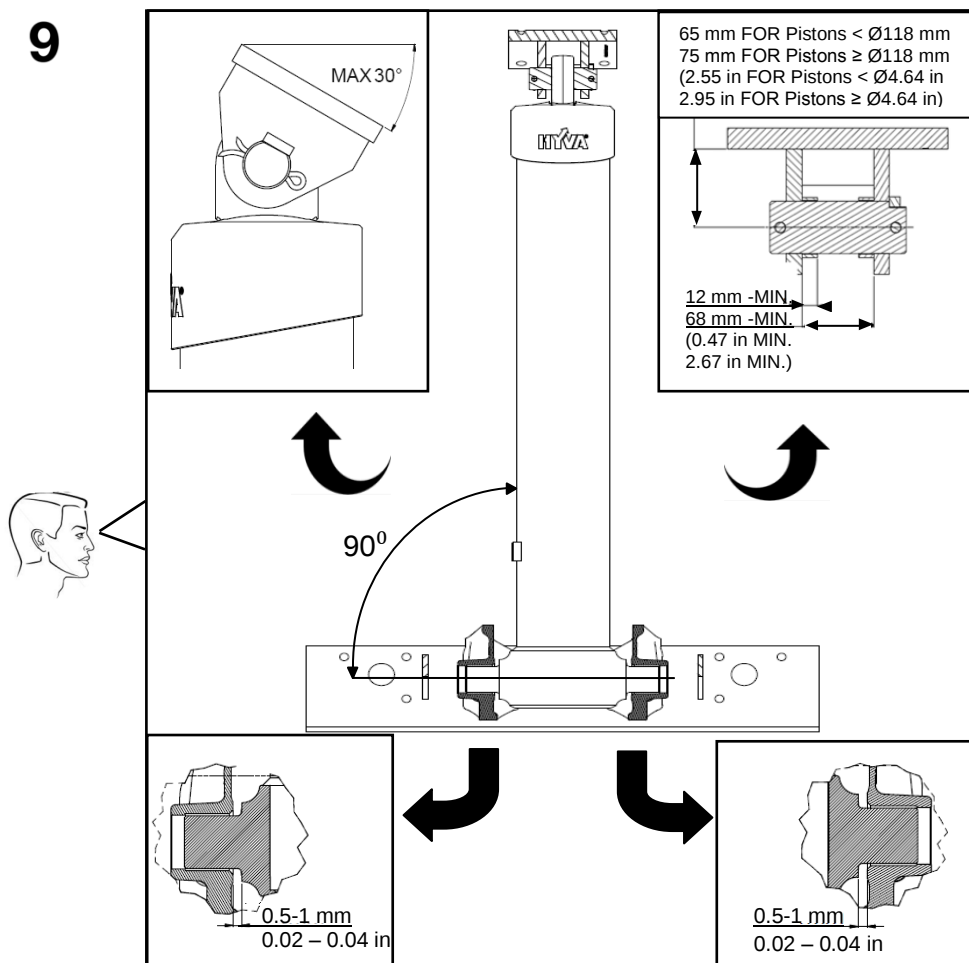


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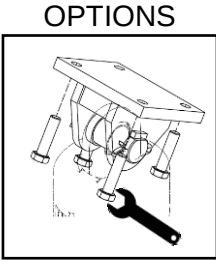
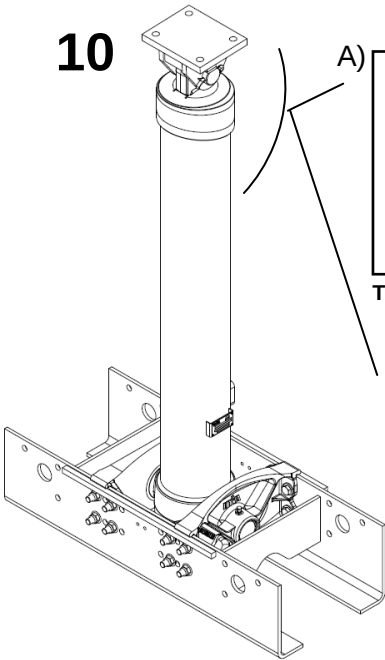


Mounting instructions Front-end cylinder FE type ALPHA

9

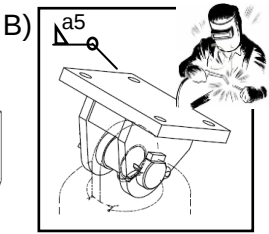


Mounting instructions Front-end cylinder FE type ALPHA

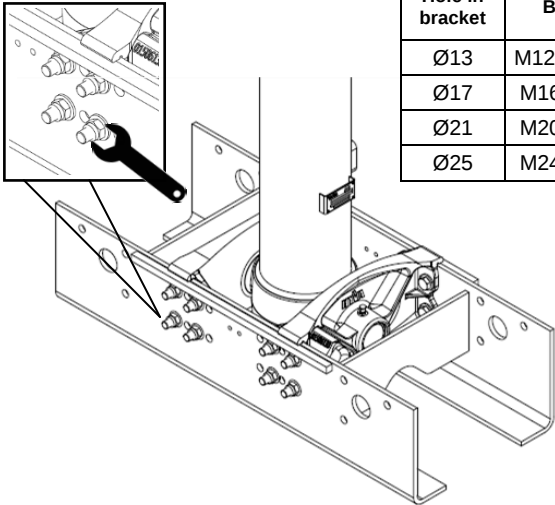


TORQUE; SEE TABLE

Hole in top bracket	Bolt	Required torque (Nm)	Required torque (lbf*ft)
Ø14	M12x1.25	80	65
Ø17	M16x1.5	210	155
Ø19	M18x1.5	270	155



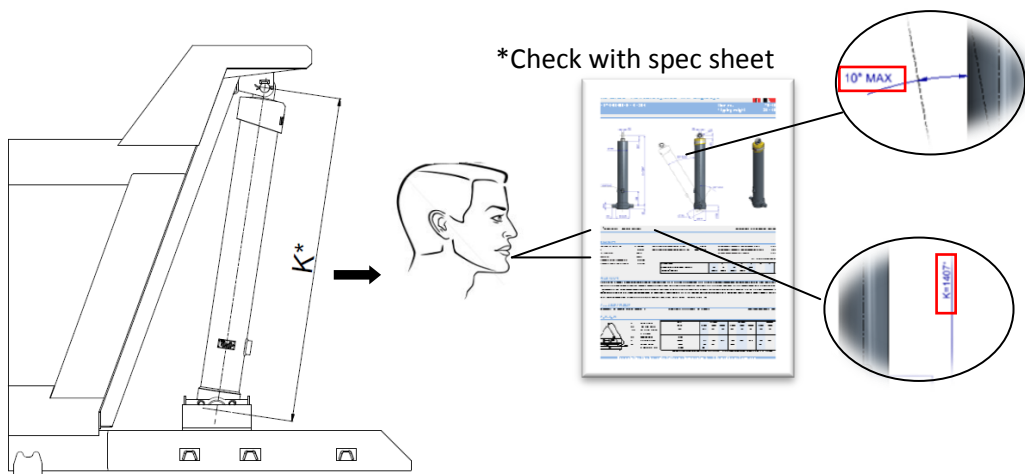
11 TORQUE; SEE TABLE



Hole in bracket	Bolt	Required torque (Nm)	Required torque (lbf*ft)
Ø13	M12x1.25	80	65
Ø17	M16x1.5	210	155
Ø21	M20x1.5	400	295
Ø25	M24x2.0	700	515

Mounting instructions Front-end cylinder FE type ALPHA

12



13 Check if there is no collision

