

**ORIGINAL<sup>®</sup>**  
**Plymoth**

# User Manual

***Super-Max Extraction-Crane 4m-8m.***

**Dia. 100mm/125mm/160mm/200mm.**



**Note! Before installation and use, please read instructions below.**

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## 1. User regulations

**The Super-Max Extraction-Cranes** are designed to extract fume and gases over large areas. It is designed with two horizontal booms with ball bearings and friction brakes.

In the end of the second boom is a Super-Max Extraction-Arm fixed mounted. Its outside parallelogram, which is hydraulically suspended, makes the hood extremely easy to move vertically.

The horizontal arms make it very easy to move the hood in its whole working area. The steel hood is black painted and can be turned 90 degrees in all directions. It has a built in damper.

The Super-Max Extraction-Cranes can be equipped with a separate fan on the wallbracket of the first boom or be connected to the duct of a central system. When connected to a duct a Turning Flange on the duct is recommended to prolonge the life of the hose (d.160mm/P-030. d.200mm/Pa-31).

Max allowed vacuum is 1500Pa.

Max temperature of the exhausted air is 70 Degrees Celsius.

## **2. Safety.**

The product is designed to meet the requirements of the relevant EC directives. To maintain this status all installations, repair and maintenance work must be carried out by qualified personnel using only original spare parts. Contact your nearest authorised dealer for advise.

### **WARNING ! Ignition risk for some dust or solvents!**

**Check that no Objects which can cause fire are sucked into the arm.  
Avoid impacts against hood.**

## **3. User Instruction.**

Super-Max Extraction-Cranes are designed for capturing dust, fumes and gases. The Hood can easily be positioned at any point within the working area.

For the best capturing efficiency, the hood should be positioned as near the fume or dust generating process as possible but without sucking in sparks.

Always dimension your systems so the airflow is sufficient for the application in question.

Recommended airflow for Super-Max Extraction-Cranes:

Dia.100mm/300-450m<sup>3</sup>/h.

Dia.125mm/450-750m<sup>3</sup>/h.

Dia.160mm/600-1000m<sup>3</sup>/h.

Dia. 200mm/1000-2000m<sup>3</sup>/h.

## B. Pressure Drop Super-Max Extraction-Cranes.

### Dia.125mm Super-Max Extraction-Cranes

Extraction-Crane	450m <sup>3</sup> /h	600 m <sup>3</sup> /h	750 m <sup>3</sup> /h	900 m <sup>3</sup> /h
4m (2+2m) Ø 125mm	205 Pa	450 Pa	665 Pa	900 Pa
5m (2+3m) Ø 125mm	225 Pa	495 Pa	735 Pa	990 Pa
6m (3+3m) Ø 125mm	245 Pa	540 Pa	805 Pa	1.080 Pa
7m (4+3m) Ø 125mm	265 Pa	585 Pa	875 Pa	1.170 Pa
8m (5+3m) Ø 125mm	285 Pa	630 Pa	945 Pa	1.260 Pa

### Dia. 160mm Super-Max Extraction-Cranes.

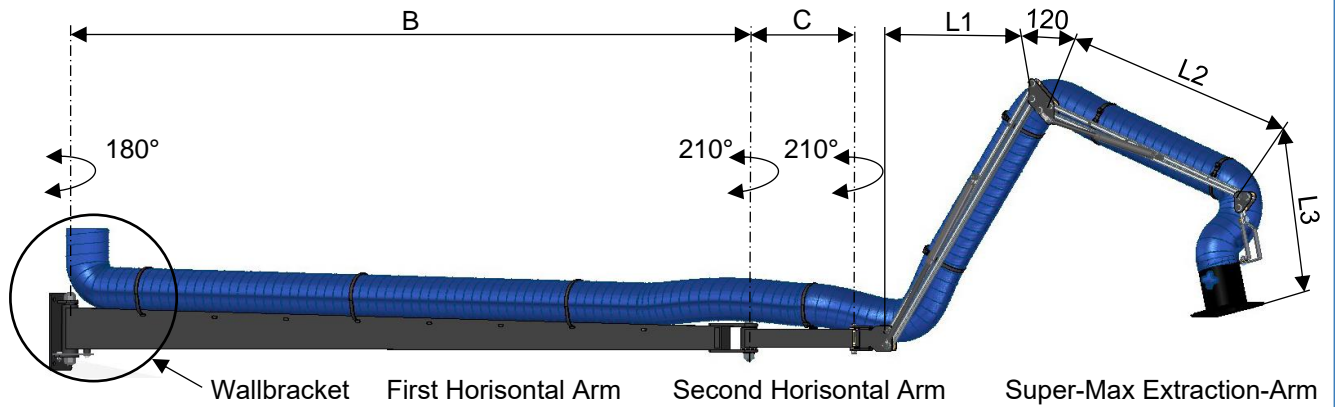
Extraction-Crane	700m <sup>3</sup> /h	1.000 m <sup>3</sup> /h	1.200 m <sup>3</sup> /h	1.300 m <sup>3</sup> /h
4m (2+2m) Ø 160mm	380 Pa	665 Pa	950 Pa	1.140 Pa
5m (2+3m) Ø 160mm	400 Pa	700 Pa	1.000 Pa	1.200 Pa
6m (3+3m) Ø 160mm	420 Pa	735 Pa	1.050 Pa	1.260 Pa
7m (4+3m) Ø 160mm	440 Pa	770 Pa	1.100 Pa	1.320 Pa
8m (5+3m) Ø 160mm	460 Pa	805 Pa	1.150 Pa	1.380 Pa

### Dia. 200mm Super-Max Extraction-Cranes.

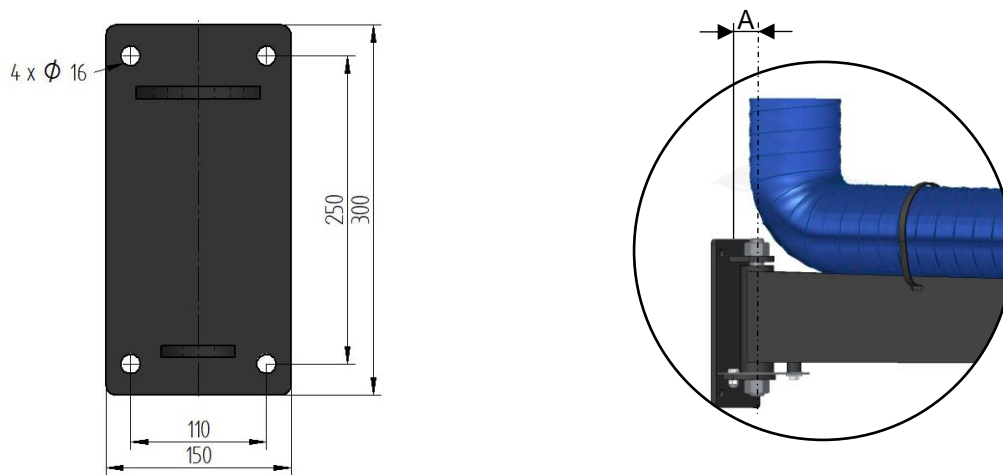
Extraction-Crane	1.200m <sup>3</sup> /h	1.600 m <sup>3</sup> /h	2.000 m <sup>3</sup> /h	2.400 m <sup>3</sup> /h
4m (2+2m) Ø 200mm	180 Pa	325 Pa	455 Pa	750 Pa
5m (2+3m) Ø 200mm	195 Pa	347 Pa	483 Pa	800 Pa
6m (3+3m) Ø 200mm	210 Pa	369 Pa	511 Pa	850 Pa
7m (4+3m) Ø 200mm	225 Pa	391 Pa	539 Pa	900 Pa
8m (5+3m) Ø 200mm	240 Pa	413 Pa	567 Pa	950 Pa

## 4. Installation instructions.

### Super-Max Extractor-Crane 4m – 8m

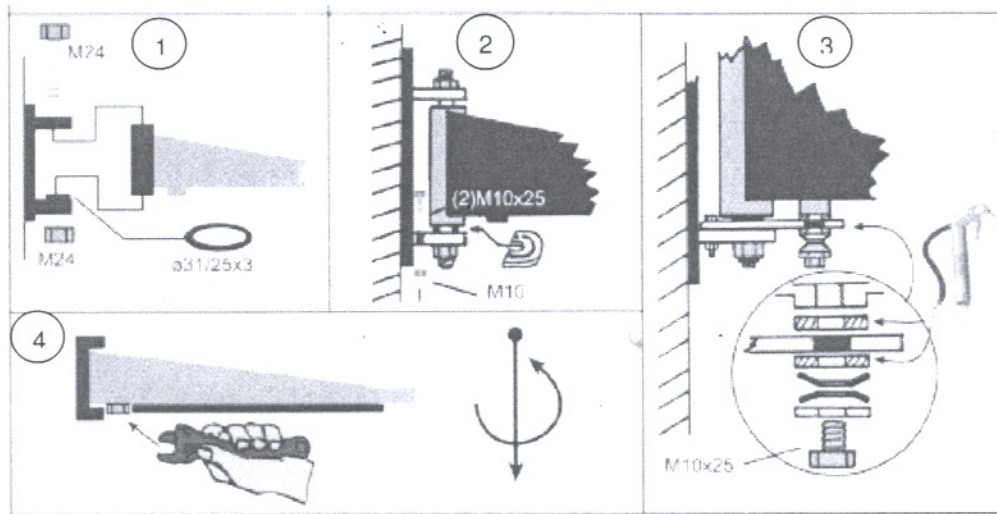


### A. Wallbracket

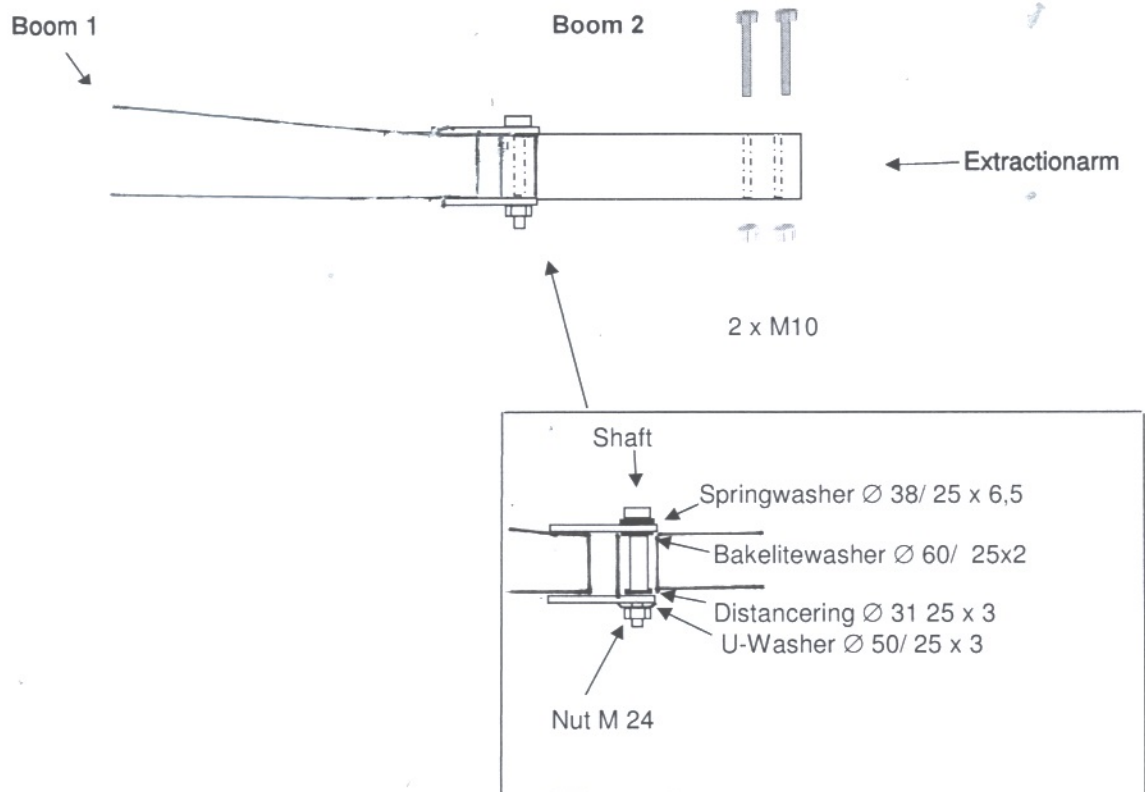


	<b>A</b>	<b>B</b>	<b>C</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>Weight</b>	<b>Length</b>
<b>4 m</b>	50 mm	1330 mm	520 mm	665 mm	565 mm	480 mm	36 kg	3900 mm
<b>5 m</b>	50 mm	1330 mm	520 mm	1165 mm	960 mm	480 mm	42 kg	4750 mm
<b>6 m</b>	50 mm	2430 mm	520 mm	1165 mm	960 mm	480 mm	57 kg	5850 mm
<b>7 m</b>	50 mm	2430 mm	1570 mm	1165 mm	960 mm	480 mm	63 kg	6900 mm
<b>8 m</b>	50 mm	3130 mm	1570 mm	1165 mm	960 mm	480 mm	68 kg	7600 mm

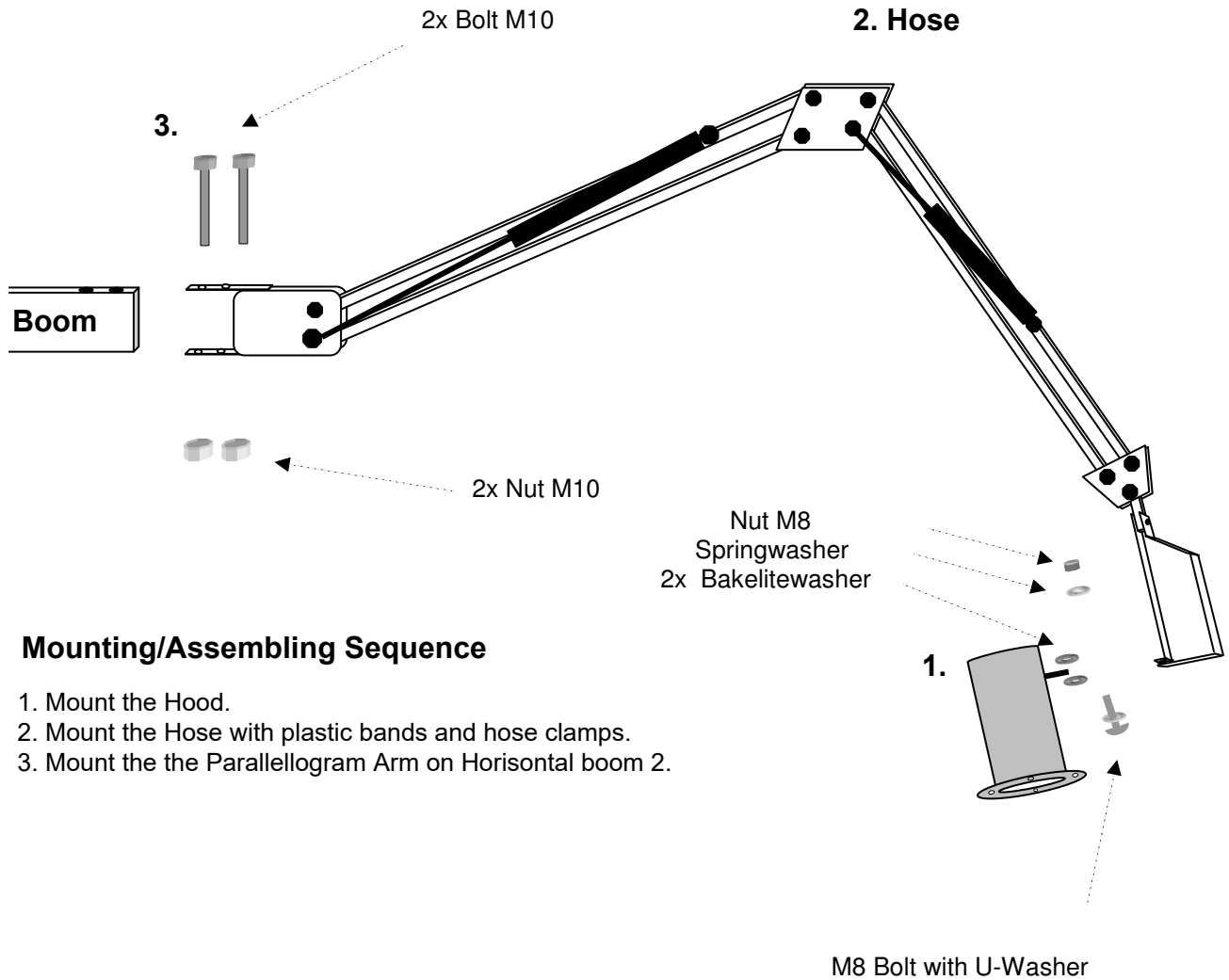
## B. Mounting Horizontal Boom 1



## C. Mounting Horizontal Boom 2.



## D. Assembling/Mounting of Parallelogram Arm.



### Mounting/Assembling Sequence

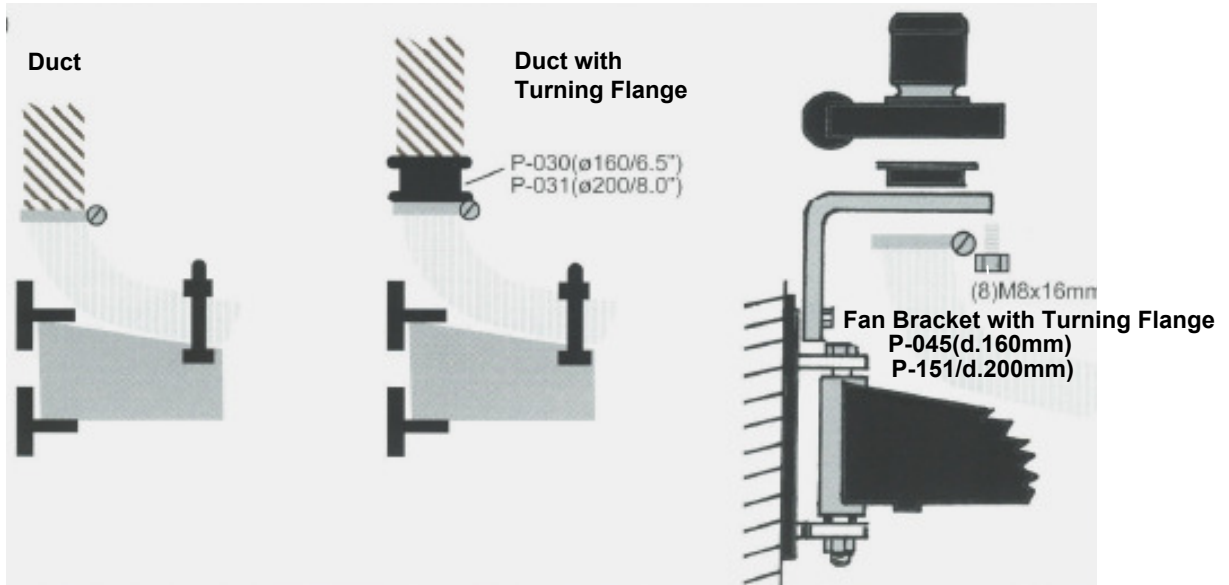
1. Mount the Hood.
2. Mount the Hose with plastic bands and hose clamps.
3. Mount the the Parallelogram Arm on Horizontal boom 2.

### **Notice!**

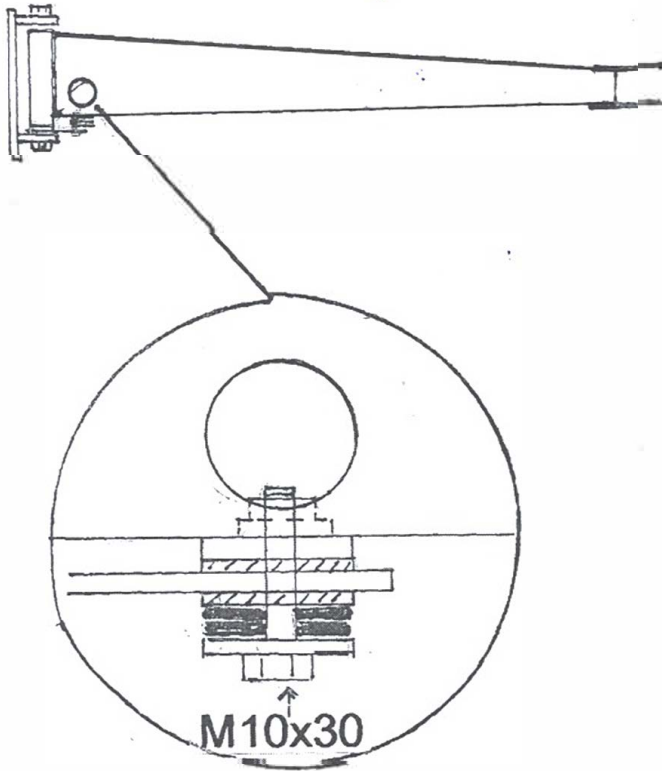
*The frame is factory balanced. No adjustments should be done.*



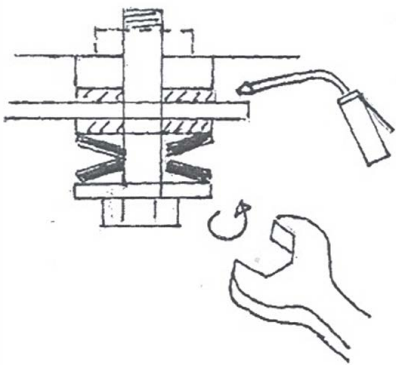
### E. Connection to Central Extraction System or with separate Fan.



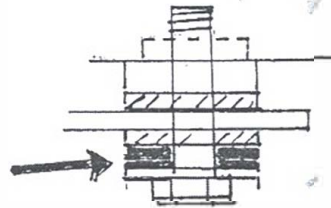
**F. Adjust the Discbrake of the Horizontal Boom 1 after the mounting of the Extraction-Crane is ready.**



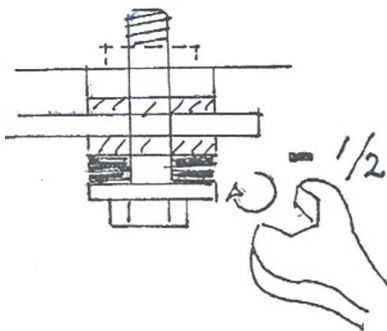
1.



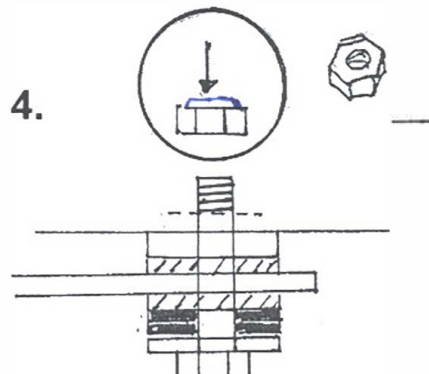
2. Tighten flat.



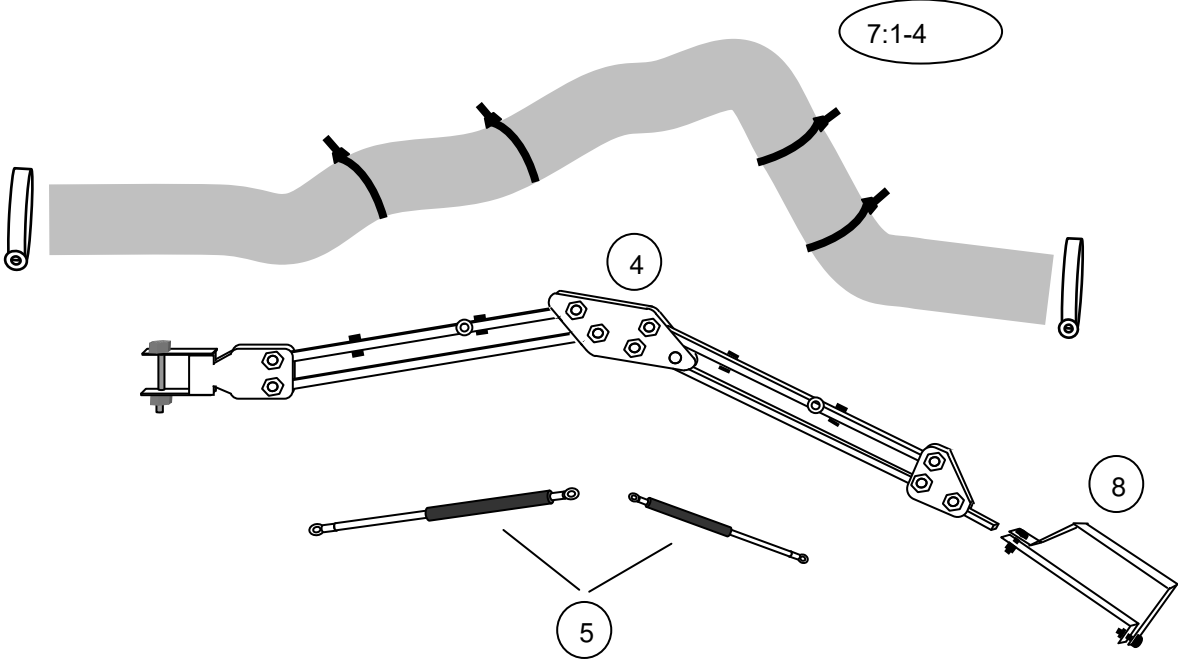
3. Release 1/2 turn.



4. Fix with nut inside Arm.



# 5. Spare Parts Super-Max Extraction-Crane



## Hoods

D.100mm

D.125mm

D.160mm

D.200mm

6:1

6:2

6:3

6:4

No	Specification	2 m	3 m		
4	Parallelogram Electrogalvanized	R-132	R-133		
5	Set of 2 Hydraulic springs	R-117	R-118		
6:1	Hood ø100mm black	R-104	R-104		
6:2	Hood ø125mm black	R-105	R-105		
6:3	Hood ø160mm black	R-106	R-106		
6:4	Hood ø 200mm black	R-107	R-107		
7:1	Hose-Set d.100mm blue	R-091	R-092		
7:2	Hose-Set d.125mm blue	R-099	R-100		
7:3	Hose-Set d.160 mm blue	R-076	R-077		
7:4	Hose-Set d. 200mm blue	R-083	R-084		
8	Handle - black	R-139	R-139		

## **6. Maintenance**

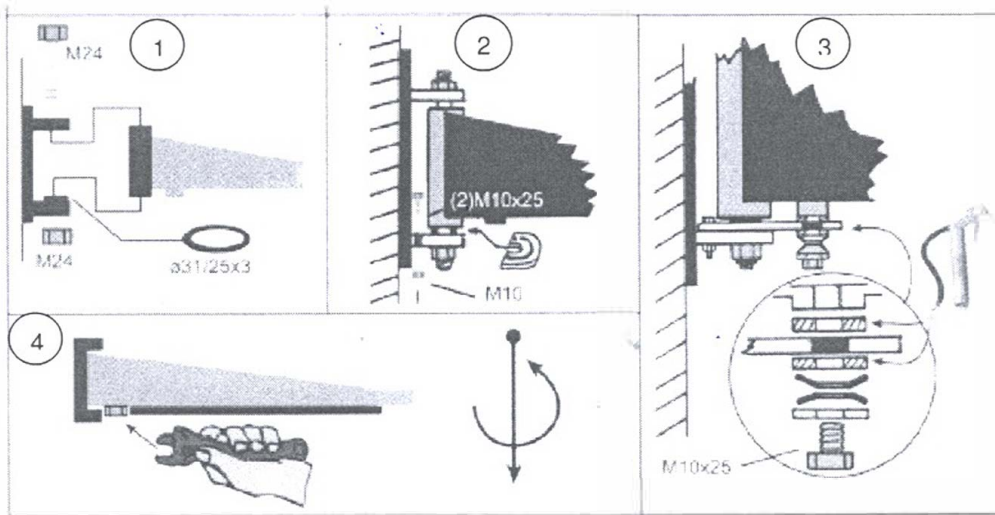
We recommend regular safety controls at least once a year on the following points: Control the bolts of the wallbracket.

Control the hose, no damages etc.

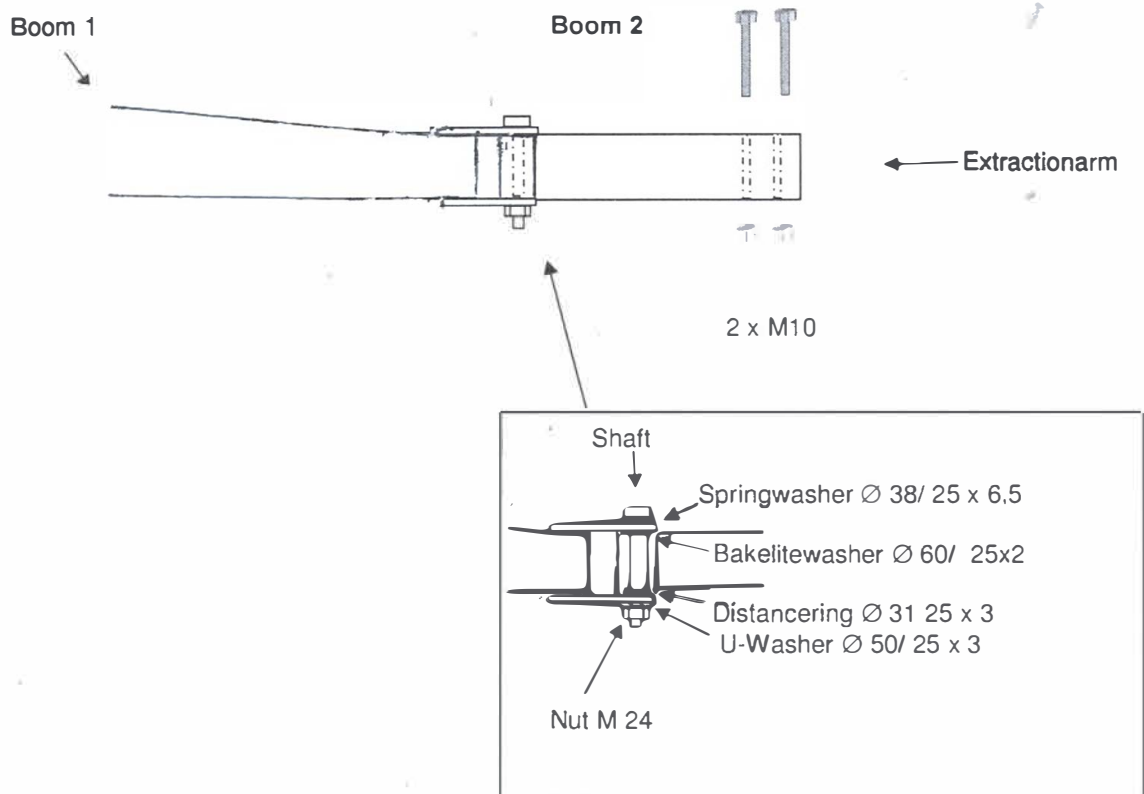
Control bakelite washers and Bolts. See below.

Control the airvolume.

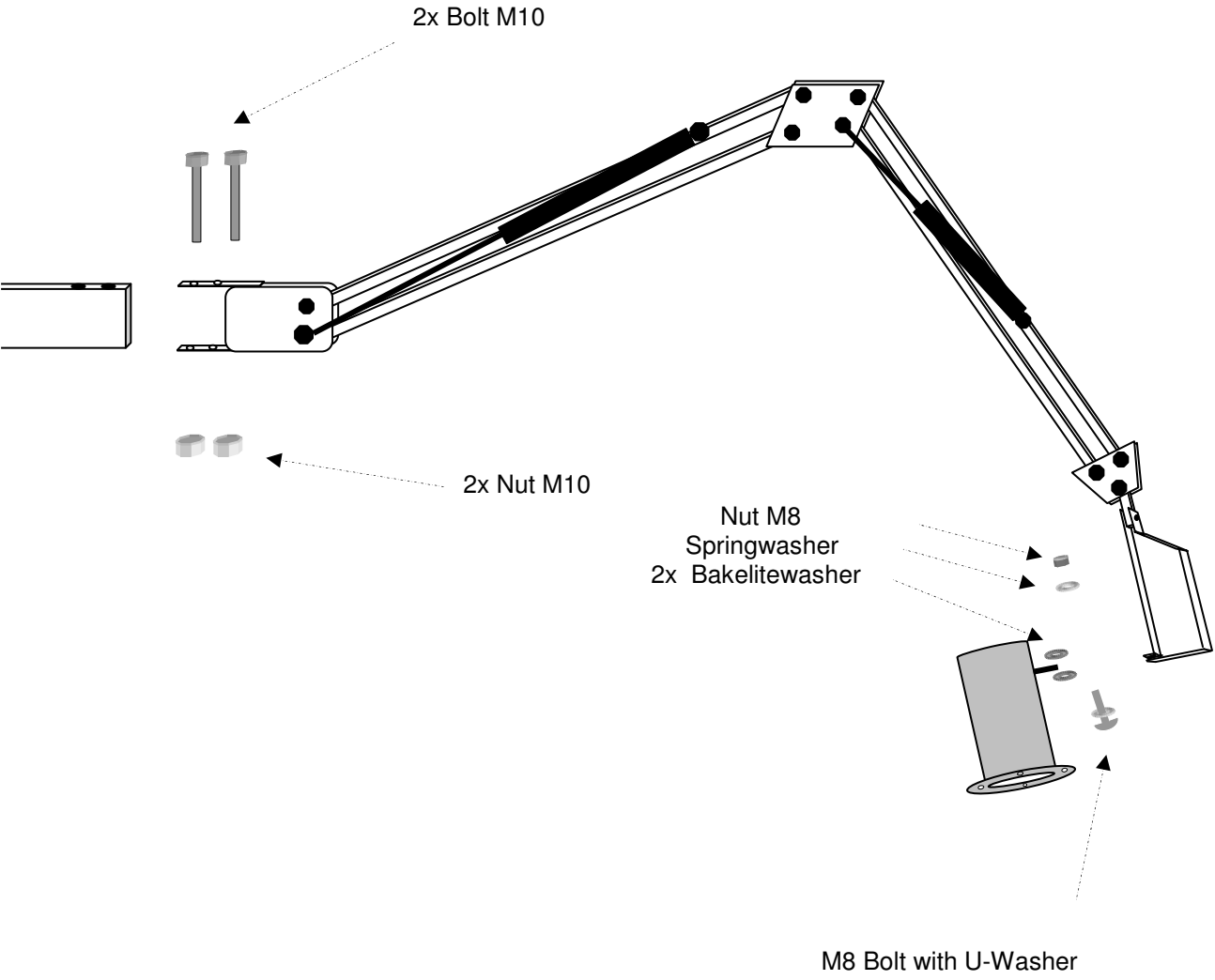
## Check Wallbracket and Horizontal Boom 1



## Check Horizontal Boom 2.



**Check Parallelogram Extraction Arm**



**Notice!**  
*The frame is factory balanced. No adjustments should be done.*

## 7. Declaration of conformity

We, J. Plymoth AB, declare under our sole responsibility that the product lines **Flexa, Chemikus, Flexi, Super-Max and Super-Vac** to which this declaration relates is in conformity with Directives 2006/42/EC and Standards EN ISO 12100:2010 and EN ISO20607;2019.

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