

**EN** Extension crane  
**NL** Verlengkraan  
**DE** Verlängerungskran  
**FR** Potence d'extension  
**ES** Brazo de extensión  
**IT** Supporto prolunga

**DK** Forlængerarm  
**SE** Förlängningsbom  
**FI** Puomi

## FLEXMAX



**EN** User manual  
**NL** Gebruikershandleiding  
**DE** Betriebsanleitung  
**FR** Manuel opérateur  
**ES** Instrucciones para el uso  
**IT** Manuale d'uso  
**DK** Produktmanual  
**SE** Bruksanvisning  
**FI** Käyttöohje

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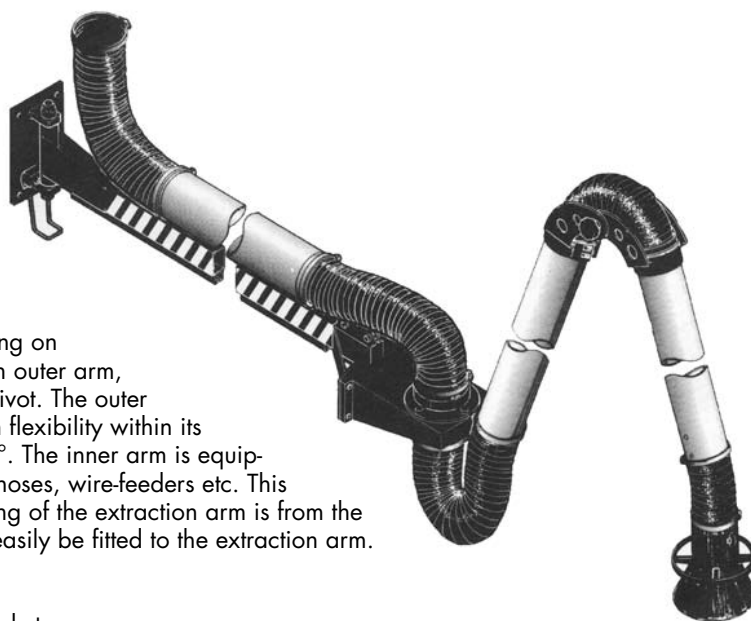
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## TECHNICAL DESCRIPTION

### Flex-Max

# Flex-Max

The PlymoVent Flex-Max is the perfect extraction arm in situations requiring maximum flexibility. With the Flex-Max arm you can cover the whole working area. Models range from 4 m up to 8.8 m working radius. The hood can reach from the floor up to 4 m above the mounting height. Flex-Max is a real problem solver when it comes to reaching into the tightest corners of the workshop, positioning very low, reaching long distances or working on very high objects. Flex-Max consists of an inner and an outer arm, both of which are mounted on a double ball-bearing pivot. The outer arm, which has three adjustable joints, gives maximum flexibility within its working radius and may be rotated through a full 360°. The inner arm is equipped with a suspension rail for cables, compressed air hoses, wire-feeders etc. This can be loaded with up to 50 kg of weight. Manoeuvring of the extraction arm is from the hood. Hose extensions FSL-1, SLE-20 and SLE-30 can easily be fitted to the extraction arm.



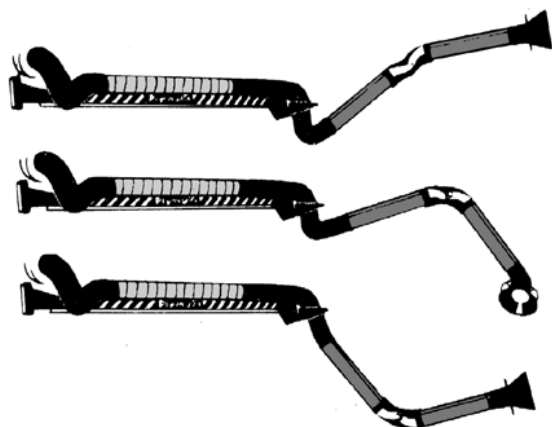
### Delivery

Flex-Max is delivered complete with wall mounting bracket, arm, hose and hood fitted with manual damper.

### Advantages

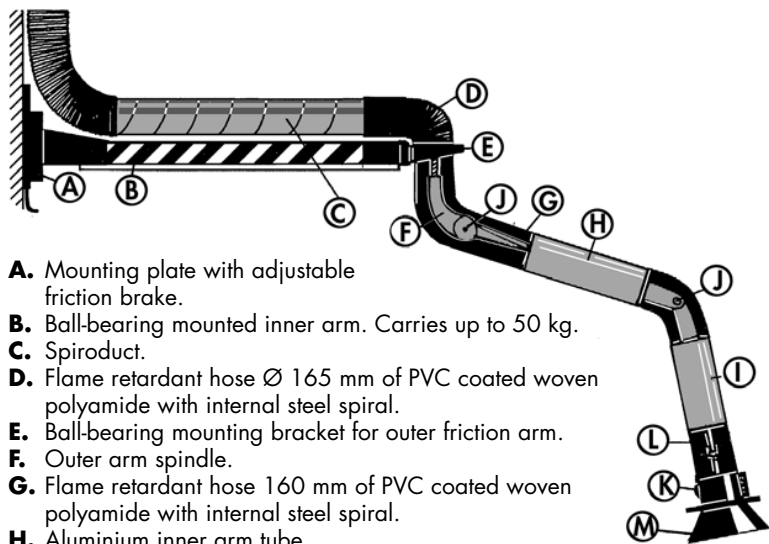
- Ingenious patented construction with two ball-bearing hinges and a further three easily adjustable joints. mounted
- Maximum flexibility within a working radius of 0 to 9 metres (dependent on the choice of arm).
- Quick and easy to position.
- Can carry up to 50 kg suspended from the inner arm.
- You can choose where you want to mount it, high up on the wall or low down.
- Elegant design and high quality

## Technical data



| Prod. no: | Max working radius m | Total weight in Kg | Recommended mounting height in m | Recommended airflow at hood in m <sup>3</sup> /hr | Hose Ø in mm |
|-----------|----------------------|--------------------|----------------------------------|---|--------------|
| FM-1520   | 4,0                  | 46                 | 2,0-3,0                          | 800-1200  | 160          |
| FM-1530   | 4,9                  | 48                 | 2,0-4,0                          | 800-1200  | 160          |
| FM-1540   | 5,8                  | 50                 | 2,5-5,0                          | 800-1200  | 160          |
| FM-2520   | 5,0                  | 58                 | 2,0-3,0                          | 800-1200  | 160          |
| FM-2530   | 5,9                  | 60                 | 2,0-4,0                          | 800-1200  | 160          |
| FM-2540   | 6,8                  | 62                 | 2,5-5,0                          | 800-1200  | 160          |
| FM-3520   | 6,0                  | 79                 | 2,0-3,0                          | 800-1200  | 160          |
| FM-3530   | 6,9                  | 81                 | 2,0-4,0                          | 800-1200  | 160          |
| FM-3540   | 7,8                  | 83                 | 2,5-5,0                          | 800-1200  | 160          |
| FM-4520   | 7,0                  | 91                 | 2,0-3,0                          | 800-1200  | 160          |
| FM-4530   | 7,9                  | 93                 | 2,0-4,0                          | 800-1200  | 160          |
| FM-4540   | 8,8                  | 95                 | 2,5-5,0                          | 800-1200  | 160          |

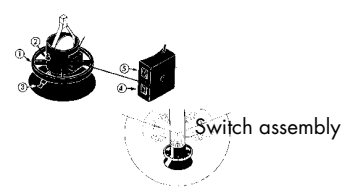
# Components and Operation



- A.** Mounting plate with adjustable friction brake.
- B.** Ball-bearing mounted inner arm. Carries up to 50 kg.
- C.** Spiroduct.
- D.** Flame retardant hose Ø 165 mm of PVC coated woven polyamide with internal steel spiral.
- E.** Ball-bearing mounting bracket for outer friction arm.
- F.** Outer arm spindle.
- G.** Flame retardant hose 160 mm of PVC coated woven polyamide with internal steel spiral.
- H.** Aluminium inner arm tube.
- I.** Aluminium outer arm tube.
- J.** Outer arm pivot with friction pad for tensioning adjustment.
- K.** Universal joint with hood collar and manual shut-off damper.
- L.** Flame retardant hose Ø160 mm flexible hose of PVC coated woven polyamide with internal steel spiral.
- M.** Optimally designed hood with safety mesh covering the 300 mm diameter opening. Can be fitted with 20 W halogen lamp cartridge.

## Handling

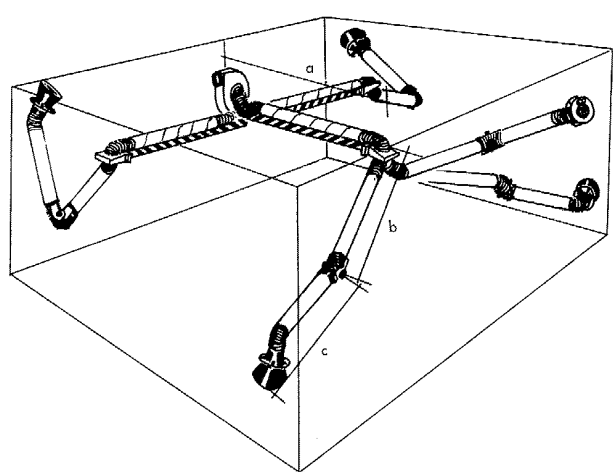
1. 360° ring handle for positioning of the hood.  
Can be reached from all sides.
2. Damper control knob.
3. Quick-fit catch for simple exchange of extension hose and hood.
4. Switch for light cartridge  
(see accessories HL-20/24).
5. Switch for manual start/stop of fan or damper  
(see accessories SA-24, ES-90 or ASE-12).



## Hood operation

The black, enamelled anodised metal hood can be angled 110° forwards, back-wards and to the sides. Large, 360°, ring handle, Ø300 mm.

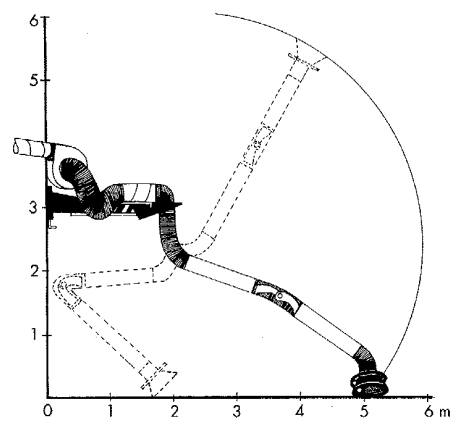
## Working areas



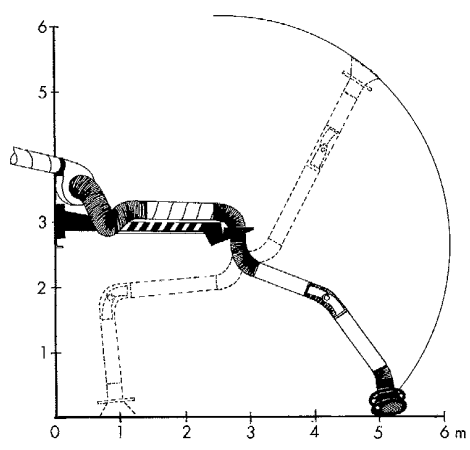
| Prod. nr: | a mm | b mm | c mm |
|-----------|------|------|------|
| FM-1520   | 1850 | 1120 | 1070 |
| FM-1530   | 1850 | 1650 | 1520 |
| FM-1540   | 1850 | 2300 | 1870 |
| FM-2520   | 2850 | 1120 | 1070 |
| FM-2530   | 2850 | 1650 | 1520 |
| FM-2540   | 2850 | 2300 | 1870 |
| FM-3520   | 3850 | 1120 | 1070 |
| FM-3530   | 3850 | 1650 | 1520 |
| FM-3540   | 3850 | 2300 | 1870 |
| FM-4520   | 4850 | 1120 | 1070 |
| FM-4530   | 4850 | 1650 | 1520 |
| FM-4540   | 4850 | 2300 | 1870 |

### Flex-Max 1540

Recommended mounting height 2.5 - 3.0 m.

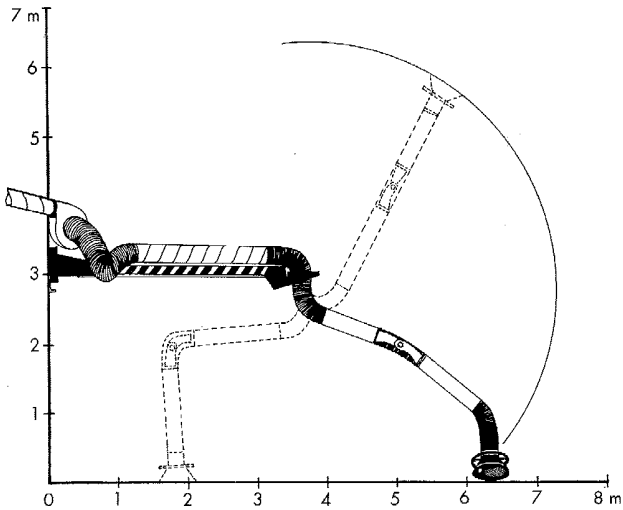


### Flex-Max 2540

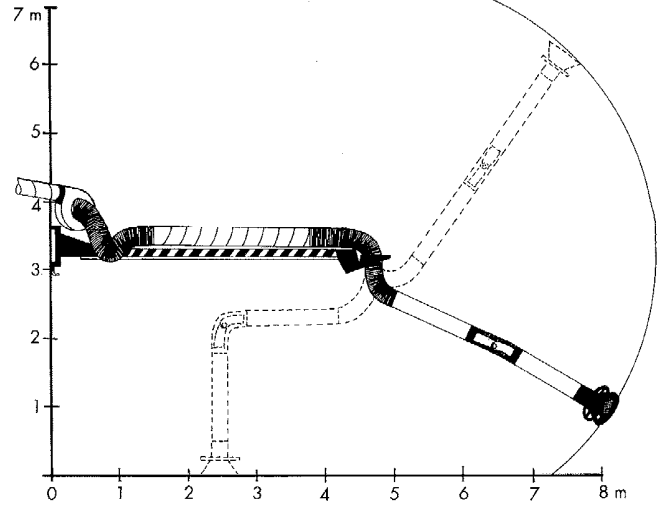




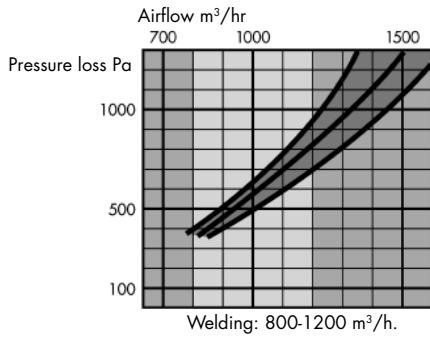
## Flex-Max 3540.



## Flex-Max 4540



## Pressure loss

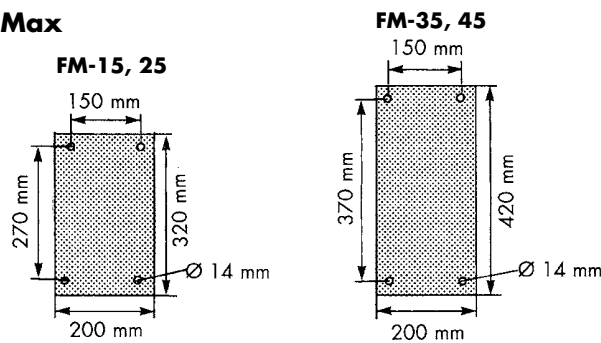


The pressure loss in PlymoVents Flex-Max is affected by:

1. Air volume.
2. With or without lamp cartridge in the hood.
3. Position of the arm.
4. Length of the arm.

## Mounting Examples

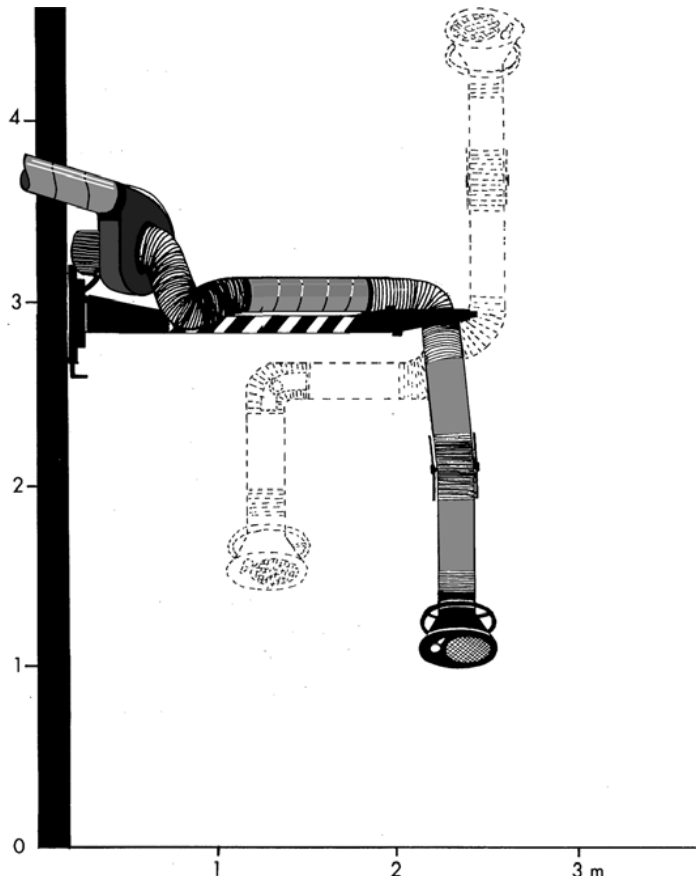
### Mounting plates for Flex-Max



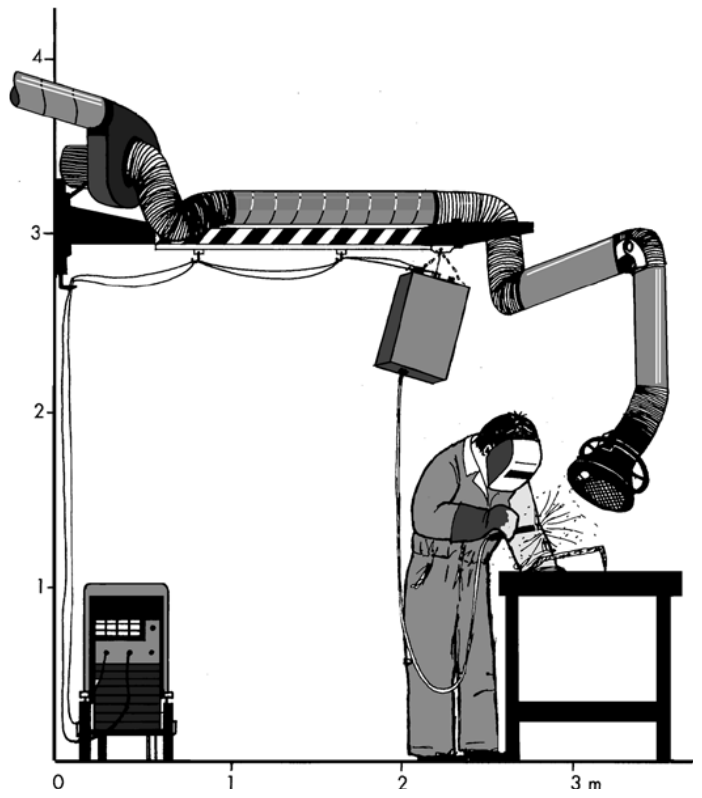
### Recommended bolt

| Prod. no:                 | Max.bearing pressure/bolt               | Safety demands |
|---------------------------|---|----------------|
| FM-1520, FM-1530          | 300 kp/bolt                             | 900 kp/bolt    |
| FM-2520, FM-2530          | 500 kp/bolt                             | 1500 kp/bolt   |
| FM-1540, FM-2540, FM-3520 | 650 kp/bolt                             | 1950 kp/bolt   |
| FM-3530, FM-3540, FM-4520 | 900 kp/bolt                             | 2700 kp/bolt   |
| FM-4530, FM-4540          | 900 kp/bolt<br>(1 kp <sup>3</sup> 10 N) | 2700 kp/bolt   |

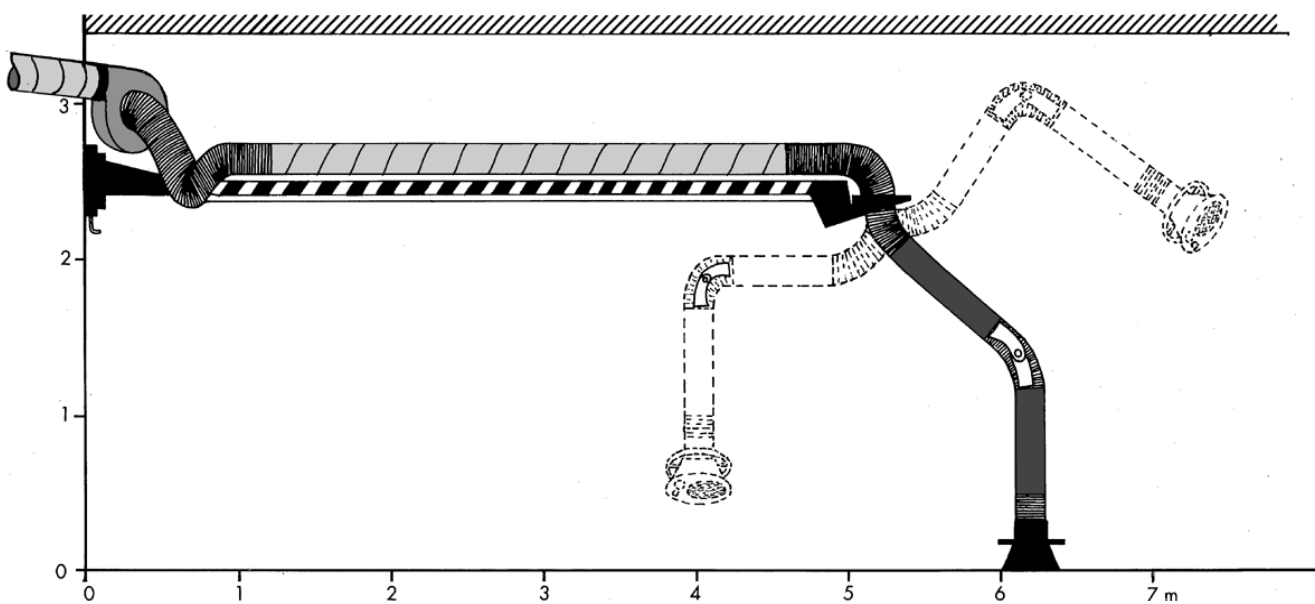
**FM-1530 column mounted**



**FM-2540 wall mounted. Wire feeder unit suspended from inner arm.**



**FM-4530 mounted in premises with low ceiling with a separate fan, model FUK.**



## MOUNTING INSTRUCTION

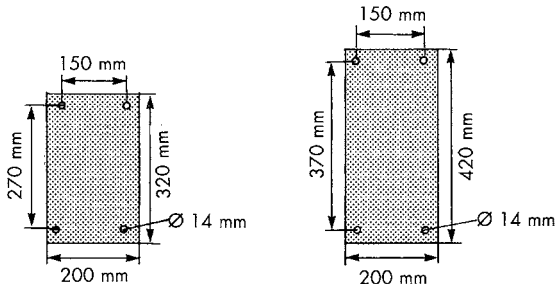
### FLEX-MAX

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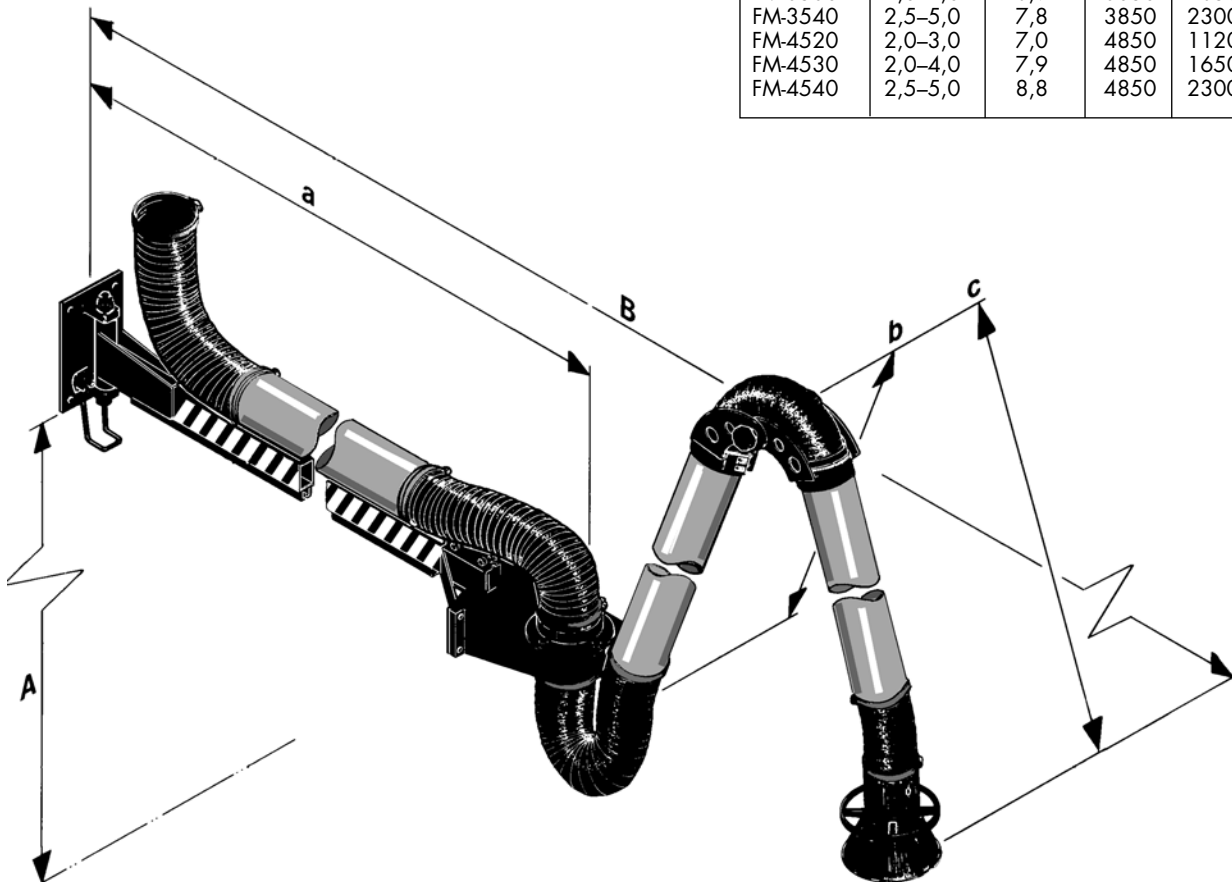
### Mounting plates for Flex-Max

FM-1520, 1530, 1540,  
2520, 2530, 2540

FM-3520, 3530, 3540,  
4520, 4530, 4540

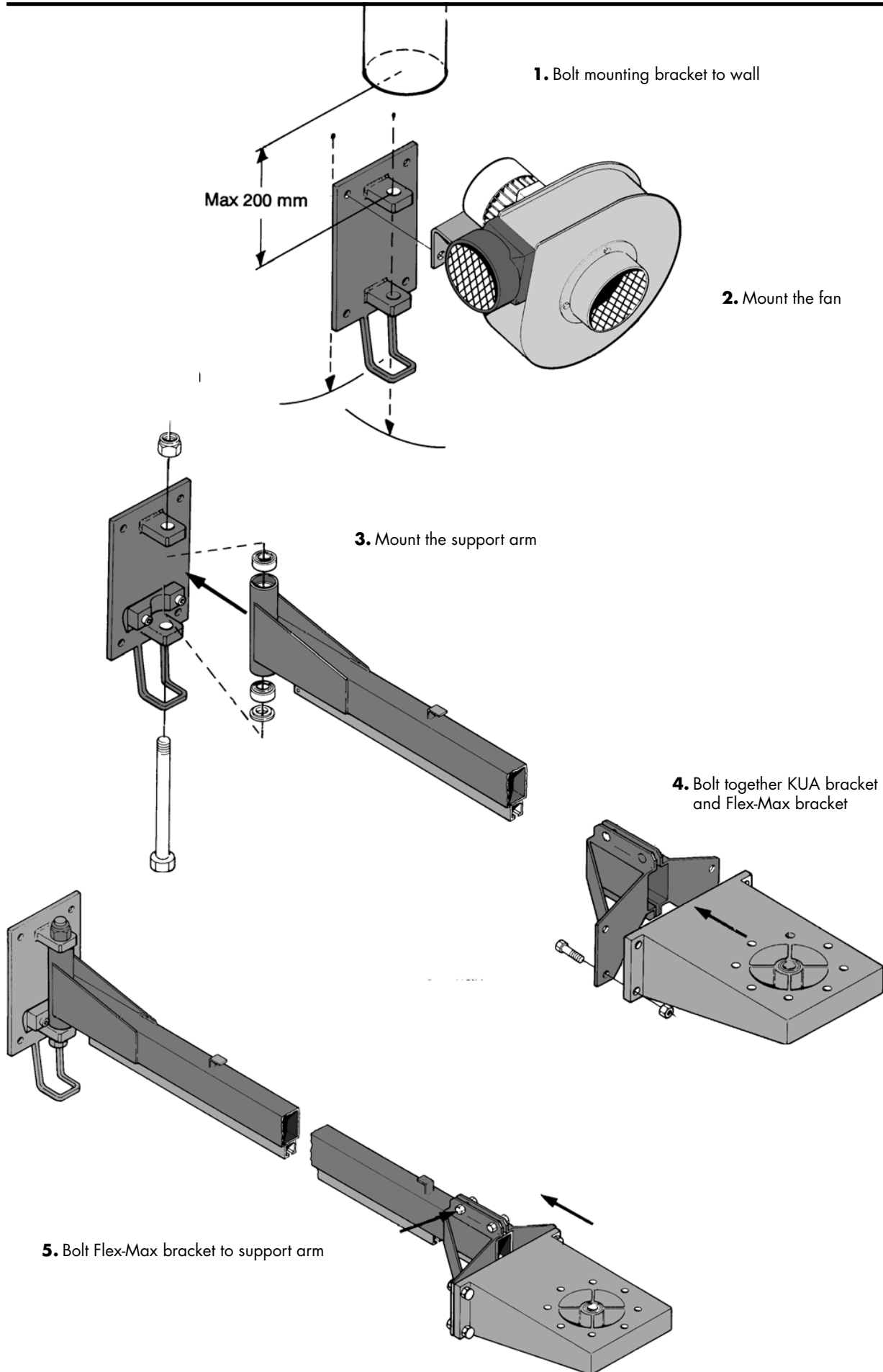


| FLEX-MAX<br>Prod. no: | A       | B   | a<br>mm | b<br>mm | c<br>mm |
|-----------------------|---------|-----|---------|---------|---------|
| FM-1520               | 2,0-3,0 | 4,0 | 1850    | 1120    | 1070    |
| FM-1530               | 2,0-4,0 | 4,9 | 1850    | 1650    | 1520    |
| FM-1540               | 3,5-5,0 | 5,8 | 1850    | 2300    | 1870    |
| FM-2520               | 2,0-3,0 | 5,0 | 2850    | 1120    | 1070    |
| FM-2530               | 2,0-4,0 | 5,9 | 2850    | 1650    | 1520    |
| FM-2540               | 2,5-5,0 | 6,8 | 2850    | 2300    | 1870    |
| FM-3520               | 2,0-3,0 | 6,0 | 3850    | 1120    | 1070    |
| FM-3530               | 2,0-4,0 | 6,9 | 3850    | 1650    | 1520    |
| FM-3540               | 2,5-5,0 | 7,8 | 3850    | 2300    | 1870    |
| FM-4520               | 2,0-3,0 | 7,0 | 4850    | 1120    | 1070    |
| FM-4530               | 2,0-4,0 | 7,9 | 4850    | 1650    | 1520    |
| FM-4540               | 2,5-5,0 | 8,8 | 4850    | 2300    | 1870    |

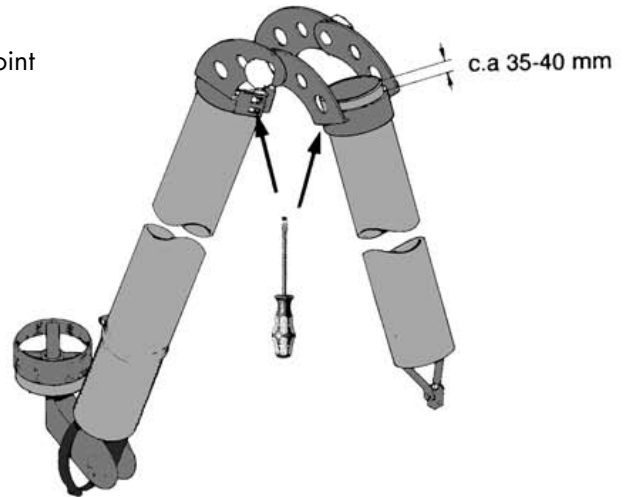


| Prod. no:                 | Max. load/Bolt | Safety requirement |
|---------------------------|----------------|--------------------|
| FM-1520, FM-1530          | 300kg/Bolt     | 900kg/Bolt         |
| FM-2520, FM-2530          | 500 kg/Bolt    | 1500 kg/Bolt       |
| FM-1540, FM-2540, FM-3520 | 650 kg/Bolt    | 1950 kg/Bolt       |
| FM-3530, FM-3540, FM-4520 | 900 kg/Bolt    | 2700 kg/Bolt       |
| FM-4530, FM-4540          | 900 kg/Bolt    | 2700 kg/Bolt       |

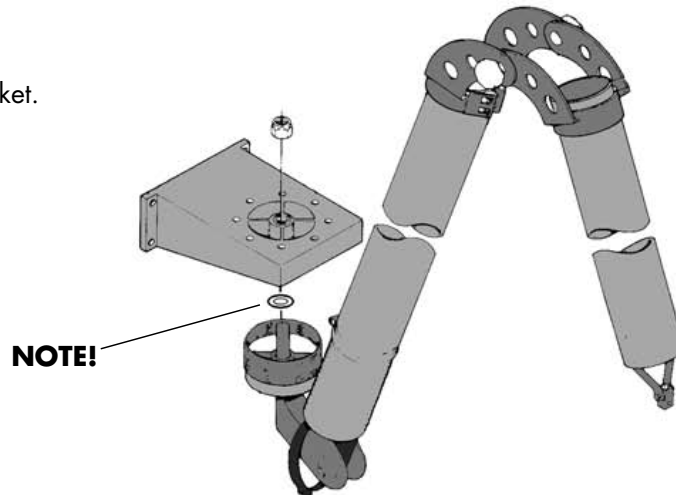
# Mounting instructions



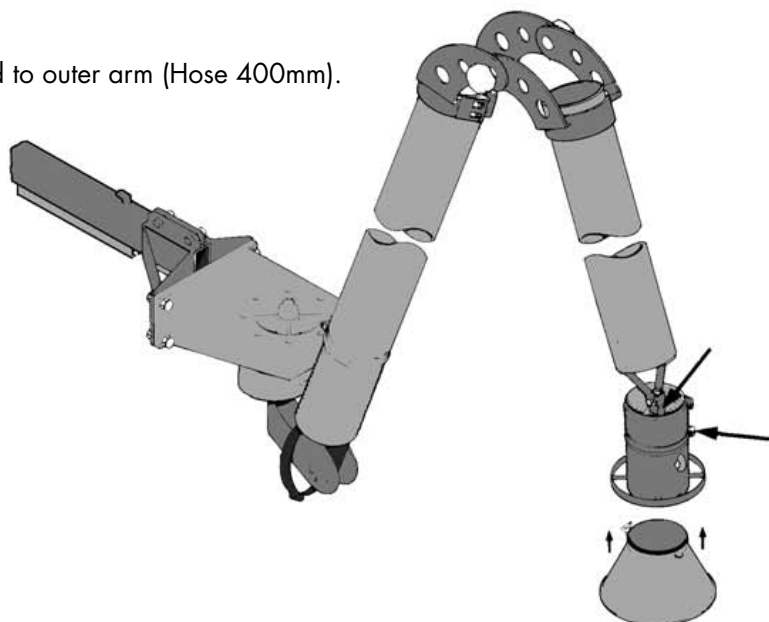
6. Attach inner arm to outer arm by means of hinged joint and fit rubber collar to inner arm.



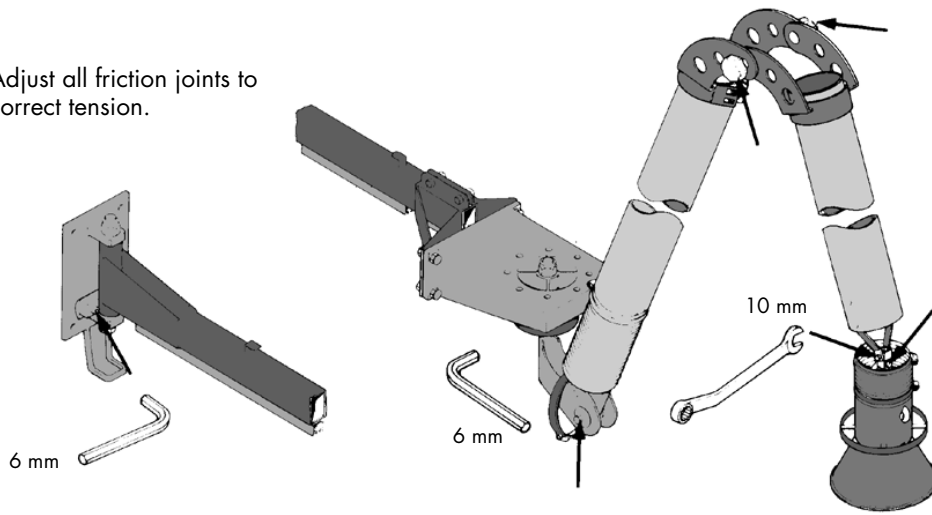
7. Mount arm to wall mounting bracket.  
**NOTE! THE PLATE.**



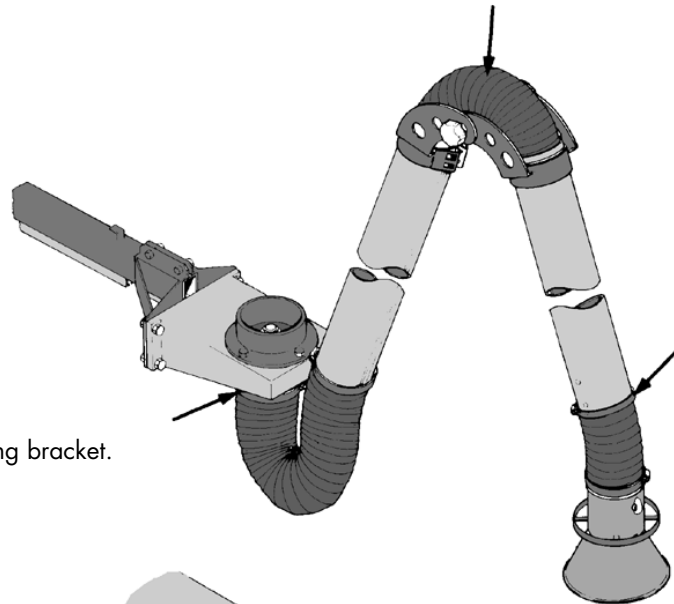
8. Fit hose, jubilee clips, hood collar and hood to outer arm (Hose 400mm).



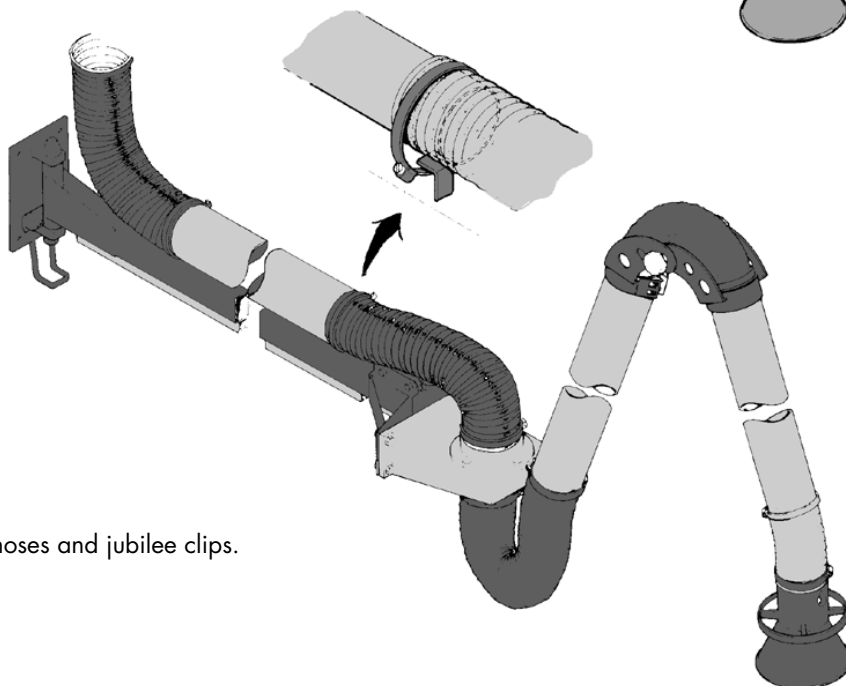
**9.** Adjust all friction joints to correct tension.



**10.** Fit hoses and jubilee clips (Hose 650 mm).



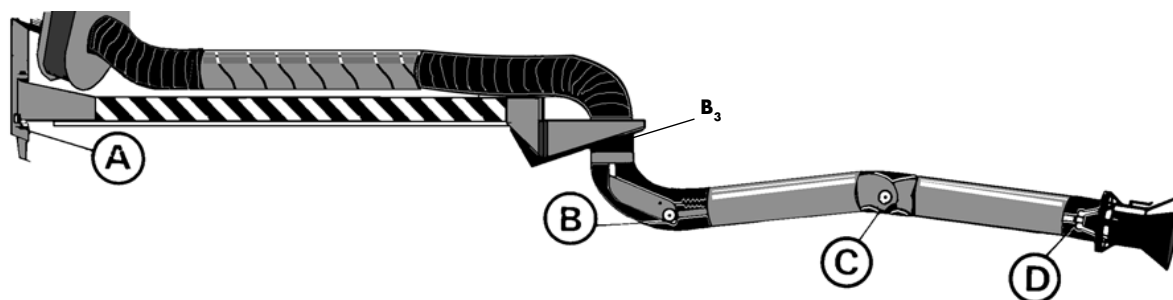
**11.** Fit spigot to mounting bracket.



## MAINTENANCE INSTRUCTION

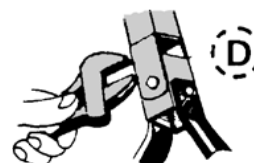
**FLEX-MAX**

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### **A. If the arm does not stay in the required position:**

Tighten the brakes in the two joints with an allen-key.  
Check once every six months.



### **B. If the arm does not stay in the required position:**

1. Loosen the hose at B.
2. Pull the extractor out to its full length and angle it horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.
3. If the arm is difficult to move sideways or moves on its own sideways, then adjustments must be made to the friction collar in the wallmounting bracket. This is done by either loosening or tightening the Grub screw.

### **C. If the outer arm will not stay in the required position:**

1. Angle the outer arm horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.

### **D. If the hood will not stay in the required position:**

1. Loosen the hose at D.
2. Adjust the friction (see picture) until the hood will stay in the exact position.



## TECHNISCHE BESCHRIJVING

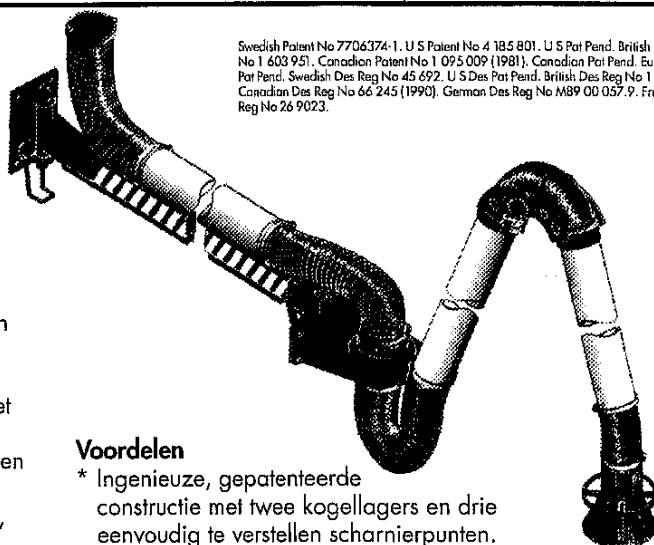
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# Flex-Max

De PlymoVent Flex-Max is de perfecte afzuigarm voor situaties waarin maximale flexibiliteit is vereist. Met de Flex-Max arm kunt u overal bij op uw werkplek. De arm is leverbaar in verschillende versies, met een bereik variërend van 4 tot maar liefst 8,8 m. De zuigmond kan vanaf de vloer tot zo'n 4 m boven de montagehoogte worden verplaatst. De Flex-Max biedt daadwerkelijk de oplossing wanneer zelfs de kleinste hoekjes van de werkplaats moeten worden bereikt, over een groot oppervlak of aan hoge voorwerpen moet worden gewerkt. De Flex-Max bevat een zwenkeen knikarm, beide gemonteerd op een draaipunt met dubbel kogellager. De knikarm, op drie plaatsen stelbaar, zorgt voor een maximale flexibiliteit binnen het werkbereik en kan volledig over 360° worden verdraaid. De zwenkarm is voorzien van een ophangrail voor kabels, persluchtlangen, draadaanvoerkoefers, etc. Deze arm kan belast worden tot zo'n 50 kg. De afzuigarm kan aan de zuigmond worden vermeld. De verlengslangen FSL-1, SLE-20 en SLE-30 kunnen op eenvoudige wijze aan de afzuigarm worden bevestigd.

### Levering

De Flex-Max wordt compleet geleverd met bevestigingsplaat, zwenkarm, knikarm en zuigmond voorzien van een handbediende smookklep.

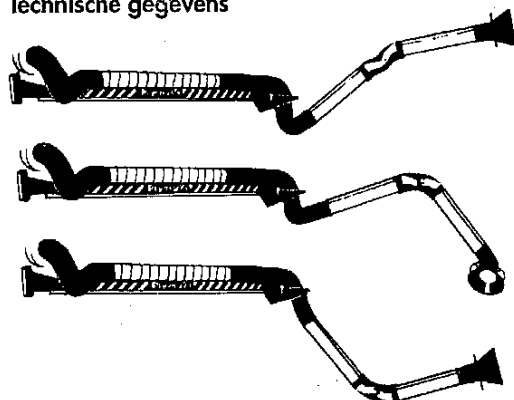


Swedish Patent No 770637A-1, U.S. Patent No 4 185 801, U.S. Pat. Pend. British Patent No 1 603 951, Canadian Patent No 1 095 009 (1981), Canadian Pat. Pend. European Pat. Pend. Swedish Des. Reg. No 45 692, U.S. Des. Pat. Pend. British Des. Reg. No 1 055 115, Canadian Des. Reg. No 66 245 (1990), German Des. Reg. No M89 00 057.9, French Des. Reg. No 26 9023.

### Voordelen

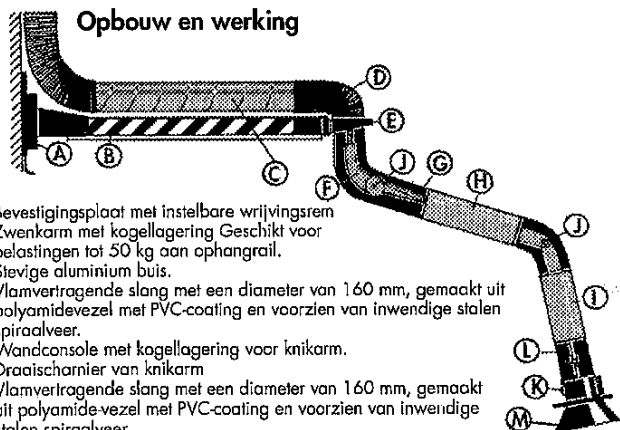
- \* Ingenieuze, gepatenteerde constructie met twee kogellagers en drie eenvoudig te verstellen scharnierpunten.
- \* Maximale flexibiliteit dankzij een werkbereik tot maar liefst 9 m (afhankelijk van het type arm).
- \* Snel en gemakkelijk in de gewenste stand te zetten.
- \* Zwenkarm belastbaar tot zo'n 50 kg.
- \* Montageplaats vrij te kiezen: hoog aan de wand of laag bij de vloer.
- \* Elegant design en hoge kwaliteit tegen een uiterst scherpe prijs!

### Technische gegevens



| Typenr. | Max. werkbereik (m) | Totaal gewicht (kg) | Aanbevolen montagehoogte (m) | Aanbevolen debiet gemeten bij zuigmond m <sup>3</sup> /u | Slangdiameter mm |
|---------|---------------------|---------------------|------------------------------|--|------------------|
| FM-1520 | 4,0                 | 46                  | 2,0-3,0                      | 800-1200   | 160              |
| FM-1530 | 4,9                 | 48                  | 2,0-4,0                      | 800-1200   | 160              |
| FM-1540 | 5,8                 | 50                  | 2,5-5,0                      | 800-1200   | 160              |
| FM-2520 | 5,0                 | 58                  | 2,0-3,0                      | 800-1200   | 160              |
| FM-2530 | 5,9                 | 60                  | 2,0-4,0                      | 800-1200   | 160              |
| FM-2540 | 6,8                 | 62                  | 2,5-5,0                      | 800-1200   | 160              |
| FM-3520 | 6,0                 | 79                  | 2,0-3,0                      | 800-1200   | 160              |
| FM-3530 | 6,9                 | 81                  | 2,0-4,0                      | 800-1200   | 160              |
| FM-3540 | 7,8                 | 83                  | 2,5-5,0                      | 800-1200   | 160              |
| FM-4520 | 7,0                 | 91                  | 2,0-3,0                      | 800-1200   | 160              |
| FM-4530 | 7,9                 | 93                  | 2,0-4,0                      | 800-1200   | 160              |
| FM-4540 | 8,8                 | 95                  | 2,5-5,0                      | 800-1200   | 160              |

### Opbouw en werking

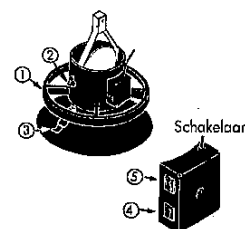


- A Bevestigingsplaat met instelbare wrijvingsrem
- B Zwenkarm met kogellagering Geschikt voor belastingen tot 50 kg aan ophangrail.
- C Stevige aluminium buis.
- D Vlamvertragende slang met een diameter van 160 mm, gemaakt uit polyamidevezel met PVC-coating en voorzien van inwendige stalen spiraalveer.
- E Wandconsole met kogellagering voor knikarm.
- F Draaischarnier van knikarm
- G Vlamvertragende slang met een diameter van 160 mm, gemaakt uit polyamide-vezel met PVC-coating en voorzien van inwendige stalen spiraalveer.
- H Stevige aluminium buis.
- I Stevige aluminium buis.
- J Knikarm scharnier met frictieschijf t.b.v. afstelling
- K Kruiskoppeling met handgreep en handbediende smookklep
- L Vlamvertragende slang met een diameter van 160 mm, gemaakt uit polyamide-vezel met PVC-coating en voorzien van inwendige stalen spiraalveer.
- M Optimaal ontworpen zuigmond met veiligheidsgaas (diameter: 300 mm). Kan worden voorzien van een halogeenarmatuur met 20 W halogeen lamp.

### Gebruik

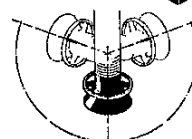
- 1 Handgreep rondom voor het positioneren van de zuigmond. Van alle zijden bereikbaar.
- 2 Draaiknop smookklep.
- 3 Snelkoppeling voor eenvoudig verwisselen van verlengslang en zuigmond.
- 4 Lichtschakelaar voor halogeenarmatuur (zie onder "accessoires", nr. HL-20/24)

- 5 Schakelaar voor handmatig starten/stoppen van ventilator of servo-klep (zie onder "accessoires", nr. SA-24, ES-90 of ASE-12).



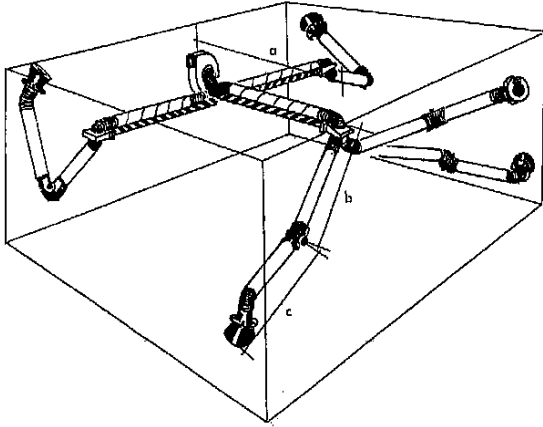
### Bediening zuigmond

De zuigmond kan te worden gebruikt voor het afzuigen van poedergecoate metalen zuigmondkanalen 110° naar voren, achteren of naar links of rechts. Grote handgreep rondom met een diameter van 300 mm.





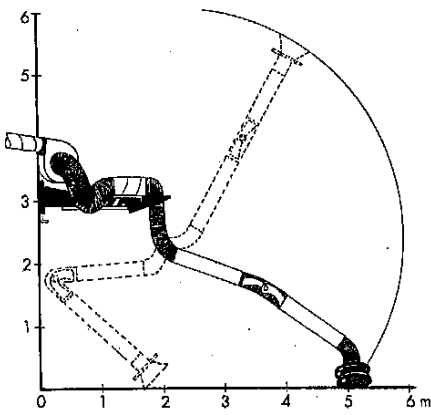
## Werkgebied



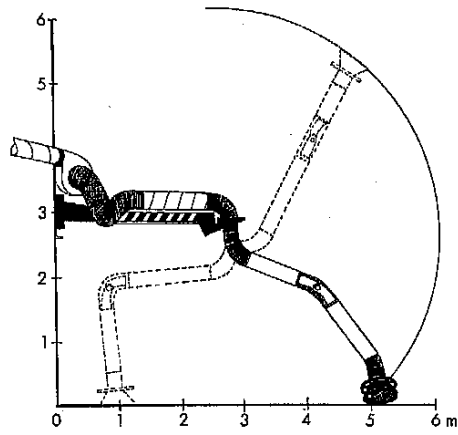
| Typenr. | a mm | b mm | c mm |
|---------|------|------|------|
| FM-1520 | 1850 | 1120 | 1070 |
| FM-1530 | 1850 | 1650 | 1520 |
| FM-1540 | 1850 | 2300 | 1870 |
| FM-2520 | 2850 | 1120 | 1070 |
| FM-2530 | 2850 | 1650 | 1520 |
| FM-2540 | 2850 | 2300 | 1870 |
| FM-3520 | 3850 | 1120 | 1070 |
| FM-3530 | 3850 | 1650 | 1520 |
| FM-3540 | 3850 | 2300 | 1870 |
| FM-4520 | 4850 | 1120 | 1070 |
| FM-4530 | 4850 | 1650 | 1520 |
| FM-4540 | 4850 | 2300 | 1870 |

### Flex-Max 1540

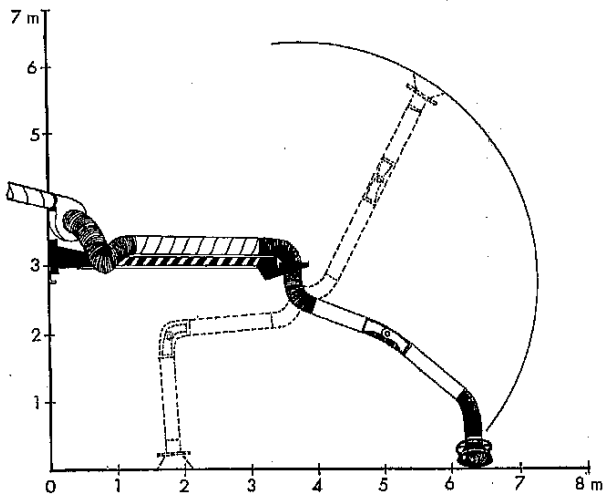
Aanbevolen montagehoogte 2,5-3,0 m.



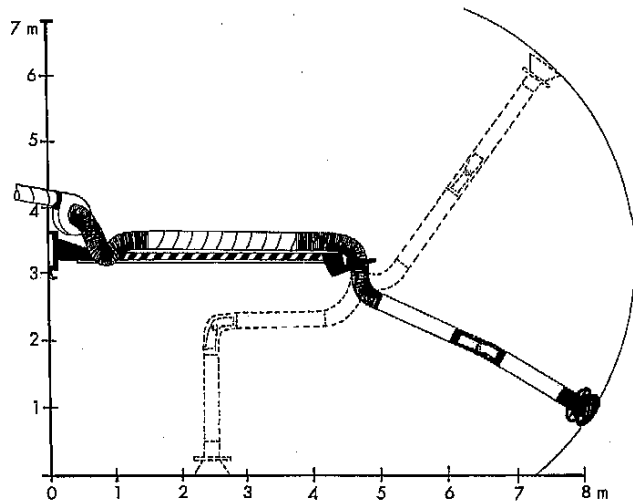
### Flex-Max 2540



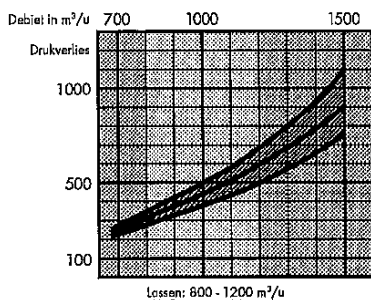
### Flex-Max 3540.



### Flex-Max 4540



## Drukverlies-diagram

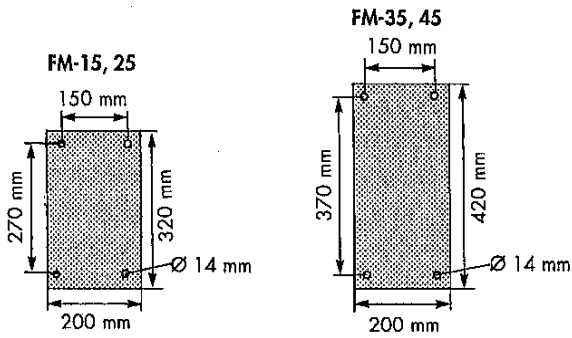


Het drukverlies in de Flex-Max van PlymoVent is afhankelijk van:

- 1 afzuigcapaciteit;
- 2 al dan niet gemonteerde verlichting in zuigmond;
- 3 positie van arm;
- 4 lengte van arm.

# Montagevoorbeelden voor de Flex-Max

## Bevestigingsplaten voor Flex-Max

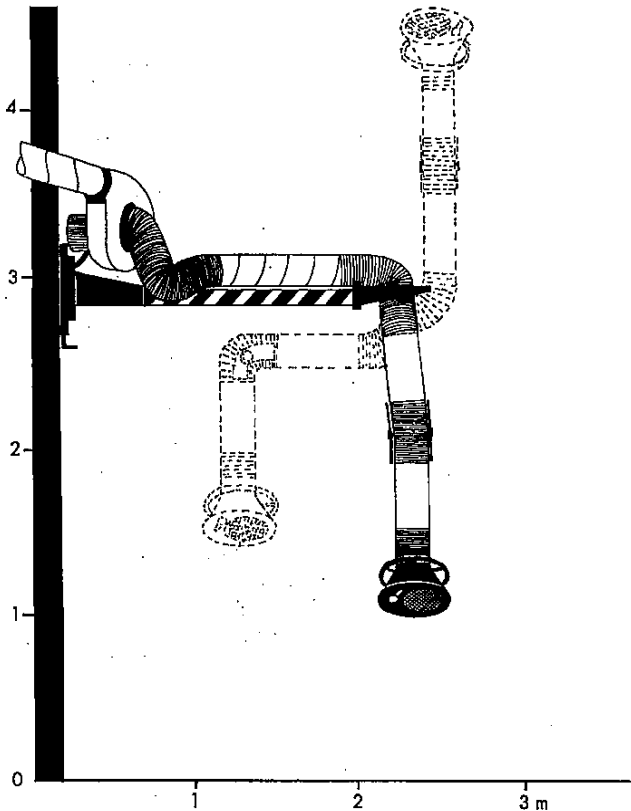


## Aanbevolen boutformaat

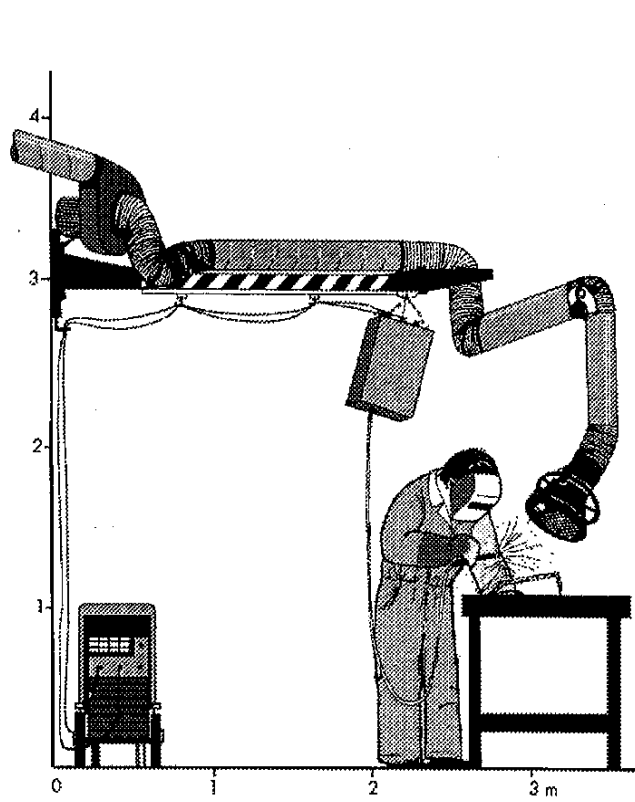
| Model                     | Max. belasting/<br>bout | Uit veiligheids-<br>overwegingen<br>aanbevolen |
|---------------------------|-------------------------|--|
| FM-1520, FM-1530          | 300 kp/bout             | 900 kp/bout                                    |
| FM-2520, FM-2530          | 500 kp/bout             | 1500 kp/bout                                   |
| FM-1540, FM-2540, FM-3520 | 650 kp/bout             | 1950 kp/bout                                   |
| FM-3530, FM-3540, FM-4520 | 900 kp/bout             | 2700 kp/bout                                   |
| FM-4530, FM-4540          | 900 kp/bout             | 2700 kp/bout                                   |

(1 kp ≈ 10 N)

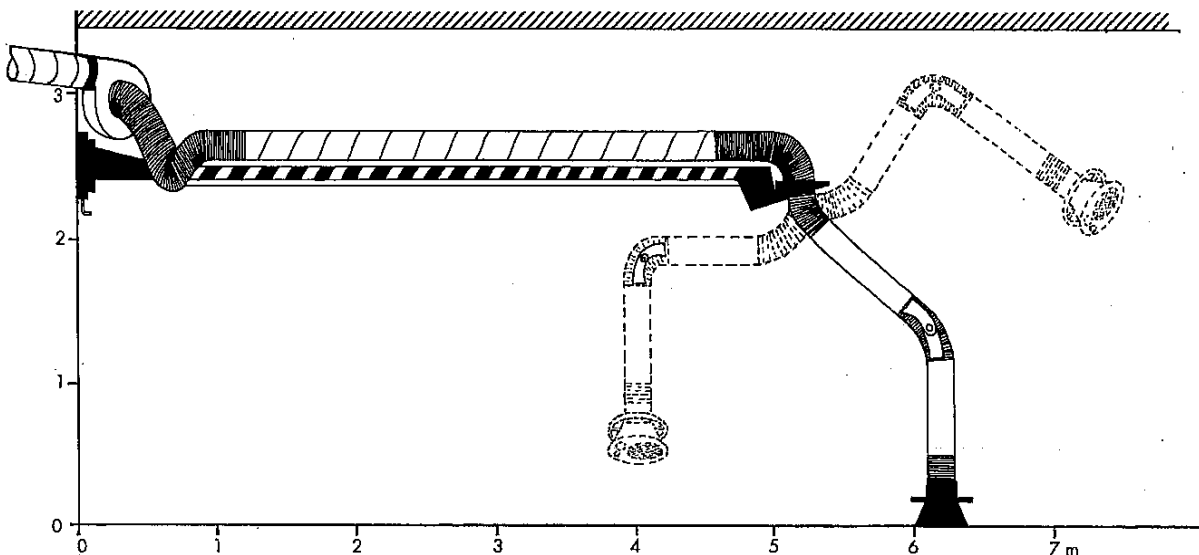
### Gemonteerd aan kolom.



### Gemonteerd aan wand (draad-aanvoerkoffer opgehangen aan zwenkarm).



### Gemonteerd in ruimte met laag plafond, in combinatie met eigen ventilator (type FUK)



# MONTAGEHANDLEIDING

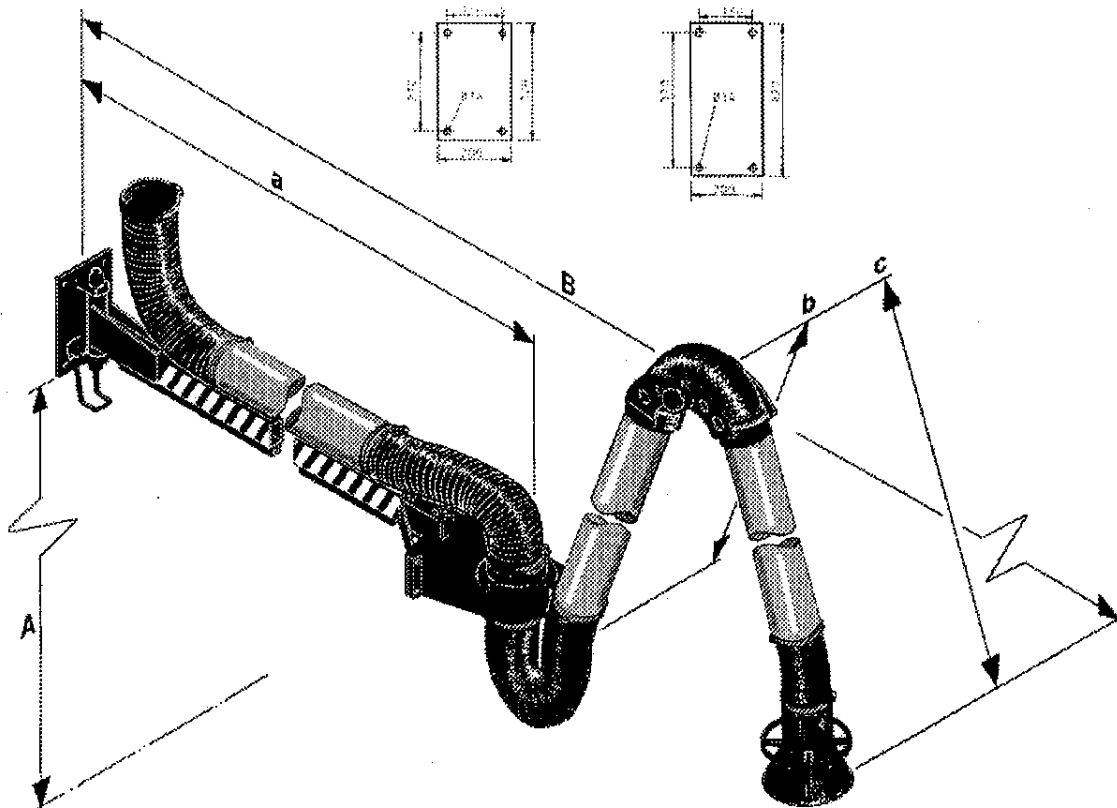
FLEX-MAX

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## BEVESTIGINGSPLATEN VOOR FLEX-MAX

FM-1520, FM-1530 FM-1540  
FM-2520 FM-2530 FM-2540

FM-3520, FM-3530, FM-3540  
FM-4520, FM-4530, FM-4540



### Aanbevolen boutgrootte

| Model                     | Max. belasting/bout | Uit veiligheidsoverwegingen aanbevolen |
|---------------------------|---------------------|--|
| FM-1520, FM-1530          | 3000 N/bout         | 9000 N/bout                            |
| FM-2520, FM-2530          | 5000 N/bout         | 15000 N/bout                           |
| FM-1540, FM-2540, FM-3520 | 6500 N/bout         | 19500 N/bout                           |
| FM-3530, FM-3540, FM-4520 | 9000 N/bout         | 27000 N/bout                           |
| FM-4530, FM-4540          | 9000 N/bout         | 27000 N/bout                           |

| FLEX-MAX MODEL | A       | B   | a mm | b mm | c mm |
|----------------|---------|-----|------|------|------|
| FM-1520        | 2,0-3,0 | 4,0 | 1850 | 1120 | 1070 |
| FM-1530        | 2,0-4,0 | 4,9 | 1850 | 1650 | 1520 |
| FM-1540        | 3,5-5,0 | 5,8 | 1850 | 2300 | 1870 |
| FM-2520        | 2,0-3,0 | 5,0 | 2850 | 1120 | 1070 |
| FM-2530        | 2,0-4,0 | 5,9 | 2850 | 1650 | 1520 |
| FM-2540        | 2,5-5,0 | 6,8 | 2850 | 2300 | 1870 |
| FM-3520        | 2,0-3,0 | 6,0 | 3850 | 1120 | 1070 |
| FM-3530        | 2,0-4,0 | 6,9 | 3850 | 1650 | 1520 |
| FM-3540        | 2,5-5,0 | 7,8 | 3850 | 2300 | 1870 |
| FM-4520        | 2,0-3,0 | 7,0 | 4850 | 1120 | 1070 |
| FM-4530        | 2,0-4,0 | 7,9 | 4850 | 1650 | 1520 |
| FM-4540        | 2,5-5,0 | 8,8 | 4850 | 2300 | 1870 |

(1kp = 10N)

1. Bevestig de bevestigingsplaat aan de muur

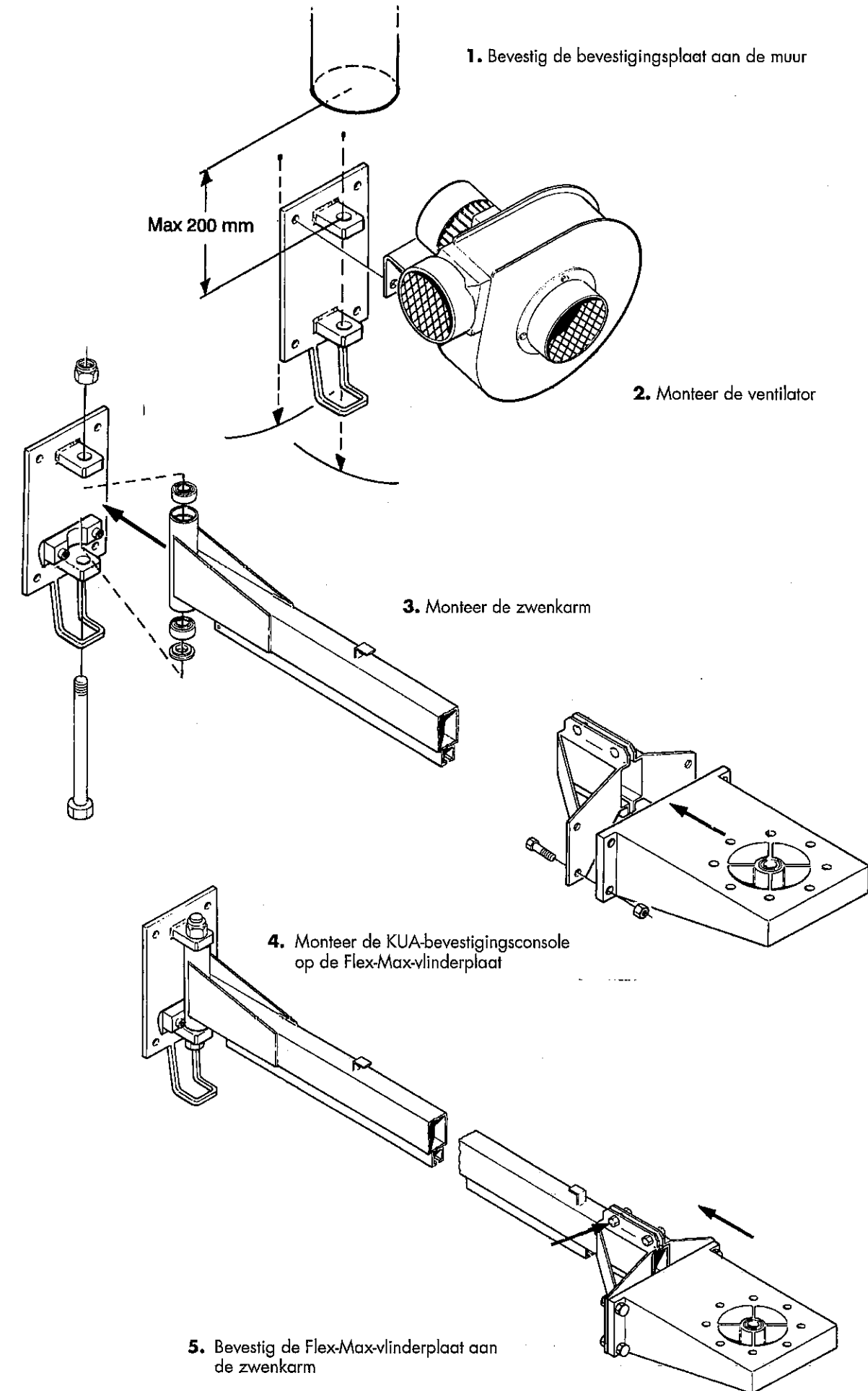
Max 200 mm

2. Monteer de ventilator

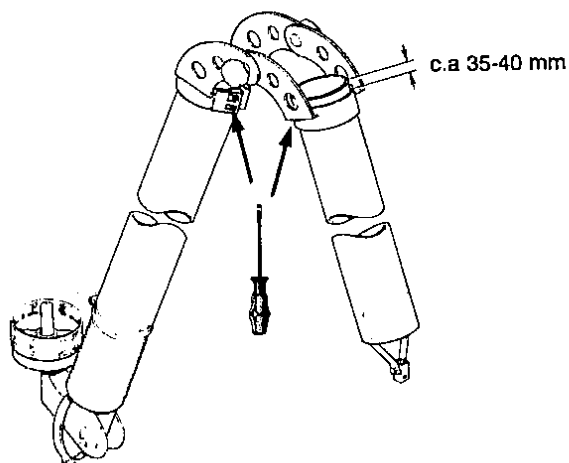
3. Monteer de zwenkarm

4. Monteer de KUA-bevestigingsconsole op de Flex-Max-vlinderplaat

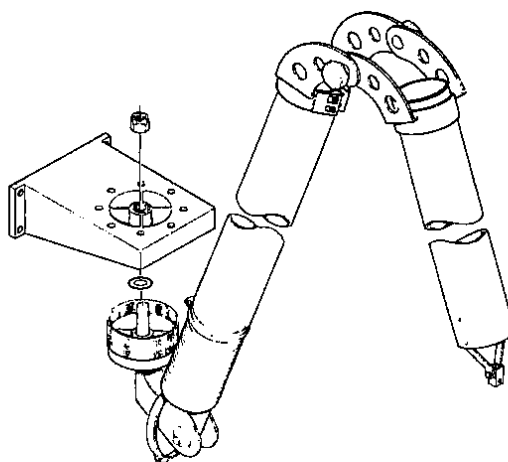
5. Bevestig de Flex-Max-vlinderplaat aan de zwenkarm



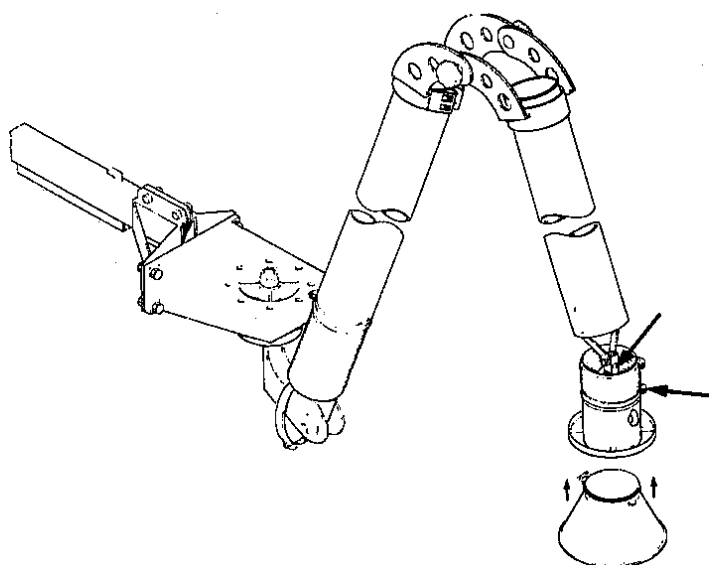
- 6.** Binnenarm, scharnier en buitenarm samenstellen, en rubbermanchet monteren



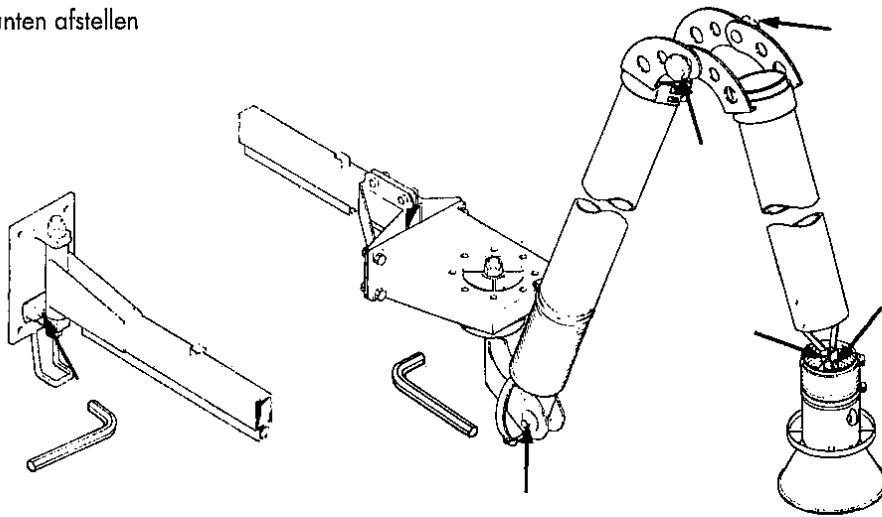
- 7.** Binnenarm aan de bevestigingsconsole monteren. Vergeet de onderlegging niet. Monteer deze tussen de kunststof draairing en de metalen draaiflens



- 8.** Slang, slangklemmen, zuigmondbevestiging en zuigmond aan debuitenarm monteren (slang 400 mm)

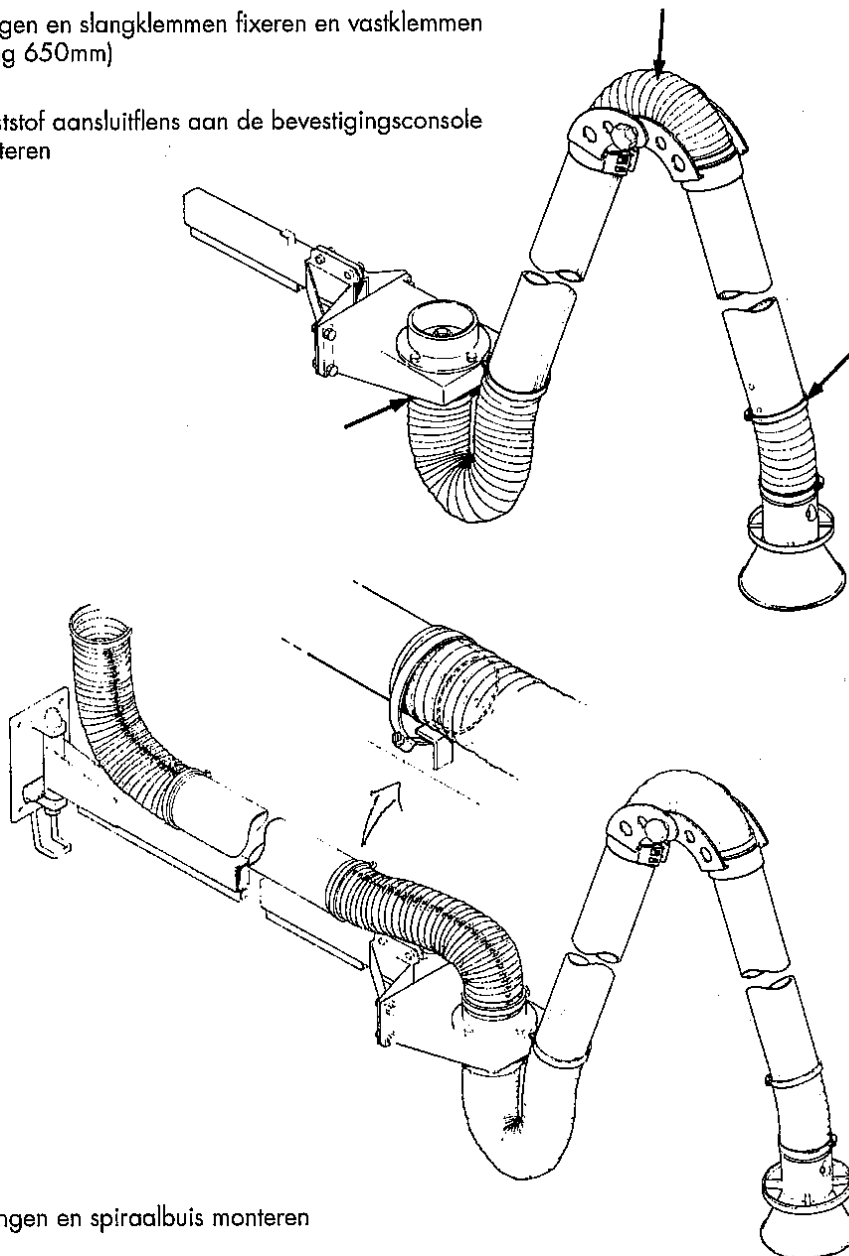


**9. Alle frictiepunten afstellen**



**10. Slangen en slangklemmen fixeren en vastklemmen (slang 650mm)**

**11. Kunststof aansluitflens aan de bevestigingsconsole monteren**

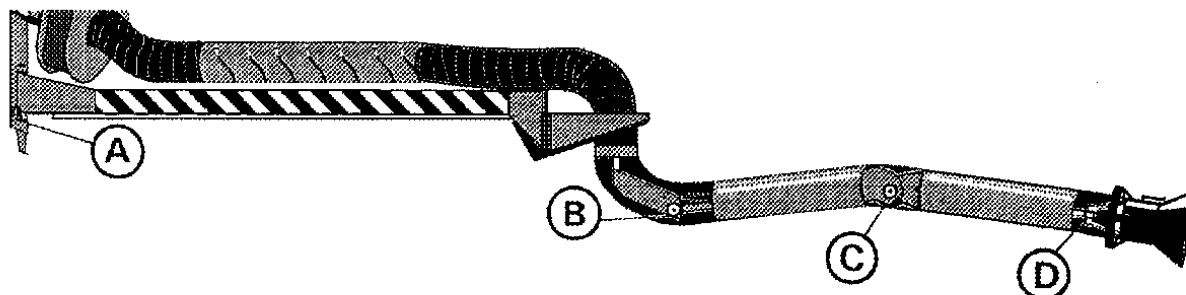


**12. Slangen en spiraalbuis monteren**

## GEBRUIKSAANWIJZING

FLEX-MAX

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### A. Indien de zwenkarm niet in de gewenste stand blijft staan:

Verhoog de frictie met het frictieblok door de imbusbout aan te draaien. Controleer de frictie elk halfjaar!

### B. Indien de arm niet in de gewenste stand blijft staan:

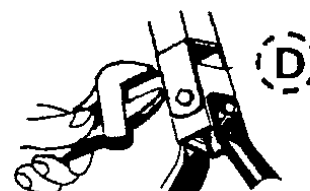
1. Maak de slang los bij punt B.
2. Trek de arm zover mogelijk horizontaal uit. Stel de frictie van het scharnier zo in, dat de arm net in de ingestelde stand blijft staan.
3. Indien de flexibele arm moeilijk zijwaarts te bewegen is of uit zichzelf wegdraait, dient de frictie met behulp van de frictiebus in de bevestigingsconsole te worden bijgesteld. Dit is mogelijk door de imbusbout met een imbusleutel strakker of losser te draaien.

### C. Indien de buitenarm niet in de gewenste stand blijft staan:

1. Breng de buitenarm in horizontale stand. Draai de frictieknoppen zo vast dat de buitenarm net in de ingestelde stand blijft staan.

### D. Indien de zuigmond niet in de gewenste stand blijft staan:

1. Maak de slang los bij punt D.
2. Stel de frictie in (zie tekening) tot de zuigmond in de ingestelde stand blijft staan.



# TECHNISCHE BESCHREIBUNG

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## Flex-Max

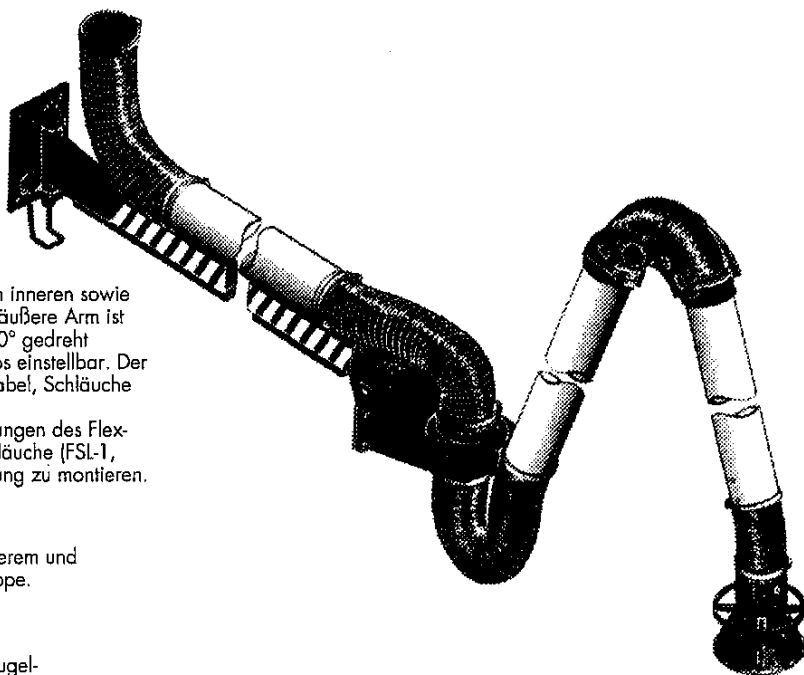
Der PlymoVent Flex-Max ist die perfekte Punktabsaugung mit maximaler Flexibilität. Sein Arbeitsradius erstreckt sich von 4 bis 8,8 m. Der Saugtrichter kann ohne weiteres hinunter bis zum Boden und bis zu einer Höhe von 8 m bewegt werden. Durch den Flex-Max können Absaugprobleme in niedrigen Räumen oder auch an schwer zugänglichen Arbeitsplätzen gelöst werden. Der Flex-Max besteht aus einem inneren und äußeren Arm mit kugelgelagerten Aufhängungen. Der äußere Arm ist PlymoVent's kugelgelagerter KUA-Arm. Er kann um 360° gedreht werden und ist über seine gesamte Reichweite stufenlos einstellbar. Der innere Arm hat eine Laufschiene, an der Werkzeug, Kabel, Schläuche usw. bis zu max. 50 kg aufgehängt werden können. Durch seine Leichtgängigkeit können sämtliche Bewegungen des Flex-Max vom Trichter aus erfolgen. Evtl. Verlängerungsschläuche (FSL-1, SLE-20 oder SLE-30) sind leicht an der Trichterbefestigung zu montieren.

### Lieferumfang

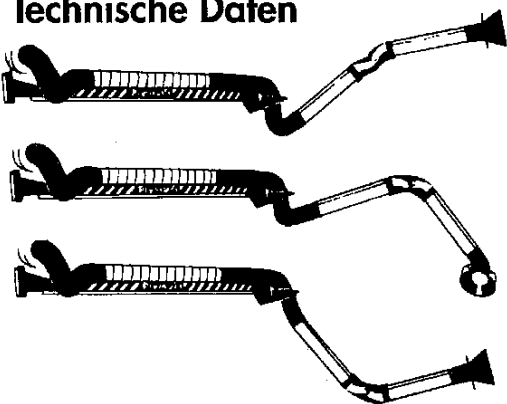
Die Lieferung erfolgt kompl. mit Wandbefestigung, innerem und äußerem Arm, Schlauch sowie Trichter mit Absperrklappe.

### Vorteile

- Durchdachte Konstruktion mit zwei schwenkbaren, kugelgelagerten Aufhängungen und drei einstellbaren Gelenken.
- Maximale Flexibilität innerhalb einer Reichweite von 0 bis ca. 9 m.
- Schnelle und einfache Einstellung.
- Belastungskapazität bis zu 50 kg am inneren Arm.
- Individuelle Montagemöglichkeiten.
- Ansprechendes Design und dauerhafte Qualität zu einem unschlagbaren Preis!

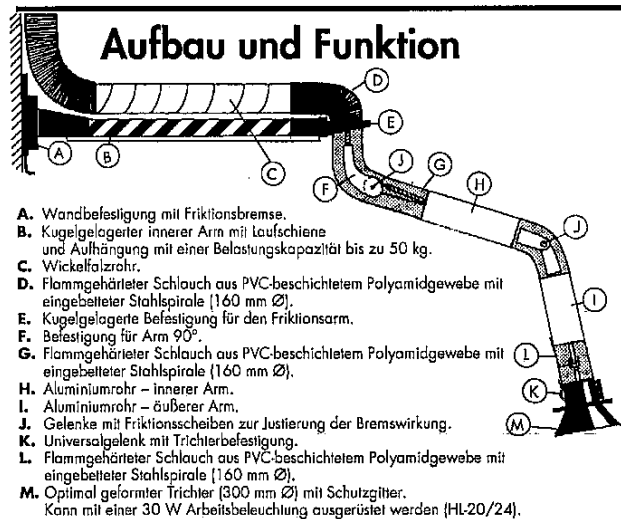


## Technische Daten



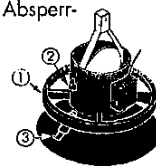
| Modell Best.-Nr. | Max Arbeitsradius Meter | Gewicht kg | Empf. Montagehöhe | Empf. Luftmenge am Trichter m³/h | Schlauchdurchmesser mm |
|------------------|-------------------------|------------|-------------------|----------------------------------|------------------------|
| FM-1520          | 4,0                     | 46         | 2,0-3,0           | 800-1200                         | 160                    |
| FM-1530          | 5,0                     | 48         | 2,0-4,0           | 800-1200                         | 160                    |
| FM-1540          | 5,8                     | 50         | 2,5-5,0           | 800-1200                         | 160                    |
| FM-2520          | 5,0                     | 58         | 2,0-3,0           | 800-1200                         | 160                    |
| FM-2530          | 6,0                     | 60         | 2,0-4,0           | 800-1200                         | 160                    |
| FM-2540          | 6,8                     | 62         | 2,5-5,0           | 800-1200                         | 160                    |
| FM-3520          | 6,0                     | 79         | 2,0-3,0           | 800-1200                         | 160                    |
| FM-3530          | 7,0                     | 81         | 2,0-4,0           | 800-1200                         | 160                    |
| FM-3540          | 7,8                     | 83         | 2,5-5,0           | 800-1200                         | 160                    |
| FM-4520          | 7,0                     | 91         | 2,0-3,0           | 800-1200                         | 160                    |
| FM-4530          | 8,0                     | 93         | 2,0-4,0           | 800-1200                         | 160                    |
| FM-4540          | 8,8                     | 95         | 2,5-5,0           | 800-1200                         | 160                    |

## Aufbau und Funktion

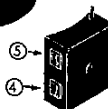


## Handhabung

1. Rundumlaufender Greifring (300 mm Ø) zur bequemen Positionierung des Trichters.
2. Schieber für Absperrklappe.



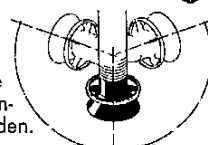
3. Exzentrerschloß zum Auswechseln des Trichters gegen einen Verlängerungsschlauch.
4. Schalter für Arbeitsbeleuchtung HL-20/24 (s. Zubehör).
5. Schalter für manuelle START/STOP Funktion von Ventilator bzw. Absperrklappe.



Schallergehäuse

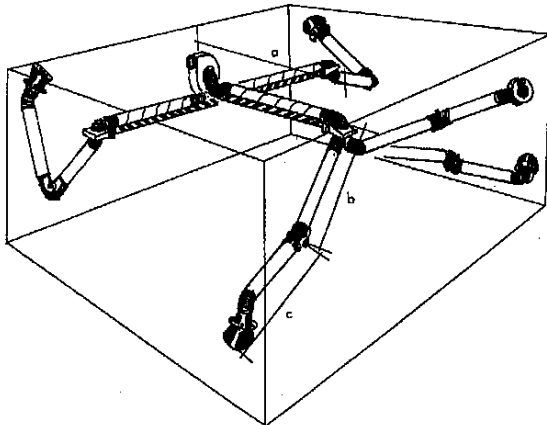
## Trichterfunktion

Der aus pulverbeschichtetem Stahlrohr hergestellte Trichter kann in alle Richtungen um 110° gedreht werden.





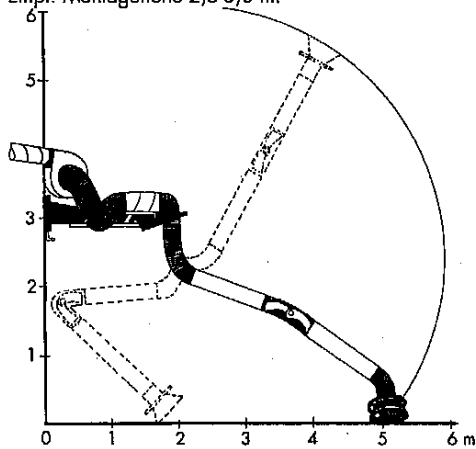
# Arbeitsbereich



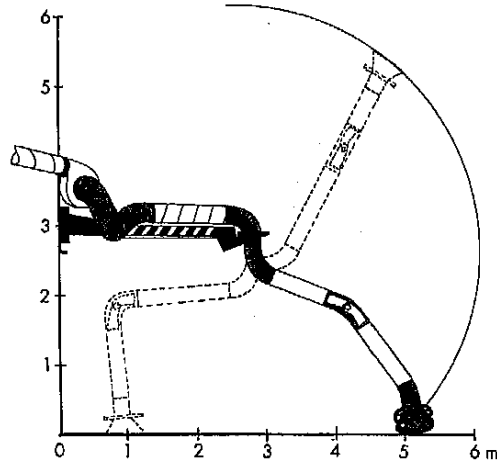
| Modell<br>Best.-Nr. | a<br>mm | b<br>mm | c<br>mm |
|---------------------|---------|---------|---------|
| FM-1520             | 1850    | 1120    | 1070    |
| FM-1530             | 1850    | 1650    | 1520    |
| FM-1540             | 1850    | 2300    | 1870    |
| FM-2520             | 2850    | 1120    | 1070    |
| FM-2530             | 2850    | 1650    | 1520    |
| FM-2540             | 2850    | 2300    | 1870    |
| FM-3520             | 3850    | 1120    | 1070    |
| FM-3530             | 3850    | 1650    | 1520    |
| FM-3540             | 3850    | 2300    | 1870    |
| FM-4520             | 4850    | 1120    | 1070    |
| FM-4530             | 4850    | 1650    | 1520    |
| FM-4540             | 4850    | 2300    | 1870    |

## Flex-Max 1540

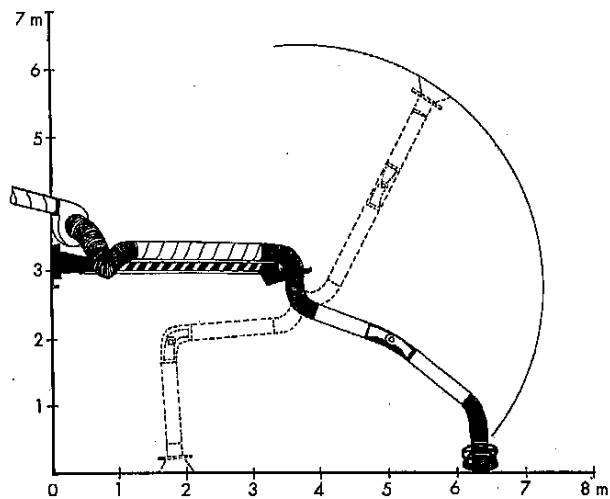
Empf. Montagehöhe 2,5-3,0 m.



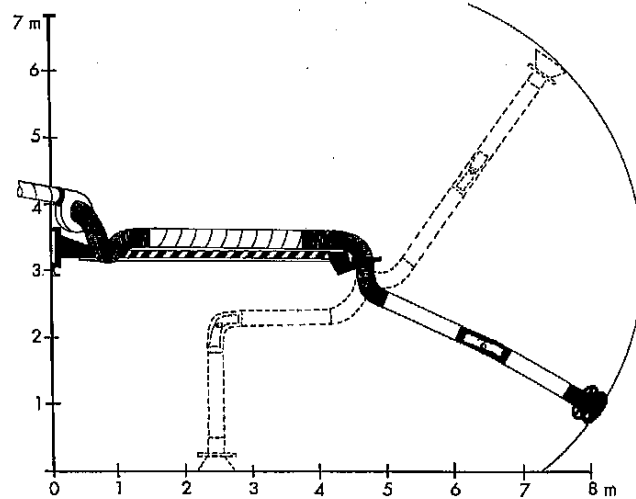
## Flex-Max 2540



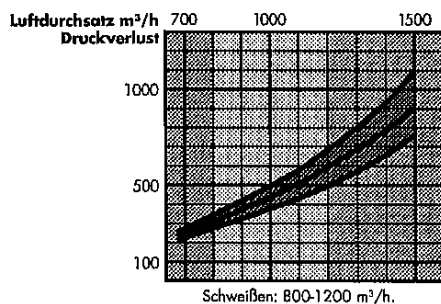
## Flex-Max 3540.



## Flex-Max 4540



## Druckverlust-Diagramm

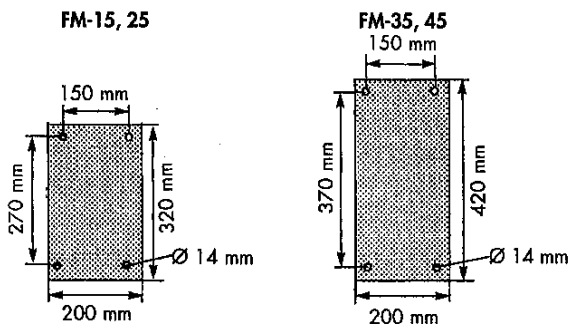


Den Druckverlust im Flex-Max können folgende Faktoren verursachen:

1. Luftmenge.
2. Trichterbeleuchtung.
3. Einstellung der Arme.
4. Länge der Arme.

# Montagebeispiele

## Befestigungsplatten für Flex-Max

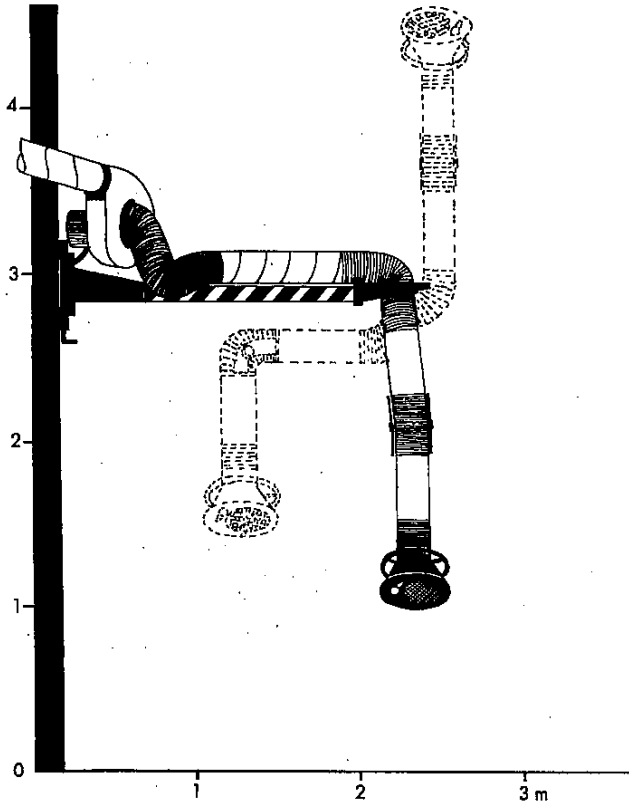


## Empf. Schraubengröße

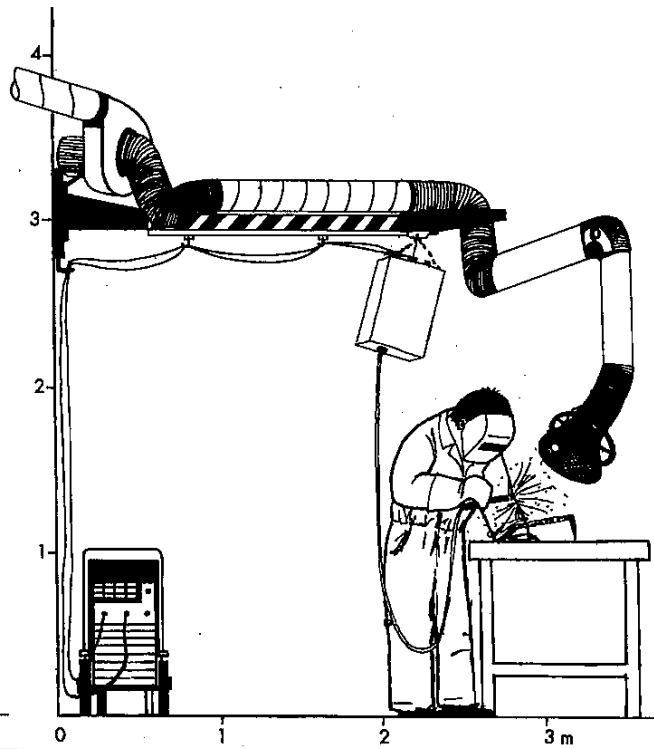
| Modell                    | Max. Belastung pro Bolzen | Bei 3-facher Sicherheit |
|---------------------------|---------------------------|-------------------------|
| FM-1520, FM-1530          | 300 kp/Bolzen             | 900 kp/Bolzen           |
| FM-2520, FM-2530          | 500 kp/Bolzen             | 1500 kp/Bolzen          |
| FM-1540, FM-2540, FM-3520 | 650 kp/Bolzen             | 1950 kp/Bolzen          |
| FM-3530, FM-3540, FM-4520 | 900 kp/Bolzen             | 2700 kp/Bolzen          |
| FM-4530, FM-4540          | 900 kp/Bolzen             | 2700 kp/Bolzen          |

(1 kp 10 N)

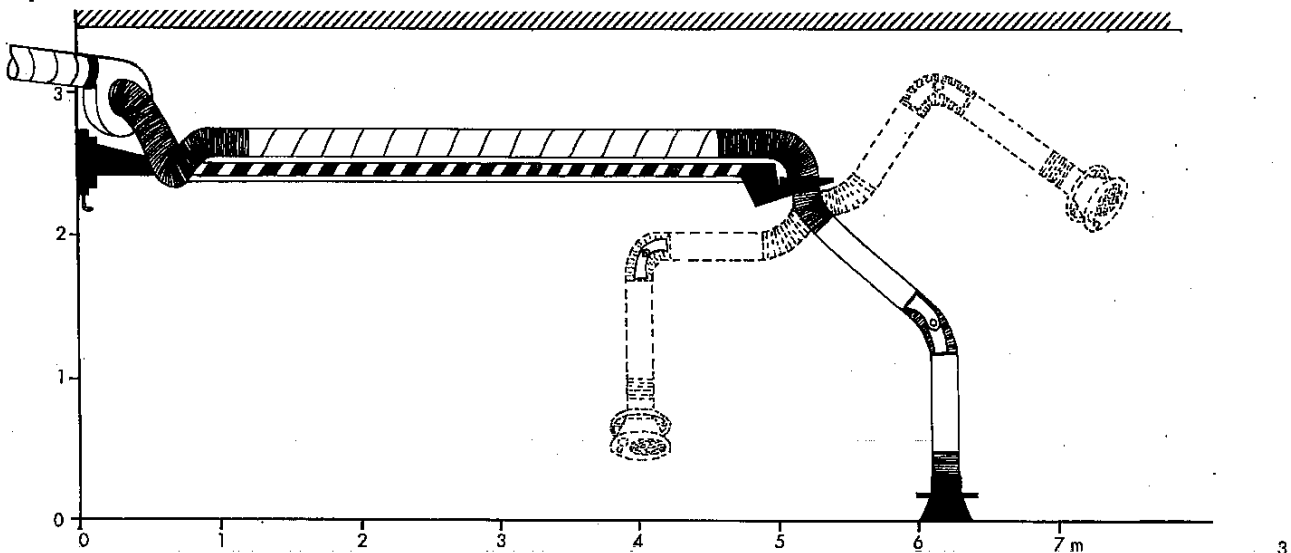
FM-1530 an eine Säule montiert.



FM-2540 an der Wand montiert.  
Vorschubgerät hängt am inneren Arm.



FM-4530 montiert bei niedriger Deckenhöhe mit  
separatem FUK-Ventilator.



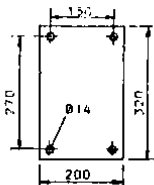
**MONTAGEANVISNING  
MOUNTING INSTRUCTION  
MONTAGE ANLEITUNG  
INSTRUCTIONS DE MONTAGE**

FLEX-MAX

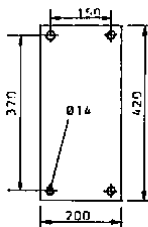
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Fästplattor för Flex-Max  
Mounting plates for Flex-Max  
Befestigungsplatten für Flex-Max  
Supports pour Flex-Max

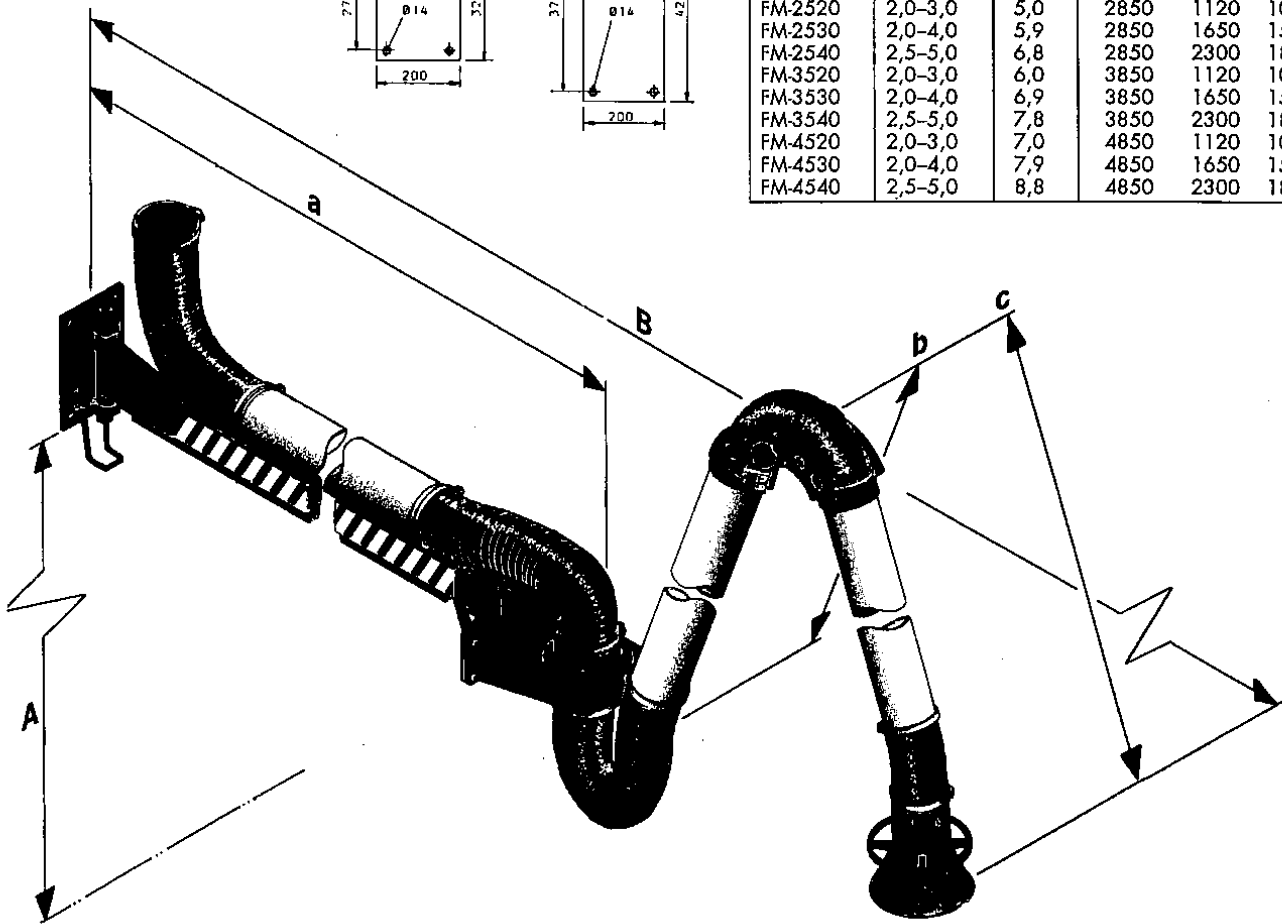
FM-1520, 1530, 1540,  
2520, 2530, 2540



FM-3520, 3530, 3540,  
4520, 4530, 4540



| FLEX-MAX<br>MODELL | A       | B   | a<br>mm | b<br>mm | c<br>mm |
|--------------------|---------|-----|---------|---------|---------|
| FM-1520            | 2,0-3,0 | 4,0 | 1850    | 1120    | 1070    |
| FM-1530            | 2,0-4,0 | 4,9 | 1850    | 1650    | 1520    |
| FM-1540            | 3,5-5,0 | 5,8 | 1850    | 2300    | 1870    |
| FM-2520            | 2,0-3,0 | 5,0 | 2850    | 1120    | 1070    |
| FM-2530            | 2,0-4,0 | 5,9 | 2850    | 1650    | 1520    |
| FM-2540            | 2,5-5,0 | 6,8 | 2850    | 2300    | 1870    |
| FM-3520            | 2,0-3,0 | 6,0 | 3850    | 1120    | 1070    |
| FM-3530            | 2,0-4,0 | 6,9 | 3850    | 1650    | 1520    |
| FM-3540            | 2,5-5,0 | 7,8 | 3850    | 2300    | 1870    |
| FM-4520            | 2,0-3,0 | 7,0 | 4850    | 1120    | 1070    |
| FM-4530            | 2,0-4,0 | 7,9 | 4850    | 1650    | 1520    |
| FM-4540            | 2,5-5,0 | 8,8 | 4850    | 2300    | 1870    |



| Modell<br>Model<br>Modell<br>Modèle  | Max. belastning/bult<br>Max. load/bolt<br>Max. Belastung/Schraube<br>Charge max. /boulon  | Säkerheten kräver<br>Safety requirement<br>Aus Sicherheitsgründen erforderlich<br>Charge de sécurité requise  |
|--|---|---|
| FM-1520, FM-1530<br>FM-2520, FM-2530<br>FM-1540, FM-2540, FM-3520<br>FM-3530, FM-3540, FM-4520<br>FM-4530, FM-4540 | 300kg/bult/Bolt/Schraube/boulon<br>500 kg/bult/Bolt/Schraube/boulon<br>650 kg/bult/Bolt/Schraube/boulon<br>900 kg/bult/Bolt/Schraube/boulon<br>900 kg/bult/Bolt/Schraube/boulon | 900kg/bult/Bolt/Schraube/boulon<br>1500 kg/bult/Bolt/Schraube/boulon<br>1950 kg/bult/Bolt/Schraube/boulon<br>2700 kg/bult/Bolt/Schraube/boulon<br>2700 kg/bult/Bolt/Schraube/boulon |

1. Montera fästplattan på vägg  
Bolt mounting bracket to wall  
Montieren Sie die Befestigungsplatte an der Wand  
Fixer le support au mur

Max 200 mm

2. Montera fläkten  
Mount the fan  
Montieren Sie den Ventilator  
Monter le ventilateur

3. Montera innerarmen  
Mount the support arm  
Montieren Sie den inneren Arm  
Monter la partie arrière du bras

4. Bulta ihop KUA-fästet och Flex-Max fästet  
Bolt together KUA bracket and Flex-Max bracket  
Montieren Sie die KUA-Halterung und Flex-Max-Halterung  
Visser le support KUA sur la fixation Flex-Max

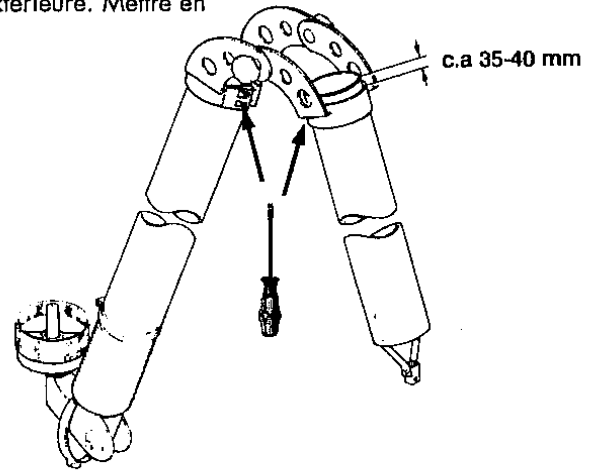
5. Bulta fast Flex-Max fästet till innerarmen  
Bolt Flex-Max bracket to support arm  
Schrauben Sie die Flex-Max-Halterung auf dem inneren Arm fest  
Visser le support sur la partie arrière du bras à l'aide des boulons

**6. Montera ihop innerarm, led, ytterarm och tätningring.**

Attach inner arm to outer arm by means of hinged joint and fit rubber collar to inner arm.

Inneren Arm, Gelenk und äusseren Arm verbinden und Dichtungsring montieren.

Relier le bras intérieur au bras extérieur grâce à l'articulation extérieure. Mettre en place la bague d'étanchéité en caoutchouc.



**7. Montera ihop innerarm och väggfäste. OBS! Brickan.**

Mount arm to wall mounting bracket. NOTE! The plate.

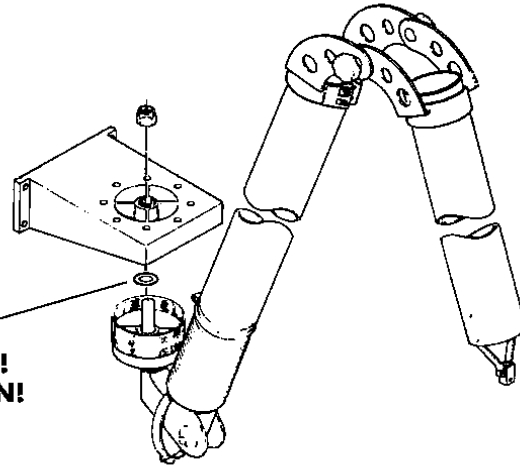
Den inneren Arm mit der Wandbefestigung verbinden.

ACHTUNG! Scheibe nicht vergessen!

Monter le bras intérieur sur la console.

ATTENTION! La plaque.

**OBS!  
NOTE!  
ACHTUNG!  
ATTENTION!**

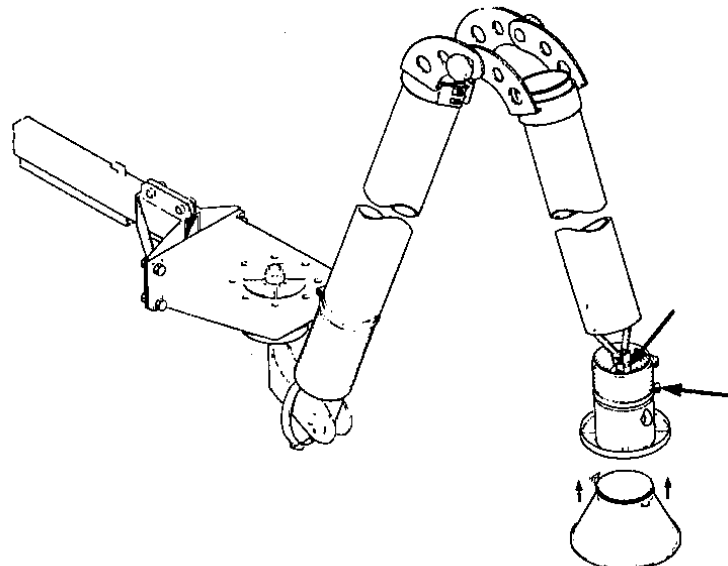


**8. Montera slang, klammer, trattfäste och tratt till ytterarmen (Slang 400 mm).**

Fit hose, jubilee clips, hood collar and hood to outer arm (Hose 400 mm).

Schlauch, Schlauchschellen, Trichterbefestigung und Trichter an den äusseren Arm montieren (Schlauch 400 mm).

Mettre en place la gaine flexible, les colliers, le support de buse et la buse à l'extrémité du bras extérieur (Gaine flexible de 400 mm).

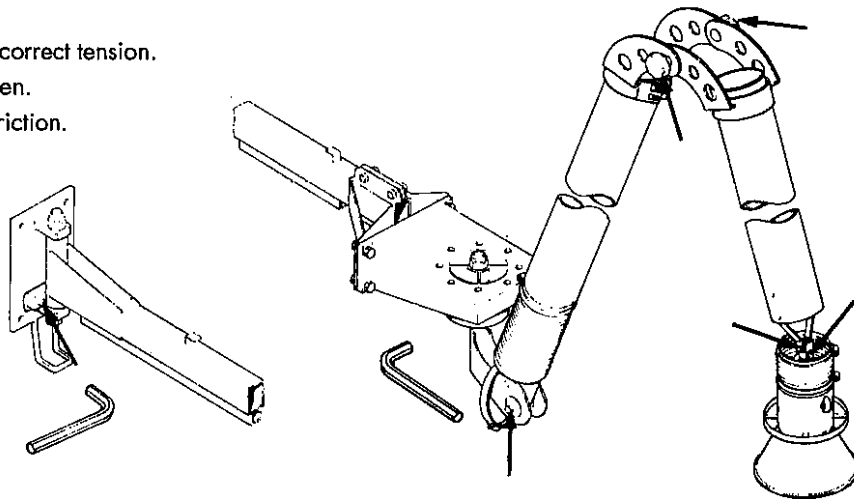


**9. Justera samtliga leder.**

Adjust all friction joints to correct tension.

Sämtliche Gelenke einstellen.

Régler les articulations à friction.

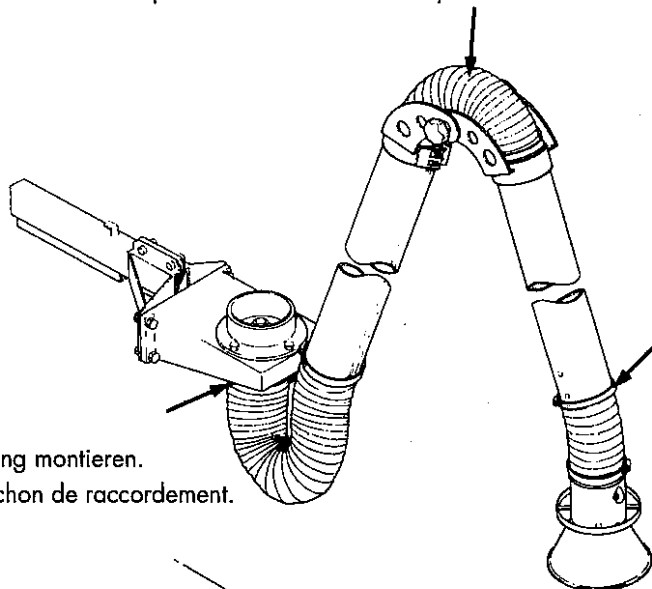


**10. Montera slangar och klammer (Slang 650 mm).**

Fit hoses and jubilee clips (Hose 650 mm).

Schläuche und Schlauchschellen fixieren und festziehen (Schlauch 650 mm).

Mettre en place les gaines flexibles et les colliers (Gaine flexible de 650 mm).

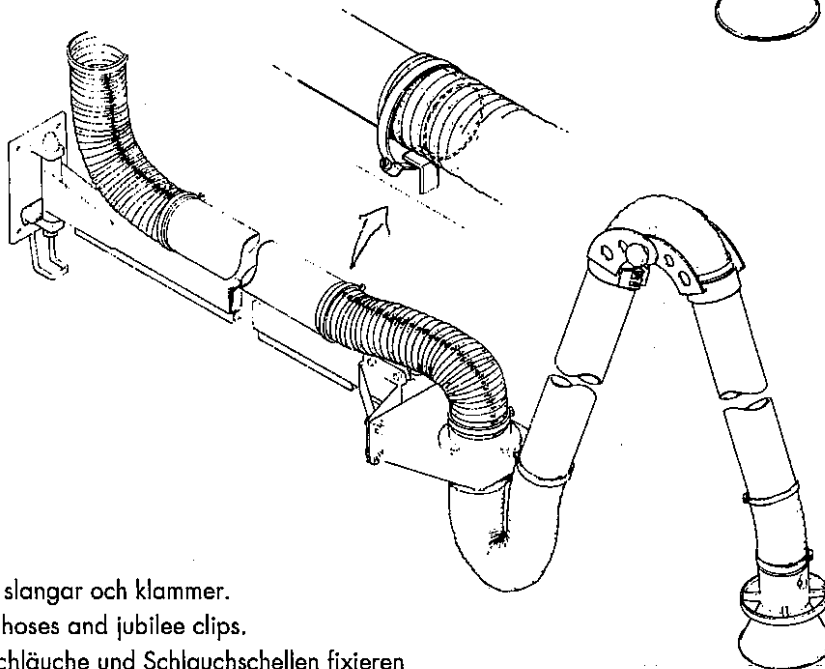


**11. Montera stös på väggfästet.**

Fit spigot to mounting bracket.

Rohrstutzen an der Wandbefestigung montieren.

Monter sur le support KUA le manchon de raccordement.



**12. Montera spirorör, slangar och klammer.**

Fit rigid ductings, hoses and jubilee clips.

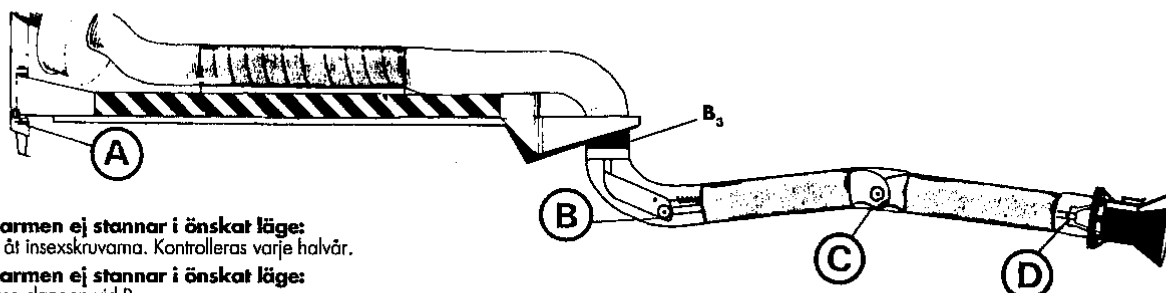
Wickelfalzrohr, Schläuche und Schlauchschellen fixieren und festziehen.

Mettre en place les gaines flexibles et les colliers.

**SKÖTSELANVISNING  
OWNERS MANUAL  
WARTUNGSANLEITUNG  
MESURES D'ENTRETIEN**

FLEX-MAX

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**A. Om armen ej stannar i önskat läge:**

Drag åt insexskruvorna. Kontrolleras varje halvår.

**B. Om armen ej stannar i önskat läge:**

1. Lossa slangen vid B.
2. Dra ut utsuget i sin fulla längd och vinkla det vågrätt. Justera därefter till dess att armen har tendens att börja sjunka mot golvet. Drag ytterst lite och justeringen är klar.
3. Om inte armen stannar i exakt läge efter förflyttning sidledes, drag åt friktionsbromsen som sitter i väggfästet, använd insexnyckel.

**C. Om yttre armen ej stannar i önskat läge:**

1. Vinkla yttre armen vågrätt. Justera därefter till dess att armen har tendens att börja sjunka mot golvet, drag åt ytterst lite och justeringen är klar.

**D. Om tratten ej stannar i önskat läge:**

1. Lossa slangen vid D.
2. Justera friktionen enl. bild till dess att tratten stannar i exakt position.

**A. If the arm does not stay in the required position:**

Tighten the brakes in the two joints with an allen-key. Check once every six months.

**B. If the arm does not stay in the required position:**

1. Loosen the hose at B.
2. Pull the extractor out to its full length and angle it horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.
3. If the arm is difficult to move sideways or moves on its own sideways, then adjustments must be made to the friction collar in the wall-mounting bracket. This is done by either loosening or tightening the grub screw.

**C. If the outer arm will not stay in the required position:**

1. Angle the outer arm horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.

**D. If the hood will not stay in the required position:**

1. Loosen the hose at D.
2. Adjust the friction (see picture) until the hood will stay in the exact position.



**A. Wenn der Arm nicht in der gewünschten Position stehen bleibt:**

Erhöhen Sie die Bremswirkung durch Nachziehen der Imbus-Schrauben! Bremswirkung halbjährlich überprüfen!

**B. Wenn der Arm nicht in der gewünschten Position stehen bleibt!**

1. Lösen Sie den Schlauch bei B.
2. Ziehen Sie das Absauggerät zur vollen Länge aus und stellen dann das Gelenk ein, bis der Arm sich langsam senkt. Anschließend die Bremse leicht nachziehen.
3. Wenn der Arm nach einer seitlichen Bewegung nicht exakt in der gewünschten Position stehen bleibt, muß die Friktionsbremse an der Wandbefestigung nachgezogen werden. Imbus-Schlüssel verwenden.

**C. Wenn der äußere Arm nicht in der gewünschten Position stehen bleibt:**

1. Den äußeren Arm waagrecht stellen, dann das Gelenk so lange einstellen, bis der Arm sich langsam senkt. Anschliessend die Bremse kurz anziehen.

**D. Wenn der Trichter nicht in der gewünschten Position stehen bleibt:**

1. Lösen Sie den Schlauch bei D.
2. Stellen Sie die Friktion (s. Abbildung) nach, bis der Trichter exakt in der gewünschten Position stehen bleibt.

**A. Si le bras ne se maintient pas en position voulue:**

Resserrer les freins aux deux articulations à l'aide d'un clé Allen. Vérifier le fonctionnement du bras tous les six mois!

**B. Si le bras ne se maintient pas en position voulue:**

1. Dégager la gaine flexible en B.
2. Etirer l'extracteur au maximum et le mettre en position horizontale. Procéder ensuite au réglage jusqu'à ce que le bras commence à s'incliner lentement. Serrer très légèrement le frein; le réglage est maintenant terminé.
3. Régler le frein à friction.

**C. Si le bras extérieur ne se maintient pas en position voulue:**

1. Mettre le bras extérieur à l'horizontale. Procéder ensuite au réglage jusqu'à ce que le bras à s'incliner lentement. Serrer très légèrement l'articulation; le réglage est maintenant terminé.

**D. Si la buse ne se maintient pas en position voulue:**

1. Dégager la gaine flexible en D.
2. Régler le niveau de friction (voir croquis) de façon à ce que la buse se maintienne en position voulue.



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# Flex-Max

PlymoVent FLEX-MAX est l'extracteur idéal lorsqu'une flexibilité maximale est exigée. La zone de travail est entièrement couverte avec l'extracteur FLEX-MAX.

Rayon d'action de 4 à 8,8 m. La buse d'extraction atteint le sol et une hauteur de 8 m. FLEX-MAX résout les problèmes d'extraction dans des espaces réduits et des pièces à faible hauteur sous plafond, dans le cas d'angles difficiles, de distances et de hauteurs importantes.

FLEX-MAX est constitué d'un bras intérieur et d'un bras extérieur, tous deux montés sur roulements à billes. Le bras extérieur a par ailleurs trois articulations réglables, peut être positionné sans paliers dans tout son domaine d'action et orienté à 360°. Le bras intérieur est muni d'un rail de guidage pour câbles, tuyaux pneumatiques, dévidoir de soudage etc... et peut supporter une charge maximale de 50 kg en bout.

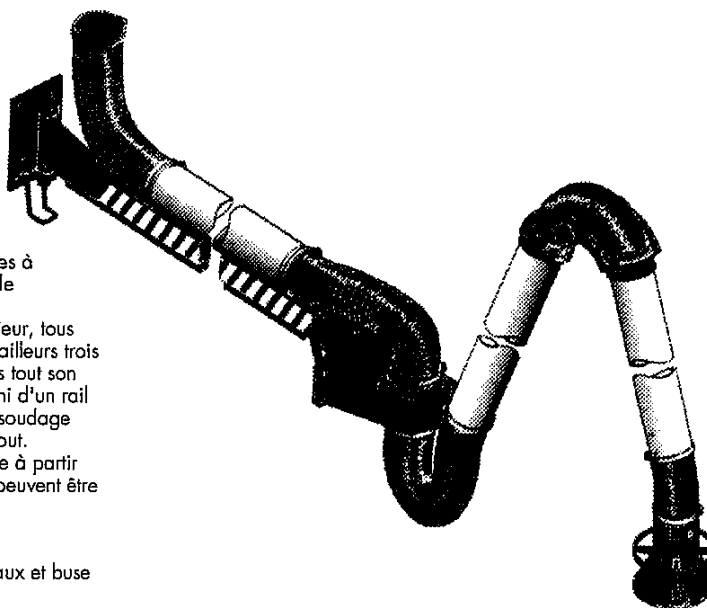
La commande de toutes les fonctions de l'extracteur s'effectue à partir de la buse. Les tuyaux de rallonges FSL-1, SLE-20 et SLE-30 peuvent être facilement raccordés aux bras.

### Livraison

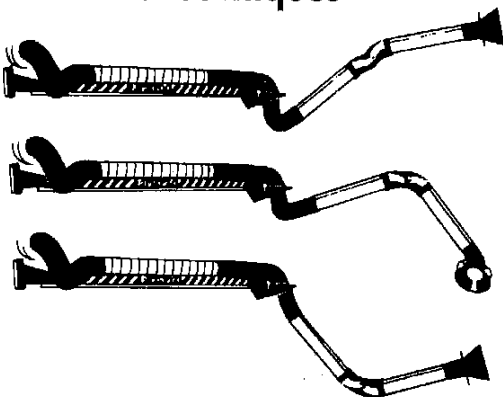
FLEX-MAX est livré complet avec fixations murales, bras, tuyaux et buse avec obturateur.

### Avantages

- Construction ingénieuse brevetée, constituée de deux fixations pivotantes à roulements à billes et de trois articulations réglables.
- Pour une flexibilité maximale dans un rayon d'action de 0 à environ 9 m.
- Installation simple et rapide.
- Le bras intérieur peut supporter une charge maximale en bout de 50 kg.
- Montage du bras au mur selon l'application, tout en haut ou tout en bas.
- Design élégant et haute qualité à un prix imbattable.

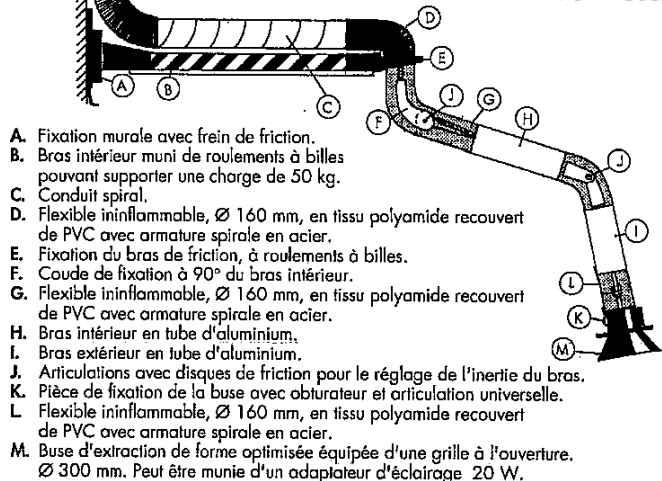


## Données techniques



| Modèle<br>Numéro de<br>commande | Rayon<br>d'action<br>maximale m | Poids<br>total<br>kg | Hauteur de<br>montage<br>recommandée | Débit d'air<br>recommandé à<br>la buse m³/h | Diamètre<br>du tuyau<br>mm |
|---------------------------------|---------------------------------|----------------------|--------------------------------------|---|----------------------------|
| FM-1520                         | 4,0                             | 46                   | 2,0-3,0                              | 800-1200                                    | 160                        |
| FM-1530                         | 4,9                             | 48                   | 2,0-4,0                              | 800-1200                                    | 160                        |
| FM-1540                         | 5,8                             | 50                   | 2,5-5,0                              | 800-1200                                    | 160                        |
| FM-2520                         | 5,0                             | 58                   | 2,0-3,0                              | 800-1200                                    | 160                        |
| FM-2530                         | 5,9                             | 60                   | 2,0-4,0                              | 800-1200                                    | 160                        |
| FM-2540                         | 6,8                             | 62                   | 2,5-5,0                              | 800-1200                                    | 160                        |
| FM-3520                         | 6,0                             | 79                   | 2,0-3,0                              | 800-1200                                    | 160                        |
| FM-3530                         | 6,9                             | 81                   | 2,0-4,0                              | 800-1200                                    | 160                        |
| FM-3540                         | 7,8                             | 83                   | 2,5-5,0                              | 800-1200                                    | 160                        |
| FM-4520                         | 7,0                             | 91                   | 2,0-3,0                              | 800-1200                                    | 160                        |
| FM-4530                         | 7,9                             | 93                   | 2,0-4,0                              | 800-1200                                    | 160                        |
| FM-4540                         | 8,8                             | 95                   | 2,5-5,0                              | 800-1200                                    | 160                        |

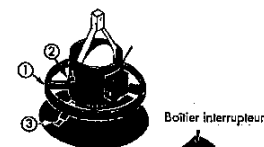
## Construction et fonctionnement



### Manoeuvre

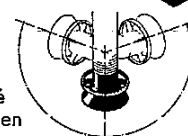
1. Poignée circulaire pour le positionnement de la buse. Accessible de tous côtés.
2. Poignée de manoeuvre de l'obturateur.
3. Serrage excentrique pour raccordement à la buse d'un tuyau prolongateur.
4. Interrupteur d'éclairage; voir accessoire HL-20/24.

5. Interrupteur de mise en marche et d'arrêt manuels du ventilateur ou de l'obturateur; voir accessoires SA-24, ES-90 ou ASE-12.



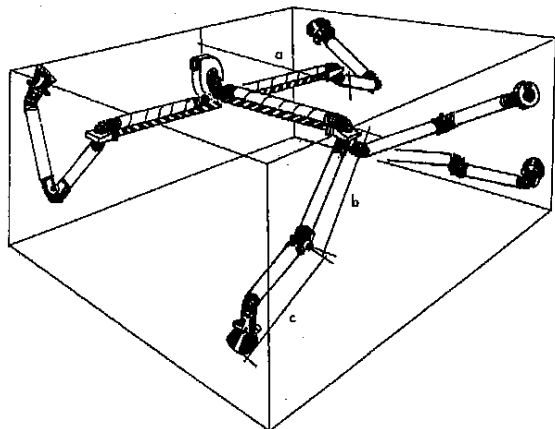
### Fonctionnement de la buse

La buse en métal anodisé, laquée noir peut être orientée de 110° en avant, en arrière et sur les côtés. Grande poignée circulaire 300 mm.





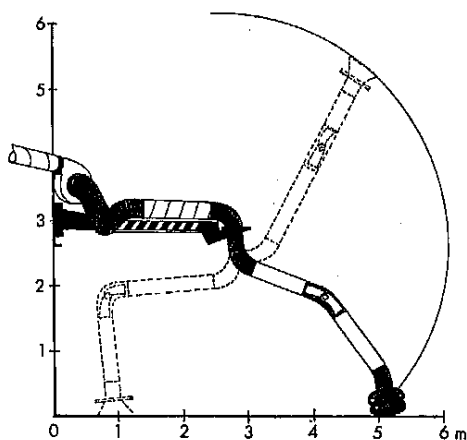
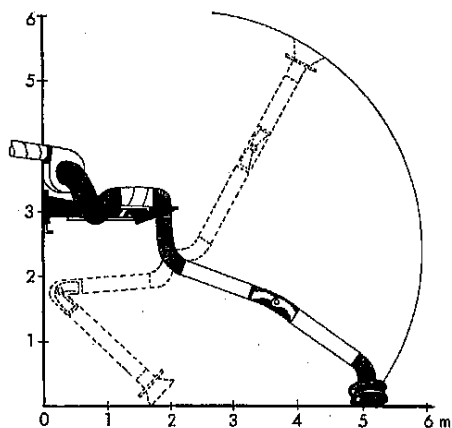
# Zones de travail



| Modèle  | a mm | b mm | c mm |
|---------|------|------|------|
| FM-1520 | 1850 | 1120 | 1070 |
| FM-1530 | 1850 | 1650 | 1520 |
| FM-1540 | 1850 | 2300 | 1870 |
| FM-2520 | 2850 | 1120 | 1070 |
| FM-2530 | 2850 | 1650 | 1520 |
| FM-2540 | 2850 | 2300 | 1870 |
| FM-3520 | 3850 | 1120 | 1070 |
| FM-3530 | 3850 | 1650 | 1520 |
| FM-3540 | 3850 | 2300 | 1870 |
| FM-4520 | 4850 | 1120 | 1070 |
| FM-4530 | 4850 | 1650 | 1520 |
| FM-4540 | 4850 | 2300 | 1870 |

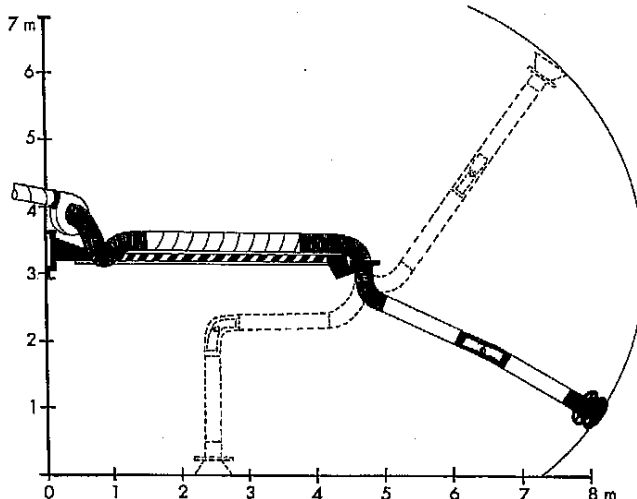
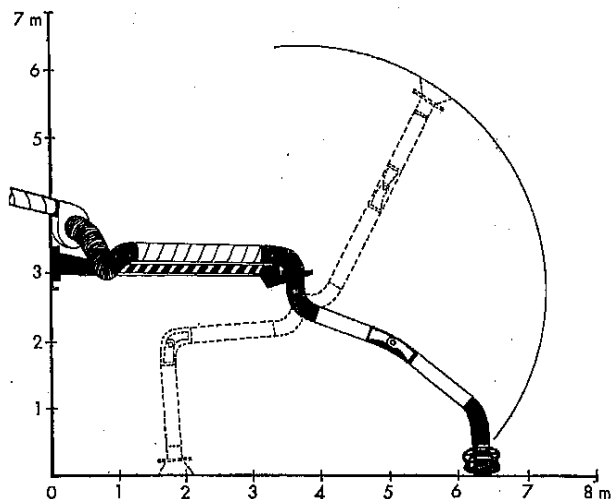
**Flex-Max 1540** Hauteur de montage recommandée 2,5-3,0 m.

**Flex-Max 2540**

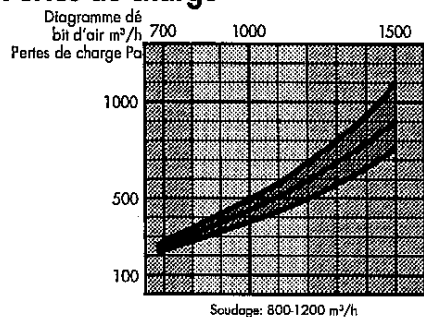


**Flex-Max 3540.**

**Flex-Max 4540**



## Pertes de charge



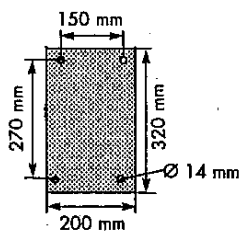
Les pertes de charge dans le PlymoVent dépendent des facteurs suivants:

1. Débit d'air.
2. Présence de l'éclairage à la buse ou non.
3. Positionnement du bras.
4. Longueur du bras.

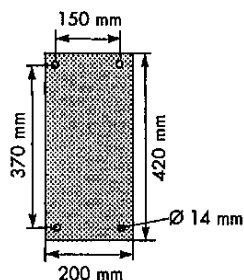
# Exemples de montage

## Plaques de fixation des FLEX-MAX

**FM-15, 25**



**FM-35, 45**

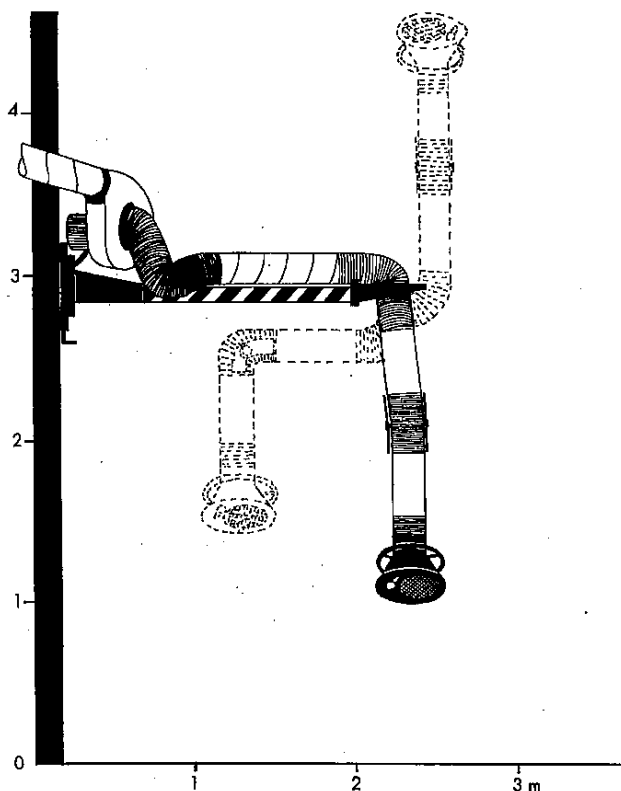


## Boulons recommandés

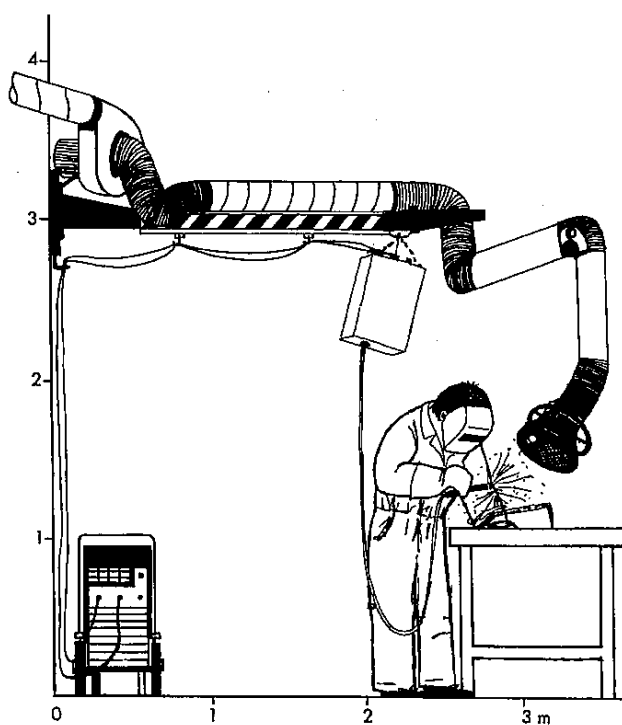
| Modèle                    | Charge maximale par boulon | Charge de sécurité |
|---------------------------|----------------------------|--------------------|
| FM-1520, FM-1530          | 300 kgf/boulon             | 900 kgf/boulon     |
| FM-2520, FM-2530          | 500 kgf/boulon             | 1500 kgf/boulon    |
| FM-1540, FM-2540, FM-3520 | 650 kgf/boulon             | 1950 kgf/boulon    |
| FM-3530, FM-3540, FM-4520 | 900 kgf/boulon             | 2700 kgf/boulon    |
| FM-4530, FM-4540          | 900 kgf/boulon             | 2700 kgf/boulon    |

(1 kgf ≈ 10 N)

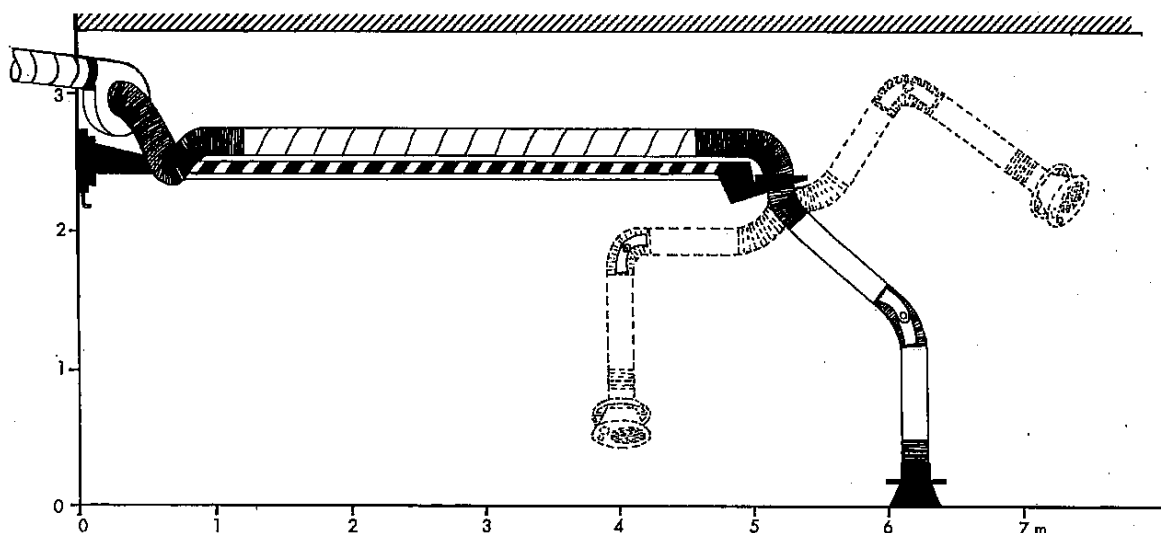
**FM-1530 monté sur pilier.**



**FM-2540 monté au mur.  
Dévidoir de soudage suspendu au bras intérieur.**



**FM-4530 monté à un plafond bas avec ventilateur indépendant modèle FUK.**



# PLYMOVENT®

## MONTAGEANVISNING MOUNTING INSTRUCTION MONTAGE ANLEITUNG INSTRUCTIONS DE MONTAGE

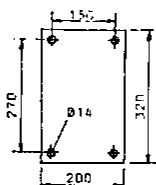
BSAB no: T0.31  
Ser.no: FM/MA  
Date: Jan -95  
Replace: Mars -92

FLEX-MAX

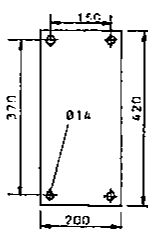
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Fästäplattor för Flex-Max  
Mounting plates for Flex-Max  
Befestigungsplatten für Flex-Max  
Supports pour Flex-Max

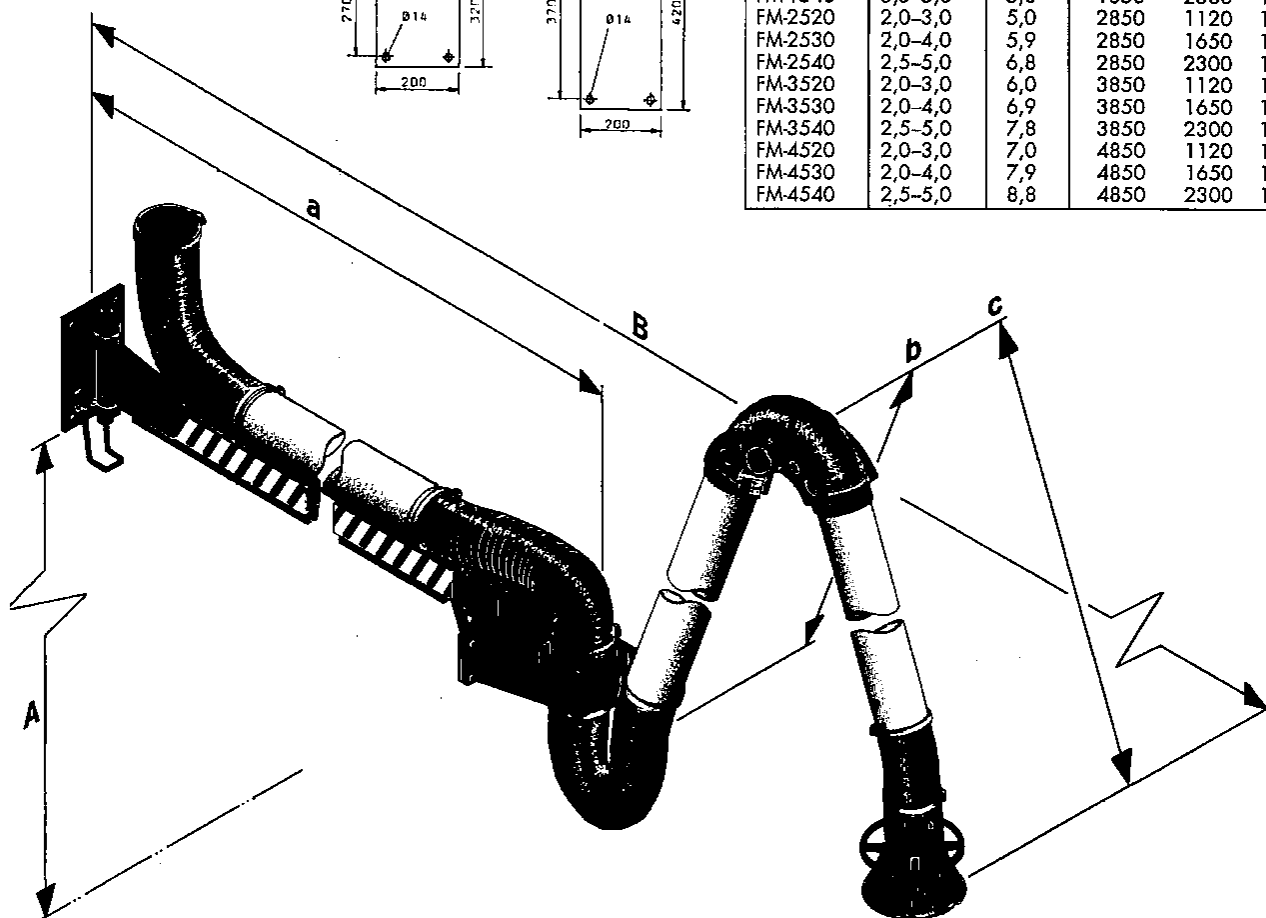
FM-1520, 1530, 1540,  
2520, 2530, 2540



FM-3520, 3530, 3540,  
4520, 4530, 4540



| FLEX-MAX<br>MODELL | A       | B   | a<br>mm | b<br>mm | c<br>mm |
|--------------------|---------|-----|---------|---------|---------|
| FM-1520            | 2,0-3,0 | 4,0 | 1850    | 1120    | 1070    |
| FM-1530            | 2,0-4,0 | 4,9 | 1850    | 1650    | 1520    |
| FM-1540            | 3,5-5,0 | 5,8 | 1850    | 2300    | 1870    |
| FM-2520            | 2,0-3,0 | 5,0 | 2850    | 1120    | 1070    |
| FM-2530            | 2,0-4,0 | 5,9 | 2850    | 1650    | 1520    |
| FM-2540            | 2,5-5,0 | 6,8 | 2850    | 2300    | 1870    |
| FM-3520            | 2,0-3,0 | 6,0 | 3850    | 1120    | 1070    |
| FM-3530            | 2,0-4,0 | 6,9 | 3850    | 1650    | 1520    |
| FM-3540            | 2,5-5,0 | 7,8 | 3850    | 2300    | 1870    |
| FM-4520            | 2,0-3,0 | 7,0 | 4850    | 1120    | 1070    |
| FM-4530            | 2,0-4,0 | 7,9 | 4850    | 1650    | 1520    |
| FM-4540            | 2,5-5,0 | 8,8 | 4850    | 2300    | 1870    |



| Modell<br>Model<br>Modell<br>Modèle  | Max. belastning/bult<br>Max. load/bolt<br>Max. Belastung/Schraube<br>Charge max. /boulon  | Säkerheten kräver<br>Safety requirement<br>Aus Sicherheitsgründen erforderlich<br>Charge de sécurité requise  |
|--|---|---|
| FM-1520, FM-1530<br>FM-2520, FM-2530<br>FM-1540, FM-2540, FM-3520<br>FM-3530, FM-3540, FM-4520<br>FM-4530, FM-4540 | 300kg/bult/Bolt/Schraube/boulon<br>500 kg/bult/Bolt/Schraube/boulon<br>650 kg/bult/Bolt/Schraube/boulon<br>900 kg/bult/Bolt/Schraube/boulon<br>900 kg/bult/Bolt/Schraube/boulon | 900kg/bult/Bolt/Schraube/boulon<br>1500 kg/bult/Bolt/Schraube/boulon<br>1950 kg/bult/Bolt/Schraube/boulon<br>2700 kg/bult/Bolt/Schraube/boulon<br>2700 kg/bult/Bolt/Schraube/boulon |

1. Montera fästplattan på vägg  
Bolt mounting bracket to wall  
Montieren Sie die Befestigungsplatte an der Wand  
Fixer le support au mur

Max 200 mm

2. Montera fläkten  
Mount the fan  
Montieren Sie den Ventilator  
Monter le ventilateur

3. Montera innerarmen  
Mount the support arm  
Montieren Sie den inneren Arm  
Monter la partie arrière du bras

4. Bulta ihop KUA-fästet och Flex-Max fästet  
Bolt together KUA bracket and Flex-Max bracket  
Montieren Sie die KUA-Halterung und Flex-Max-Halterung  
Visser le support KUA sur la fixation Flex-Max

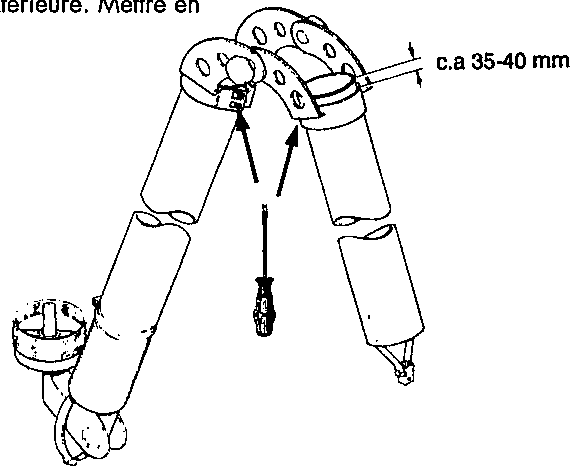
5. Bulta fast Flex-Max fästet till innerarmen  
Bolt Flex-Max bracket to support arm  
Schrauben Sie die Flex-Max-Halterung auf dem inneren Arm fest  
Visser le support sur la partie arrière du bras à l'aide des boulons

**6. Montera ihop innerarm, led, ytterarm och tätningring.**

Attach inner arm to outer arm by means of hinged joint and fit rubber collar to inner arm.

Inneren Arm, Gelenk und äusseren Arm verbinden und Dichtungsring montieren.

Relier le bras intérieur au bras extérieur grâce à l'articulation extérieure. Mettre en place la bague d'étanchéité en caoutchouc.



**7. Montera ihop innerarm och väggfäste. OBS! Brickan.**

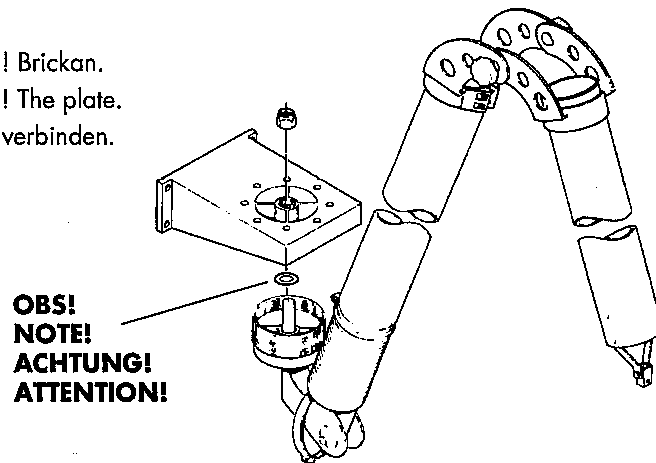
Mount arm to wall mounting bracket. NOTE! The plate.

Den inneren Arm mit der Wandbefestigung verbinden.

ACHTUNG! Die Scheibe.

Monter le bras intérieur sur la console.

ATTENTION! La plaque.

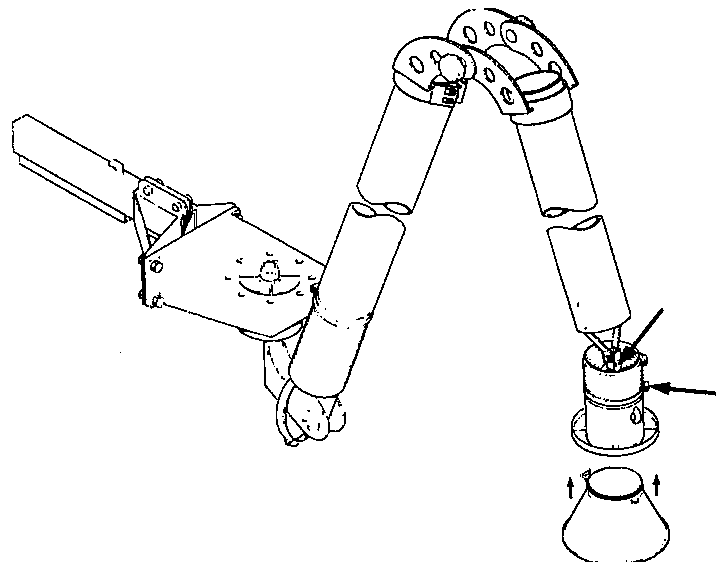


**8. Montera slang, klammer, trattfäste och tratt till ytterarmen (Slang 400 mm).**

Fit hose, jubilee clips, hood collar and hood to outer arm (Hose 400 mm).

Schlauch, Schlauchschellen, Trichterbefestigung und Trichter an den äusseren Arm montieren (Schlauch 400 mm).

Mettre en place la gaine flexible, les colliers, le support de buse et la buse à l'extrémité du bras extérieur (Gaine flexible de 400 mm).

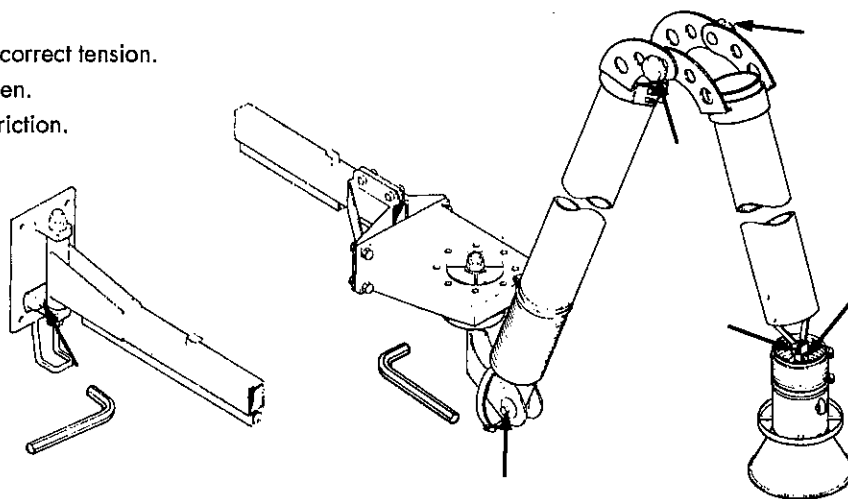


**9. Justera samtliga leder.**

Adjust all friction joints to correct tension.

Sämtliche Gelenke einstellen.

Régler les articulations à friction.

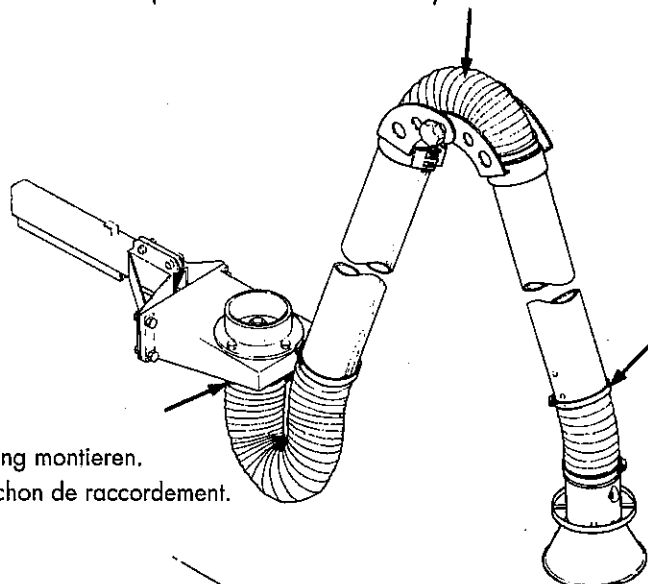


**10. Montera slangar och klammer (Slang 650 mm).**

Fit hoses and jubilee clips (Hose 650 mm).

Schläuche und Schlauchschellen fixieren und festziehen (Schlauch 650 mm).

Mettre en place les gaines flexibles et les colliers (Gaine flexible de 650 mm).

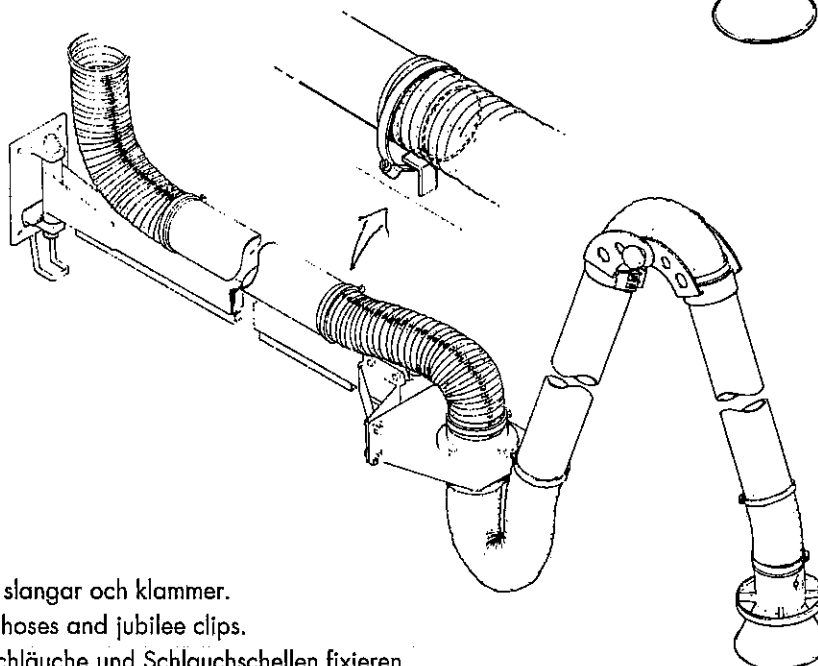


**11. Montera stös på väggfästet.**

Fit spigot to mounting bracket.

Rohrstutzen an der Wandbefestigung montieren.

Monter sur le support KUA le manchon de raccordement.



**12. Montera spirorör, slangar och klammer.**

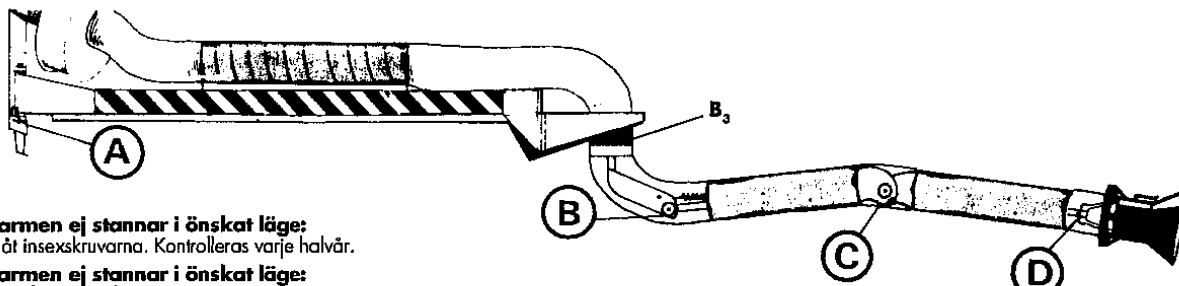
Fit rigid ductings, hoses and jubilee clips.

Wickelfalzrohr, Schläuche und Schlauchschellen fixieren und festziehen.

Mettre en place les gaines flexibles et les colliers.

FLEX-MAX

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**A. Om armen ej stannar i önskat läge:**

Drag åt insexskruvarna. Kontrolleras varje halvår.

**B. Om armen ej stannar i önskat läge:**

1. Lossa slangen vid B.
2. Dra ut utsuget i sin fulla längd och vinkla det vågrätt. Justera därefter till dess att armen har tendens att börja sjunka mot golvet. Drag ytterst lite och justeringen är klar.
3. Om inte armen stannar i exakt läge efter förflyttning sidledes, drag åt friktionsbromsen som sitter i väggfästet, använd insexnyckel.

**C. Om yttre armen ej stannar i önskat läge:**

1. Vinkla yttre armen vågrätt. Justera därefter till dess att armen har tendens att börja sjunka mot golvet, drag åt ytterst lite och justeringen är klar.

**D. Om tratten ej stannar i önskat läge:**

1. Lossa slangen vid D.
2. Justera friktionen enl. bild till dess att tratten stannar i exakt position.

**A. If the arm does not stay in the required position:**

Tighten the brakes in the two joints with an allen-key. Check once every six months.

**B. If the arm does not stay in the required position:**

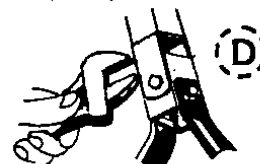
1. Loosen the hose at B.
2. Pull the extractor out to its full length and angle it horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.
3. If the arm is difficult to move sideways or moves on its own sideways, then adjustments must be made to the friction collar in the wall-mounting bracket. This is done by either loosening or tightening the grub screw.

**C. If the outer arm will not stay in the required position:**

1. Angle the outer arm horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.

**D. If the hood will not stay in the required position:**

1. Loosen the hose at D.
2. Adjust the friction (see picture) until the hood will stay in the exact position.



**A. Wenn der Arm nicht in der gewünschten Position stehen bleibt:**

Erhöhen Sie die Bremswirkung durch nachziehen der Imbus-Schrauben! Bremswirkung halbjährlich überprüfen!

**B. Wenn der Arm nicht in der gewünschten Position stehen bleibt:**

1. Lösen Sie den Schlauch bei B.
2. Ziehen Sie das Absauggerät zur vollen Länge aus und stellen dann das Gelenk ein, bis der Arm sich langsam senkt. Anschließend die Bremse leicht nachziehen.
3. Wenn der Arm nach einer seitlichen Bewegung nicht exakt in der gewünschten Position stehen bleibt, muß die Friktionsbremse an der Wandbefestigung nachgezogen werden. Imbus-Schlüssel verwenden.

**C. Wenn der äußere Arm nicht in der gewünschten Position stehen bleibt:**

1. Den äußeren Arm waagrecht stellen, dann das Gelenk so lange einstellen, bis der Arm sich langsam senkt. Anschliessend die Bremse kurz anziehen.

**D. Wenn der Trichter nicht in der gewünschten Position stehen bleibt:**

1. Lösen Sie den Schlauch bei D.
2. Stellen Sie die Friktion (s. Abbildung) nach, bis der Trichter exakt in der gewünschten Position stehen bleibt.

**A. Si le bras ne se maintient pas en position voulue:**

Resserrer les freins aux deux articulations à l'aide d'un clé Allen. Vérifier le fonctionnement du bras tous les six mois!

**B. Si le bras ne se maintient pas en position voulue:**

1. Dégager la gaine flexible en B.
2. Étirer l'extracteur au maximum et le mettre en position horizontale. Procéder ensuite au réglage jusqu'à ce que le bras commence à s'incliner lentement. Serrer très légèrement le frein; le réglage est maintenant terminé.
3. Régler le frein à friction.

**C. Si le bras extérieur ne se maintient pas en position voulue:**

1. Mettre le bras extérieur à l'horizontale. Procéder ensuite au réglage jusqu'à ce que le bras à s'incliner lentement. Serrer très légèrement l'articulation; le réglage est maintenant terminé.

**D. Si la buse ne se maintient pas en position voulue:**

1. Dégager la gaine flexible en D.
2. Régler le niveau de friction (voir croquis) de façon à ce que la buse se maintienne en position voulue.

## DESCRIPCIÓN TÉCNICA

### Flex-Max

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# Flex-Max

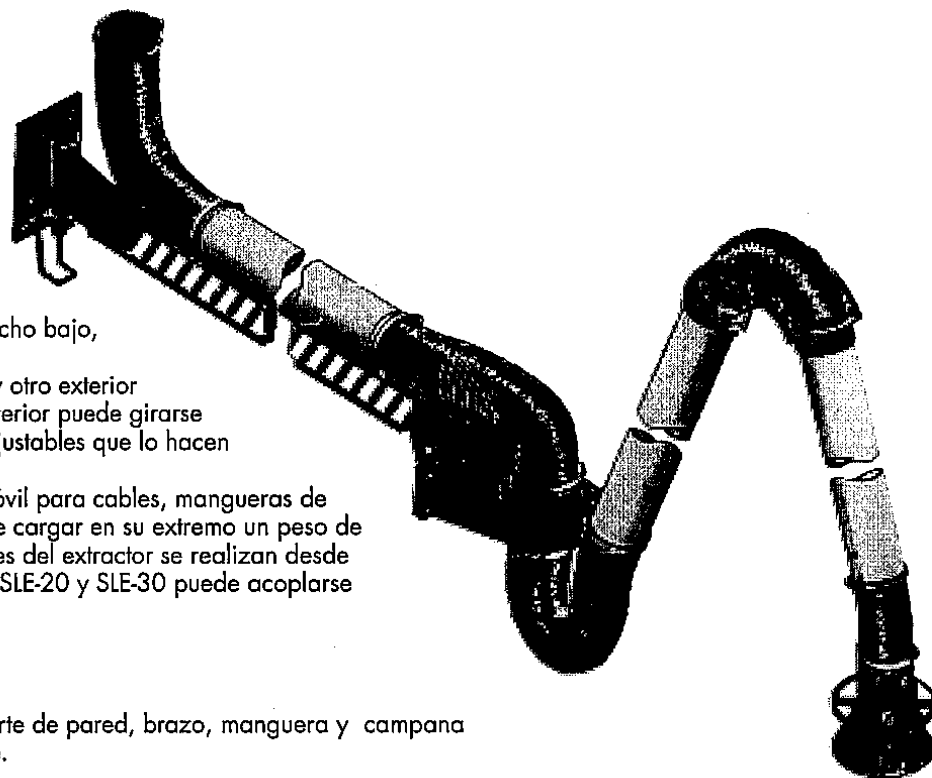
PlymoVent Flex-Max es el extractor perfecto cuando se requiere la máxima flexibilidad. El Flex-Max cubre toda el área de trabajo, con un radio de 4,0 hasta 8,8 m.

Su campana extractora tiene un alcance que va desde el piso hasta 8 m. de altura.

El Flex-Max resuelve los problemas de extracción en "sitios difíciles" y zonas con techo bajo, grandes alturas y distancias largas.

Está compuesto de dos brazos, uno interior y otro exterior montados en cojinetes de bolas. El brazo exterior puede girarse 360°, teniendo además tres articulaciones ajustables que lo hacen regulable en todo su alcance.

El brazo interior está provisto de un carril móvil para cables, mangueras de aire comprimido, soldaduras etc. pudiéndose cargar en su extremo un peso de hasta 50 kg. El manejo de todas las funciones del extractor se realizan desde la campana. El tubo de prolongación FSL-1, SLE-20 y SLE-30 puede acoplarse fácilmente al brazo del extractor.



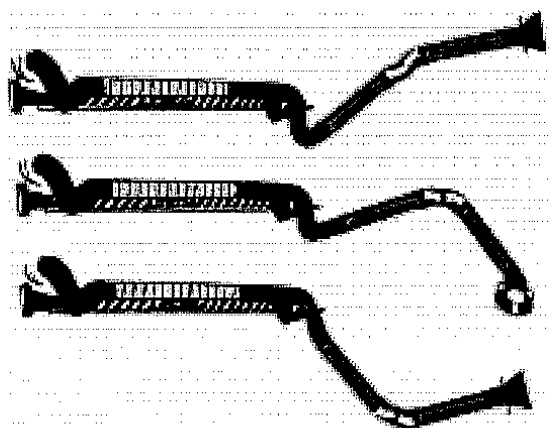
### Suministro

El Flex-Max se suministra completo con soporte de pared, brazo, manguera y campana con mariposa de regulación de paso de aire.

### Ventajas

- Ingeniosa construcción con dos suspensiones giratorias montadas en cojinetes de bolas y tres articulaciones ajustables, patentada por PlymoVent.
- Permite el máximo de flexibilidad dentro de una extensión de aprox. 9 m.
- Regulación sencilla y rápida.
- Se puede cargar el extremo del brazo interior con un máximo de 50 kg.
- Elección libre del lugar de montaje del brazo, en lo más alto o en lo más bajo de la pared.
- ¡Diseño elegante y alta calidad a un precio imbatible!

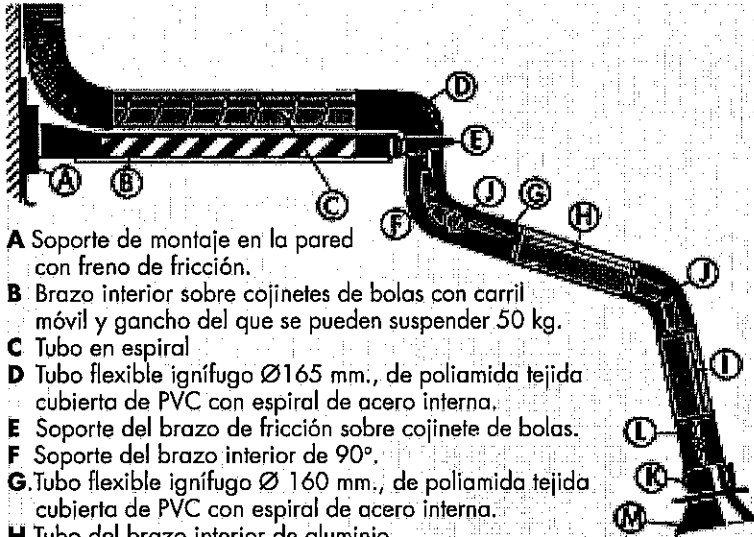
## Datos técnicos



| Modelo N°: | Radio de acción máx. m. | Peso total Kg. | Altura montaje Recom. | Flujo aire rec. ae la campana m³/hr | Diámetro de la mang. mm |
|------------|-------------------------|----------------|-----------------------|-------------------------------------|-------------------------|
| FM-1520    | 4,0                     | 46             | 2,0-3,0               | 800-1200                            | 160                     |
| FM-1530    | 4,9                     | 48             | 2,0-4,0               | 800-1200                            | 160                     |
| FM-1540    | 5,8                     | 50             | 2,5-5,0               | 800-1200                            | 160                     |
| FM-2520    | 5,0                     | 58             | 2,0-3,0               | 800-1200                            | 160                     |
| FM-2530    | 5,9                     | 60             | 2,0-4,0               | 800-1200                            | 160                     |
| FM-2540    | 6,8                     | 62             | 2,5-5,0               | 800-1200                            | 160                     |
| FM-3520    | 6,0                     | 79             | 2,0-3,0               | 800-1200                            | 160                     |
| FM-3530    | 6,9                     | 81             | 2,0-4,0               | 800-1200                            | 160                     |
| FM-3540    | 7,8                     | 83             | 2,5-5,0               | 800-1200                            | 160                     |
| FM-4520    | 7,0                     | 91             | 2,0-3,0               | 800-1200                            | 160                     |
| FM-4530    | 7,9                     | 93             | 2,0-4,0               | 800-1200                            | 160                     |
| FM-4540    | 8,8                     | 95             | 2,5-5,0               | 800-1200                            | 160                     |



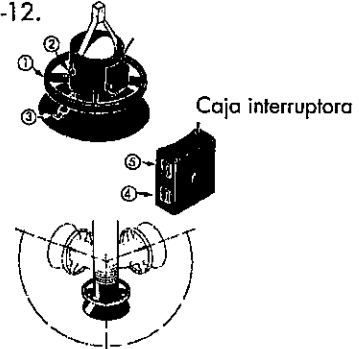
## Componentes y funcionamiento



- A** Soporte de montaje en la pared con freno de fricción.
- B** Brazo interior sobre cojinetes de bolas con carril móvil y gancho del que se pueden suspender 50 kg.
- C** Tubo en espiral
- D** Tubo flexible ignífugo Ø165 mm., de poliamida tejida cubierta de PVC con espiral de acero interna.
- E** Soporte del brazo de fricción sobre cojinete de bolas.
- F** Soporte del brazo interior de 90°.
- G** Tubo flexible ignífugo Ø 160 mm., de poliamida tejida cubierta de PVC con espiral de acero interna.
- H** Tubo del brazo interior de aluminio.
- I** Tubo del brazo exterior de aluminio.
- J** Articulación con cojinetes de fricción para regulación de la tensión del brazo. Tornillos de ajuste externos
- K** Dispositivo de sujeción de la campana con mariposa de cierre y junta universal.
- L** Tubo flexible ignífugo Ø 160 mm., de poliamida tejida cubierta de PVC con espiral de acero interna
- M** Campana de extracción Ø 300 mm. de óptimo diseño y conexión eléctrica. Se la puede proveer de una lámpara de trabajo de 20W.

### Manejo

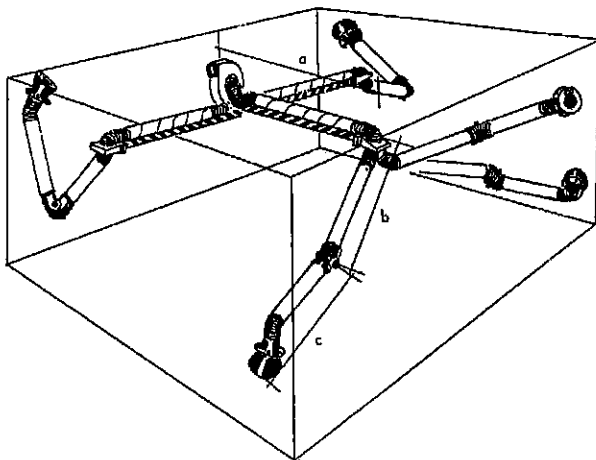
1. Asidero circular para posicionamiento de la campana. Se puede alcanzar desde cualquier ángulo.
2. Mando para reglaje de la mariposa.
3. Cerrojo excéntrico para reemplazo del tubo de prolongación de la campana.
4. Interruptor de la lámpara de trabajo; ver accesorio HL-20/24.
5. Interruptor de ARRANQUE/PARADA manual del ventilador o la mariposa; ver accesorio SA-24, ES-90 ó ASE-12.



### Funcionamiento de la campana

La campana de metal en esmalte anodizado puede girarse 110° horizontalmente en todas direcciones. Asidero grande en forma de anillo, Ø 300 mm.

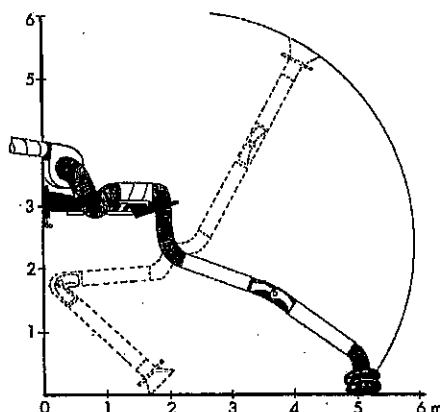
## Área de trabajo



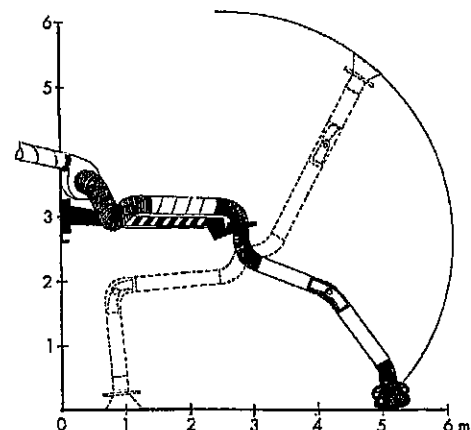
| Modelo N°: | a mm | b mm | c mm |
|------------|------|------|------|
| FM-1520    | 1850 | 1120 | 1070 |
| FM-1530    | 1850 | 1650 | 1520 |
| FM-1540    | 1850 | 2300 | 1870 |
| FM-2520    | 2850 | 1120 | 1070 |
| FM-2530    | 2850 | 1650 | 1520 |
| FM-2540    | 2850 | 2300 | 1870 |
| FM-3520    | 3850 | 1120 | 1070 |
| FM-3530    | 3850 | 1650 | 1520 |
| FM-3540    | 3850 | 2300 | 1870 |
| FM-4520    | 4850 | 1120 | 1070 |
| FM-4530    | 4850 | 1650 | 1520 |
| FM-4540    | 4850 | 2300 | 1870 |

### Flex-Max 1540

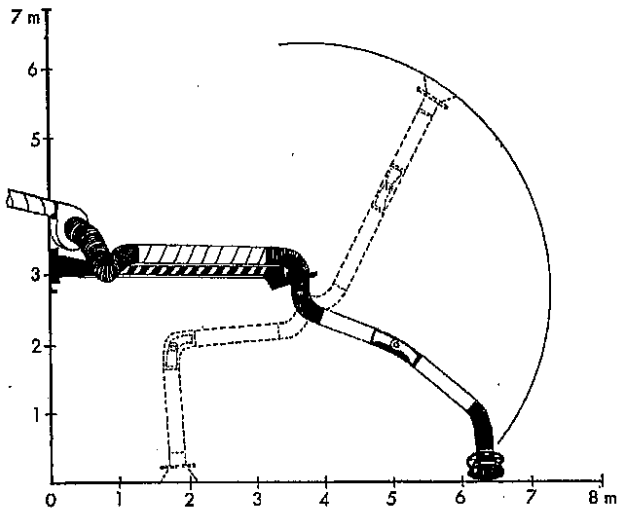
Altura de montaje recomendada 2,5-3,5 m.



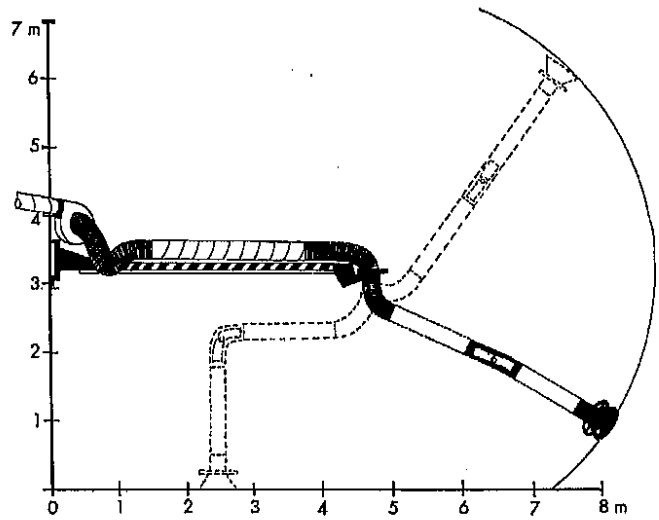
### Flex-Max 2540



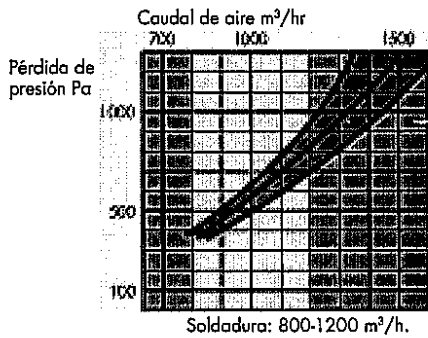
## Flex-Max 3540.



## Flex-Max 4540



## Diagrama de pérdida de presión

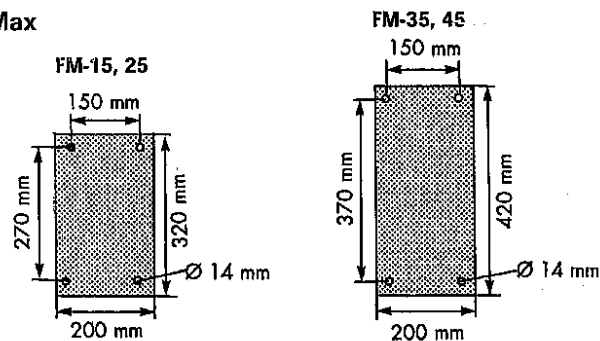


La pérdida de presión en los Flex-Max depende de los siguientes factores:

1. Caudal de aire
2. Campana con o sin lámpara de trabajo
3. Posición del brazo
4. Longitud del brazo

## Ejemplos de montaje

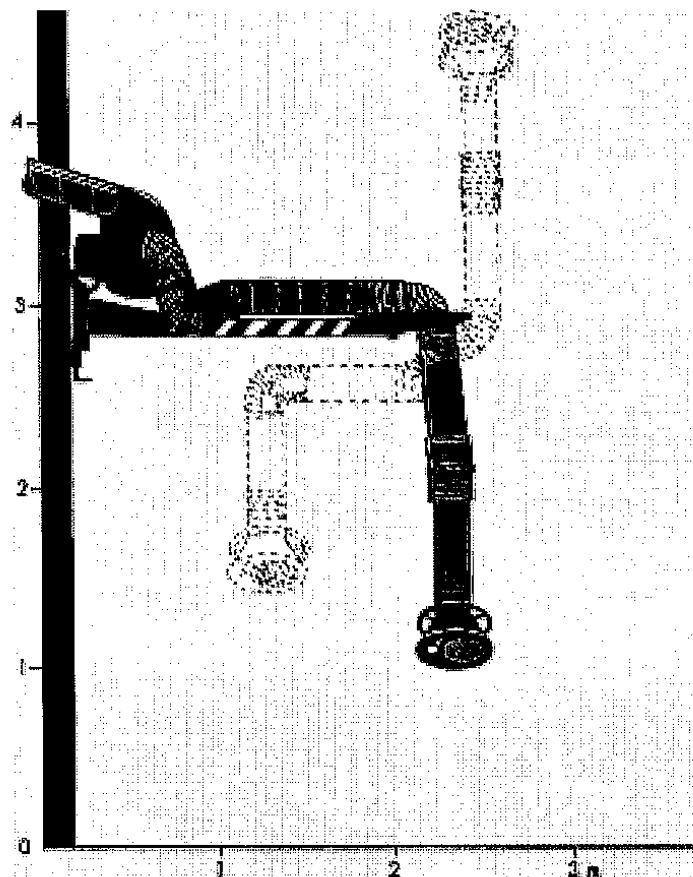
### Consola de montaje del Flex-Max



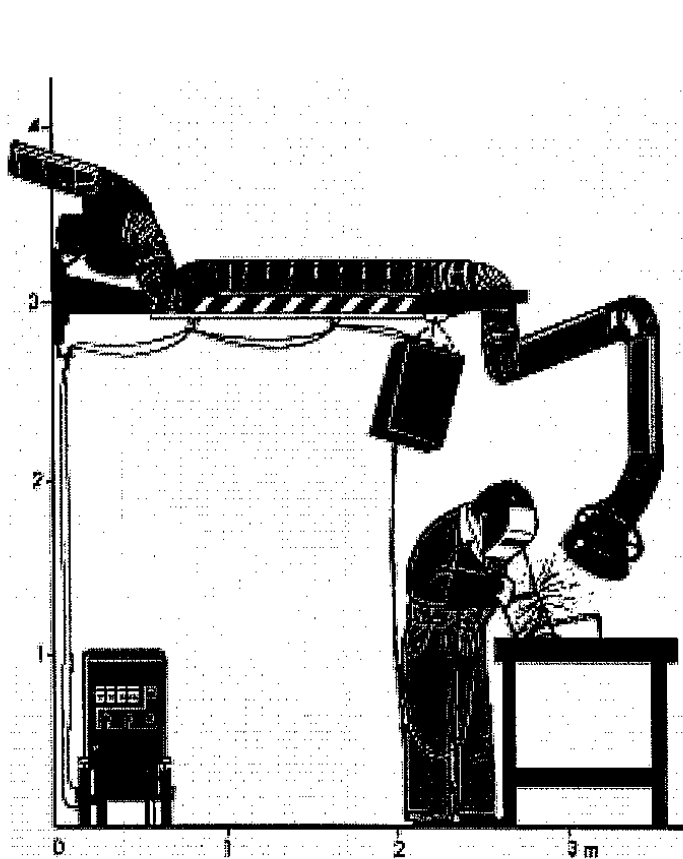
### Bulones recomendados

| Modelo N°:                | Carga máx/bulón               | La seguridad exige |
|---------------------------|-------------------------------|--------------------|
| FM-1520, FM-1530          | 300 kp/bulón                  | 900 kp/bulón       |
| FM-2520, FM-2530          | 500 kp/bulón                  | 1500 kp/bulón      |
| FM-1540, FM-2540, FM-3520 | 650 kp/bulón                  | 1950 kp/bulón      |
| FM-3530, FM-3540, FM-4520 | 900 kp/bulón                  | 2700 kp/bulón      |
| FM-4530, FM-4540          | 900 kp/bulón<br>(1 kp ≈ 10 N) | 2700 kp/bulón      |

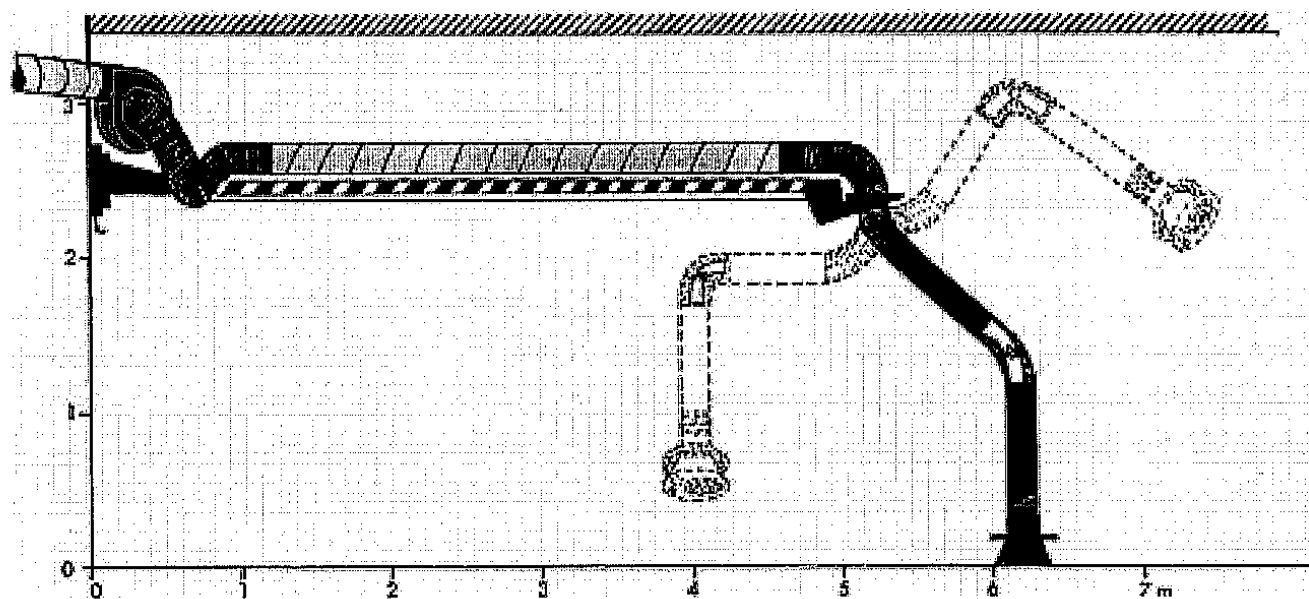
FM-1530 montado en un pilar.



FM-2540 montado en la pared.  
La soldadura está suspendida del brazo interior.



FM-4530 montado en local con techo bajo y ventilador individual modelo FUK.



## INSTRUCCIONES DE MONTAJE

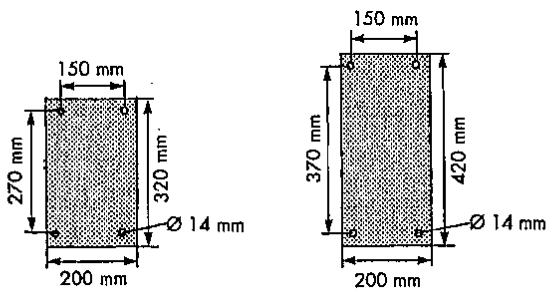
### FLEX-MAX

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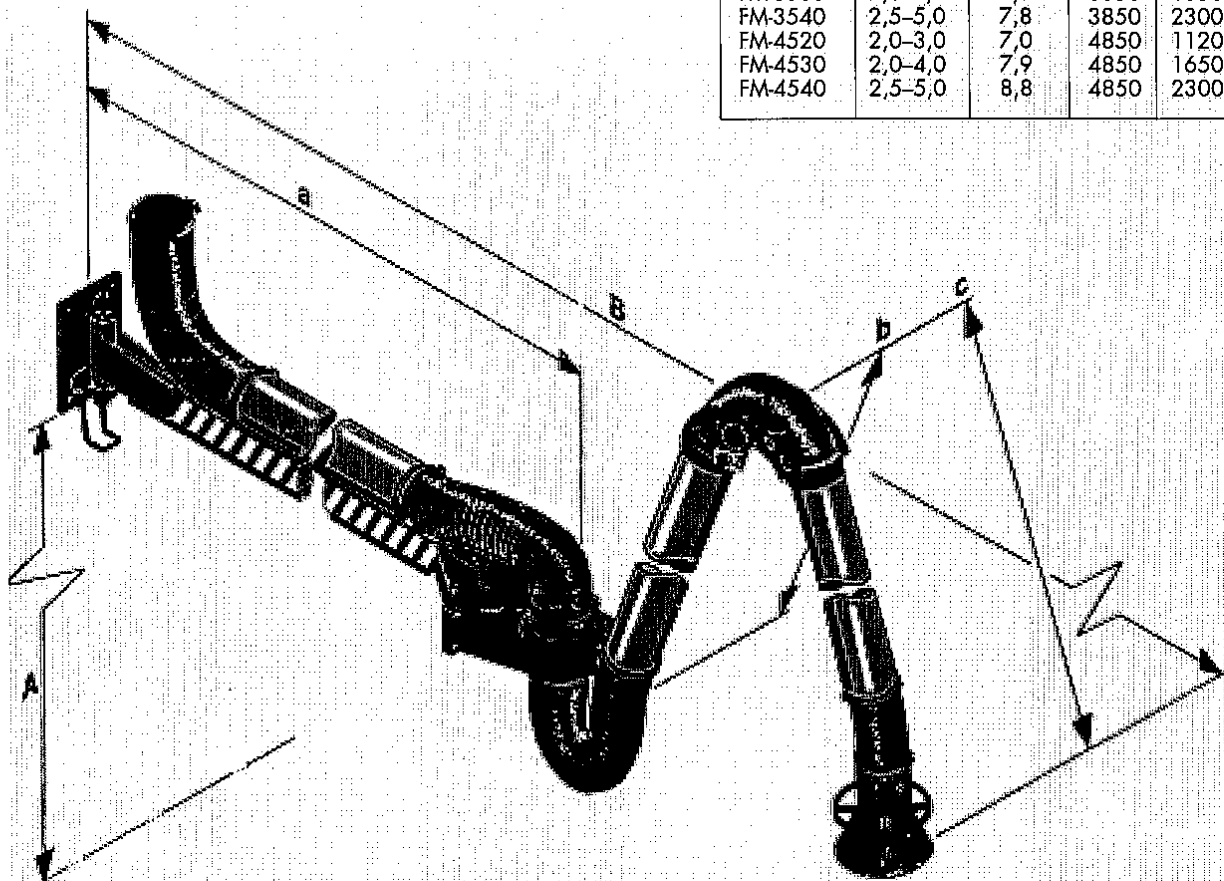
### Consola de montaje

FM-1520, 1530, 1540,  
2520, 2530, 2540

FM-3520, 3530, 3540,  
4520, 4530, 4540

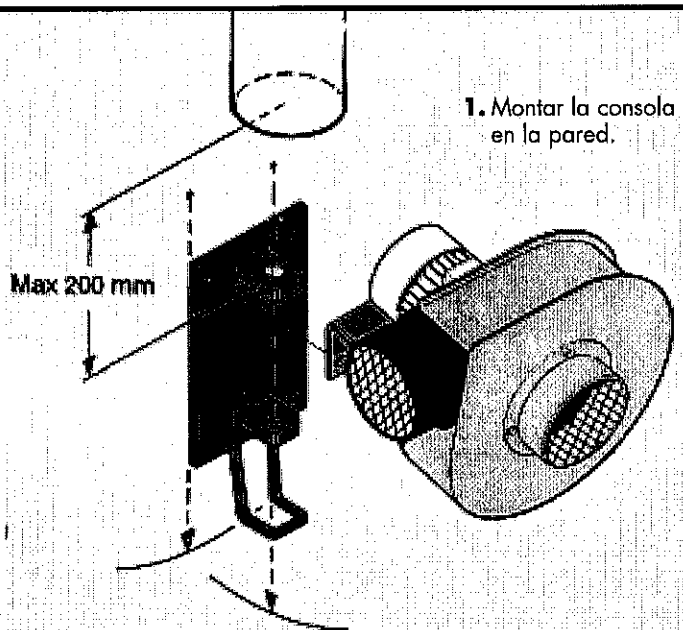


| FLEX-MAX<br>Modelo N° | A       | B   | a<br>mm | b<br>mm | c<br>mm |
|-----------------------|---------|-----|---------|---------|---------|
| FM-1520               | 2,0-3,0 | 4,0 | 1850    | 1120    | 1070    |
| FM-1530               | 2,0-4,0 | 4,9 | 1850    | 1650    | 1520    |
| FM-1540               | 3,5-5,0 | 5,8 | 1850    | 2300    | 1870    |
| FM-2520               | 2,0-3,0 | 5,0 | 2850    | 1120    | 1070    |
| FM-2530               | 2,0-4,0 | 5,9 | 2850    | 1650    | 1520    |
| FM-2540               | 2,5-5,0 | 6,8 | 2850    | 2300    | 1870    |
| FM-3520               | 2,0-3,0 | 6,0 | 3850    | 1120    | 1070    |
| FM-3530               | 2,0-4,0 | 6,9 | 3850    | 1650    | 1520    |
| FM-3540               | 2,5-5,0 | 7,8 | 3850    | 2300    | 1870    |
| FM-4520               | 2,0-3,0 | 7,0 | 4850    | 1120    | 1070    |
| FM-4530               | 2,0-4,0 | 7,9 | 4850    | 1650    | 1520    |
| FM-4540               | 2,5-5,0 | 8,8 | 4850    | 2300    | 1870    |



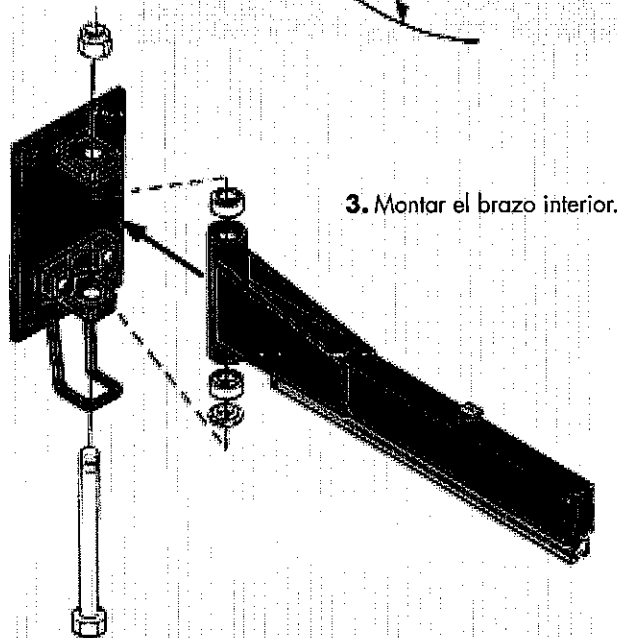
| Modelo N°:                | Carga máx/tornillo | Se exige por seguridad |
|---------------------------|--------------------|------------------------|
| FM-1520, FM-1530          | 300kg/Bolt         | 900kg/Bolt             |
| FM-2520, FM-2530          | 500 kg/Bolt        | 1500 kg/Bolt           |
| FM-1540, FM-2540, FM-3520 | 650 kg/Bolt        | 1950 kg/Bolt           |
| FM-3530, FM-3540, FM-4520 | 900 kg/Bolt        | 2700 kg/Bolt           |
| FM-4530, FM-4540          | 900 kg/Bolt        | 2700 kg/Bolt           |

## Instrucciones de montaje



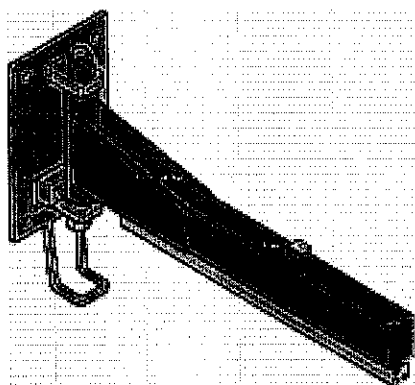
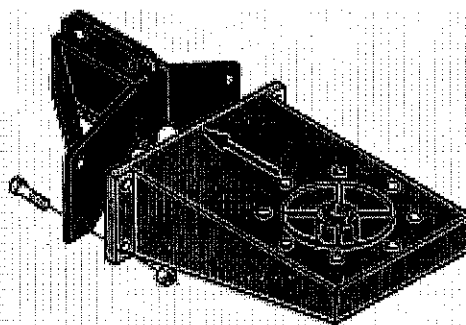
1. Montar la consola de montaje en la pared.

2. Montar el ventilador.

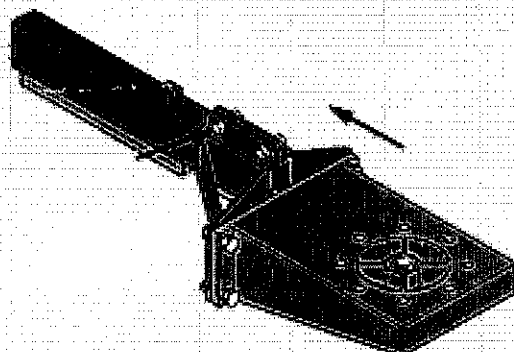


3. Montar el brazo interior.

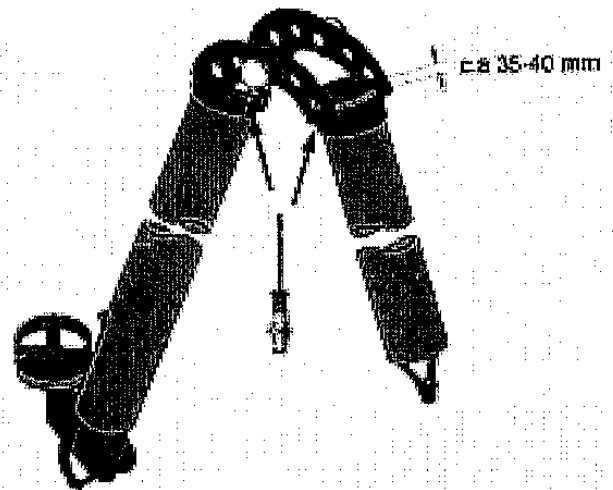
4. Atornillar el soporte del Flex-Max al soporte del KUA.



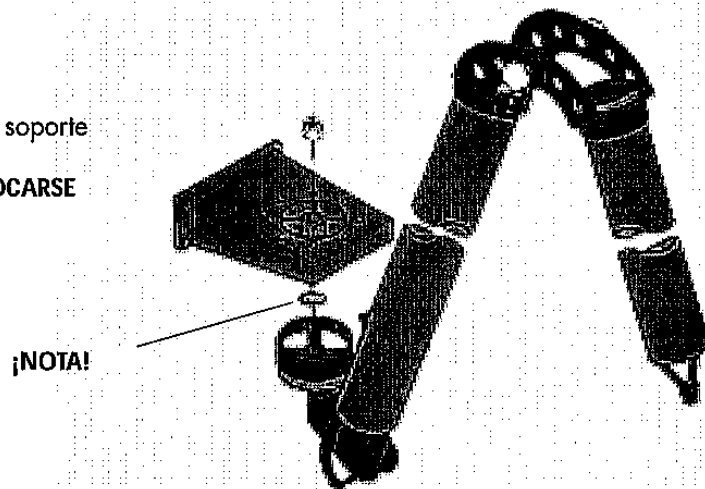
5. Atornillar luego el soporte del Flex-Max al brazo interior.



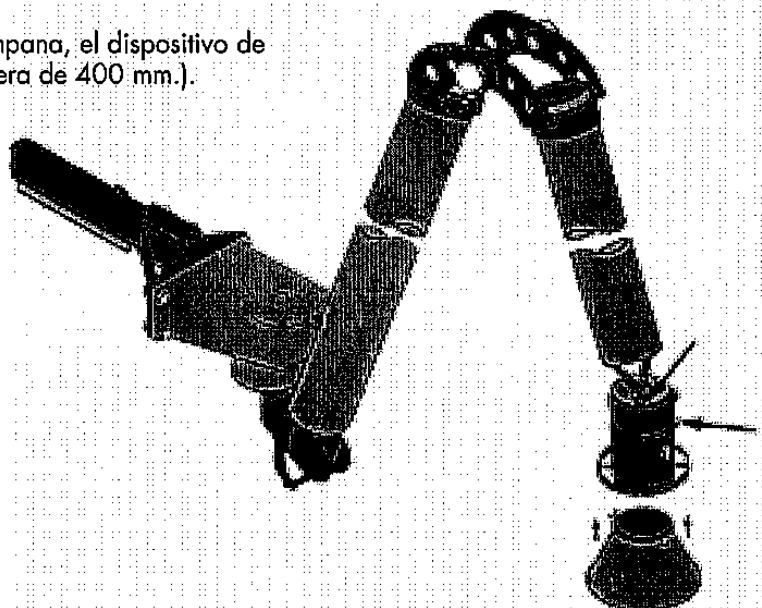
- 6.** Ensamblar el brazo interior, la articulación y la empaquetadura.



- 7.** Ensamblar el brazo interior y soporte de pared.  
**¡NOTA! LA ARANDELA DEBE COLOCARSE ENTRE LA BRIDA Y EL BRAZO.**

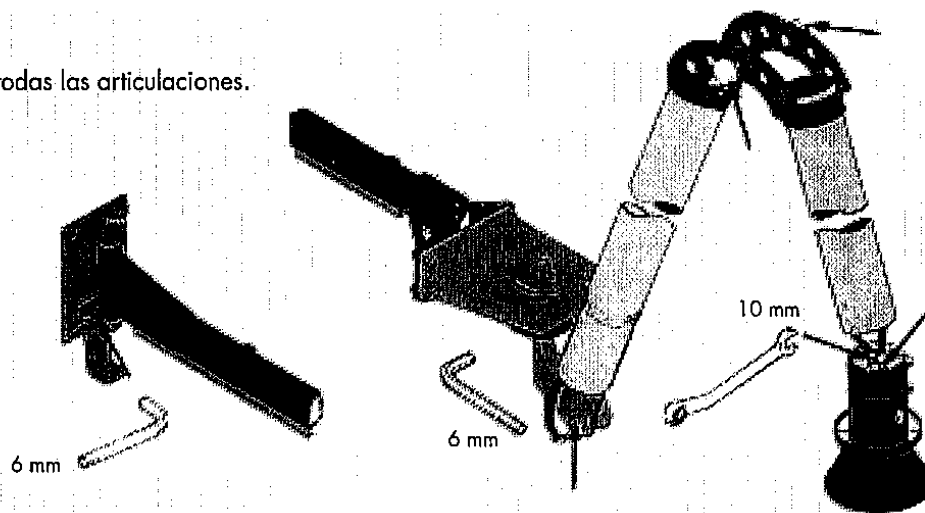


- 8.** Montar la manguera, las abrazadera, la campana, el dispositivo de ajuste de la misma al brazo exterior (Manguera de 400 mm.).

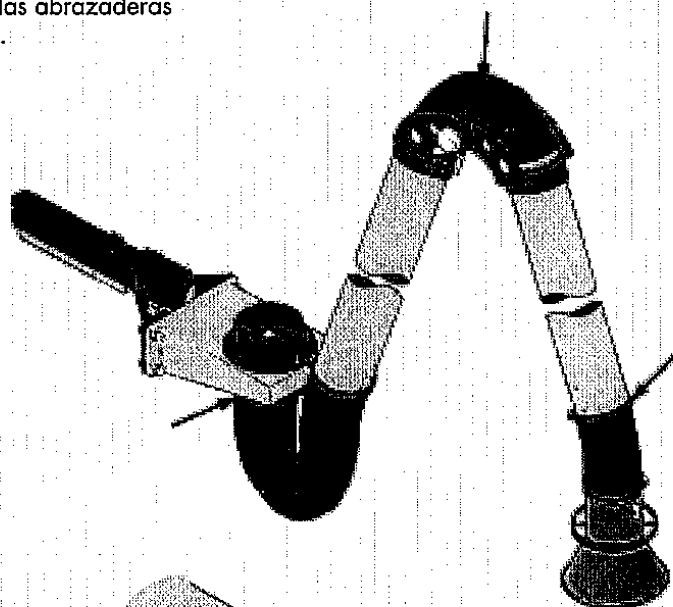




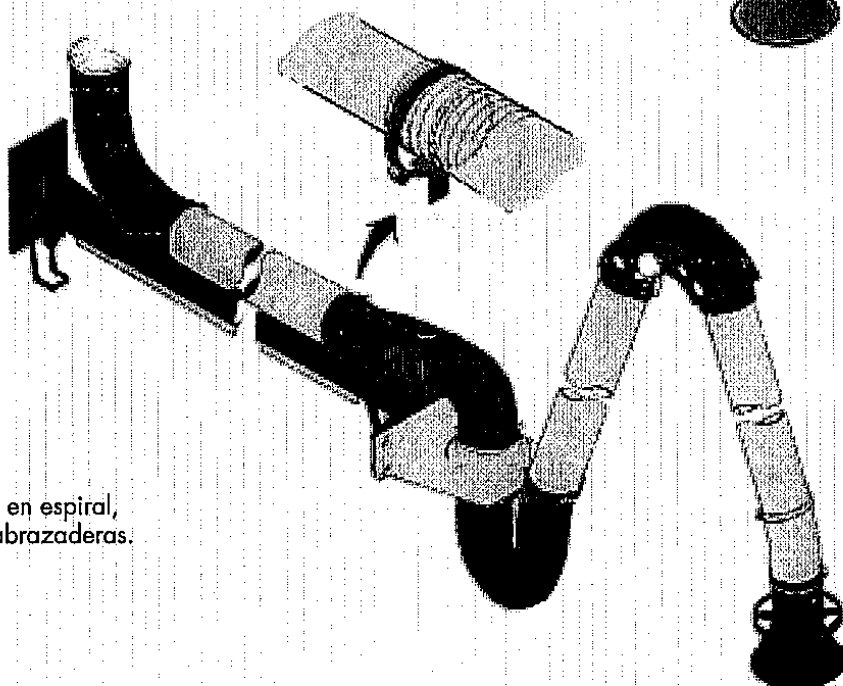
9. Ajustar todas las articulaciones.



10. Montar las mangueras y las abrazaderas  
(Manguera de 650 mm.).



11. Montar el manguito en  
el soporte de pared.

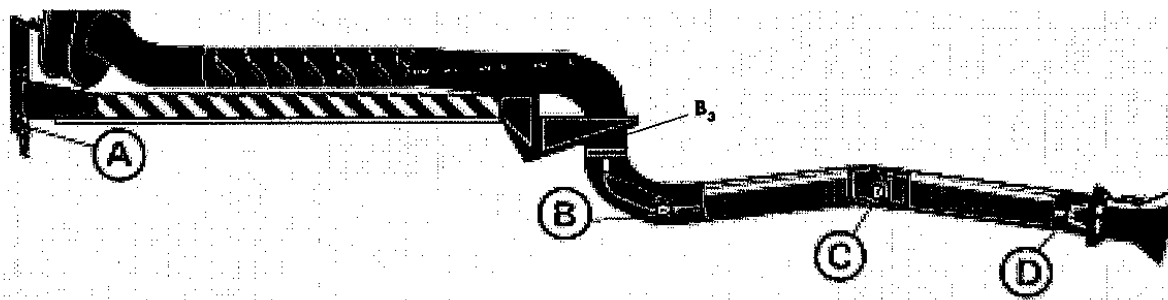


12. Montar el tubo en espiral,  
mangueras y abrazaderas.

## INSTRUCCIONES DE MANTENIMIENTO

### FLEX-MAX

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**A. Si el brazo no se detiene en la posición requerida:**

Ajustar los tornillos Allen. Se debe controlar cada seis meses.



**B. Si el brazo no se detiene en la posición requerida:**

1. Soltar la manguera en el punto B.
2. Extender el brazo del extractor en toda su extensión, colocándolo horizontalmente. Regular luego la fricción hasta que el brazo comience a caer hacia el piso, ajustando algo más, se logra un ajuste correcto.
3. Si el brazo no se detiene exactamente en el sitio requerido al ser trasladado lateralmente, ajustar el freno a fricción que se encuentra en el soporte de montaje en la pared, usar llaves Allen.

**C. Si el brazo exterior no se detiene en la posición requerida:**

1. Colocar el brazo exterior en posición horizontal. Regular luego la fricción hasta que el brazo comience a caer hacia el piso, ajustando algo más, se logra un ajuste correcto.

**D. Si la campana no se detiene en la posición requerida:**

1. Soltar la manguera en el punto D.
2. Ajustar la fricción según la figura, hasta que la campana se detenga en la posición requerida.



## DESCRIZIONE TECNICA

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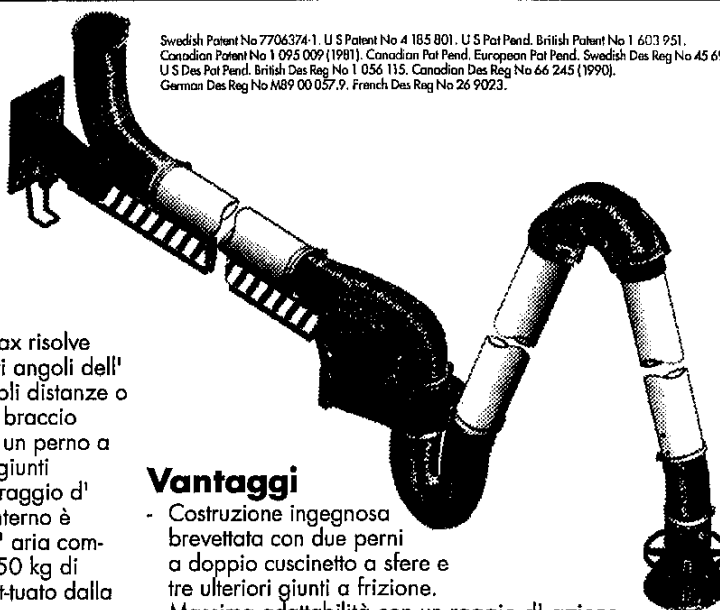
# Flex-Max

Il Flex-Max della PlymoVent è il braccio di aspirazione perfetto nelle situazioni che richiedono massima adattabilità. Con il braccio Flex-Max si può coprire l'intera area di lavoro. I vari modelli comprendono raggi di azione da 4 m fino a 8,8 m. La bocchetta si sposta dal piano pavimento fino a 4 m al di sopra del punto di installazione del braccio. Il Flex-Max risolve ogni problema quando c'è da raggiungere i più angusti angoli dell'officina, posizionarsi molto in basso, raggiungere notevoli distanze o lavorare su oggetti molto alti. Il FLEX-MAX consiste in un braccio interno ed uno esterno, entrambi i quali sono montati su un perno a doppio cuscinetto a sfere. Il braccio esterno, che ha tre giunti regolabili, consente la massima adattabilità entro il suo raggio d'azione e può essere ruotato per tutti i 360°. Il braccio interno è dotato di un binario cursore per sostegno di cavi, tubi d'aria compressa, alimentatori di filo etc. Essa può reggere fino a 50 kg di peso. Il posizionamento del braccio aspirante viene effettuato dalla cappetta. I tubi di prolunga FSL-1, SLE-20 e SLE-30 possono essere facilmente montati sul braccio aspirante.

### Fornitura

Il Flex-Max viene consegnato completo di supporto a parete, braccio, tubo flessibile e cappetta equipaggiata di serranda manuale.

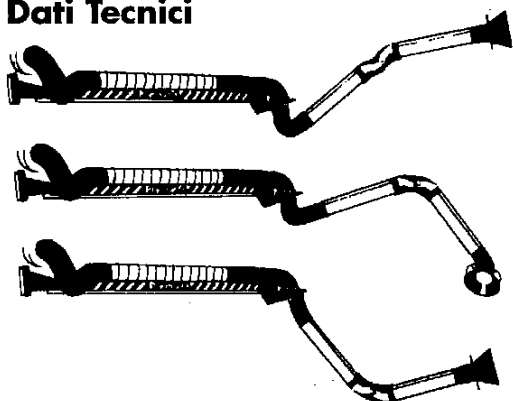
Swedish Patent No 7706374-1. U.S. Patent No 4 165 801. U.S. Pat. Pend. British Patent No 1 603 951. Canadian Patent No 1 095 039 (1981). Canadian Pat. Pend. European Pat. Pend. Swedish Des Reg No 45 692. U.S. Des. Pat. Pend. British Des Reg No 1 056 115. Canadian Des Reg No 66 245 (1990). German Des Reg No M89 00 057.9. French Des Reg No 26 9023.



### Vantaggi

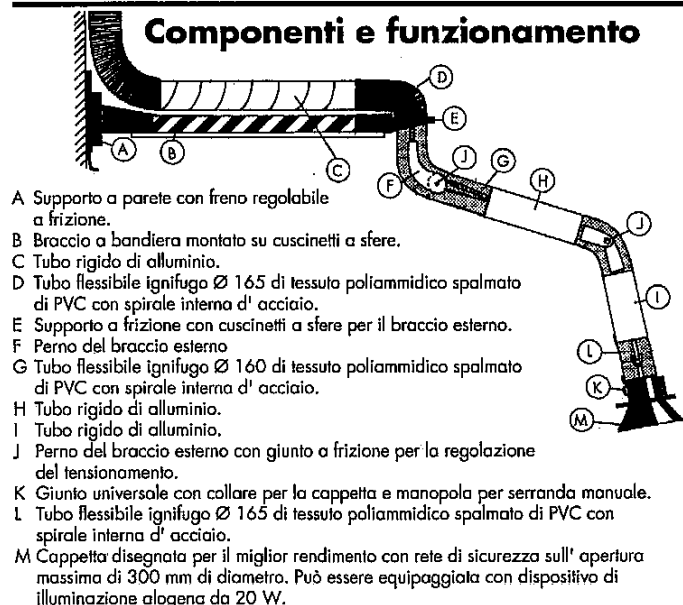
- Costruzione ingegnosa brevettata con due perni a doppio cuscinetto a sfere e tre ulteriori giunti a frizione.
- Massima adattabilità con un raggio d'azione di 0 - 9 m (in funzione della scelta del braccio).
- Facile e veloce da posizionare.
- Può sostenere fino a 50 kg sospesi al braccio interno.
- Si può scegliere dove montarlo, se alto o basso a parete.
- Disegno elegante ed elevata qualità a prezzo imbattibile!

### Dati Tecnici



| Modello n.° | Massimo raggio d'azione m | Peso totale kg | Altezza di montaggio suggerita m | Portata consigliata alla capp. mc/h | Diametro del tubo fless. mm |
|-------------|---------------------------|----------------|----------------------------------|-------------------------------------|-----------------------------|
| FM-1520     | 4,0                       | 46             | 2,0-3,0                          | 800-1200                            | 160                         |
| FM-1530     | 4,9                       | 48             | 2,0-4,0                          | 800-1200                            | 160                         |
| FM-1540     | 5,8                       | 50             | 2,5-5,0                          | 800-1200                            | 160                         |
| FM-2520     | 5,0                       | 58             | 2,0-3,0                          | 800-1200                            | 160                         |
| FM-2530     | 5,9                       | 60             | 2,0-4,0                          | 800-1200                            | 160                         |
| FM-2540     | 6,8                       | 62             | 2,5-5,0                          | 800-1200                            | 160                         |
| FM-3520     | 6,0                       | 79             | 2,0-3,0                          | 800-1200                            | 160                         |
| FM-3530     | 6,9                       | 81             | 2,0-4,0                          | 800-1200                            | 160                         |
| FM-3540     | 7,8                       | 83             | 2,5-5,0                          | 800-1200                            | 160                         |
| FM-4520     | 7,0                       | 91             | 2,0-3,0                          | 800-1200                            | 160                         |
| FM-4530     | 7,9                       | 93             | 2,0-4,0                          | 800-1200                            | 160                         |
| FM-4540     | 8,8                       | 95             | 2,5-5,0                          | 800-1200                            | 160                         |

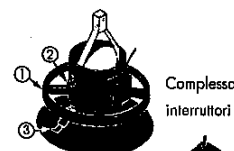
### Componenti e funzionamento



### Manovre

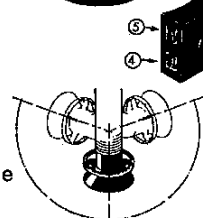
1. Impugnatura ad anello di 360° per il posizionamento della cappetta. Può essere afferrata da tutti i lati.
2. Manopola di comando della serranda.
3. Aggancio rapido per una facile sostituzione del tubo di prolunga e della cappetta.

4. Interruttore per il complesso di illuminazione (ved. accessorio HL-20/24)
5. Interruttore per l'avvio/arresto manuale del ventilatore o della serranda (ved. accessori SA-24, ES-90 o ASE-12).

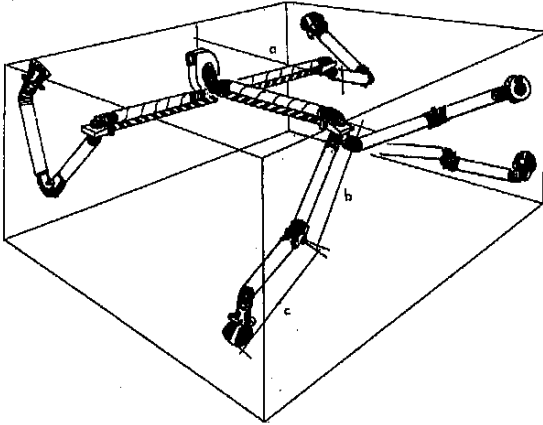


### Funzionamento della cappetta

La cappetta di metallo anodizzato verniciato nero può essere ruotata di 110° avanti, indietro e lateralmente. Grande impugnatura ad anello, 360°, Ø 300 mm.



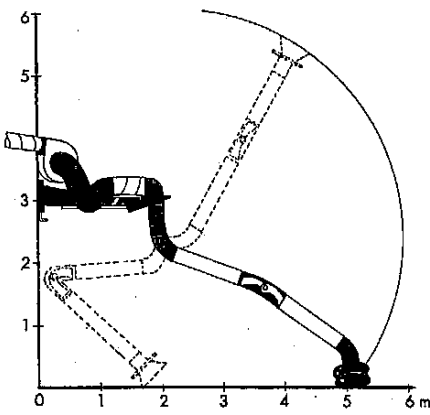
## Aree d' azione



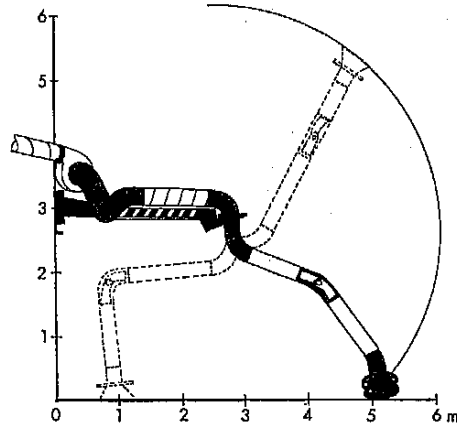
| Modello n.° | a mm | b mm | c mm |
|-------------|------|------|------|
| FM-1520     | 1850 | 1120 | 1070 |
| FM-1530     | 1850 | 1650 | 1520 |
| FM-1540     | 1850 | 2300 | 1870 |
| FM-2520     | 2850 | 1120 | 1070 |
| FM-2530     | 2850 | 1650 | 1520 |
| FM-2540     | 2850 | 2300 | 1870 |
| FM-3520     | 3850 | 1120 | 1070 |
| FM-3530     | 3850 | 1650 | 1520 |
| FM-3540     | 3850 | 2300 | 1870 |
| FM-4520     | 4850 | 1120 | 1070 |
| FM-4530     | 4850 | 1650 | 1520 |
| FM-4540     | 4850 | 2300 | 1870 |

### Flex-Max 1540

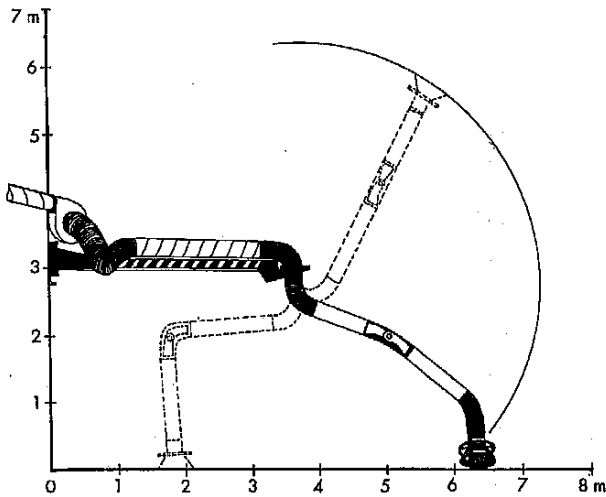
Altezza di montaggio raccomandata 2,5 - 3,0 m.



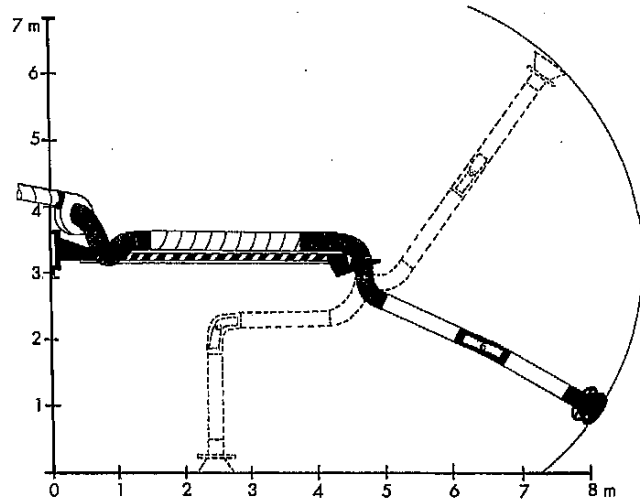
### Flex-Max 2540



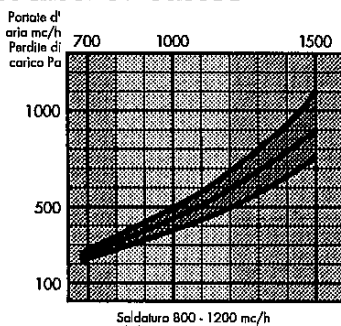
### Flex-Max 3540.



### Flex-Max 4540



## Perdita di carico

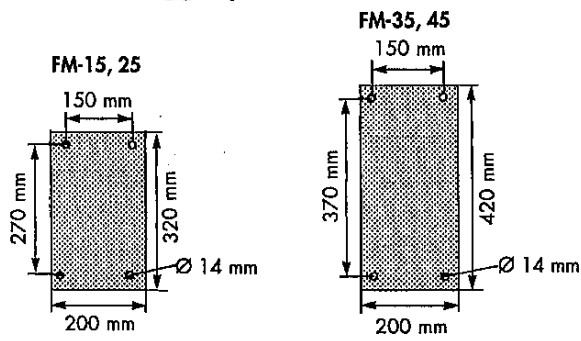


La perdita di carico nel Flex-Max della PlymoVent è influenzata da:

1. Volume d' aria.
2. Presenza o meno del complesso d' illuminazione nella capretta
3. Posizione del braccio.
4. Lunghezza del braccio.

# Esempi di Montaggio del Flex-Max

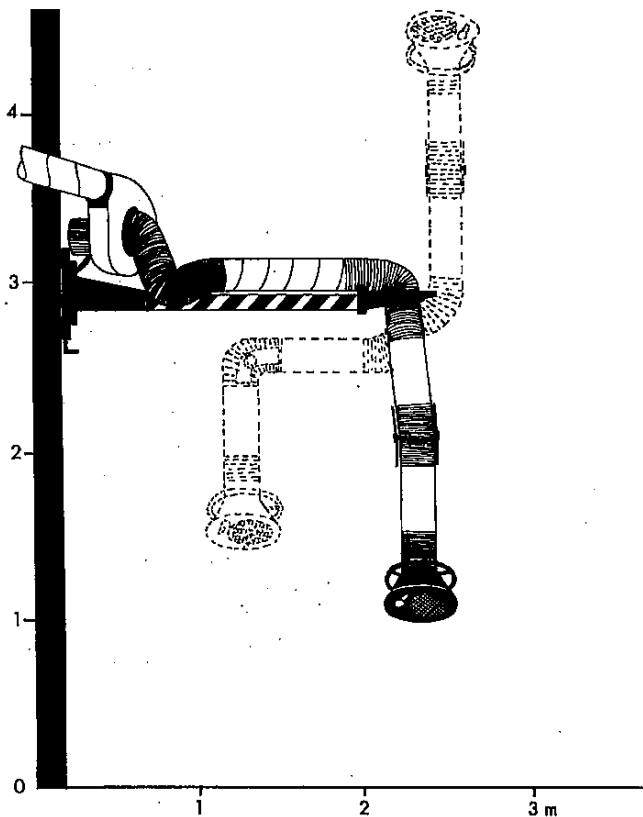
## Piastre di montaggio per il Flex-Max



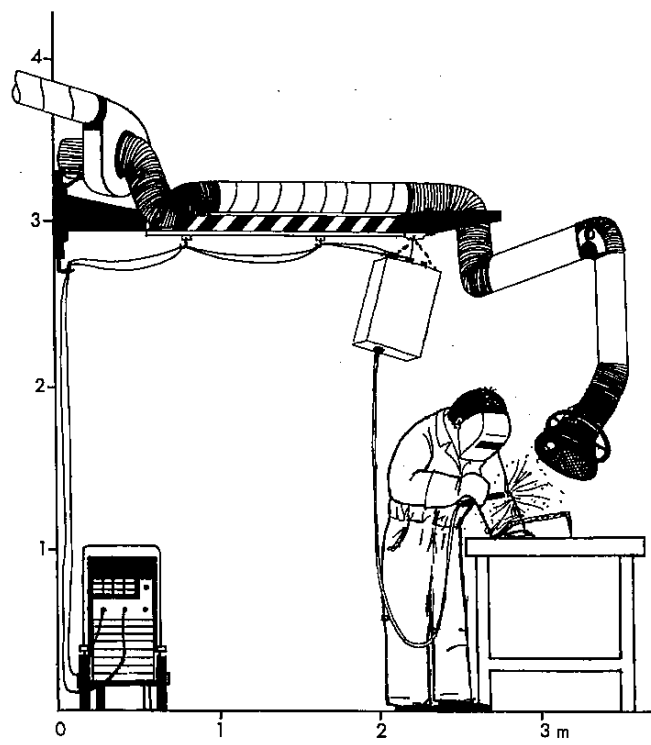
## Bulloni consigliati

| Modello                   | Sollecitazione max su ciascun bullone kg | Carico di sicurezza su ciascun bullone kg |
|---------------------------|--|---|
| FM-1520, FM-1530          | 300                                      | 900                                       |
| FM-2520, FM-2530          | 500                                      | 1500                                      |
| FM-1540, FM-2540, FM-3520 | 650                                      | 1950                                      |
| FM-3530, FM-3540, FM-4520 | 900                                      | 2700                                      |
| FM-4530, FM-4540          | 900                                      | 2700                                      |

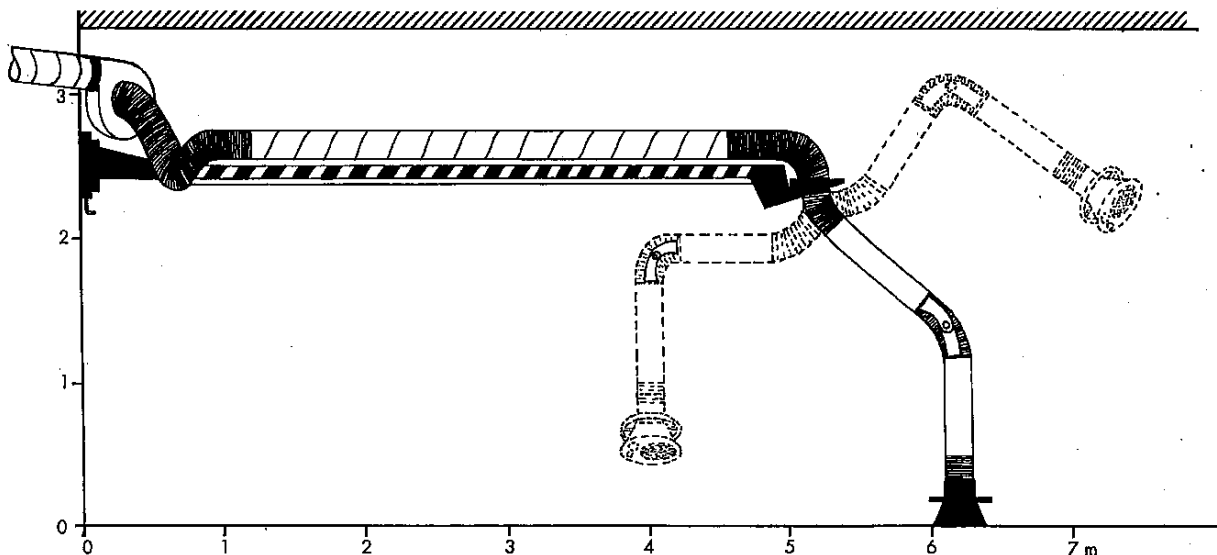
### FM-1530 montato a colonna



### FM-2540 montato a parete. Con utilizzo del binario cursore per il sostegno dell'alimentatore del filo di saldatura.



### FM-4530 montato in locali dal soffitto basso con ventilatore separato, modello FUK.



# ISTRUZIONI DI MONTAGGIO

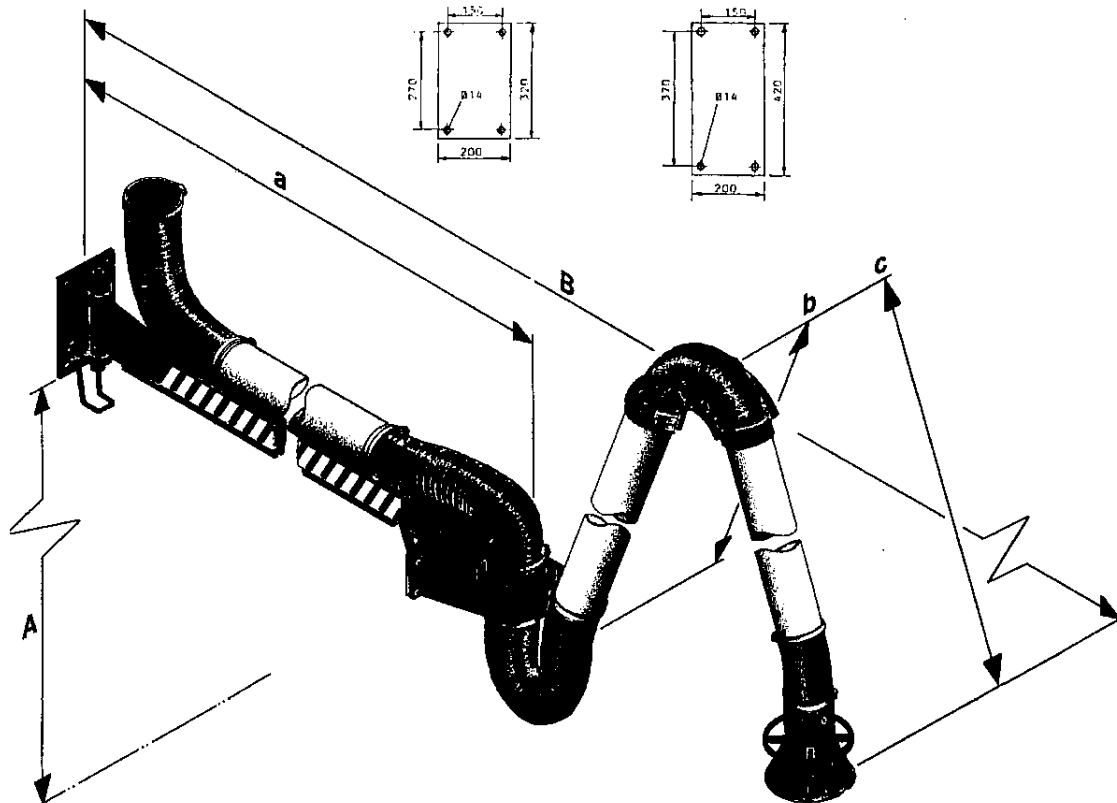
FLEX-MAX

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## PIASTRE DI MONTAGGIO PER IL FLEX-MAX

FM-1520, FM-1530 FM-1540  
FM-2520 FM-2530 FM-2540

FM-3520, FM-3530, FM-3540  
FM-4520, FM-4530, FM-4540



### Bulloni raccomandati

| Modello                   | Carico massimo su ciascun bullone | Carico di sicurezza richiesto |
|---------------------------|-----------------------------------|-------------------------------|
| FM-1520, FM-1530          | 30 N/cd                           | 90 N/cd                       |
| FM-2520, FM-2530          | 50 N/cd                           | 150 N/cd                      |
| FM-1540, FM-2540, FM-3520 | 65 N/cd                           | 195 N/cd                      |
| FM-3530, FM-3540, FM-4520 | 90 N/cd                           | 270 N/cd                      |
| FM-4530, FM-4540          | 90 N/cd                           | 270 N/cd                      |

| FLEX-MAX MODELLO | A       | B   | a mm | b mm | c mm |
|------------------|---------|-----|------|------|------|
| FM-1520          | 2,0-3,0 | 4,0 | 1850 | 1120 | 1070 |
| FM-1530          | 2,0-4,0 | 4,9 | 1850 | 1650 | 1520 |
| FM-1540          | 3,5-5,0 | 5,8 | 1850 | 2300 | 1870 |
| FM-2520          | 2,0-3,0 | 5,0 | 2850 | 1120 | 1070 |
| FM-2530          | 2,0-4,0 | 5,9 | 2850 | 1650 | 1520 |
| FM-2540          | 2,5-5,0 | 6,8 | 2850 | 2300 | 1870 |
| FM-3520          | 2,0-3,0 | 6,0 | 3850 | 1120 | 1070 |
| FM-3530          | 2,0-4,0 | 6,9 | 3850 | 1650 | 1520 |
| FM-3540          | 2,5-5,0 | 7,8 | 3850 | 2300 | 1870 |
| FM-4520          | 2,0-3,0 | 7,0 | 4850 | 1120 | 1070 |
| FM-4530          | 2,0-4,0 | 7,9 | 4850 | 1650 | 1520 |
| FM-4540          | 2,5-5,0 | 8,8 | 4850 | 2300 | 1870 |

(1kp 10N)

**1. Imbullonare la staffa di montaggio al muro**

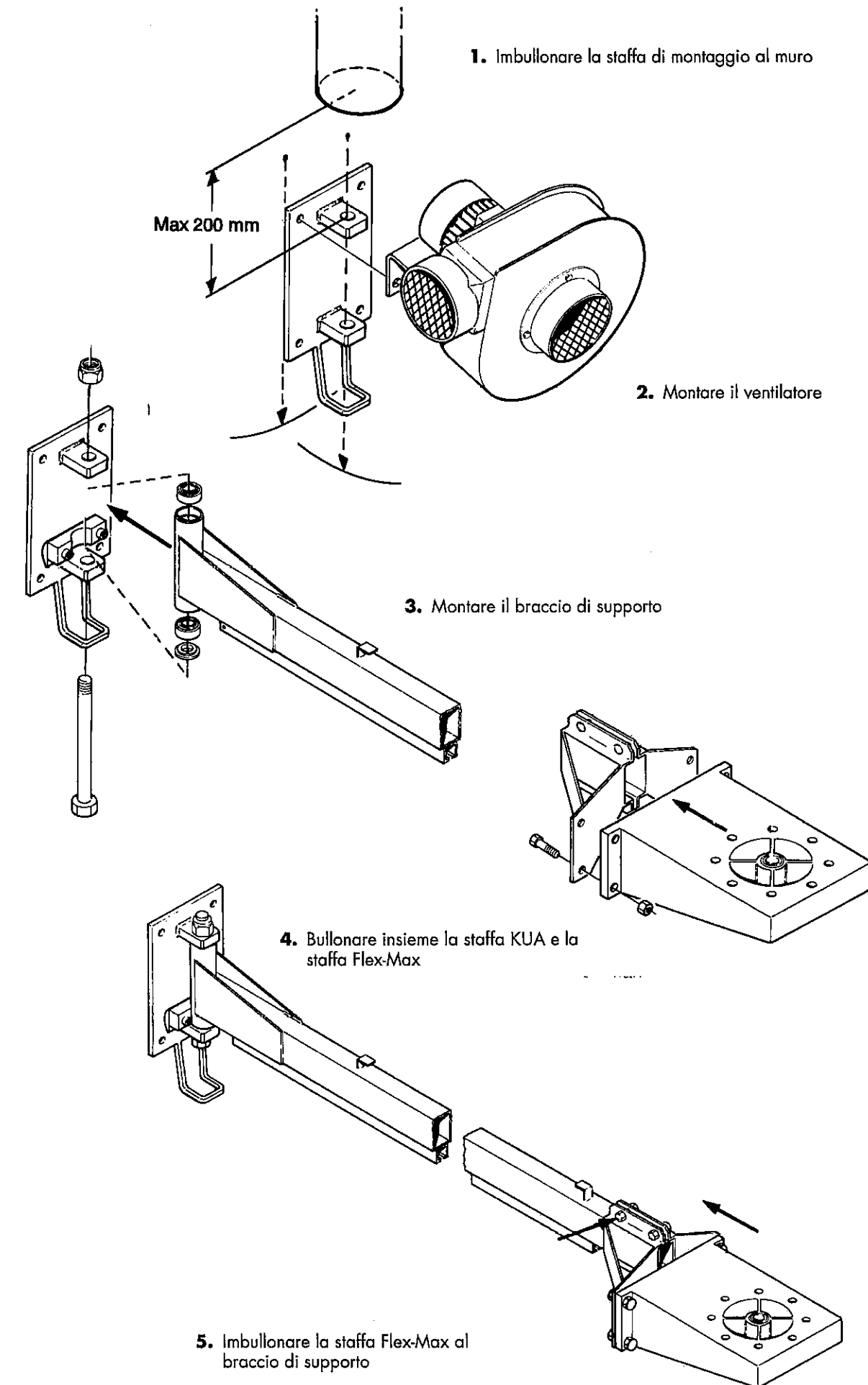
Max 200 mm

**2. Montare il ventilatore**

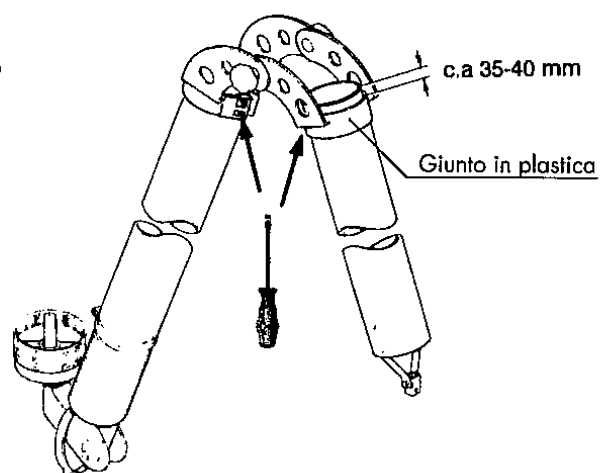
**3. Montare il braccio di supporto**

**4. Bullonare insieme la staffa KUA e la staffa Flex-Max**

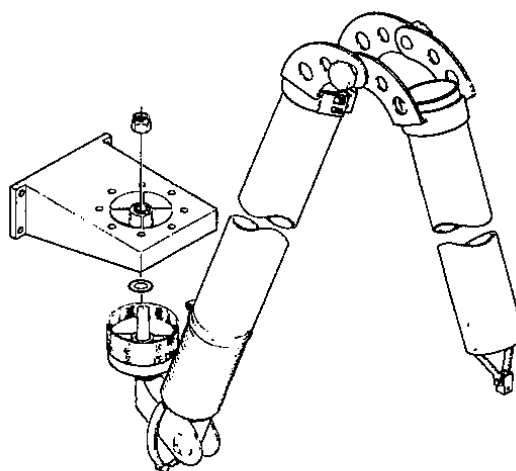
**5. Imbullonare la staffa Flex-Max al braccio di supporto**



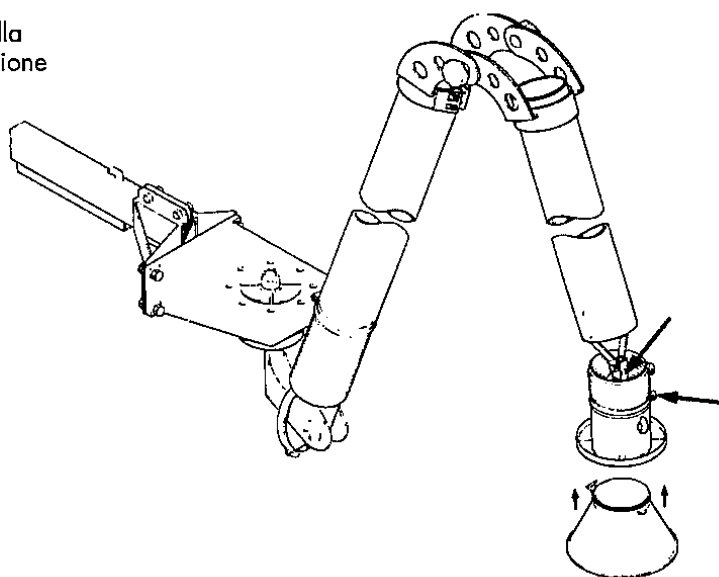
6. Collegare il braccio interno al braccio esterno per mezzo del giunto girevole e adattare il collare di gomma al braccio interno



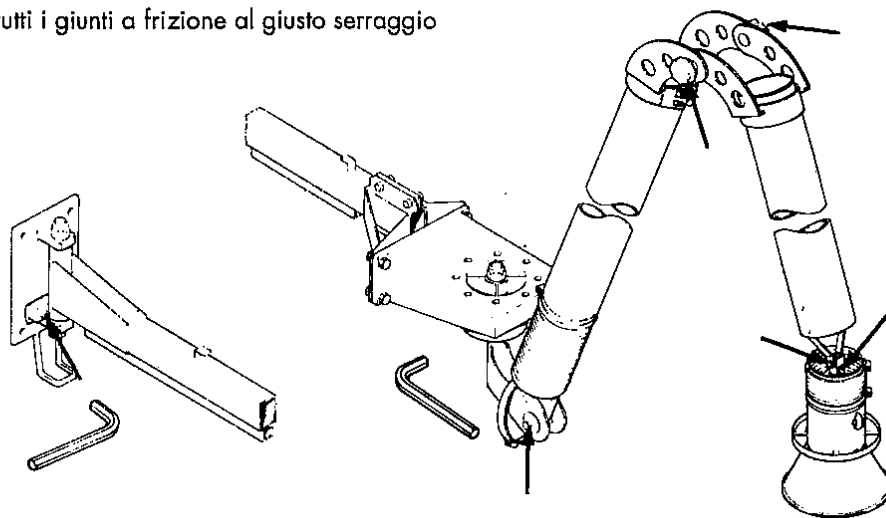
7. Montare il braccio sulla staffa di montaggio a parete  
ATTENZIONE => ranella



8. Montare il tubo flessibile, le fascette, il Collare della cappetta d' aspirazione e la Cappetta d' aspirazione sul braccio esterno (tubo Ø 400 mm)

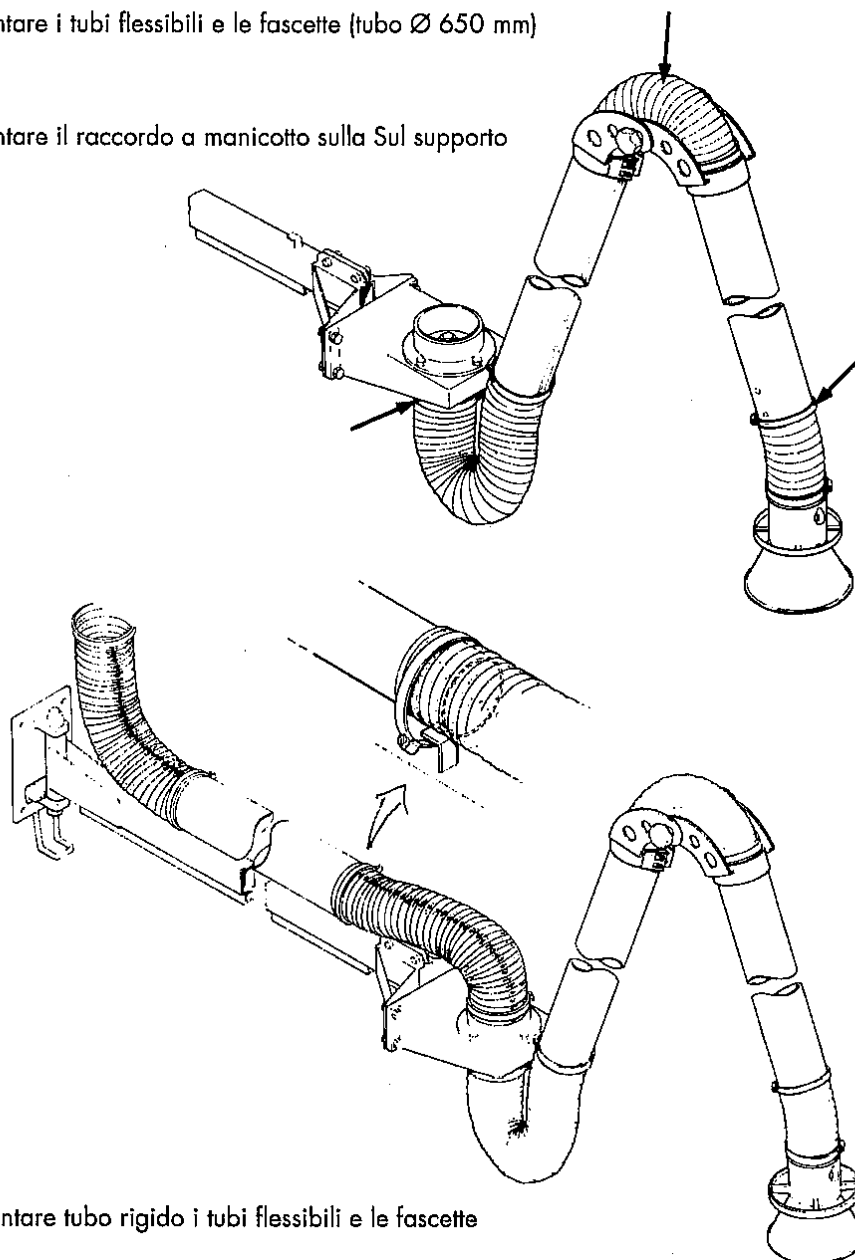


**9.** Registrare tutti i giunti a frizione al giusto serraggio



**10.** Montare i tubi flessibili e le fascette (tubo Ø 650 mm)

**11.** Montare il raccordo a manicotto sulla Sul supporto

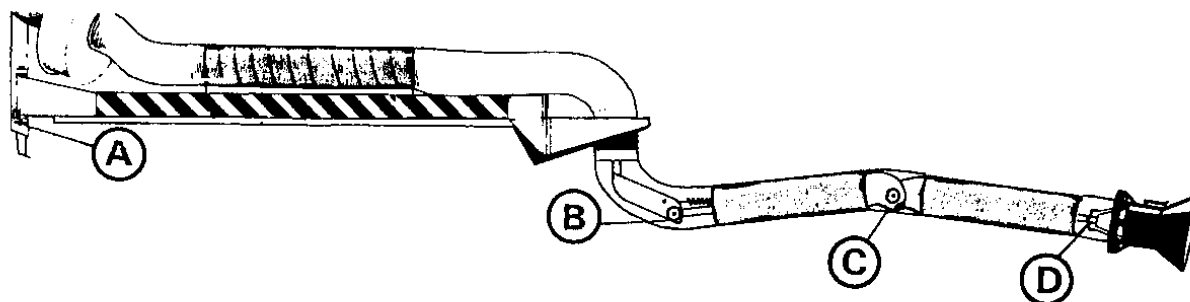


**12.** Montare tubo rigido i tubi flessibili e le fascette

# MANUALE DELL'UTILIZZATORE

FLEX-MAX

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**A Se il braccio non rimane nella posizione desiderata:**

Stringere i freni nei due giunti con una chiave Allen. Controllare ogni 6 mesi.

**B Se il braccio non rimane nella posizione desiderata:**

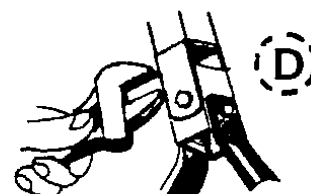
1. Allentare il tubo flessibile in B.
2. Estendere l' aspiratore per tutta la sua lunghezza in modo che si presenti orizzontalmente. Allentare il freno a frizione fino a che il braccio si abbassa verso il pavimento. Stringere finchè non si abbassa più.
3. Se il braccio ha difficoltà a muoversi lateralmente o si muove lateralmente per conto suo, occorre fare delle registrazioni al collare a frizione posto sul supporto a parete.

**C Se il braccio esterno non rimane nella posizione desiderata:**

1. Posizionare il braccio orizzontalmente. Allentare il freno a frizione fino a che il braccio scende verso il pavimento. Stringere fino a che non scende più.

**D Se la cappetta d' aspirazione non rimane nella posizione desiderata:**

1. Allentare il tubo flessibile in D.
2. Regolare la frizione (vedere illustrazione) fino a che la cappetta d' aspirazione resta nella posizione esatta.





## TEKNISK BESKRIVELSE

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# Flex-Max

PlymoVent Flex-Max er det perfekte punktudsug hvor der kræves maximal fleksibilitet. Med Flex-Max punktudsug dækkes hele arbejdsområdet. Arbejdsradius fra 4,0 til 8,8 m. Sugetragten når fra gulv og 8 m. op. Flex-Max løser problemet med punktudsug i trænge lokaler og lokaler med lav indbygningshøjde, svære vinkler, stor højde og lang afstand. Flex-Max består af inderarm og yderarm som begge er kuglelejeophængte. Yderarmen har desuden tre justerbare led, er trinløs indstilbar indenfor hele sin rækkevidde og kan vrides 360°. Inderarmen er udrustet med løbeskinne for ophængning af ledninger, trykluftsslanger, svejseværk m.m. og kan belastes med op til 50 kg længst ude. Manøvreringen af punktudsugets samtlige funktioner sker ved tragt. Forlænger-slange FSL-1, SLE-20 og SLE-30 kan enkelt tilsluttes armen.

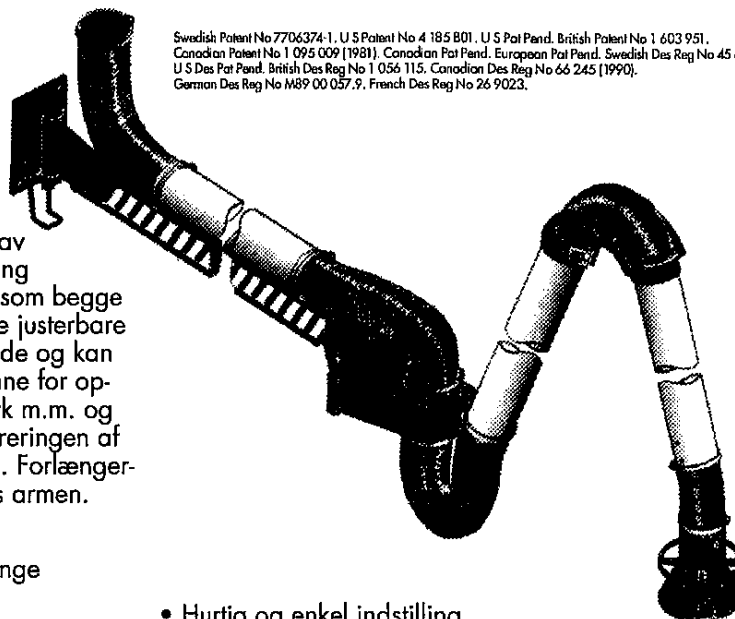
### Leveres

Flex-Max leveres komplet med vægfæste, arm, slange og tragt med spjæld.

### Fordele

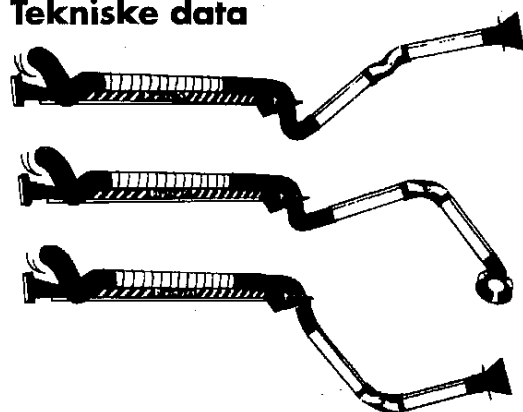
- Sindrig, patenteret konstruktion med to svingbare kugleleje ophæng og tre justerbare led.
- Maximal fleksibilitet indenfor rækkevidde mellem 0,0 og 8,8 m.

Swedish Patent No 7706374-1, U.S. Patent No 4 185 801, U.S. Pat. Pend., British Patent No 1 603 951, Canadian Patent No 1 095 009 (1981), Canadian Pat. Pend., European Pat. Pend., Swedish Des. Reg. No 45 692, U.S. Des. Pat. Pend., British Des. Reg. No 1 056 115, Canadian Des. Reg. No 66 245 (1990), German Des. Reg. No M89 00 057-9, French Des. Reg. No 26 9023.



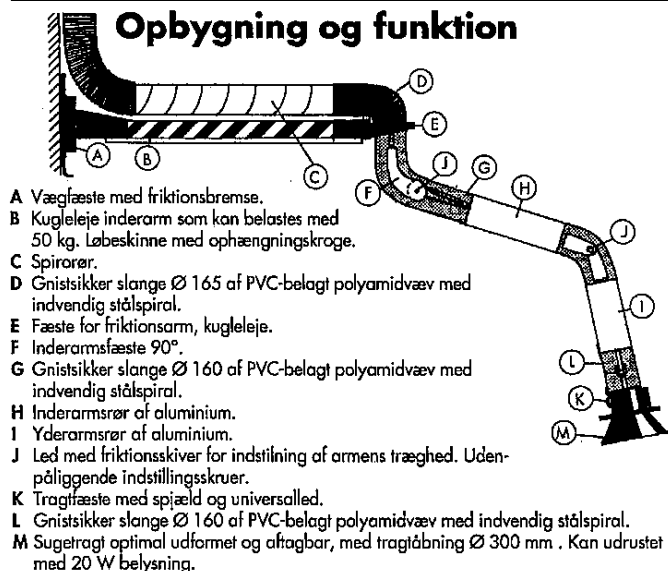
- Hurtig og enkel indstilling.
- Kan belastes med op til 50 kg længst ude på inderarm.
- Valgfri montering af armen, højt op på væg eller langt nede.
- Elegant design og høj kvalitet.

### Tekniske data



| Model Best nr | Max. arbejdsradius meter | Total vægt kg | Rek. montage højde | Rek. luftmængde ved tragt m <sup>3</sup> /h | Slange diameter mm |
|---------------|--------------------------|---------------|--------------------|---|--------------------|
| FM-1520       | 4,0                      | 46            | 2,0-3,0            | 800-1200                                    | 160                |
| FM-1530       | 4,9                      | 48            | 2,0-4,0            | 800-1200                                    | 160                |
| FM-1540       | 5,8                      | 50            | 2,5-5,0            | 800-1200                                    | 160                |
| FM-2520       | 5,0                      | 58            | 2,0-3,0            | 800-1200                                    | 160                |
| FM-2530       | 5,9                      | 60            | 2,0-4,0            | 800-1200                                    | 160                |
| FM-2540       | 6,8                      | 62            | 2,5-5,0            | 800-1200                                    | 160                |
| FM-3520       | 6,0                      | 79            | 2,0-3,0            | 800-1200                                    | 160                |
| FM-3530       | 6,9                      | 81            | 2,0-4,0            | 800-1200                                    | 160                |
| FM-3540       | 7,8                      | 83            | 2,5-5,0            | 800-1200                                    | 160                |
| FM-4520       | 7,0                      | 91            | 2,0-3,0            | 800-1200                                    | 160                |
| FM-4530       | 7,9                      | 93            | 2,0-4,0            | 800-1200                                    | 160                |
| FM-4540       | 8,8                      | 95            | 2,5-5,0            | 800-1200                                    | 160                |

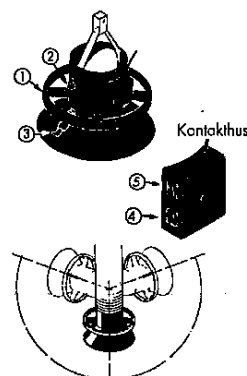
### Opbygning og funktion



### Manøvrering

1. Håndtag for indstilling af tragtens position. Håndtaget nås hele vejen rundt om tragt.
2. Greb for indstilling af spjæld.
3. Excenterlås for udskiftning til tragt forlænger-slange.
4. Kontakt for belysning; se tilbehør HL-20/24.

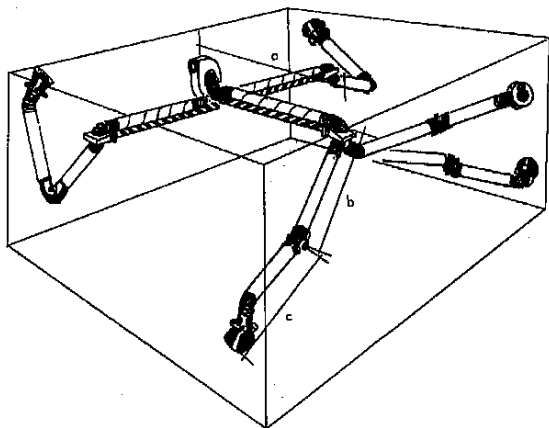
5. Kontakt for manuel START/STOP af ventilator eller spjæld; se tilbehør SA-24, ES-90 eller ASE-12.



### Tragtfunktion

Tragt af pulverlakeret stålplade kan vrides 110° frem, tilbage og sidevers. Stort håndtag Ø 300 mm rundt om tragt.

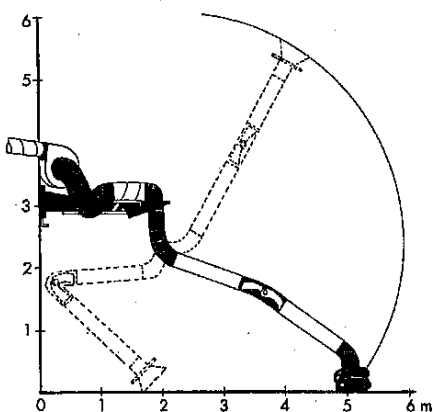
## Arbejdsområde



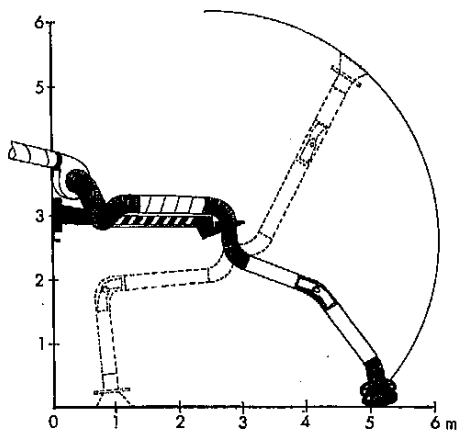
| Model<br>Best. nr | a<br>mm | b<br>mm | c<br>mm |
|-------------------|---------|---------|---------|
| FM-1520           | 1850    | 1120    | 1070    |
| FM-1530           | 1850    | 1650    | 1520    |
| FM-1540           | 1850    | 2300    | 1870    |
| FM-2520           | 2850    | 1120    | 1070    |
| FM-2530           | 2850    | 1650    | 1520    |
| FM-2540           | 2850    | 2300    | 1870    |
| FM-3520           | 3850    | 1120    | 1070    |
| FM-3530           | 3850    | 1650    | 1520    |
| FM-3540           | 3850    | 2300    | 1870    |
| FM-4520           | 4850    | 1120    | 1070    |
| FM-4530           | 4850    | 1650    | 1520    |
| FM-4540           | 4850    | 2300    | 1870    |

### Flex-Max 1540

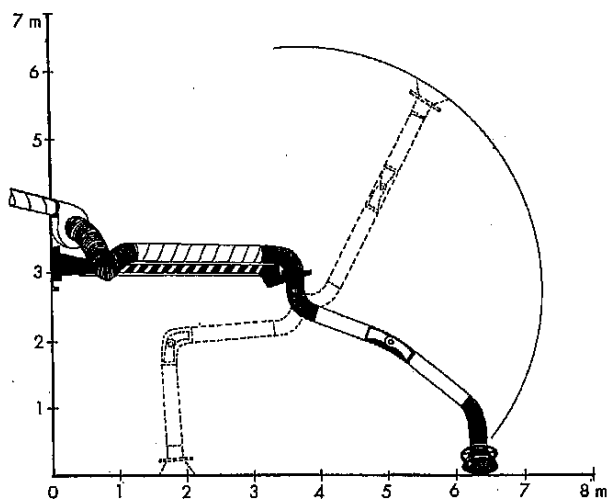
Rek. mont. højde 2,5-3,0 m.



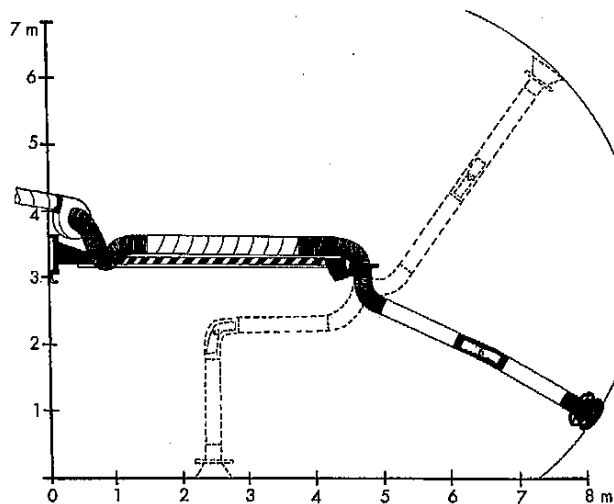
### Flex-Max 2540



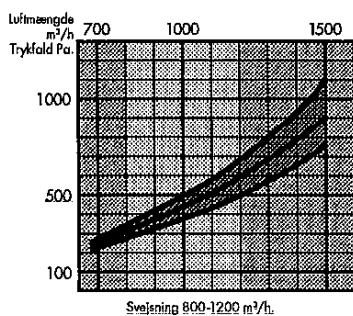
### Flex-Max 3540.



### Flex-Max 4540



## Trykfaldsdiagram

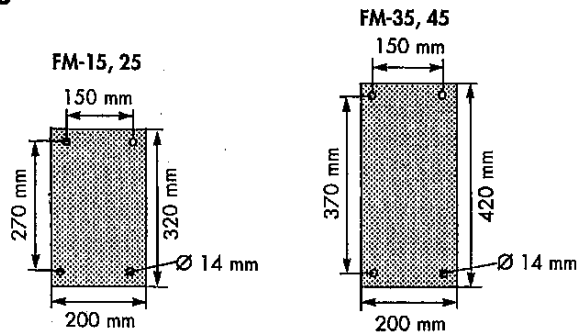


Følgende faktorer påvirker trykfaldet i Flex-Max:

1. Luftmængden.
2. Med eller uden belysning i tragt.
3. Antal af "knæk" på armen samt hvor vinklede disse er.
4. Armen længde.

# Monteringseksempler

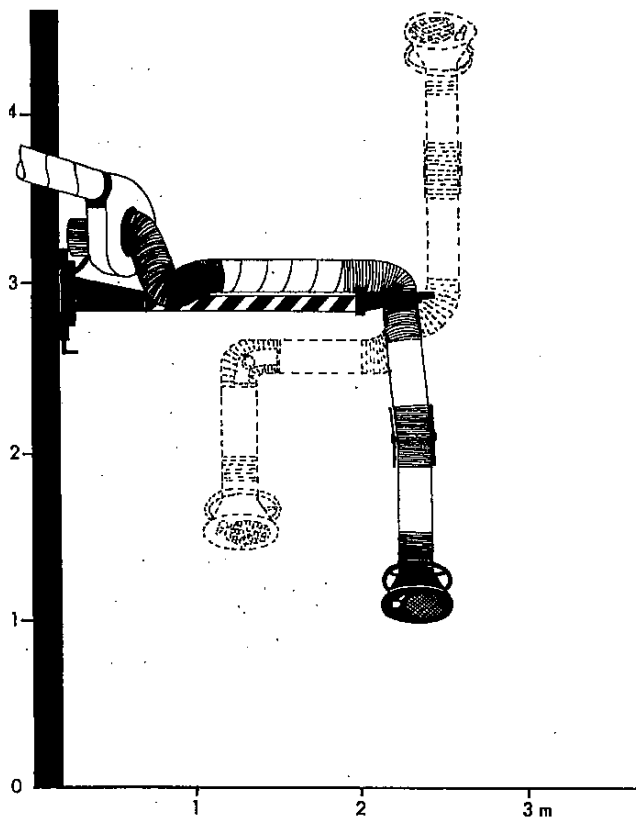
## Vægfæste for Flex-Max



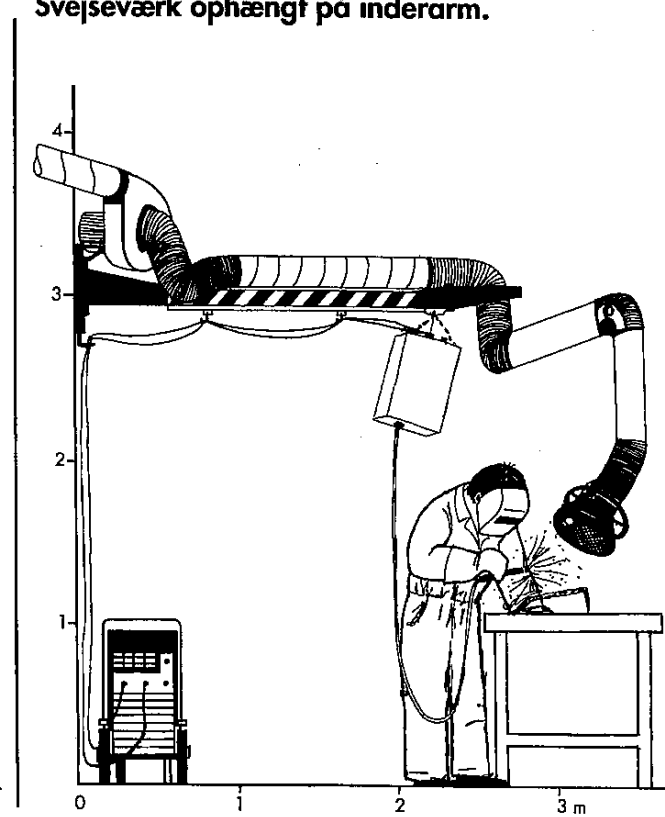
## Rekommenderet bolt

| Model                     | Max belastning/<br>bolt      | Sikkerheden<br>kræver |
|---------------------------|------------------------------|-----------------------|
| FM-1520, FM-1530          | 300 kp/bolt                  | 900 kp/bolt           |
| FM-2520, FM-2530          | 500 kp/bolt                  | 1500 kp/bolt          |
| FM-1540, FM-2540, FM-3520 | 650 kp/bolt                  | 1950 kp/bolt          |
| FM-3530, FM-3540, FM-4520 | 900 kp/bolt                  | 2700 kp/bolt          |
| FM-4530, FM-4540          | 900 kp/bolt<br>(1 kp = 10 N) | 2700 kp/bolt          |

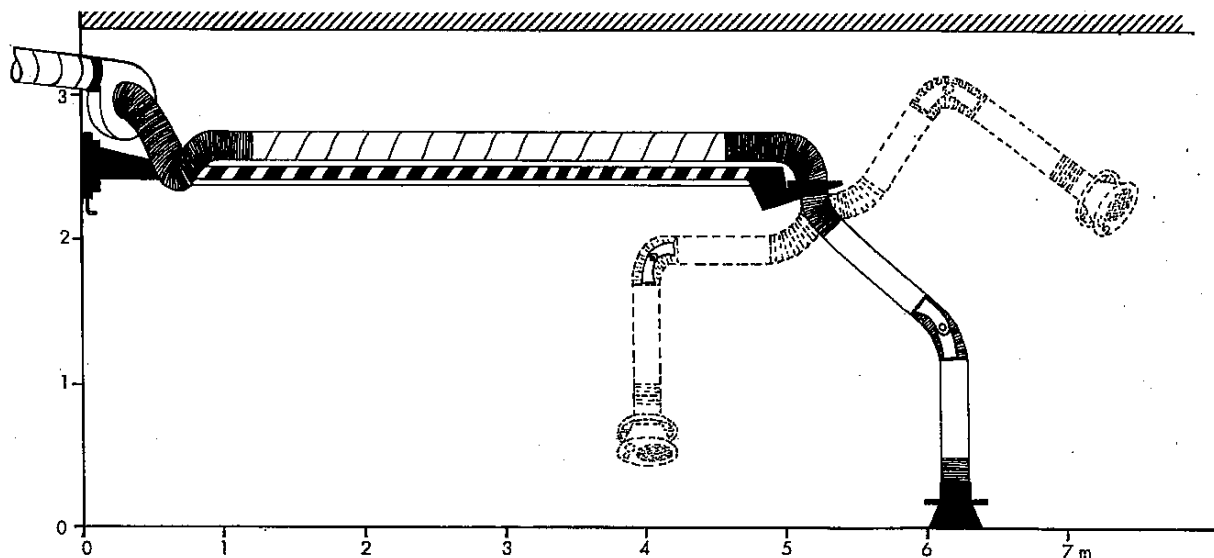
### FM-1530 monteret på stativ



### FM-2540 Monteret på væg. Svejeværk ophængt på inderarm.



### FM-4530 monteret ved lav lofthøjde med separat ventilator model FUK



# MONTAGEANVISNING

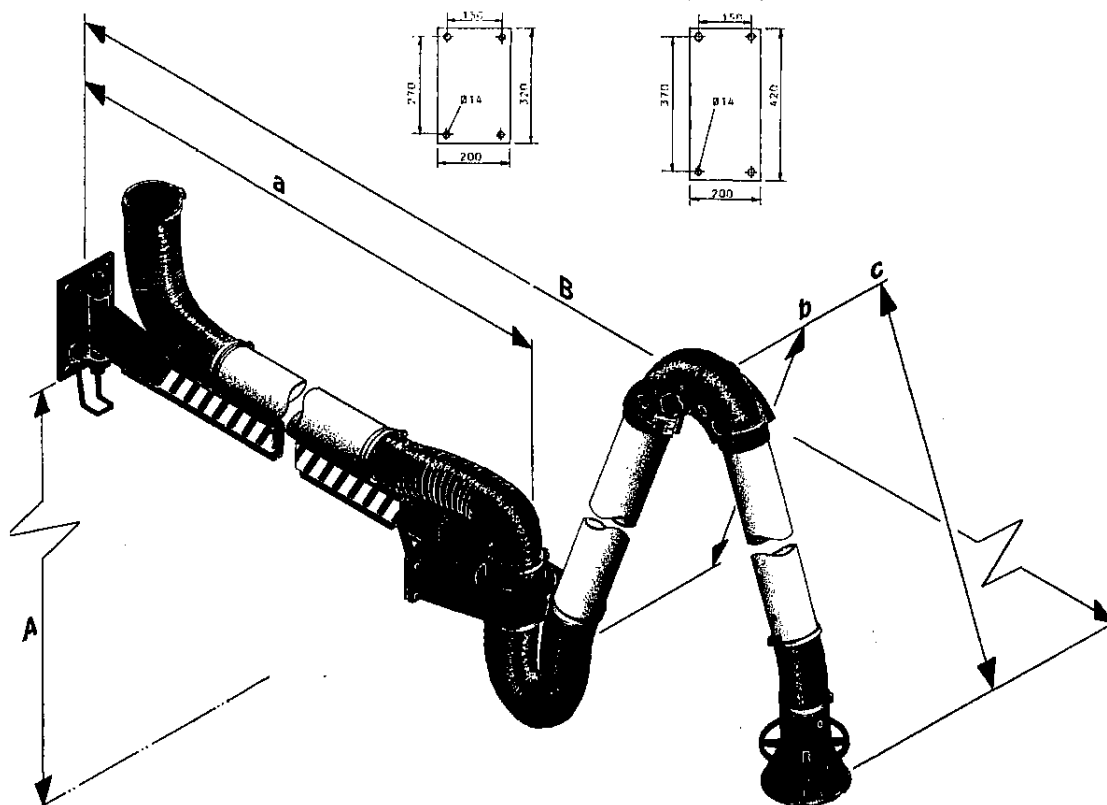
FLEX-MAX

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## VÆGFÆSTE FOR FLEX-MAX

FM-1520, FM-1530 FM-1540  
FM-2520 FM-2530 FM-2540

FM-3520, FM-3530, FM-3540  
FM-4520, FM-4530, FM-4540

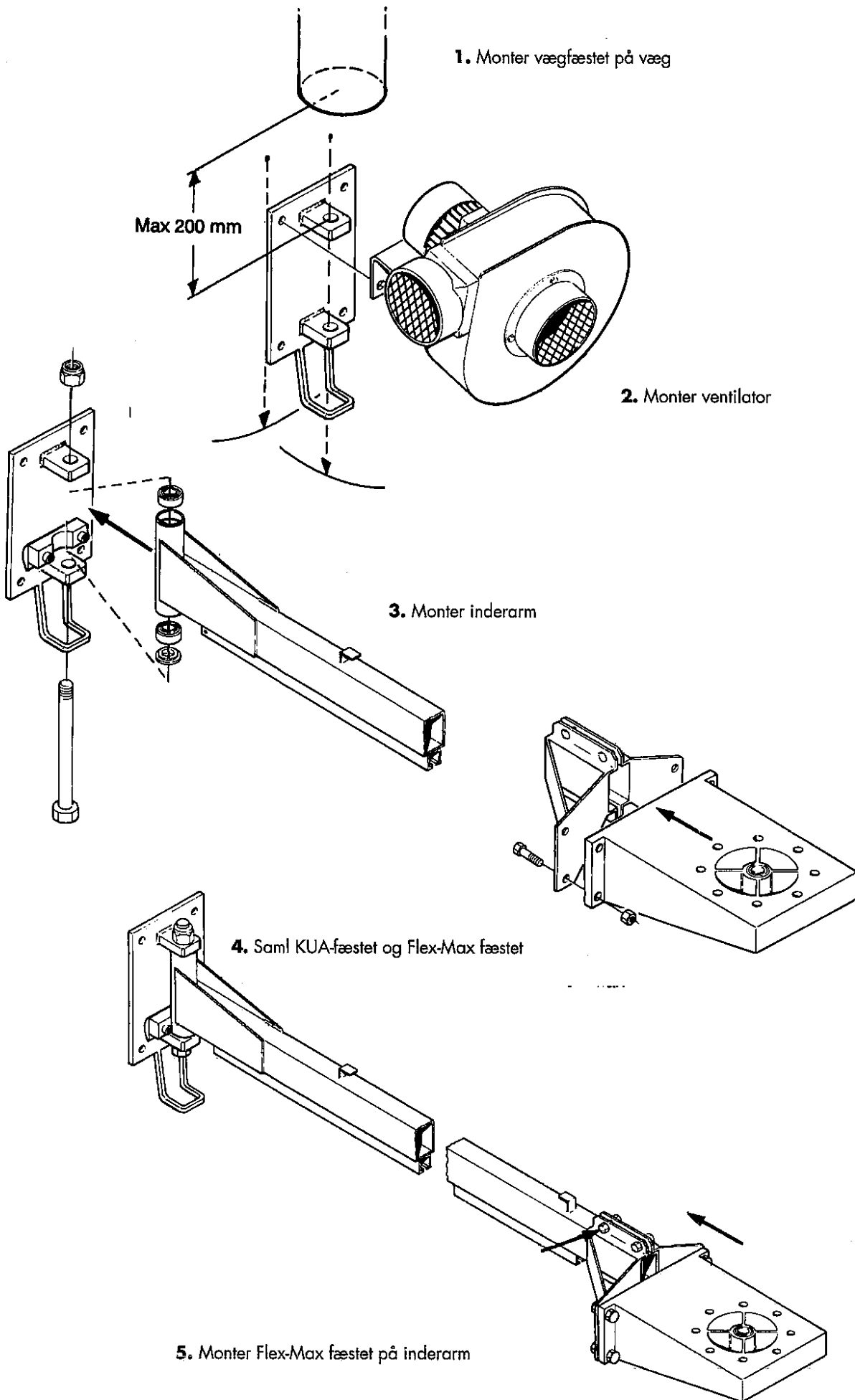


### Anbefalet skruestørrelse

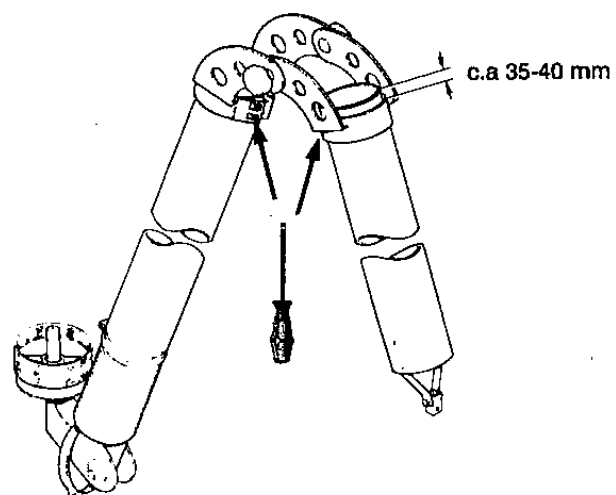
| Model                     | Max. belastning/skrue | Sikkerheden kræver |
|---------------------------|-----------------------|--------------------|
| FM-1520, FM-1530          | 30 N/skrue            | 90 N/skrue         |
| FM-2520, FM-2530          | 50 N/skrue            | 150 N/skrue        |
| FM-1540, FM-2540, FM-3520 | 65 N/skrue            | 195 N/skrue        |
| FM-3530, FM-3540, FM-4520 | 90 N/skrue            | 270 N/skrue        |
| FM-4530, FM-4540          | 90 N/skrue            | 270 N/skrue        |

| FLEX-MAX MODEL | A       | B   | a mm | b mm | c mm |
|----------------|---------|-----|------|------|------|
| FM-1520        | 2,0-3,0 | 4,0 | 1850 | 1120 | 1070 |
| FM-1530        | 2,0-4,0 | 4,9 | 1850 | 1650 | 1520 |
| FM-1540        | 3,5-5,0 | 5,8 | 1850 | 2300 | 1870 |
| FM-2520        | 2,0-3,0 | 5,0 | 2850 | 1120 | 1070 |
| FM-2530        | 2,0-4,0 | 5,9 | 2850 | 1650 | 1520 |
| FM-2540        | 2,5-5,0 | 6,8 | 2850 | 2300 | 1870 |
| FM-3520        | 2,0-3,0 | 6,0 | 3850 | 1120 | 1070 |
| FM-3530        | 2,0-4,0 | 6,9 | 3850 | 1650 | 1520 |
| FM-3540        | 2,5-5,0 | 7,8 | 3850 | 2300 | 1870 |
| FM-4520        | 2,0-3,0 | 7,0 | 4850 | 1120 | 1070 |
| FM-4530        | 2,0-4,0 | 7,9 | 4850 | 1650 | 1520 |
| FM-4540        | 2,5-5,0 | 8,8 | 4850 | 2300 | 1870 |

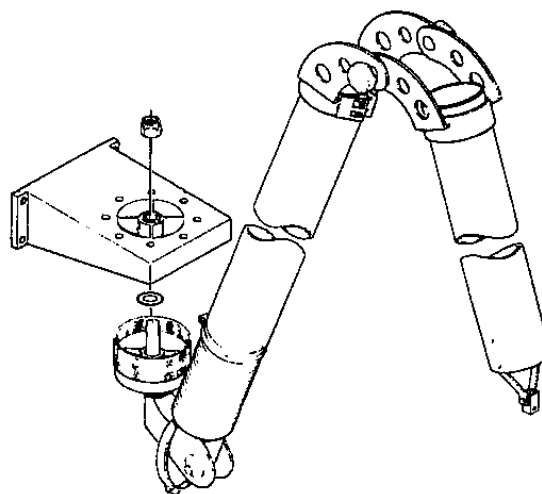
(1kp=10 N)



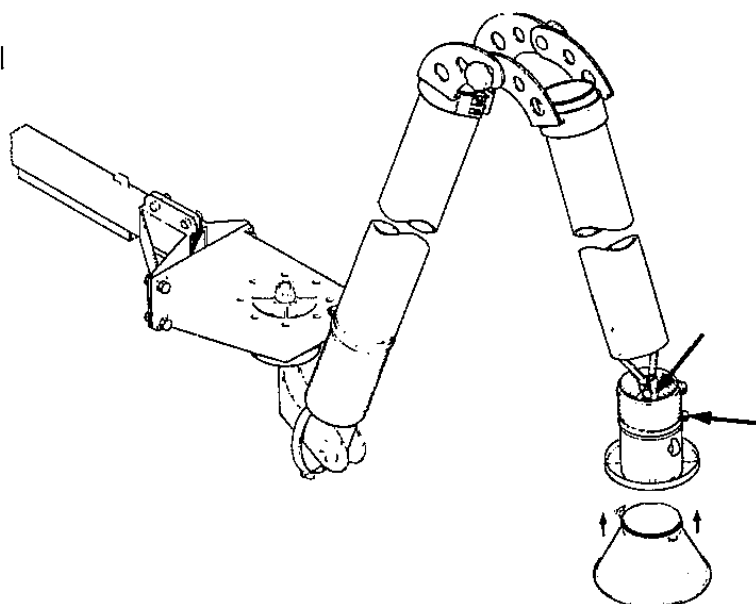
**6.** Saml inderarm, led, yderarm og tætningsring



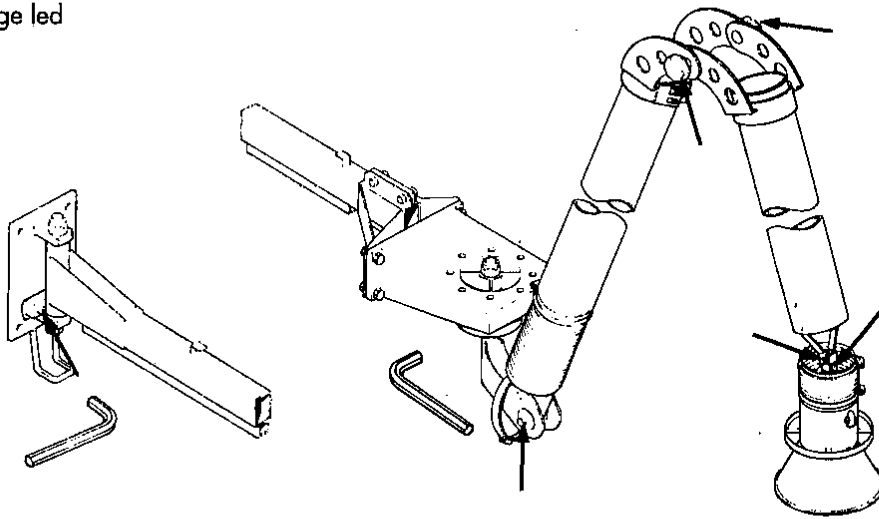
**7.** Monter inderarm og vægfæste. OBS ! Afstandsskive



**8.** Monter slange, spændebånd, tragt fæste og tragt til yderarm (slange 400 mm)

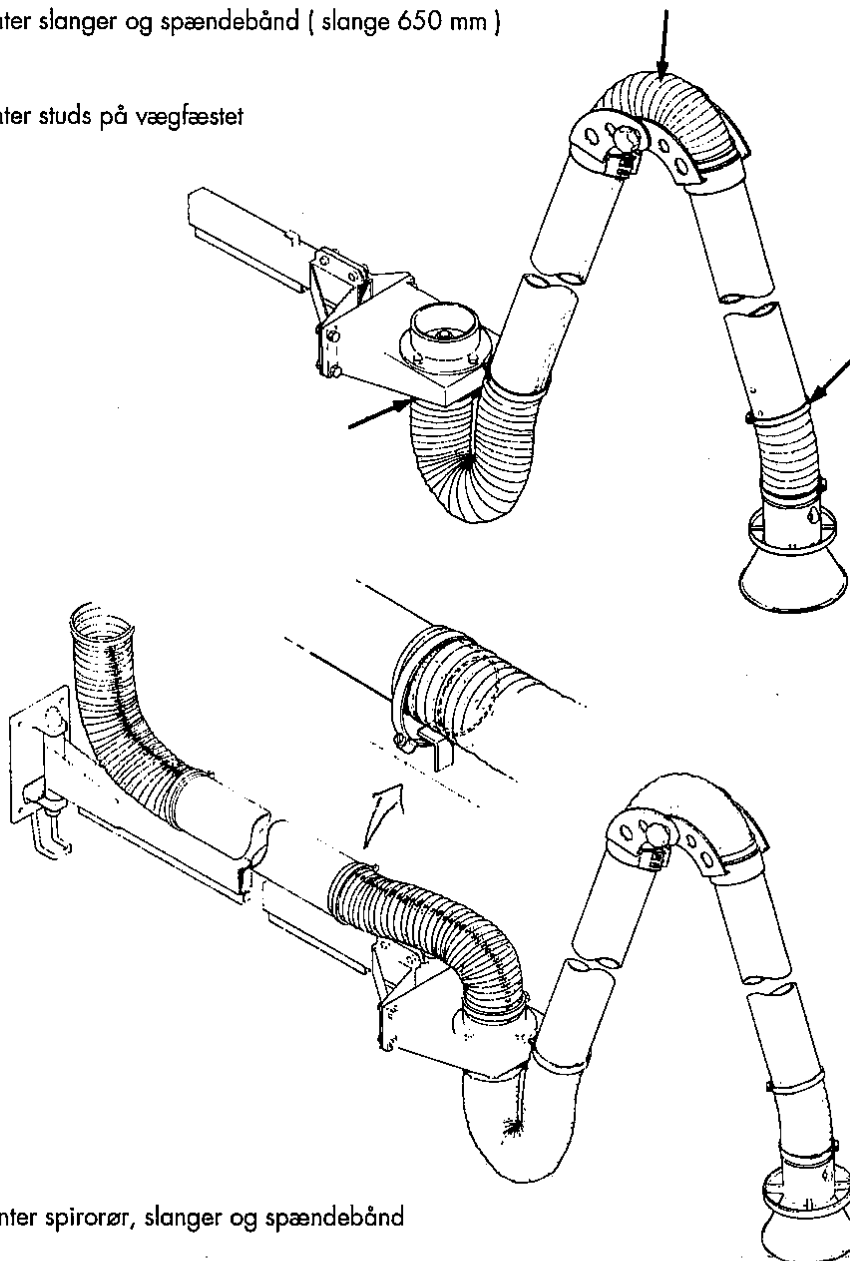


**9. Juster samtlige led**



**10. Monter slanger og spændebånd ( slange 650 mm )**

**11. Monter studs på vægfæstet**

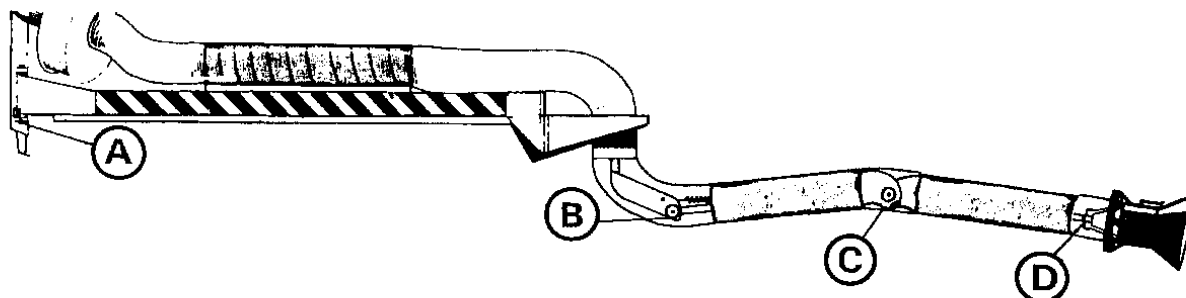


**12. Monter spirorør, slanger og spændebånd**

## BRUGERMANUAL

FLEX-MAX

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### A Hvis armen ikke forbliver i ønsket position:

Spænd unbracoskruerne. Kontrolleres hvert halve år.

### B Hvis armen ikke forbliver i ønsket position:

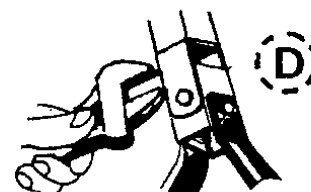
1. Frigør slangen ved B.
2. Træk sugearmen vandret ud i sin fulde længde. Juster til armen har tendens til at bøje eller sunke mod gulv.  
Spænd friktionsled til armen ikke bøjer/sunker.
3. Forbliver armen ikke på ønsket position eller uprovokeret bevæger sig sidelæns. Juster friktionsbremse ved vægfæste.  
Anvend unbraconøgle.

### C Hvis yderarm ikke forbliver på ønsket position:

1. Placer yderarm i vandret stilling. Juster yderarm til denne har tendens til at ville sunke mod gulv.  
Juster friktionsled til yderarmen ikke sunker.

### D Hvis tragten ikke forbliver på ønsket position:

1. Frigør slangen ved D.
2. Juster friktion ( se figur ) til tragten forbliver på eksakt position.





# Flex-Max

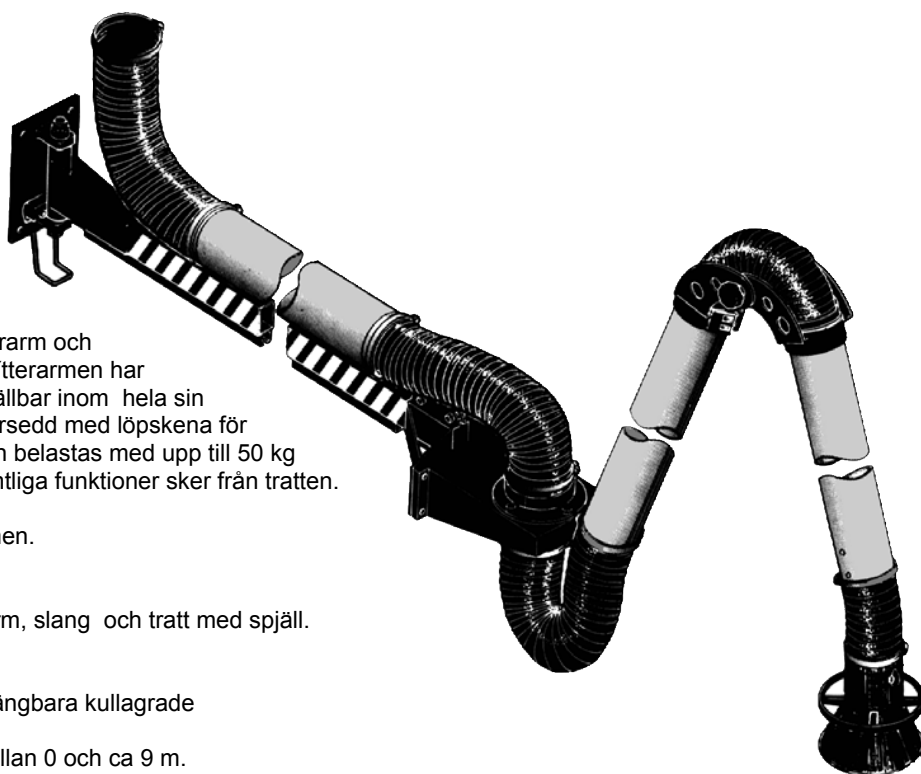
PlymoVent Flex-Max är det perfekta punktutsuget där maximal flexibilitet erfordras. Med Flex-Max punktutsug täcker man upp hela arbetsområdet. Arbetsradie från 4,0 upp till 8,8 m. Sugtratten når från golvet och upp till 8 m. Flex-Max löser problemen med punktutsug för trånga utrymmen och rum med låg infästningshöjd, för svåra vinklar, höga höjder och långa avstånd. Flex-Max består av en innerarm och en ytterarm som båda är kullagerupphängda. Ytterarmen har dessutom tre justerbara leder, är steglöst inställbar inom hela sin räckvidd och kan vridas 360°. Innerarmen är försedd med löpskena för kablar, tryckluftsslangar, matarverk mm och kan belastas med upp till 50 kg längst ut. Manövreringen av punktutsugets samtliga funktioner sker från tratten. Förlängningsslang FSL-1, SLE-20 och SLE-30 kan enkelt anslutas till armen.

### Leverans

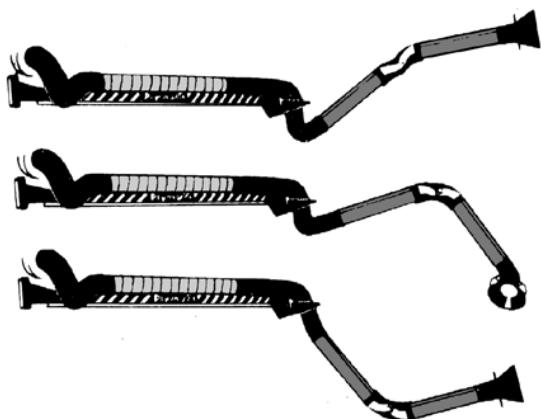
Flex-Max levereras komplett med väggfäste, arm, slang och tratt med spjäll.

### Fördelar

- Sinnrik, patenterad konstruktion med två svängbara kullagrade upphängningar och tre justerbara leder.
- Ger maximal flexibilitet inom en räckvidd mellan 0 och ca 9 m.
- Snabb och enkel inställning
- Kan belastas med upp till 50 kg längst ut på innerarmen.
- Valfri montering av armen, högt upp på väggen eller långt ner.
- Elegant design och hög kvalitet till oslagbart pris!

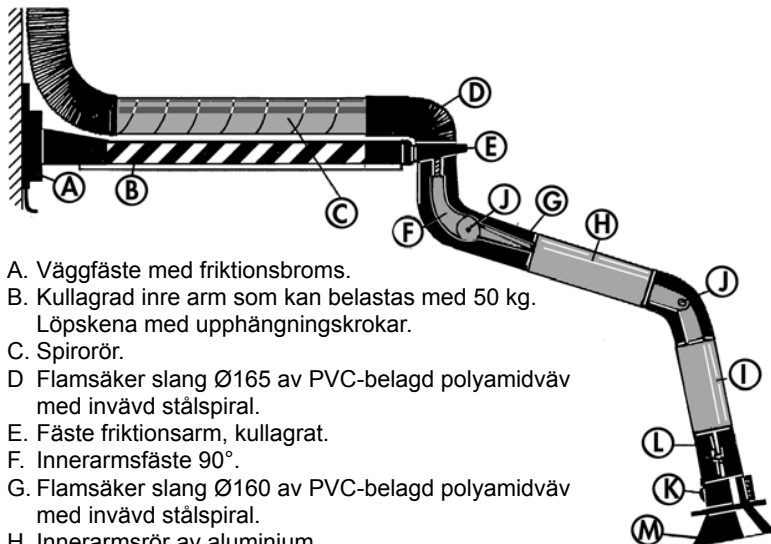


## Tekniska data



| Prod. nr: | Max aktionsradie meter | Total vikt kg | Rek montage höjd | Rek luftmängd vid tratt m <sup>3</sup> /h | Slang diameter mm |
|-----------|------------------------|---------------|------------------|---|-------------------|
| FM-1520   | 4,0                    | 46            | 2,0-2,5          | 800-1200                                  | 160               |
| FM-1530   | 4,9                    | 48            | 2,0-3,0          | 800-1200                                  | 160               |
| FM-1540   | 5,8                    | 50            | 2,5-3,5          | 800-1200                                  | 160               |
| FM-2520   | 5,0                    | 58            | 2,0-2,5          | 800-1200                                  | 160               |
| FM-2530   | 5,9                    | 60            | 2,0-3,0          | 800-1200                                  | 160               |
| FM-2540   | 6,8                    | 62            | 2,5-3,5          | 800-1200                                  | 160               |
| FM-3520   | 6,0                    | 79            | 2,0-2,5          | 800-1200                                  | 160               |
| FM-3530   | 6,9                    | 81            | 2,0-3,0          | 800-1200                                  | 160               |
| FM-3540   | 7,8                    | 83            | 2,5-3,5          | 800-1200                                  | 160               |
| FM-4520   | 7,0                    | 91            | 2,0-2,5          | 800-1200                                  | 160               |
| FM-4530   | 7,9                    | 93            | 2,0-3,0          | 800-1200                                  | 160               |
| FM-4540   | 8,8                    | 95            | 2,5-3,5          | 800-1200                                  | 160               |

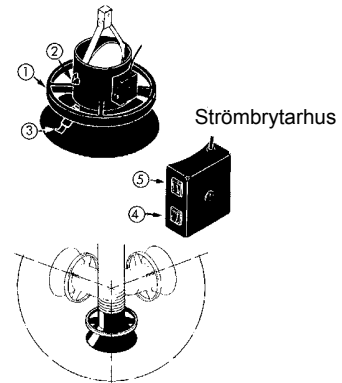
## Uppbyggnad och funktion



- A. Väggfäste med friktionsbroms.
- B. Kullagrad inre arm som kan belastas med 50 kg.  
Löpskena med upphängningskrokar.
- C. Spirorrör.
- D. Flamsäker slang Ø165 av PVC-belagd polyamidväv med invävd stålspiral.
- E. Fäste friktionsarm, kullagrat.
- F. Innerarmsfäste 90°.
- G. Flamsäker slang Ø160 av PVC-belagd polyamidväv med invävd stålspiral.
- H. Innerarmsrör av aluminium.
- I. Ytterarmsrör av aluminium.
- J. Leder med friktionsskivor för inställning av armens tröghet.  
Utanpåliggande inställningsskruvar.
- K. Trattfäste med avstängningsspjäll och universalled.
- L. Flamsäker slang Ø160 av PVC-belagd polyamidväv med invävd stålspiral.
- M. Sugtratt optimalt utformad med nätförsedd öppning Ø 300 mm.  
Kan förses med 20W belysningstilläts.

### Manövrering

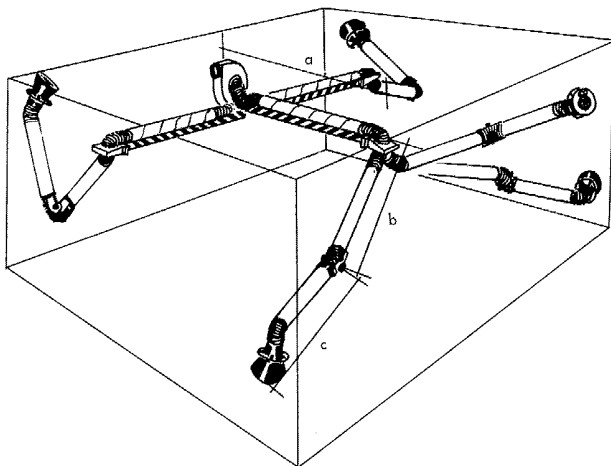
1. Handtagsring för inställning av trattens läge.  
Kan nås från alla håll.
2. Vred för inställning av spjäll.
3. Excenterlås för byte av trattförlängningsslang.
4. Strömbrytare för belysning; se tillbehör HL-20/24.
5. Strömbrytare för manuell START/STOPP av fläkt eller spjäll; se tillbehör SA-24, ES-90 eller ASE-12.



### Trattfunktion

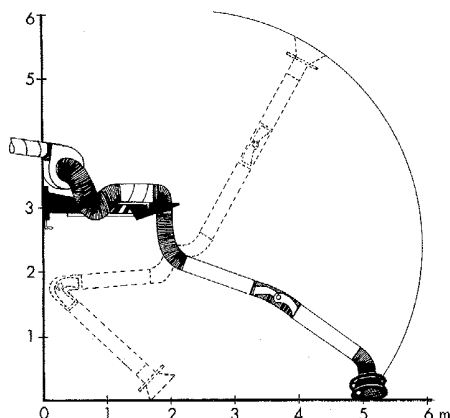
Tratten, av pulverlackerad stålplåt kan vridas 110° framåt, bakåt och åt sidorna. Stor handtagsring, Ø 300 mm.

## Arbetsområden

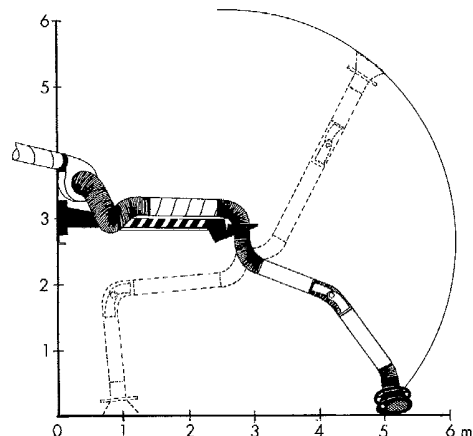


| Prod. nr: | a mm | b mm | c mm |
|-----------|------|------|------|
| FM-1520   | 1850 | 1120 | 1070 |
| FM-1530   | 1850 | 1650 | 1520 |
| FM-1540   | 1850 | 2300 | 1870 |
| FM-2520   | 2850 | 1120 | 1070 |
| FM-2530   | 2850 | 1650 | 1520 |
| FM-2540   | 2850 | 2300 | 1870 |
| FM-3520   | 3850 | 1120 | 1070 |
| FM-3530   | 3850 | 1650 | 1520 |
| FM-3540   | 3850 | 2300 | 1870 |
| FM-4520   | 4850 | 1120 | 1070 |
| FM-4530   | 4850 | 1650 | 1520 |
| FM-4540   | 4850 | 2300 | 1870 |

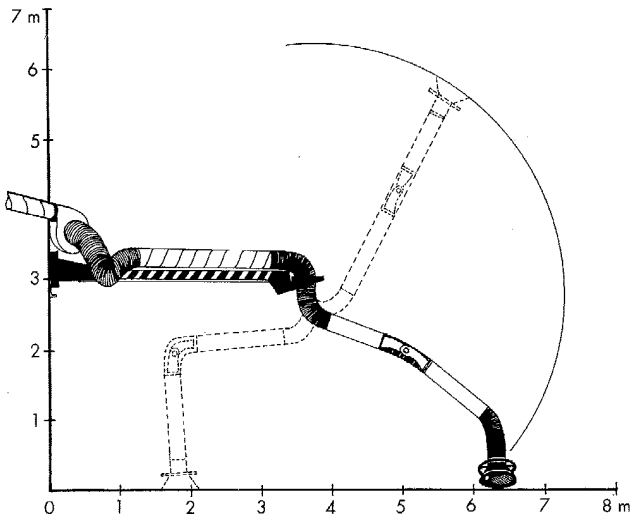
**Flex-Max 1540**  
Rek mont höjd 2,5-3,5 m.



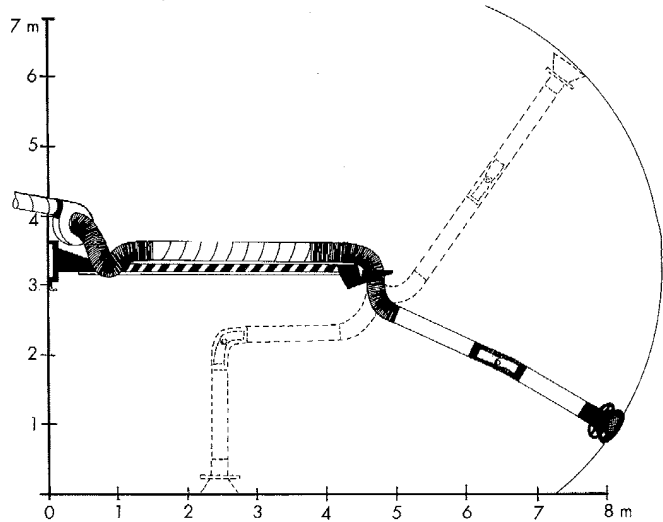
**Flex-Max 2540**  
Rek mont höjd 2,5-3,5 m.



Flex-Max 3540.  
 Rek mont höjd 2,5-3,5 m.

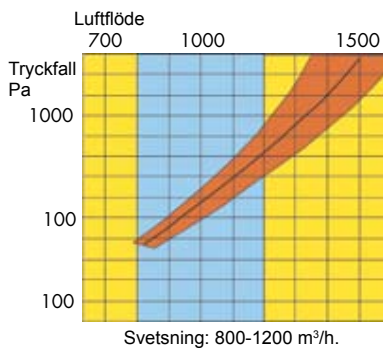


Flex-Max 4540  
 Rek mont höjd 2,5-3,5 m.



## Tryckfallsdiagram

### Flödesdiagram

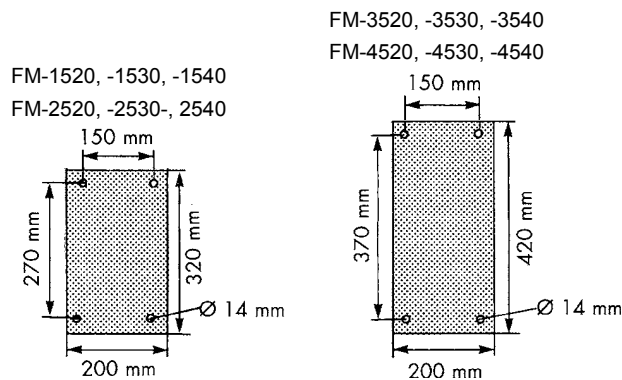


Tryckfallet i PlymoVents Flex-Max beror av följande faktorer:

1. Luftmängd
2. Med eller utan belysning i tratten
3. Inställt läge på armen
4. Armens längd.

## Monteringsexempel

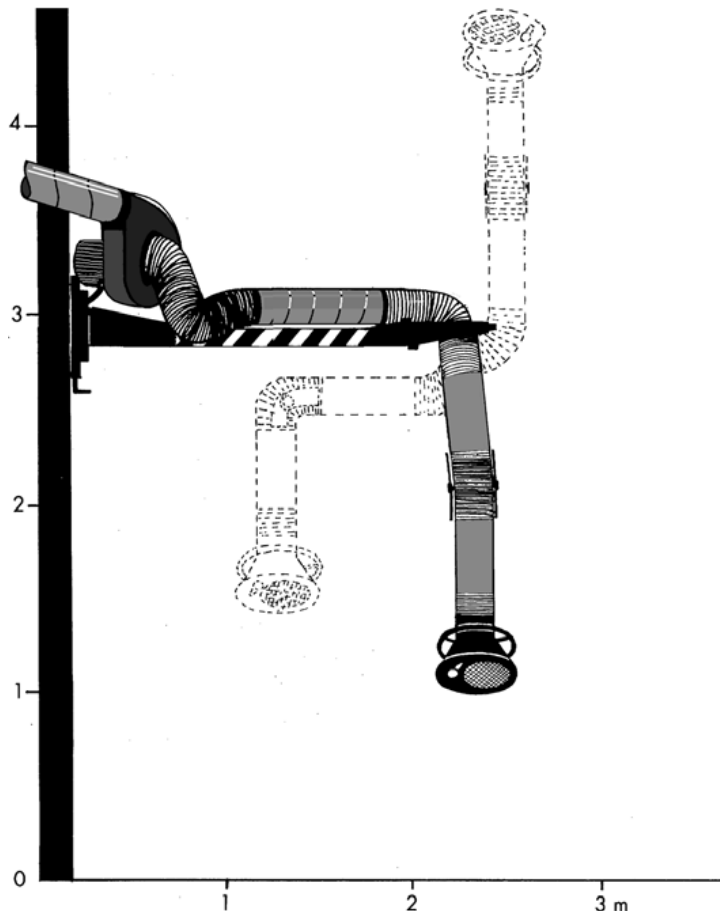
### Fästplattor för Flex-Max



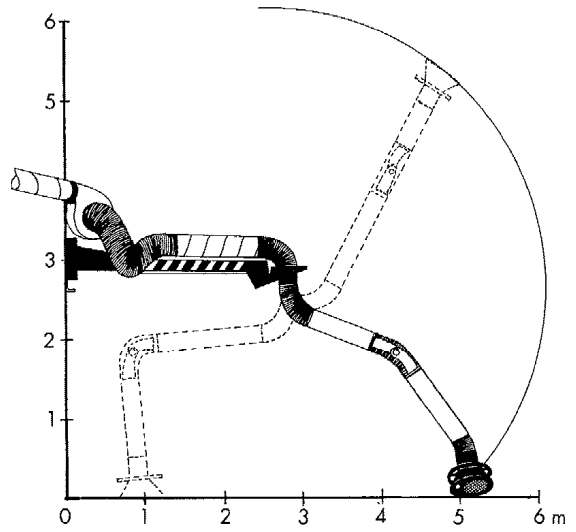
### Rekommenderad bult

| Prod. nr:                 | Max belastning/bult          | Säkerheten kräver |
|---------------------------|------------------------------|-------------------|
| FM-1520, FM-1530          | 300 kp/bult                  | 900 kp/bult       |
| FM-2520, FM-2530          | 500 kp/bult                  | 1500 kp/bult      |
| FM-1540, FM-2540, FM-3520 | 650 kp/bult                  | 1950 kp/bult      |
| FM-3530, FM-3540, FM-4520 | 900 kp/bult                  | 2700 kp/bult      |
| FM-4530, FM-4540          | 900 kp/bult<br>(1 kp = 10 N) | 2700 kp/bult      |

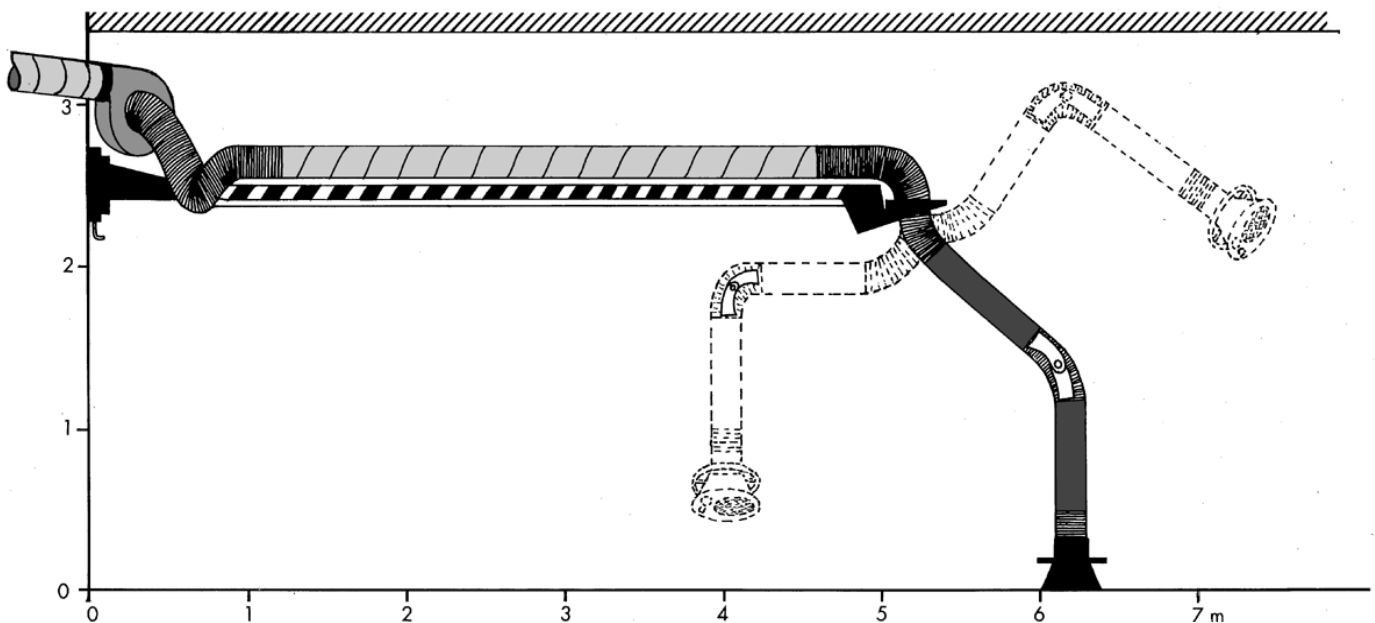
FM-1530 monterad på pelare.



FM-2540 monterad på vägg.  
Matarverk upphängt i innerarmen.



FM-4530 monterad vid låg takhöjd med separat fläkt modell FUK.



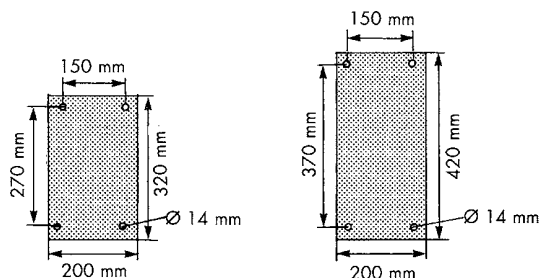
FLEX-MAX

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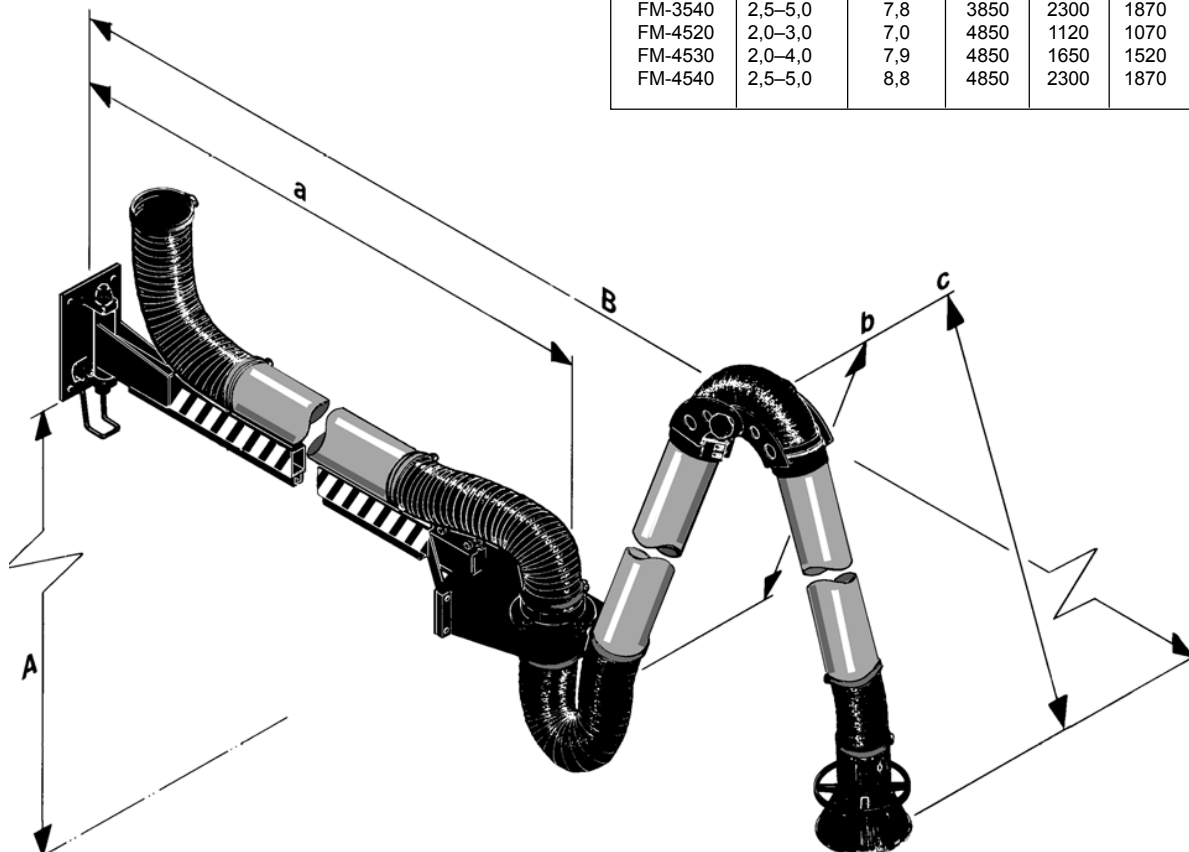
### Fästplattor för Flex-Max

FM-1520, 1530, 1540,  
2520, 2530, 2540

FM-3520, 3530, 3540,  
4520, 4530, 4540

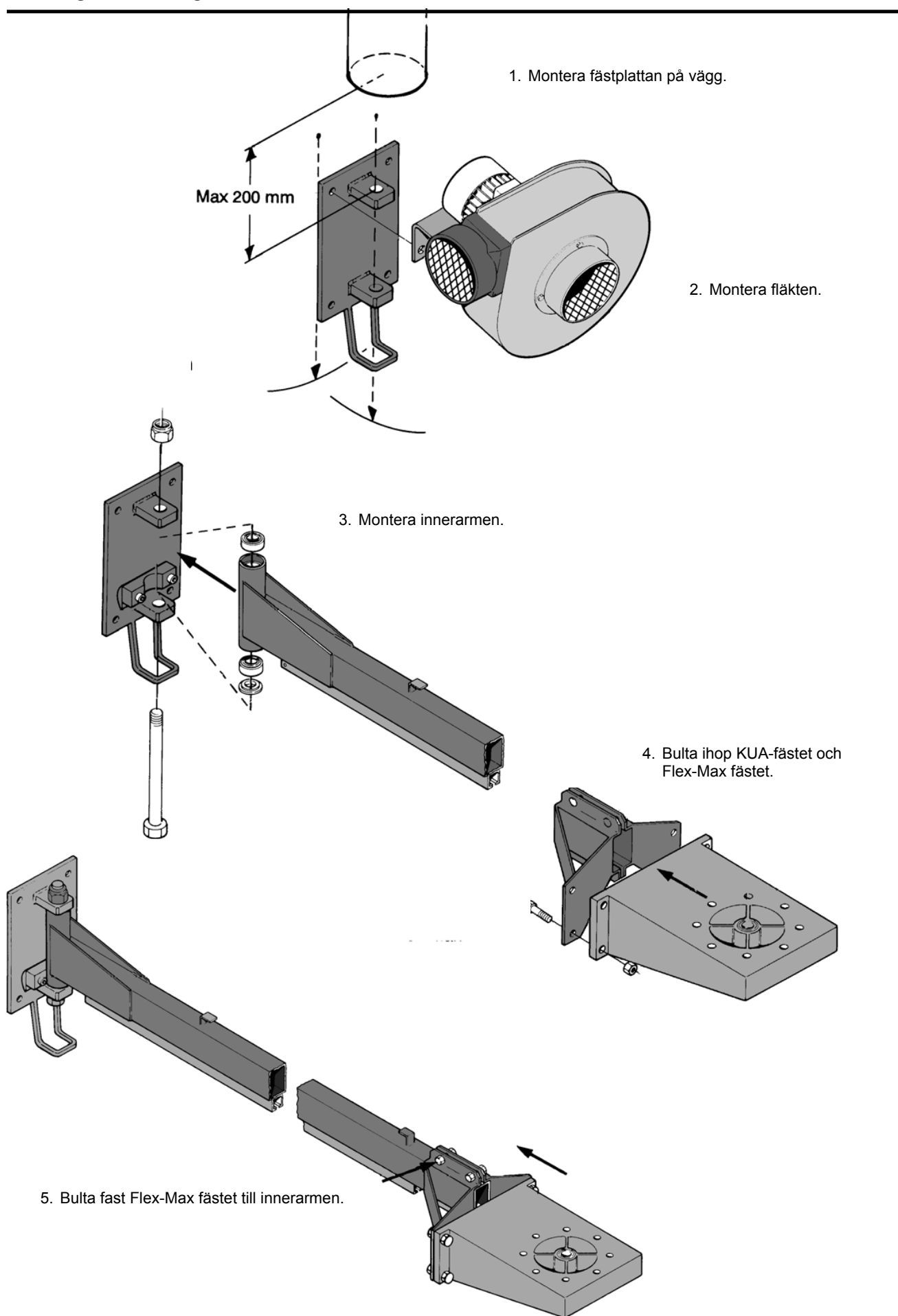


| FLEX-MAX<br>Prod. nr: | A       | B   | a<br>mm | b<br>mm | c<br>mm |
|-----------------------|---------|-----|---------|---------|---------|
| FM-1520               | 2,0-3,0 | 4,0 | 1850    | 1120    | 1070    |
| FM-1530               | 2,0-4,0 | 4,9 | 1850    | 1650    | 1520    |
| FM-1540               | 3,5-5,0 | 5,8 | 1850    | 2300    | 1870    |
| FM-2520               | 2,0-3,0 | 5,0 | 2850    | 1120    | 1070    |
| FM-2530               | 2,0-4,0 | 5,9 | 2850    | 1650    | 1520    |
| FM-2540               | 2,5-5,0 | 6,8 | 2850    | 2300    | 1870    |
| FM-3520               | 2,0-3,0 | 6,0 | 3850    | 1120    | 1070    |
| FM-3530               | 2,0-4,0 | 6,9 | 3850    | 1650    | 1520    |
| FM-3540               | 2,5-5,0 | 7,8 | 3850    | 2300    | 1870    |
| FM-4520               | 2,0-3,0 | 7,0 | 4850    | 1120    | 1070    |
| FM-4530               | 2,0-4,0 | 7,9 | 4850    | 1650    | 1520    |
| FM-4540               | 2,5-5,0 | 8,8 | 4850    | 2300    | 1870    |

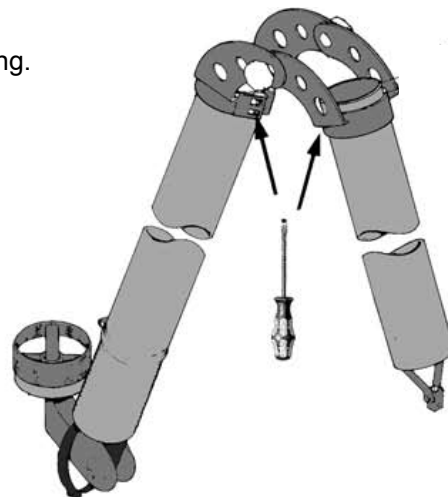


| Prod. nr:                 | Max. belastning/bult | Säkerheten kräver |
|---------------------------|----------------------|-------------------|
| FM-1520, FM-1530          | 300kg/bult           | 900kg/bult        |
| FM-2520, FM-2530          | 500 kg/bult          | 1500 kg/bult      |
| FM-1540, FM-2540, FM-3520 | 650 kg/bult          | 1950 kg/bult      |
| FM-3530, FM-3540, FM-4520 | 900 kg/bult          | 2700 kg/bult      |
| FM-4530, FM-4540          | 900 kg/bult          | 2700 kg/bult      |

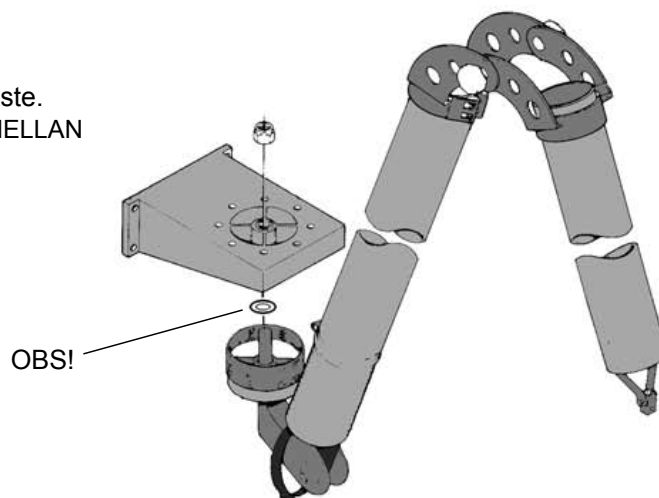
# Montageanvisning



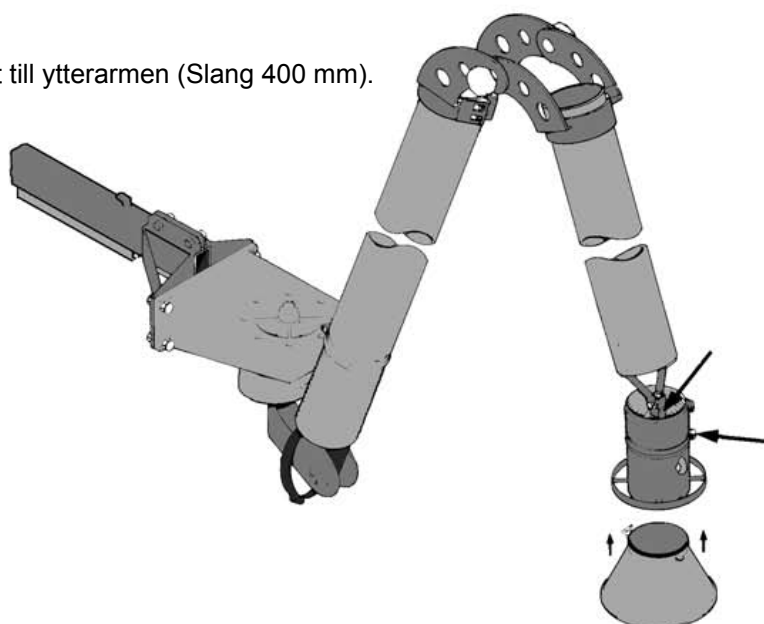
6. Montera ihop innerarm, led, ytterarm och tätningring.



7. Montera ihop innerarm och väggfäste.  
OBS! BRICKAN MÅSTE PLACERAS MELLAN  
FLÄNS OCH ARM.

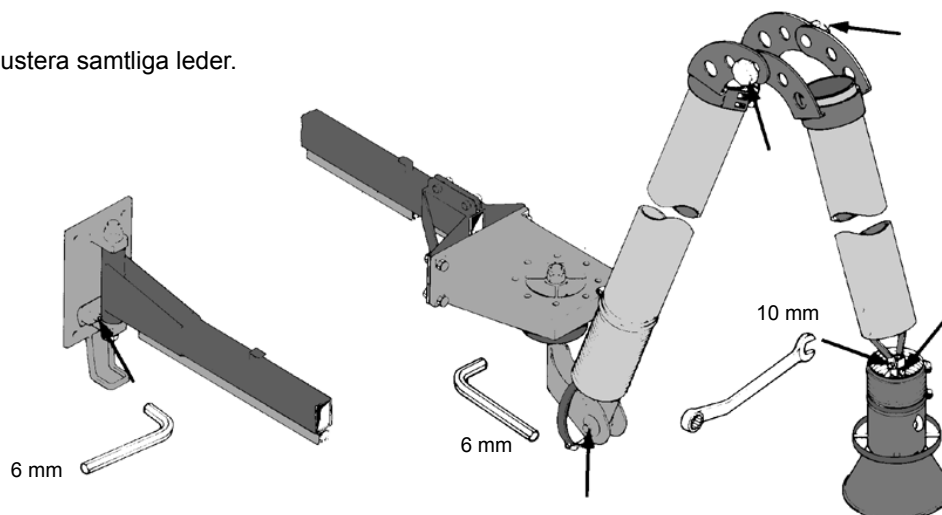


8. Montera slang, klammer, trattfäste och tratt till ytterarmen (Slang 400 mm).

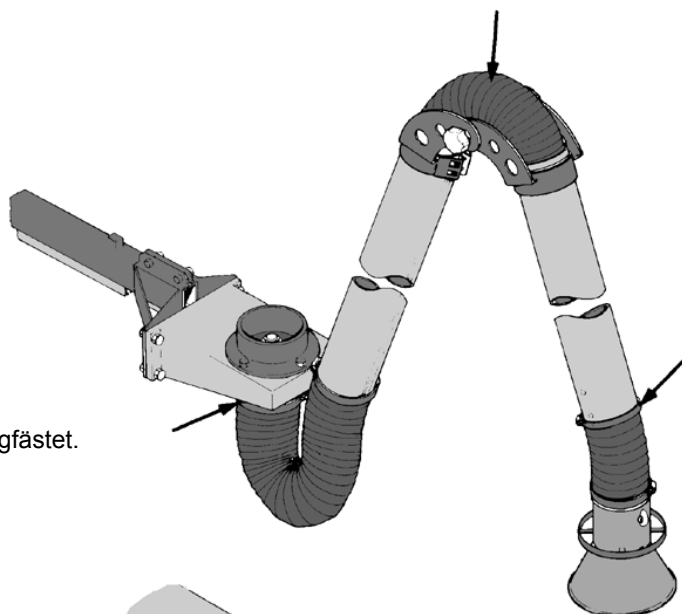




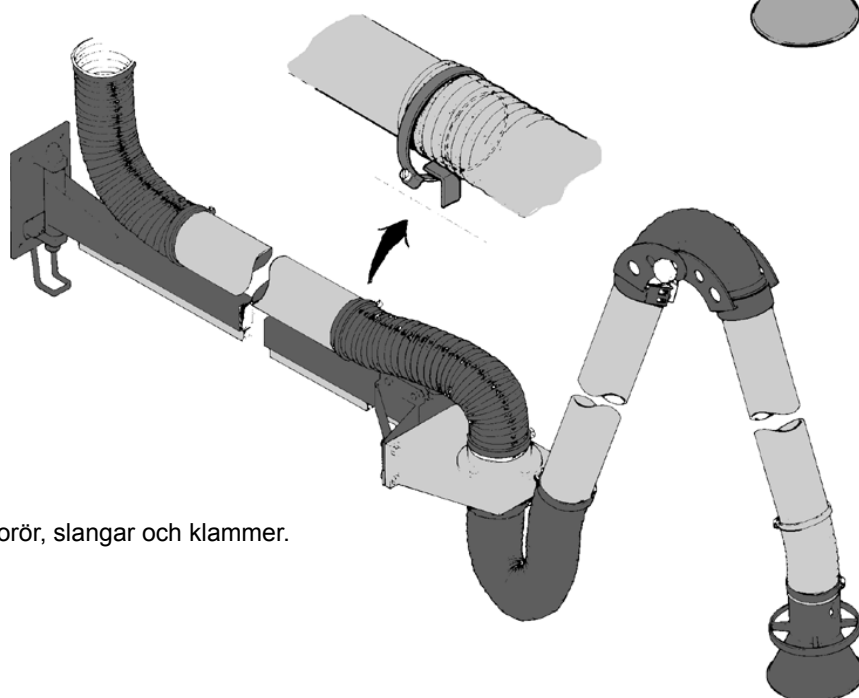
9. Justera samtliga leder.



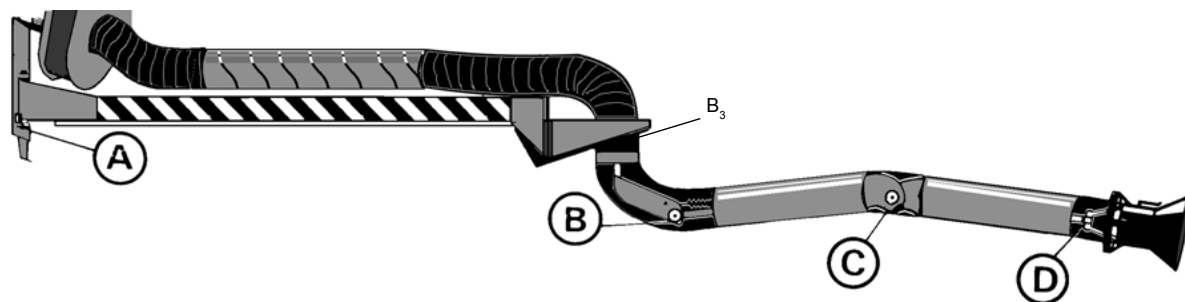
10. Montera slangar och klammer (Slang 650 mm).



11. Montera stös på väggfästet.

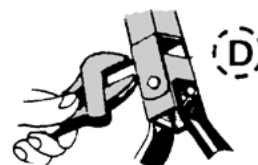






A. Om armen ej stannar i önskat läge:

Drag åt insexskruvarna. Kontrolleras varje halvår.



B. Om armen ej stannar i önskat läge:

1. Lossa slangen vid B.
2. Dra ut armen i sin fulla längd och vinkla det vågrätt. Justera därefter till dess att armen har tendens att börja sjunka mot golvet. Drag ytterst lite och justeringen är klar.
3. Om inte armen stannar i exakt läge efter förflyttning sidledes, drag åt friktionsbromsen som sitter i väggfästet, använd insexnyckel.

C. Om yttre armen ej stannar i önskat läge:

1. Vinkla yttre armen vågrät. Justera därefter till dess att armen har tendens att börja sjunka mot golvet, drag åt ytterst lite och justeringen är klar.

D. Om tratten ej stannar i önskat läge:

1. Lossa slangen vid D.
2. Justera friktionen enl. bild till dess att tratten stannar i exakt position.

## TEKNINEN ESITE

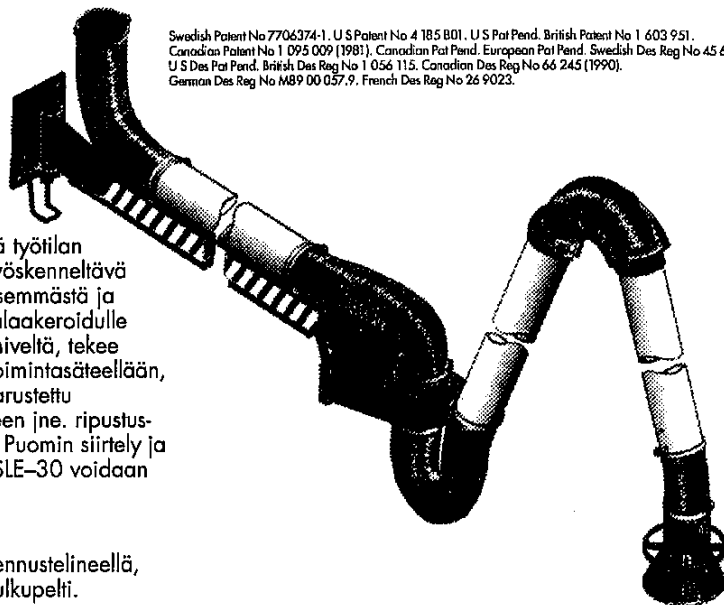
BSAB no: T0.31  
Ser.no: FM/TB/SF  
Päiväys: Jan -95  
Korvaa:

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# Flex-Max

PlymoVent Flex-Max on täydellinen ratkaisu tilanteissa, joissa vaaditaan mahdollisimman suurta joustavuutta. Flex-Max -kohdepoistopuomilla ulottuu kattamaan koko työskentelytilan. Mallien toimintasäde vaihtelee välillä 4–8,8 m, ja niiden huuvat ulottuvat lattiantasosta aina korkeuteen, joka on 4 m asennustason yläpuolella. Flex-Max on todellinen ratkaisu silloin, kun on päästävä työtöihin matalalla oleviin ahtaisiin nurkkiin, yllettävä kauas tai työskenneltävä korkeiden työkappaleiden kanssa. Flex-Max koostuu sisemmästä ja ulommasta varresta, jotka molemmat on asennettu kuulalaakeroidulle tukivarrelle. Ulompi varsi, jossa on kolme säädettävää niveltä, tekee mahdolliseksi mahdollisimman suuren liikuttavuuden toimintasäteellään, ja sitä voidaan kiertää täydet 360°. Sisempi varsi on varustettu kaapeleiden, paineilmaletkun, hitsauslangan syöttölaitteen jne. ripustus-kiskolla. Kiskoa voidaan kuormittaa 50 kg:aan saakka. Puomin siirtely ja ohjaus tehdään huuvalta. Jatkoletkut FSL-1, SLE-20 ja SLE-30 voidaan helposti kiinnittää jatkovarteen.

Swedish Patent No 7706374-1, U.S. Patent No 4 185 801, U.S. Pat. Pend. British Patent No 1 603 951, Canadian Patent No 1 095 009 (1993), Canadian Pat. Pend. European Pat. Pend. Swedish Des Reg No 45 692, U.S. Des Pat. Pend. British Des Reg No 1 056 115, Canadian Des Reg No 66 245 (1990), German Des Reg No M89 00 057-9, French Des Reg No 26 9023.



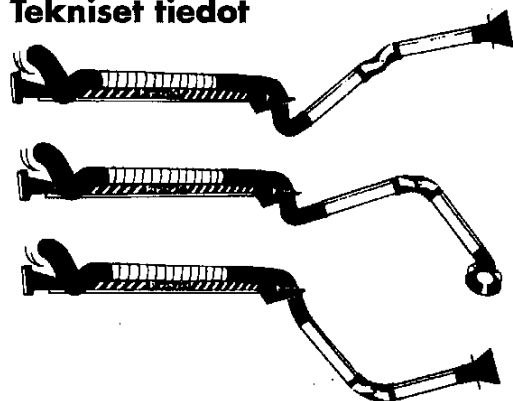
## Toimitus

Flex-Max toimitetaan täydellisenä varustettuna seinäasennustelineellä, varsilla, leikustolla ja huuvalla, jossa on manuaalinen sulkupelti.

## Edut

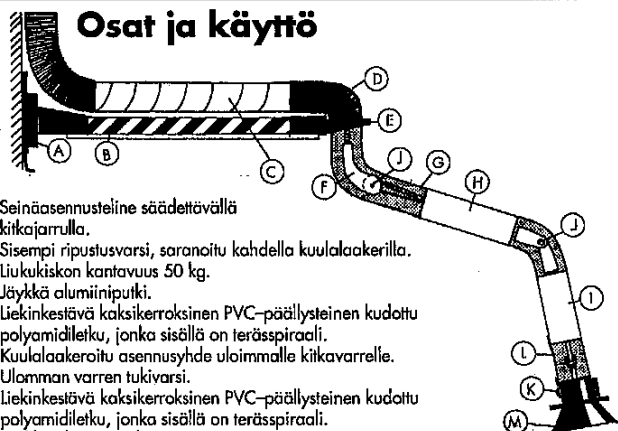
- Nerokas patentoitu rakenne kahdella kuulalaakeroidulla saranalla ja kolmella helposti säädettävällä nivelellä.
- Mahdollisimman suuri joustavuus työsäteellä 9 m:iin saakka (riippuen valitusta puomista).
- Nopea ja helppo sijoittaa työpisteeseen.
- Sisemmän varren kantavuus enintään 50 kg.
- Asennuspaikka vapaasti valittavissa, korkealla seinällä tai lähellä lattiatasoa.
- Tyylikäs muotoilu ja korkea laatu lyömättömään hintaan.

## Tekniset tiedot



| Tyyppi no. | Suurin työsäde m | Kokonais-paino kg | Suosittelu asennus-korkeus | Suosittelu ilmavirtaus huuvassa m³/h | Letkun halkaisija mm |
|------------|------------------|-------------------|----------------------------|--------------------------------------|----------------------|
| FM-1520    | 4,0              | 46                | 2,0-3,0                    | 800-1200                             | 160                  |
| FM-1530    | 4,9              | 48                | 2,0-4,0                    | 800-1200                             | 160                  |
| FM-1540    | 5,8              | 50                | 2,5-5,0                    | 800-1200                             | 160                  |
| FM-2520    | 5,0              | 58                | 2,0-3,0                    | 800-1200                             | 160                  |
| FM-2530    | 5,9              | 60                | 2,0-4,0                    | 800-1200                             | 160                  |
| FM-2540    | 6,8              | 62                | 2,5-5,0                    | 800-1200                             | 160                  |
| FM-3520    | 6,0              | 79                | 2,0-3,0                    | 800-1200                             | 160                  |
| FM-3530    | 6,9              | 81                | 2,0-4,0                    | 800-1200                             | 160                  |
| FM-3540    | 7,8              | 83                | 2,5-5,0                    | 800-1200                             | 160                  |
| FM-4520    | 7,0              | 91                | 2,0-3,0                    | 800-1200                             | 160                  |
| FM-4530    | 7,9              | 93                | 2,0-4,0                    | 800-1200                             | 160                  |
| FM-4540    | 8,8              | 95                | 2,5-5,0                    | 800-1200                             | 160                  |

## Osat ja käyttö

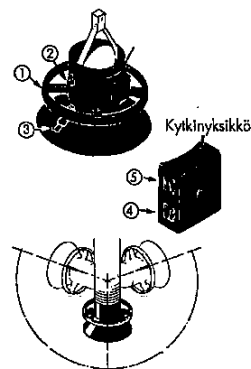


- A. Seinäasennusteline säädettävällä kiikajarrulla.  
B. Sisempi ripustusvarsi, saranoitu kahdella kuulalaakerilla. Liukukiskon kantavuus 50 kg.  
C. Jäykkä alumiiniputki.  
D. Liekinkestävä kaksikerroksinen PVC-päällysteinen kudottu polyamidiletku, jonka sisällä on terässpiraali.  
E. Kuulalaakeroitu asennusyhde ulommalle kiikavaruille.  
F. Ulomman varren tukivarsi.  
G. Liekinkestävä kaksikerroksinen PVC-päällysteinen kudottu polyamidiletku, jonka sisällä on terässpiraali.  
H. Jäykkä alumiiniputki.  
I. Jäykkä alumiiniputki.  
J. Ulkovarren asennusyhde, jossa on kiikkapalat kireyden säätöön.  
K. Ristinivel huuvan kiinnittimellä ja manuaalisella sulkupellillä.  
L. Liekinkestävä kaksikerroksinen PVC-päällysteinen kudottu polyamidiletku, jonka sisällä on terässpiraali.  
M. Optimaalisesti suunniteltu huuva, jonka suojaerikko peittää koko halkaisijaltaan 300 mm olevan aukon. Voidaan varustaa 20 W:n halogeenilampulla.

## Käsittely

1. 360°:een rengasmainen kahva huuvan sijoittamiseen. Voidaan käyttää joka suunnasta.
2. Sulkupellin säädin.
3. Pikalukitus huuvan vaihtoa tai jatkoletkun asennusta varten.
4. Kytkin kohdevalolle (katso lisätarvikkeet HL-20/24).

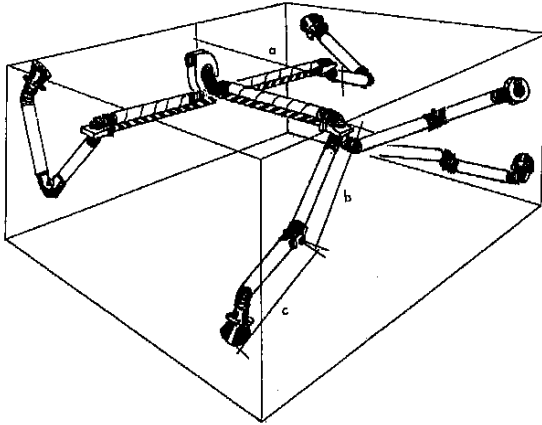
5. Kytkin puhaltimen tai sulkupellin manuaaliseen ohjaukseen (katso lisätarvikkeet SA-24, ES-90 tai ASE-12).



## Huuvan toiminta

Mustaa anodisoidusta pellistä valmistettua huuvaa voidaan kääntää 110° eteenpäin, taaksepäin ja sivuille. Suuri, 360°, rengaskahva, Ø 300 mm.

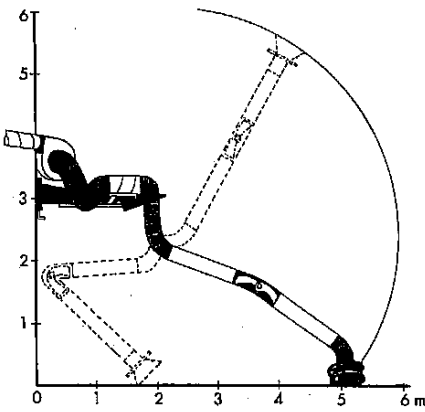
## Toimintasäteet



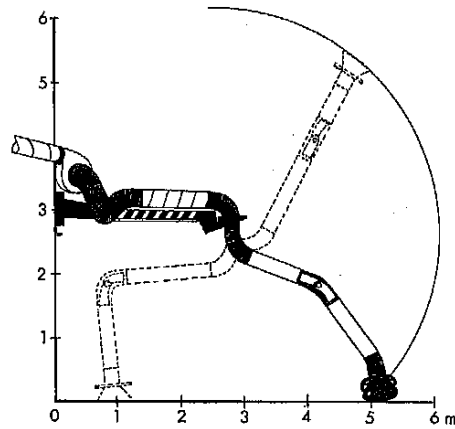
| Tyyppi no. | a mm | b mm | c mm |
|------------|------|------|------|
| FM-1520    | 1850 | 1120 | 1070 |
| FM-1530    | 1850 | 1650 | 1520 |
| FM-1540    | 1850 | 2300 | 1870 |
| FM-2520    | 2850 | 1120 | 1070 |
| FM-2530    | 2850 | 1650 | 1520 |
| FM-2540    | 2850 | 2300 | 1870 |
| FM-3520    | 3850 | 1120 | 1070 |
| FM-3530    | 3850 | 1650 | 1520 |
| FM-3540    | 3850 | 2300 | 1870 |
| FM-4520    | 4850 | 1120 | 1070 |
| FM-4530    | 4850 | 1650 | 1520 |
| FM-4540    | 4850 | 2300 | 1870 |

### Flex-Max 1540

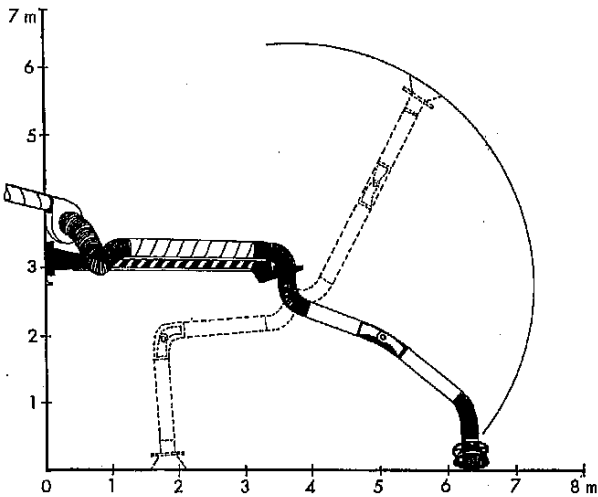
Suosittelava asennuskorkeus 2,5–3,0 m.



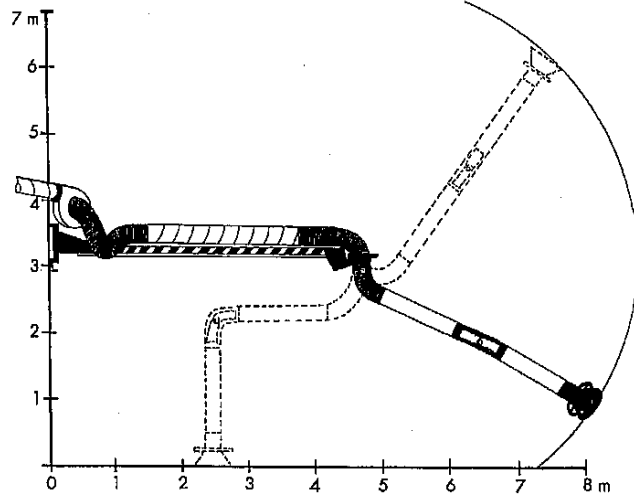
### Flex-Max 2540



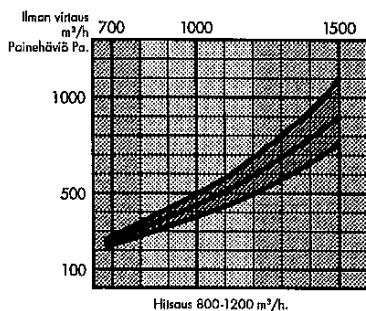
### Flex-Max 3540.



### Flex-Max 4540



## Painehäviökäyrä

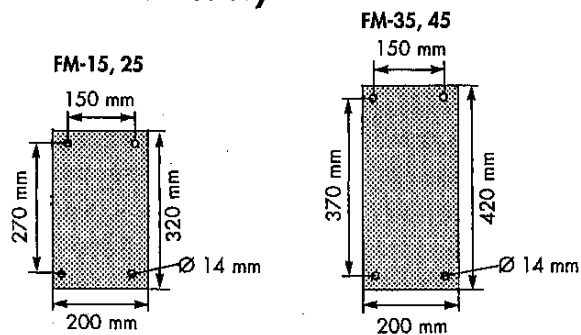


PlymoVent Flex-Maxin painehäviö riippuu seuraavista seikoista:

1. Ilmamäärä.
2. Onko huuva varustettu kohdevalolla vai ei.
3. Varren asento.
4. Varren pituus.

## Flex-Max asennusesimerkit

### Flex-Maxin asennuslevyt

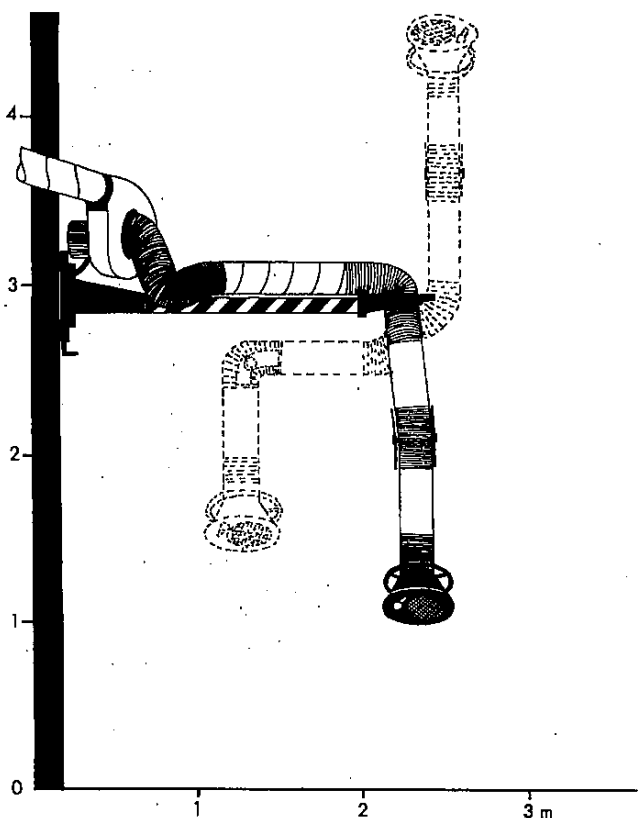


### Suosittelavat pultti

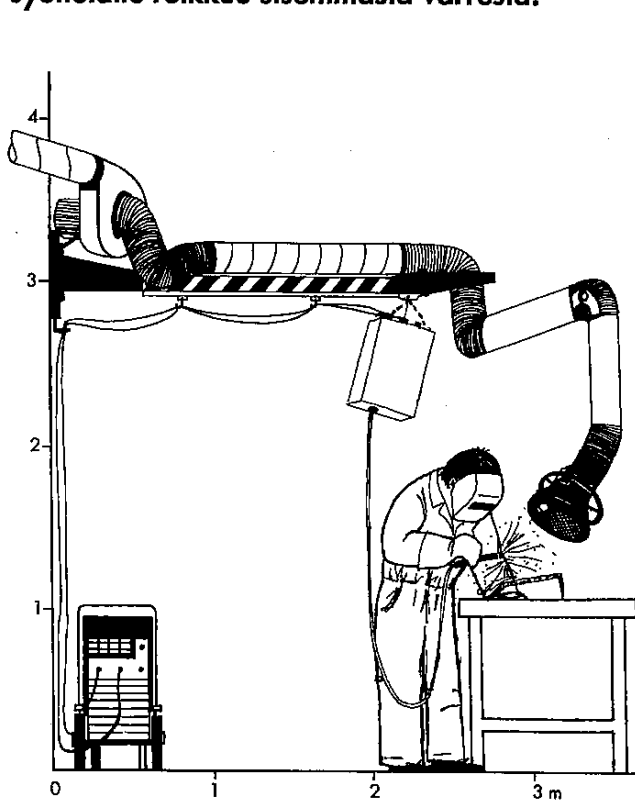
| Tyyppi                    | Max kuormitus/<br>pultti | Turvallisuus-<br>vaatimukset |
|---------------------------|--------------------------|------------------------------|
| FM-1520, FM-1530          | 300 kp/pultti            | 900 kp/pultti                |
| FM-2520, FM-2530          | 500 kp/pultti            | 1500 kp/pultti               |
| FM-1540, FM-2540, FM-3520 | 650 kp/pultti            | 1950 kp/pultti               |
| FM-3530, FM-3540, FM-4520 | 900 kp/pultti            | 2700 kp/pultti               |
| FM-4530, FM-4540          | 900 kp/pultti            | 2700 kp/pultti               |

(1 kp 10 N)

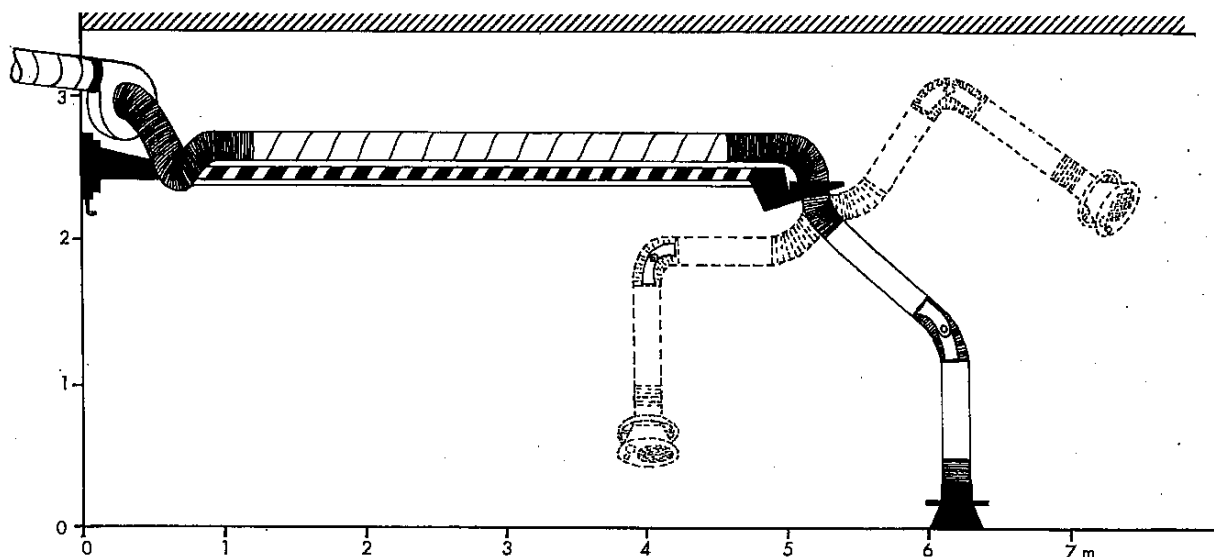
### FM-1530 asennettuna pilariin.



### FM-2540 seinäasennuksessa. Hitsauslangan syöttölaite roikkuu sisemmästä varresta.



### FM-4530 asennettuna tilaan, jossa on matala kattokorkeus, ja varustettuna erillisellä puhaltimella, malli FUK.



# PLYMOVENT®

## ASENNUSOHJE

BSAB no: T0.31  
Ser.no: FM/MA/SF  
Päiväys: Jan -95  
Korvaa:

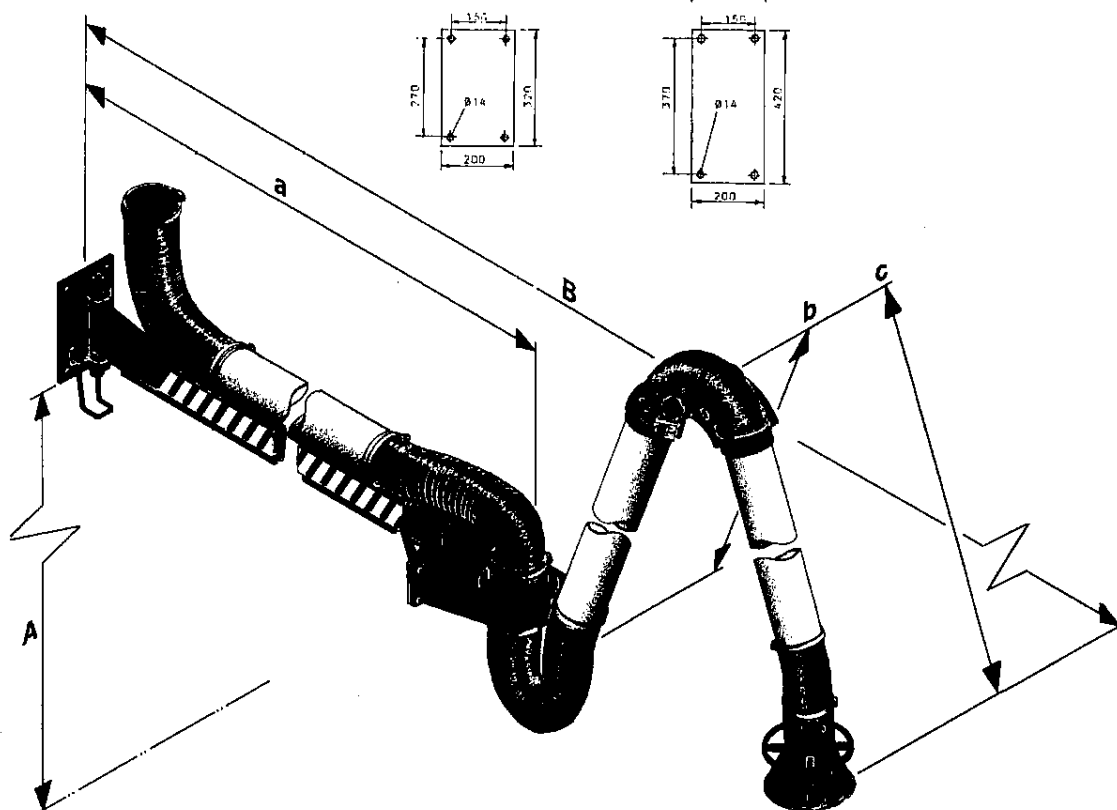
FLEX-MAX

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### FLEX-MAX -IMUVARREN SEINÄKIINNIKKEET

FM-1520, FM-1530 FM-1540  
FM-2520 FM-2530 FM-2540

FM-3520, FM-3530, FM-3540  
FM-4520, FM-4530, FM-4540



### Pulttien vaatimukset

| Tyyppi                    | Maksimikuormitus/pultti | Turvallisuusvaatimukset |
|---------------------------|-------------------------|-------------------------|
| FM-1520, FM-1530          | 30 N/pultti             | 90 N/pultti             |
| FM-2520, FM-2530          | 50 N/pultti             | 150 N/pultti            |
| FM-1540, FM-2540, FM-3520 | 65 N/pultti             | 195 N/pultti            |
| FM-3530, FM-3540, FM-4520 | 90 N/pultti             | 270 N/pultti            |
| FM-4530, FM-4540          | 90 N/pultti             | 270 N/pultti            |

| FLEX-MAX<br>TYYPPI | A       | B   | a<br>mm | b<br>mm | c<br>mm |
|--------------------|---------|-----|---------|---------|---------|
| FM-1520            | 2,0-3,0 | 4,0 | 1850    | 1120    | 1070    |
| FM-1530            | 2,0-4,0 | 4,9 | 1850    | 1650    | 1520    |
| FM-1540            | 3,5-5,0 | 5,8 | 1850    | 2300    | 1870    |
| FM-2520            | 2,0-3,0 | 5,0 | 2850    | 1120    | 1070    |
| FM-2530            | 2,0-4,0 | 5,9 | 2850    | 1650    | 1520    |
| FM-2540            | 2,5-5,0 | 6,8 | 2850    | 2300    | 1870    |
| FM-3520            | 2,0-3,0 | 6,0 | 3850    | 1120    | 1070    |
| FM-3530            | 2,0-4,0 | 6,9 | 3850    | 1650    | 1520    |
| FM-3540            | 2,5-5,0 | 7,8 | 3850    | 2300    | 1870    |
| FM-4520            | 2,0-3,0 | 7,0 | 4850    | 1120    | 1070    |
| FM-4530            | 2,0-4,0 | 7,9 | 4850    | 1650    | 1520    |
| FM-4540            | 2,5-5,0 | 8,8 | 4850    | 2300    | 1870    |

(1kp 10N)

1. Asenna seinäkiinnike

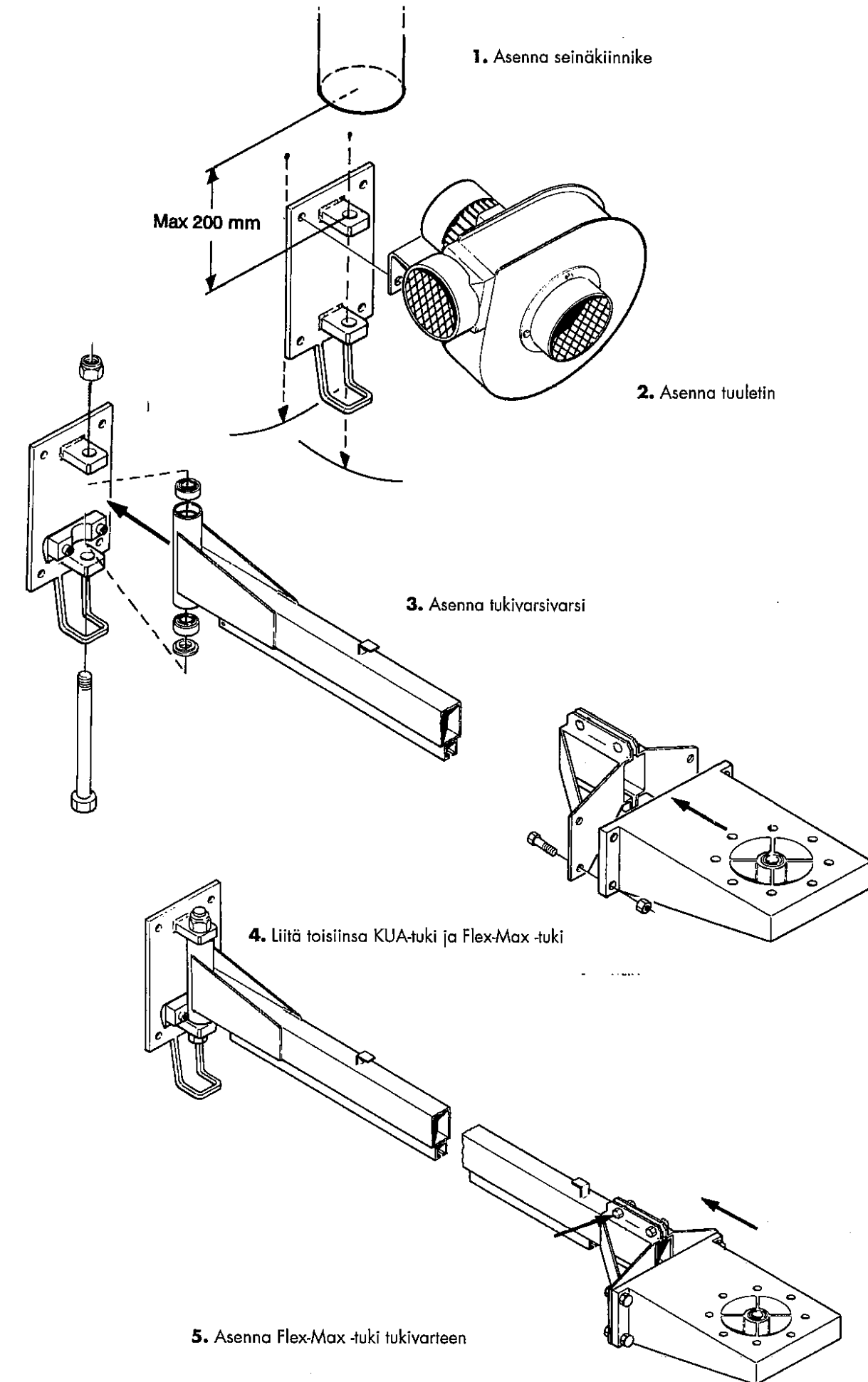
Max 200 mm

2. Asenna tuuletin

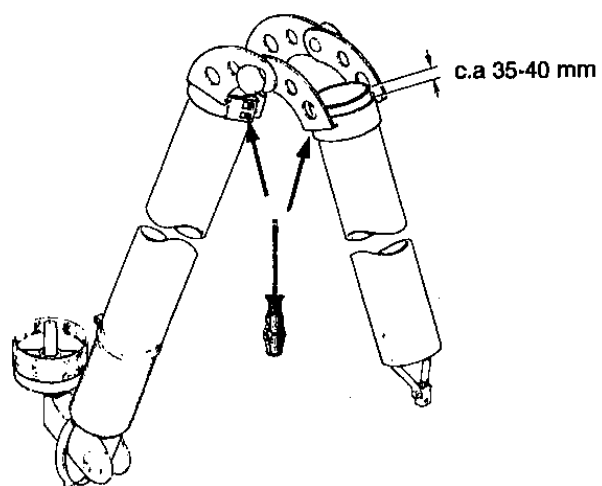
3. Asenna tukivarsivarsi

4. Liitä toisiinsa KUA-tuki ja Flex-Max -tuki

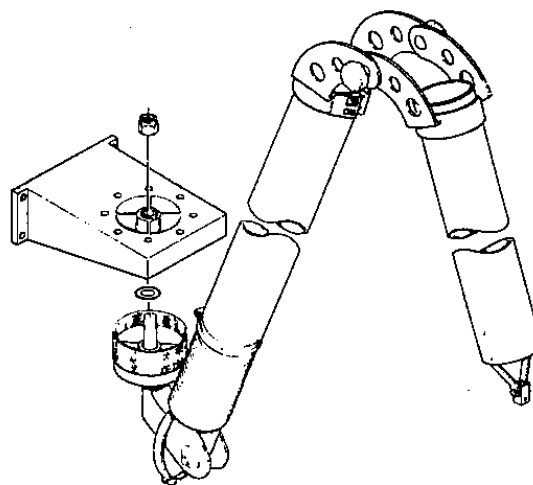
5. Asenna Flex-Max -tuki tukivarteen



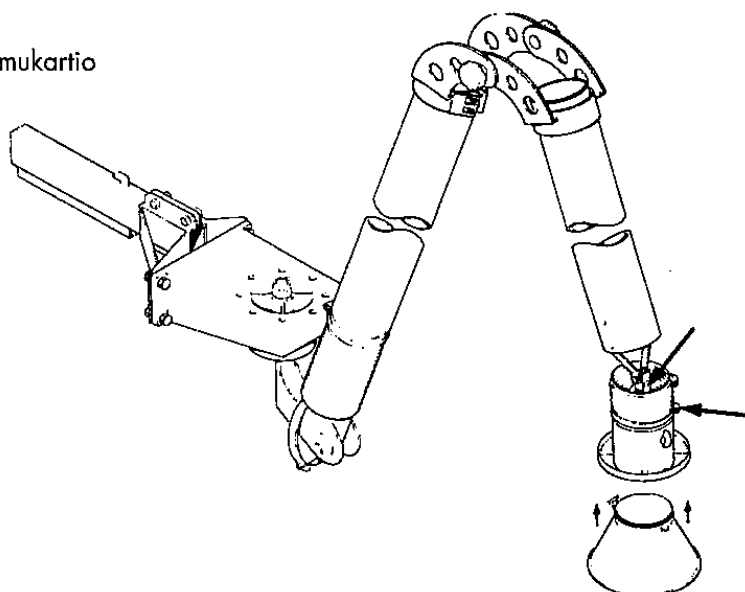
6. Kiinnitä sisempi varsi ulompaan varteeseen saranoidulla liitoksella ja aseta kuminen tiivistysrenkas ulompaan varteeseen



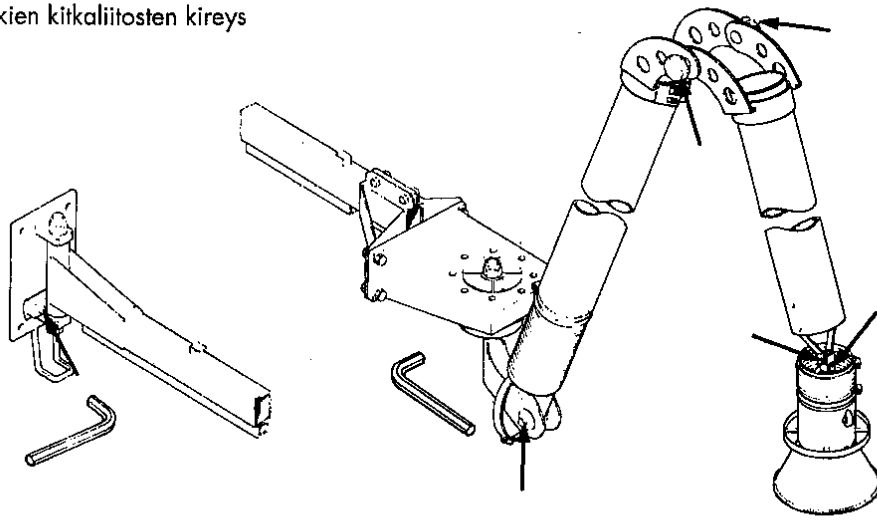
7. Asenna varsi seinäkiinnittimeen. HUOM! Aluslevy



8. Asenna letku, letkunkiristin, imukartion rengas ja imukartio ulompaan varteeseen (letku 400 mm)

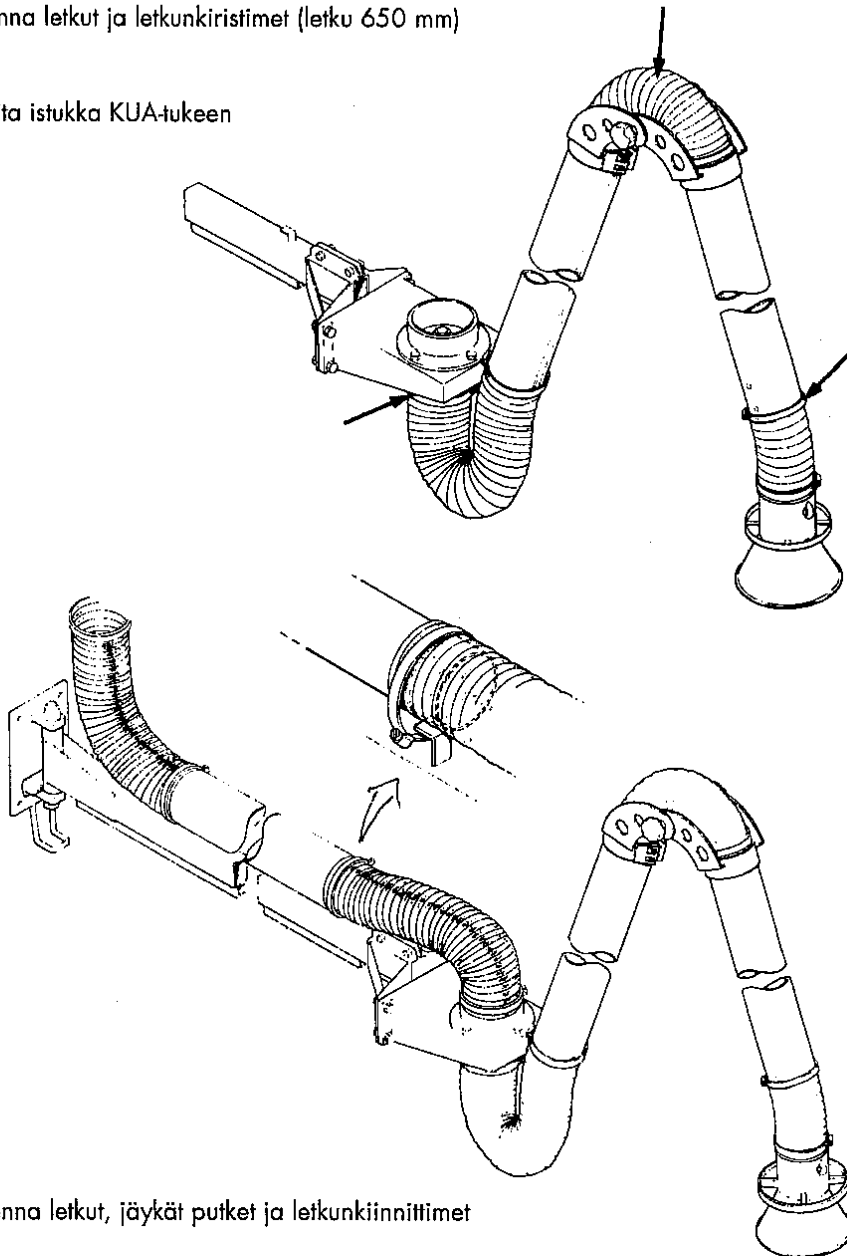


**9. Säädä kaikkien kitkaliitosten kireys**



**10. Asenna letkut ja letkunkiristimet (letku 650 mm)**

**11. Sovita istukka KUA-tukeen**



**12. Asenna letkut, jäykät putket ja letkunkiinnittimet**



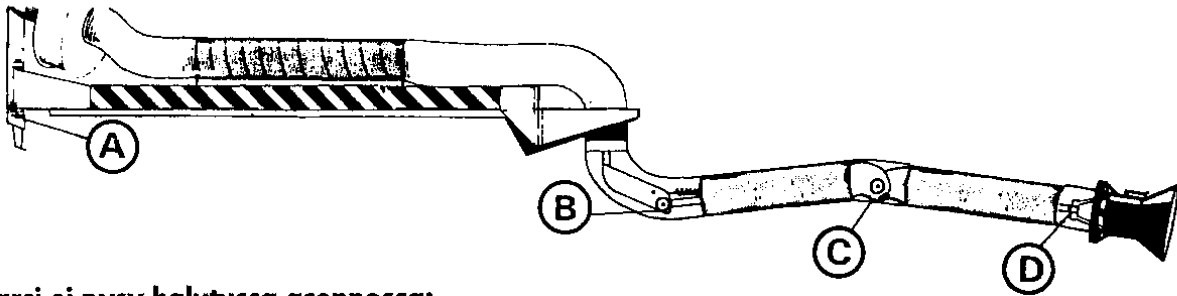
# PLYMOVENT®

## HUOITO-OHJE

BSAB no: T0.31  
Ser.no: FM/DS/SF  
Pätvlys: Jan -95  
Korvaa:

FLEX-MAX

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### A Jos varsi ei pysy halutussa asennossa:

Säädä seinäkiinnikkeen kitkaliitosta kuusiokoloavaimella.  
Tarkasta puolen vuoden välein.

### B Jos varsi ei pysy halutussa asennossa:

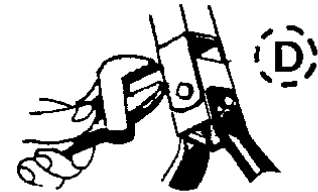
1. Irrota letku kohdasta B.
2. Vedä imuvarsi ulos vaakasuoraan asentoon koko pituudeltaan. Löysää kitkaliitosta sen verran, että varsi pyrkii taipumaan alaspäin. Kiristä liitosta niin, että varsi pysyy vaakasuorassa.
3. Jos vartta on vaikeata liikuttaa sivusuuntaan, tai se ei pysy sivusuunnassa halutussa asennossa, säädä seinäkiinnikkeen kitkaliitosta. Käytä kuusiokoloavainta.

### C Jos ulompi varsi ei pysy halutussa asennossa:

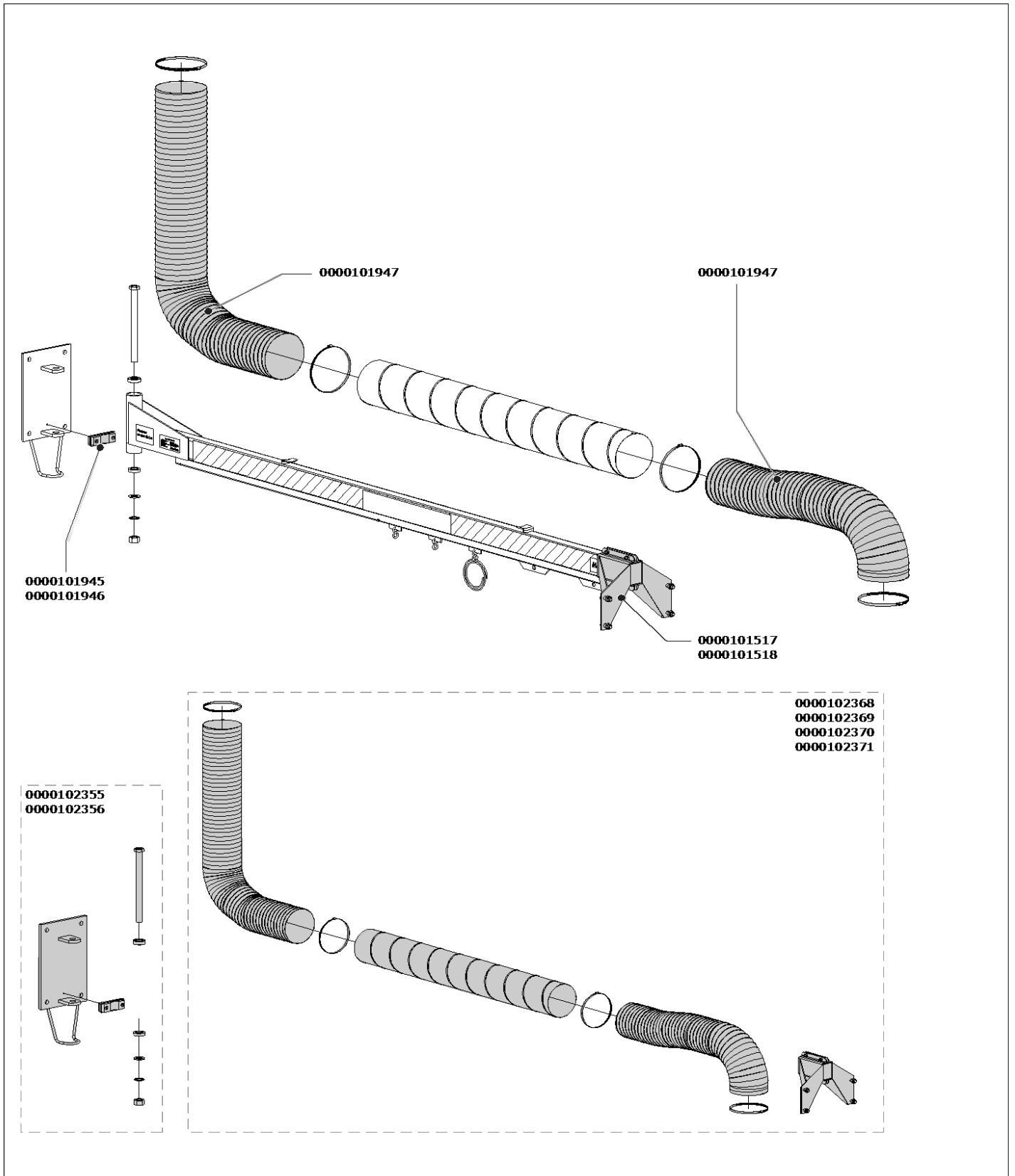
1. Aseta ulompi varsi vaakasuoraan asentoon. Löysää kitkaliitosta sen verran, että varsi pyrkii taipumaan alaspäin. Kiristä liitosta niin, että varsi pysyy vaakasuorassa.

### D Jos imukartio ei pysy halutussa asennossa:

1. Irrota letku kohdasta D.
2. Säädä kitkaliitosta (ks. kuva) niin, että imukartio pysyy tarkasti asennossaan.



Exploded view  
**FlexMax**



## Spare parts

### FM-15

| #          | Spare parts (EN)  | Reserve-onderdelen (NL)                                  | Ersatzteile (DE)  | Pièces détachées (FR)  |
|------------|---|--|---|--|
| 0000101945 | Inner brake FM-15/25 * UK-3.0/4.5                           | Binnenrem FM-15/25 * UK-3.0/4.5                          | Innenbremse FM-15/25 * UK-3.0/4.5                             | Frein intérieur FM-15/25 * UK-3.0/4.5                          |
| 0000101947 | Hose L=1300 mm/Ø 165 mm, incl. 2 hose clamps                | Slang L=1300 mm/Ø 165 mm, incl. 2 slangklemmen           | Schlauch L=1300 mm/Ø 165 mm, incl. 2 Schlauchklemmen          | Tuyau L=1300 mm/Ø 165 mm, 2 colliers de serrage inclus         |
| 0000102355 | Wall mounting bracket for FM-15/25 and UK-3.0/4.5, complete | Wandconsole voor FM-15/25 en UK-3.0/4.5, compleet        | Wandkonsole für FM-15/25 und UK-3.0/4.5, komplett             | Console murale pour FM-15/25 et UK-3.0/4.5, complète           |
| 0000102368 | Hose and duct set FM-15 (incl. mounting bracket FM-80)      | Buis- en slangset FM-15 (incl. bevestigingsbeugel FM-80) | Rohr- und Schlauchsatz FM-15 (incl. Befestigungshalter FM-80) | Jeu de tubes et tuyaux FM-15 (support de montage FM-80 inclus) |
| 0000101517 | Mounting bracket FM-80                                      | Bevestigingsbeugel FM-80                                 | Befestigungshalter FM-80                                      | Support de montage FM-80                                       |

### FM-25

| #          | Spare parts (EN)  | Reserve-onderdelen (NL)                                  | Ersatzteile (DE)  | Pièces détachées (FR)  |
|------------|---|--|---|--|
| 0000101945 | Inner brake FM-15/25 * UK-3.0/4.5                           | Binnenrem FM-15/25 * UK-3.0/4.5                          | Innenbremse FM-15/25 * UK-3.0/4.5                             | Frein intérieur FM-15/25 * UK-3.0/4.5                          |
| 0000101947 | Hose L=1300 mm/Ø 165 mm, incl. 2 hose clamps                | Slang L=1300 mm/Ø 165 mm, incl. 2 slangklemmen           | Schlauch L=1300 mm/Ø 165 mm, incl. 2 Schlauchklemmen          | Tuyau L=1300 mm/Ø 165 mm, 2 colliers de serrage inclus         |
| 0000102355 | Wall mounting bracket for FM-15/25 and UK-3.0/4.5, complete | Wandconsole voor FM-15/25 en UK-3.0/4.5, compleet        | Wandkonsole für FM-15/25 und UK-3.0/4.5, komplett             | Console murale pour FM-15/25 et UK-3.0/4.5, complète           |
| 0000102369 | Hose and duct set FM-25 (incl. mounting bracket FM-80)      | Buis- en slangset FM-25 (incl. bevestigingsbeugel FM-80) | Rohr- und Schlauchsatz FM-25 (incl. Befestigungshalter FM-80) | Jeu de tubes et tuyaux FM-25 (support de montage FM-80 inclus) |
| 0000101517 | Mounting bracket FM-80                                      | Bevestigingsbeugel FM-80                                 | Befestigungshalter FM-80                                      | Support de montage FM-80                                       |

### FM-35

| #          | Spare parts (EN)  | Reserve-onderdelen (NL)                                   | Ersatzteile (DE)   | Pièces détachées (FR)   |
|------------|---|---|--|---|
| 0000101946 | Inner brake FM-35/45 * UK-6.0/8.0                           | Binnenrem FM-35/45 * UK-6.0/8.0                           | Innenbremse FM-35/45 * UK-6.0/8.0                              | Frein intérieur FM-35/45 * UK-6.0/8.0                           |
| 0000101947 | Hose L=1300 mm/Ø 165 mm, incl. 2 hose clamps                | Slang L=1300 mm/Ø 165 mm, incl. 2 slangklemmen            | Schlauch L=1300 mm/Ø 165 mm, incl. 2 Schlauchklemmen           | Tuyau L=1300 mm/Ø 165 mm, 2 colliers de serrage inclus          |
| 0000102356 | Wall mounting bracket for FM-35/45 and UK-6.0/8.0, complete | Wandconsole voor FM-35/45 en UK-6.0/8.0, compleet         | Wandkonsole für FM-35/45 und UK-6.0/8.0, komplett              | Console murale pour FM-35/45 et UK-6.0/8.0, complète            |
| 0000102370 | Hose and duct set FM-35 (incl. mounting bracket FM-100)     | Buis- en slangset FM-35 (incl. bevestigingsbeugel FM-100) | Rohr- und Schlauchsatz FM-35 (incl. Befestigungshalter FM-100) | Jeu de tubes et tuyaux FM-35 (support de montage FM-100 inclus) |
| 0000101518 | Mounting bracket FM-100                                     | Bevestigingsbeugel FM-100                                 | Befestigungshalter FM-100                                      | Support de montage FM-100                                       |

### FM-45

| #          | Spare parts (EN)  | Reserve-onderdelen (NL)                                   | Ersatzteile (DE)   | Pièces détachées (FR)   |
|------------|---|---|--|---|
| 0000101946 | Inner brake FM-35/45 * UK-6.0/8.0                           | Binnenrem FM-35/45 * UK-6.0/8.0                           | Innenbremse FM-35/45 * UK-6.0/8.0                              | Frein intérieur FM-35/45 * UK-6.0/8.0                           |
| 0000101947 | Hose L=1300 mm/Ø 165 mm, incl. 2 hose clamps                | Slang L=1300 mm/Ø 165 mm, incl. 2 slangklemmen            | Schlauch L=1300 mm/Ø 165 mm, incl. 2 Schlauchklemmen           | Tuyau L=1300 mm/Ø 165 mm, 2 colliers de serrage inclus          |
| 0000102356 | Wall mounting bracket for FM-35/45 and UK-6.0/8.0, complete | Wandconsole voor FM-35/45 en UK-6.0/8.0, compleet         | Wandkonsole für FM-35/45 und UK-6.0/8.0, komplett              | Console murale pour FM-35/45 et UK-6.0/8.0, complète            |
| 0000102371 | Hose and duct set FM-45 (incl. mounting bracket FM-100)     | Buis- en slangset FM-45 (incl. bevestigingsbeugel FM-100) | Rohr- und Schlauchsatz FM-45 (incl. Befestigungshalter FM-100) | Jeu de tubes et tuyaux FM-45 (support de montage FM-100 inclus) |
| 0000101518 | Mounting bracket FM-100                                     | Bevestigingsbeugel FM-100                                 | Befestigungshalter FM-100                                      | Support de montage FM-100                                       |

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