Pivoting Extension Boom

Superior technology generating substantial operating savings

- Ball bearing movement
- Single or double pivot
- Increases reach of equipment by up to 20' [6,2m]
- May be equipped with Maxair fume arm, Maxireel exhaust hose reel or Maxidrop hose drop system
- Top or bottom exhaust outlets
- Two diameters available

Sept 11, 2008 version.
Leaflet under construction.
More information to come at a later date.
MAXIREACH Extension pivot boom

Maxireach pivoting extension booms are designed to increase the area of reach for source capture products such as the Maxair self supporting fume arms and vehicle exhaust equipment such as hose reels and hose drops. The extension booms aid in reaching points which are distant from a wall or other mounting areas. Extension booms can also be used to support items such as welding wire feeders or to undersling hoses or cables in conjunction with their primary function. The swivel section of the extension booms is made of rolled steel pipe. The top and bottom of the pipe is adapted to accept a fan or flanged duct connection. The extension beams are manufactured of heavy gauge steel tubing with a bearing swivel. The spiral ducting mounted along the beam has a diameter of 6” [150 mm] or 8” [200 mm]. Standard units are supplied with brackets for mounting fume arms or hose drops. Double pivot type extension booms are divided by a bearing hinge which allows the user to reach back under the extension boom.

A Leading-Edge, High-Performance Company

AQC's strength lies in its innovative products designed and developed to generate substantial savings throughout their entire operating life.

AQC is renowned for its technological innovation, safe and sophisticated equipment design, as well as its robust and precise product manufacturing. For example, the unique design of the baffles inside AQC dust collectors makes filter cleaning easy. The AQC cartridge holder design provides maximum filter surface and enhanced filter performance. The ultra-smooth concept inside AQC fume arms makes them maintenance-free.

In short, AQC equipment is designed and built to generate substantial operating savings in terms of time, money and energy. This translates to major reductions in operating costs – from 10 to 20% – throughout the equipment’s service life. This scale of savings can represent a significant portion of the equipment’s total purchase price. Companies looking to maximize their profitability should factor in these savings when purchasing equipment.

The unique design and manufacturing of AQC equipment generates significant savings for various reasons:

• Substantial increase in the duration of filters.
• Lower energy consumption during years of use.
• Significantly less maintenance (easy to clean, robust manufacturing, a minimum number of more reliable and durable parts).
• Reduced operating costs (less frequent overhauls, lack of or minimum down time, etc.).
• Lower administrative costs (coordination, follow-ups, supervision) due to much less frequent breakdowns.
• Safe design can prevent serious or even fatal accidents.
• Increased comfort and productivity of personnel.

Typical acquisition and operating dust collection equipment costs

The acquisition cost is just one part of the equation. It’s the total cost including the operating cost *throughout the life cycle of the equipment* that must be kept low. This is what AQC delivers.

The advanced technology, design, robustness, durability and safety of AQC products generate major savings during the equipment’s entire life cycle.
When extended reach is a must

A great complement to Maxair fume arms
Maxireel exhaust hose reels or Maxidrop hose drops

Most of our competitors do not include these standard features:

- Completely self-supported
- Ball bearing movement for ease of usage
- Choice of two diameters: 6” [150 mm] or 8” [200 mm] and lengths up to 20’ [6.2 m].
- Single or double pivot for multiple application
- Smooth tube design equals lower static pressure
- Robust and heavy gauge steel construction (powder painted)

Multiple possibilities for multiple applications

- Large welding shops • Truck maintenance • Dust and smoke exhaust

Typical applications for the Maxireach extension booms

Maxireach single pivot boom with Maxireel exhaust hose reel
Maxireach double pivot boom with Maxair fume arm.
Maxireach equipped with Maxidrive fan
Maxireach double pivot with Maxidrop hose drop kit
Outstanding Maxireach features

Maxireach extension swing booms are made of steel with a single or double ball bearing movement pivot joint(s). Friction disks at the joints ensure that no steel parts rub against each other causing premature wear. The spiral ducting in 6” [160 mm] or 8” [200 mm] mounted on saddles minimizes static pressure and air friction. Different lengths up to 20’ [6,2 m] are available (page 7). The support rod attached between the boom base and rod bracket ensures leveling of Maxireach boom. Flexible hoses (250º F or 120º C) at joints are clamped to spiral ducting. Higher temperature tolerance flexible hoses are available. End of boom is equipped with a support bracket for the Maxair fume arm or Maxidrop hose drop systems for vehicle fume exhaust. A custom support bracket can be installed at the end of the single pivot boom for Maxireel exhaust hose reel for vehicle fume exhaust.

Note: Installation must be made according to local building codes and regulations.
Maxireach components —
single pivot model
1. Boom base and support bracket
2. Main exhaust pipe (top or bottom exhaust)
3. Bushing pivot joint
4. Flexible hose with clamps
5. Spiral exhaust duct
6. Primary support steel beam
7. Companion flange for exhaust (end cap included)
8. Rod bracket
9. Arm or hose drop bracket
10. Support rod
11. Duct saddles

Maxireach components —
double pivot model
1. Boom base and support bracket
2. Main exhaust pipe (top or bottom exhaust)
3. Bushing Pivot joint
4. Flexible hose with clamps
5. Spiral exhaust duct
6. Primary support steel beam
7. Companion flange for exhaust (end cap included)
8. Rod bracket
9. Arm or hose drop bracket
10. Support rod
11. Duct saddles
12. Secondary support beam
13. Ball bearing pivot joint

Maximum reaches —
double pivot
with Maxair fume arm
A1. 15’ [4.60 M]
B. 5’ [1.55 M]
C. 11.2’ [3.40 M]

Maximum reaches —
single pivot
with Maxair fume arm
A2. 20’ [6.15 M]
C. 11.2’ [3.40 M]

Note for booms longer than 10’ [3 m]: First pivot booms longer than 10’ [3 m] are shipped in two (2) even sections. Ex: EBS-615 boom will have two (2) sections of 7.5’ [2.3 m]. A joiner is included to attach the sections upon installation.
**Maxireach boom base dimensions**

**Base dimensions**

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<th>Base size [inches]</th>
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<th>h</th>
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<th>L2</th>
<th>H1</th>
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<td>12.2 / 305</td>
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**Boom base 6" [150mm] with 1hp Maxidrive fan**

- **Fan data**
  - Available voltages: 115/230-1-60, 208/460-3-60, 575-3-60
  - Blade type: Backward inclined (aluminum)
  - Housing: Steel (painted)
  - Motor: TEFC
  - R.P.M.: 3450

**Boom base 8" [200mm] with 2hp Maxidrive fan**

**Note:** Refer to Maxidrive leaflet for fan capacity and technical data.
**Model numbers**

### Maxireach model numbers

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**BOOM BASE INSTALLATION NOTE:** Because of shipping and crating costs, sections of horizontal beams longer than 10’ (3 meters) are shipped in 2 parts. Ex: model EBS-615 main beam will be 15’ long but shipped in one piece of 10’ and one piece of 5’. Joining hardware is supplied for field assembly, if customer needs to have only 1 section of 15’, surcharge for odd size shipment will be quoted.

### Static pressure & air flow

**Maxireach Pivot Boom Static Pressure**

*For lengths up to 20’*

**Note:** Double pivot booms static pressure will increase as the second pivot rotates left or right. Full rotation on second pivot will increase static pressure by 35-40%. Static pressure shown in chart does not include source capture equipment. Refer to appropriate leaflet for selection.
CREATE YOUR MAXIREACH EXTENSION SWING BOOM SPECIFICATION

1. Extension swing boom should include:
   - Pull rod on 1st pivot for levelling and support (standard)

2. Extension swing boom should include:
   - Tubular steel tubing and spiral ducting for minimal static pressure (standard)

3. Extension swing boom should be of diameter of:
   - A) 6" [160mm]
   - B) 8" [200mm]

4. Extension swing boom should have a total length of:
   - A) 5' [1.55m]
   - B) 10' [3.00m]
   - C) 15' [4.60m]
   - D) 20' [6.15m]

5. Extension swing boom should consist of:
   - A) single pivot with friction disks and support base
   - B) double pivot with 2/3’rd of length on first pivot and 1/3’rd of ball bearing action on second pivot

6. Extension swing boom should include:
   - A) top ducting connection
   - B) bottom ducting connection
   - C) Maxidrive 1H.P. for 6" boom
   - D) Maxidrive 2H.P. for 8" boom

7. Extension swing boom should include:
   - A) support bracket for Maxair fume arm
   - B) support bracket for Maxireel exhaust hose reel (single pivot only)
   - C) support bracket for Maxidrop hose drop system

(for above systems, refer to appropriate leaflet)

8. Extension swing boom should include optional:
   - A) 250°F [120°C] Cotton neoprene flexible hoses at pivot joints
   - B) 600°F [315°C] Silicone fiberglass hose flexible hoses at pivot joints
   - C) 850°F [455°C] Teflon fiberglass hose flexible hose at pivot joints

9. 10' aluminium grab pole for positioning with Maxireel or Maxidrop exhaust system

Options
- Maxair fume arms
- Maxidrop exhaust hose drops
- Maxireel exhaust hose reels
- Stainless steel construction
- High or extreme temperature hoses at joints
- Non-standard lengths and diameters
- Booms connected to dust collectors
- Longer than 20’ [7 m] booms available (special design)

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