Pivoting Extension Boom

• Single or double pivot
• Adjustable pressure friction disks
• Ball bearing movement
• Increases reach of equipment by up to 20’ [6.2 m]
• May be equipped with MAXFLO fume arm, MAXREEL exhaust hose reel or MAXDROP hose drop system
• Top or bottom exhaust outlets
• Two diameters available

Superior technology generating substantial operating savings
MAXBOOM Extension pivot boom

MAXBOOM pivoting extension booms are designed to increase the area of reach for source capture products such as the MAXFLO 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 use 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.

Industrial Air Specialists

With our headquarters in Louisville, Kentucky, Diversified Air Systems, Inc. has been providing quality air solutions to industrial and commercial facilities since 1981. During our more than twenty-nine years of operation, Diversified Air Systems, Inc. has established two important company traditions: offering state-of-the-art equipment at competitive prices and achieving long-term customer satisfaction.

The staff of Diversified Air Systems, Inc. includes five application engineers, with a combined experience of more than 75 years in the air filtration and HVAC industry. Whether your facility requires an air filtration system for dust, mist, or fumes, or an HVAC solution to meet ventilation needs, Diversified Air Systems, Inc. has the equipment and expertise to meet the need.

Services include air quality analysis, system design, equipment sales, turnkey installation, onsite servicing, and supply of replacement filters and accessories.

Other Filtration Systems available:

Air Cleaners
Containment Booths
Decontamination Booths
Downdraft Tables
Dust Collectors
Fans and Blowers
Gas & Odor Control

High Vacuum Systems
Mist Collectors
Paint Booths
Stainless Steel Collectors
Vehicle Exhaust Systems
Wet Dust Collectors
MAXBOOM when extended reach is a must

A great complement to MAXFLO fume arms, MAXREEL exhaust hose reels or MAXDROP hose drops

Most of our competitors do not include these standard features:

- Completely self-supported
- Ball bearing movement for ease of usage (2nd pivot)
- 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 various applications

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

Typical applications for the MAXBOOM extension booms

MAXBOOM double pivot boom with MAXFLO fume arm.
**Outstanding MAXBOOM features**

- Heavy-duty boom base
- Support rod ensures leveling of boom
- Arm or hose drop bracket included
- Optional MAXDRIVE fan can be mounted on top of boom
- 6" [150 mm] or 8" [200 mm] exhaust sizes
- Choice of top or bottom exhaust
- 180° pivot joint with friction disks
- 270° ball bearing pivot middle joint (on double pivot model) with friction disks
- Spiral ducting for minimal static pressure
- Sturdy painted steel tubing

**General description**

MAXBOOM 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 MAXBOOM 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 MAXFLO fume arm or MAXDROP hose drop systems for vehicle fume exhaust. A custom support bracket can be installed at the end of the single pivot boom for MAXREEL exhaust hose reel for vehicle fume exhaust.

*Note: Installation must be made according to local building codes and regulations*
MAXBOOM main components

MAXBOOM 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

MAXBOOM 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 MAXFLO fume arm

A1. 15’ [4.60 M]
B. 5’ [1.55 M]
C. 11.2’ [3.40 M]

Maximum reaches —
single pivot
with MAXFLO fume arm

A2. 20’ [6.15 M]
C. 11.2’ [3.40 M]

MAXBOOM installation note: installation height of horizontal beam and equipment at end of such beam should be coordinated with the facility manager for safety of the employees. Lateral movement of the MAXBOOM extension swing boom should not encumber other equipment or be a potential risk of injury to employees. Refer to appropriate leaflet for optional equipment selected with MAXBOOM boom.

Shipping note: because of freight restrictions, longer than 10’ (3 m) MAXBOOM extension booms are shipped in two (2) sections. Main tube will need field assembly with joiner included.
**MAXBOOM BOOM BASE DIMENSIONS**

**Boom base 8" [200 mm]**

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<th>Base size [inches]</th>
<th>W</th>
<th>h</th>
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<th>L2</th>
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<th>H2</th>
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**Note:** refer to MAXDRIVE leaflet for fan capacity and technical data.

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**Max boom dimensions with 1HP MAXDRIVE fan (top view)**

**Max boom dimensions with 2HP MAXDRIVE fan (top view)**

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**Chart 1**

**Static pressure & airflow**

**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
### Model numbers

#### MAXBOOM model numbers

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MAXREEL OPTIONAL EQUIPMENT NOTE AND MODEL NUMBER: add suffix letter H to MAXBOOM model number for extension booms equipped with hose reel. Ex: EBSH-1815 instead of EBS-1815. Refer to MAXREEL leaflet for details.

### Static pressure & air flow

**MAXREACH PIVOT BOOM STATIC PRESSURE**

*For lengths up to 20’*

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<th>Static pressure (Pa) / (w.g.)</th>
<th>Flow (cfm) / (L/s)</th>
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</tr>
<tr>
<td>1000</td>
<td>500</td>
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<tr>
<td>1075</td>
<td>565</td>
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6” (160 mm) diameter | 8” (200 mm) diameter

**Superior technology generating substantial operating savings**

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 MAXBOOM extension swing boom specification

1. Extension swing boom should include:
   - Painted tubular steel tubing, spiral ducting, adjustable pressure friction disks at joints, 275 °F hoses at boom base and pivot joints and support bracket for MAXFLO fume arm or MAXDROP hose drop system, pull rod on 1st pivot for levelling and support, adjustable pressure friction disks at boom base pivot ball bearing movement on second pivot.

2. Extension swing boom should have diameter of:
   - A) 6” [160 mm]
   - B) 8” [200 mm]

3. Extension swing boom should have total length of:
   - A) 5’ [1,55 m]
   - B) 10’ [3,10 m]
   - C) 15’ [4,60 m]
   - D) 20’ [6,15 m]

4. Extension swing boom should consist of:
   - A) single pivot with adjustable pressure friction disks and support base
   - B) double pivot with 2/3’rd of total length on first pivot and 1/3’rd remaining on second pivot

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

6. Extension swing boom should include:
   - support bracket for MAXREEL exhaust hose reel (single pivot only)

7. Extension swing boom should include optional:
   - A) 500 °F [260 °C] flexible hoses at pivot joint(s)
   - B) 900 °F [480 °C] flexible hoses at pivot joint(s)
   - C) telescopic aluminium grab pole for lowering nozzle from MAXREEL or MAXDROP exhaust system
   - D) lateral positioning cable and handle kit for booms equipped with MAXREEL or MAXDROP exhaust system