

MAXBOOM™

Pivoting Extension Boom



- *Ball bearing movement*
- *Single or double pivot*
- *Increases reach of equipment by up to 20' [6,2m]*
- *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



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
- 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)

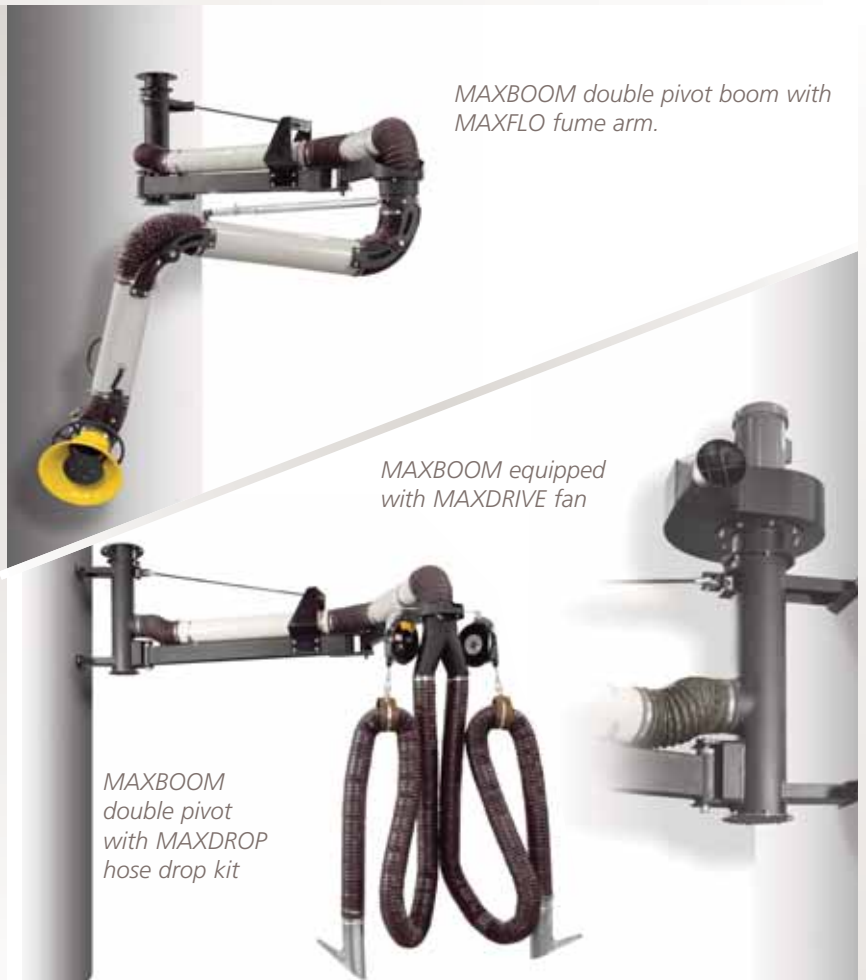
MULTIPLE POSSIBILITIES FOR VARIOUS APPLICATIONS

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

TYPICAL APPLICATIONS FOR THE MAXBOOM EXTENSION BOOMS



MAXBOOM single pivot boom with MAXREEL exhaust hose reel

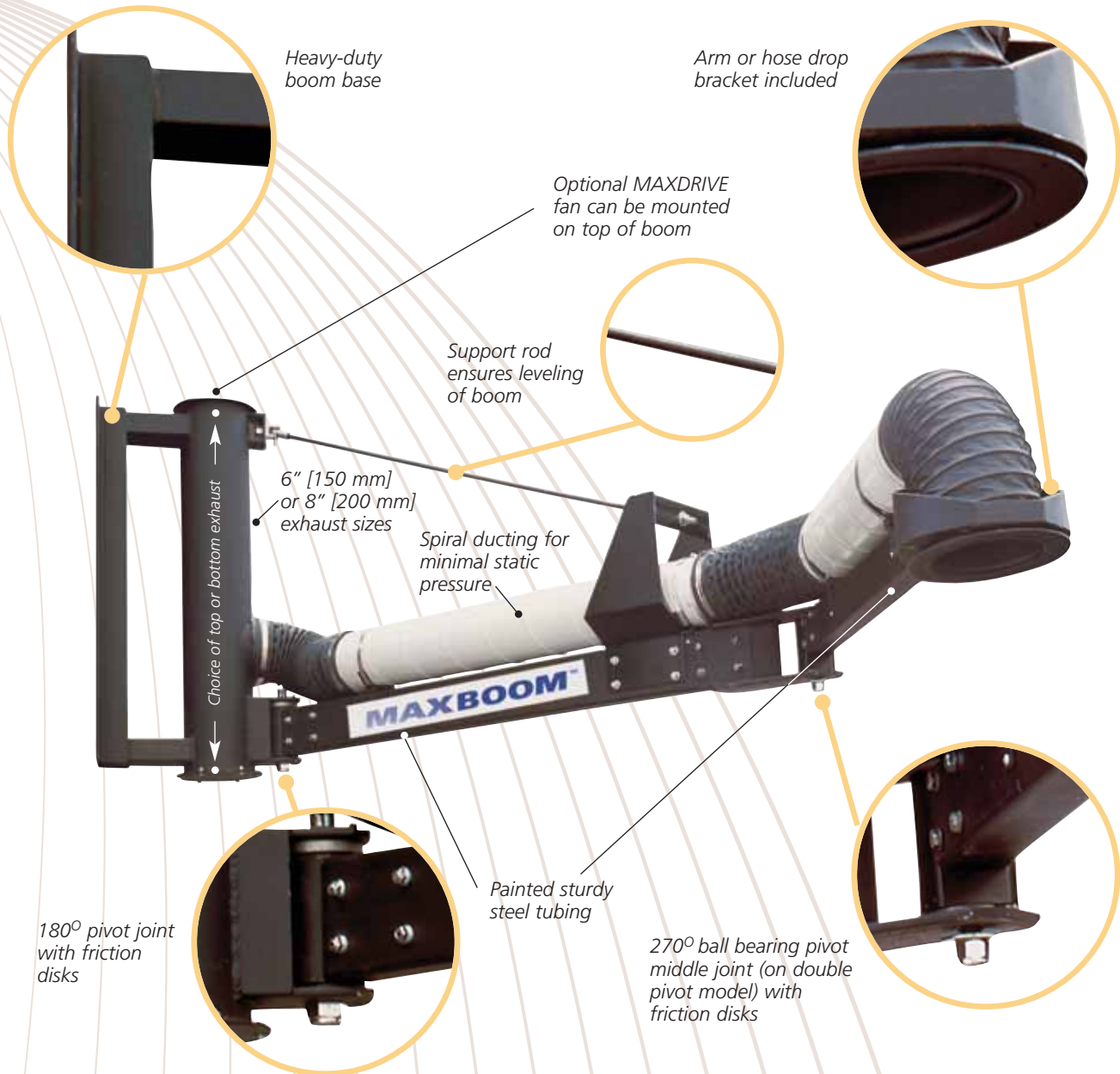


MAXBOOM double pivot boom with MAXFLO fume arm.

MAXBOOM equipped with MAXDRIVE fan

MAXBOOM double pivot with MAXDROP hose drop kit

OUTSTANDING MAXBOOM FEATURES



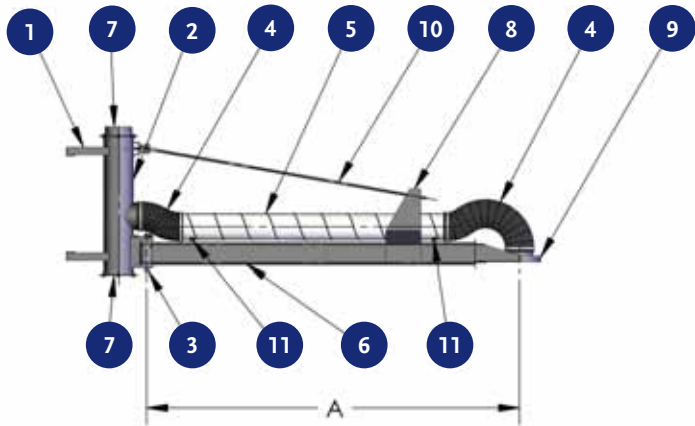
GENERAL DESCRIPTION

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 (250° F or 120° 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

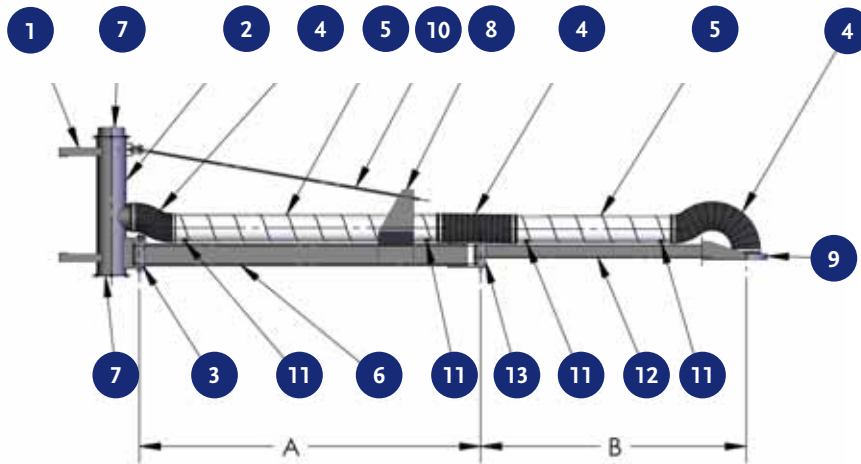
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OUTSTANDING MAXBOOM FEATURES



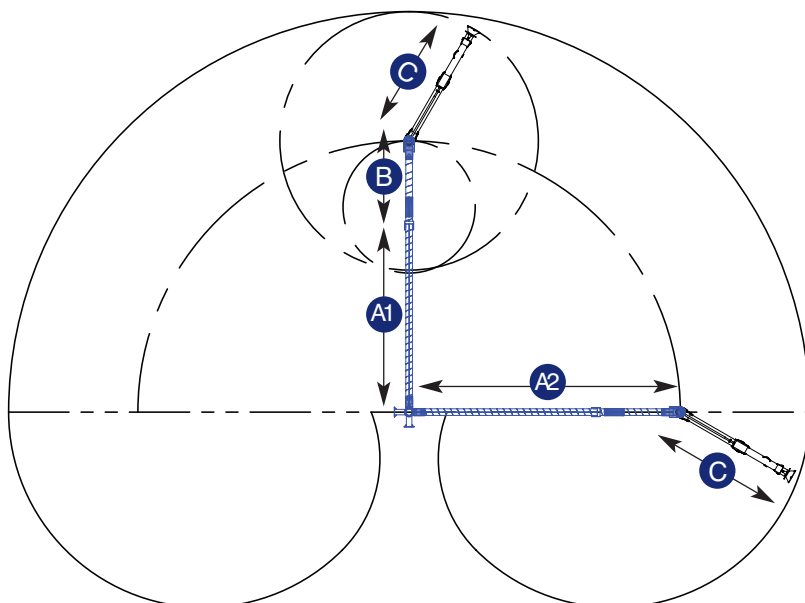
MAXBOOM components —
single pivot model

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

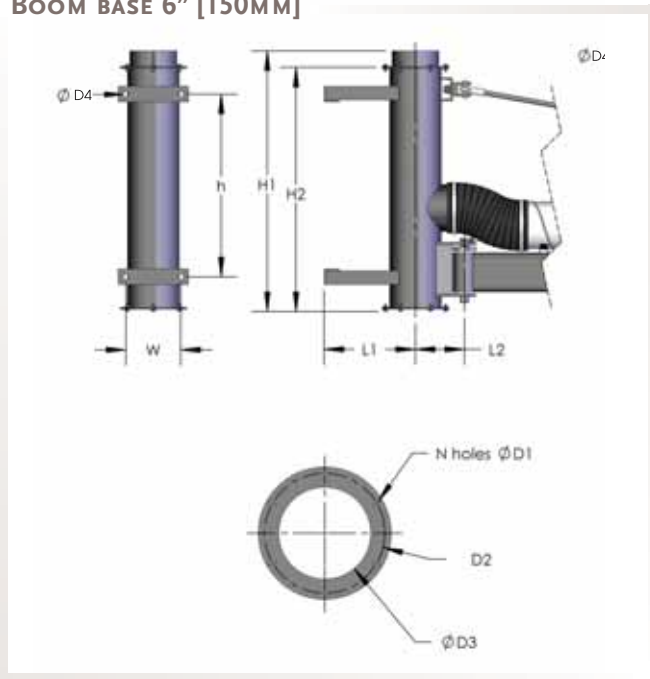
- A2. 20' [6.15 M]
- C. 11.2' [3.40 M]

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-1615 boom will have two (2) sections of 7,5' [2.3 m]. A joiner is included to attach the sections upon installation.

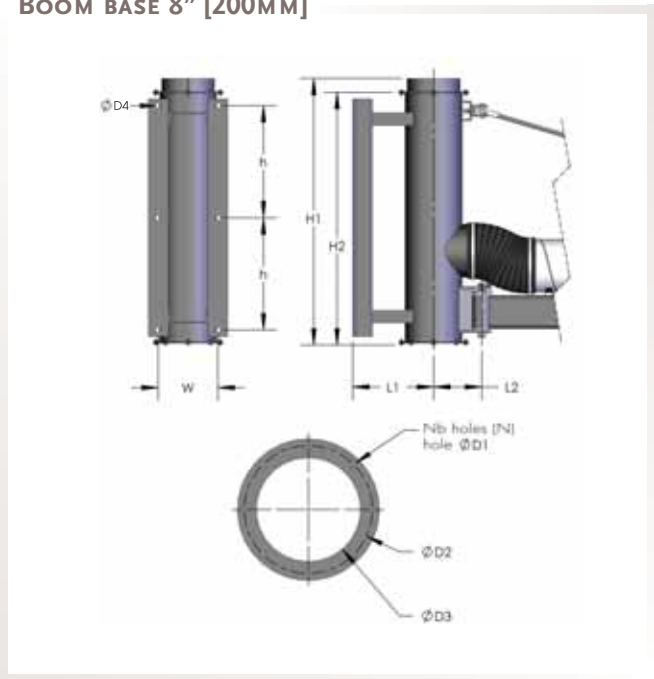
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MAXBOOM BOOM BASE DIMENSIONS

BOOM BASE 6" [150MM]



BOOM BASE 8" [200MM]

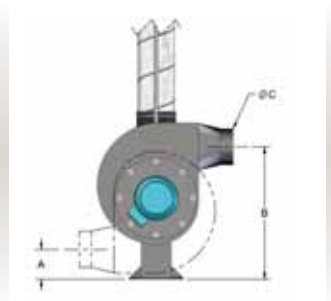


Base dimensions

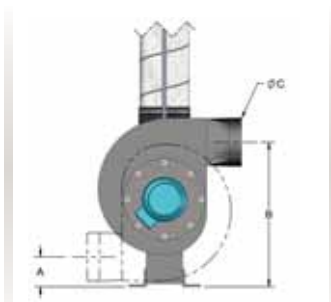
CHART 1

Base size [inches]	Dimensions [inches] / [mm]										
	W	h	L1	L2	H1	H2	N	D1	D2	D3	D4
6	7 / 178	23.4 / 594	11.69 / 297	6.26 / 159	33.39 / 848	31.29 / 795	6	0.31 / 8	7.69 / 195	5.88 / 150	0.875 / 22
8	9 / 225	17 / 425	12.2 / 305	11 / 279	38.10 / 752	41.10 / 1027	8	0.34 / 9	9.69 / 246	7.88 / 200	0.875 / 22

BOOM BASE 6" [150MM] WITH 1HP MAXDRIVE FAN

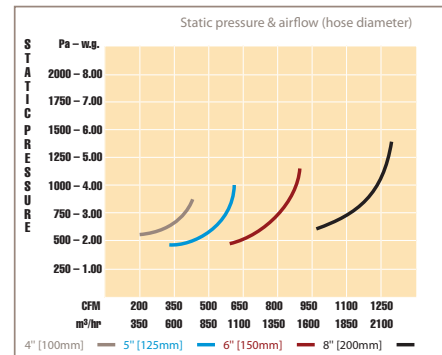
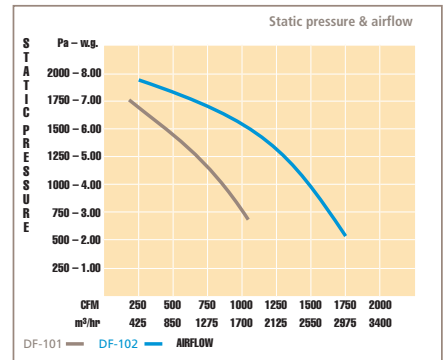


BOOM BASE 8" [200MM] WITH 2HP MAXDRIVE FAN



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

Note: Refer to MAXDRIVE leaflet for fan capacity and technical data.



MODEL NUMBERS

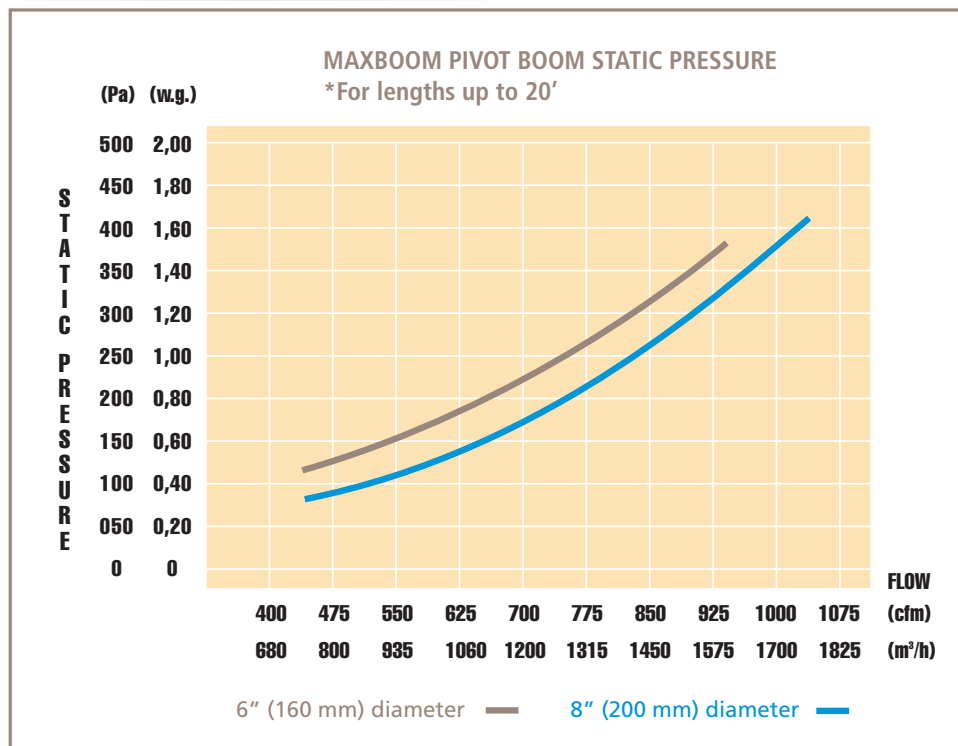
MAXBOOM MODEL NUMBERS

CHART 2

Model numbers	Reach of work [feet] / [m]			Ducting diameter [inches] / [mm]	Minimum mounting height [feet] / [m]	Boom load capacity [lb] / [kg]	Number of pivots	Weight [lbs] / [kg] without fan
	A	B	Total					
EBS-1605	5 / 1.55	—	5 / 1.55	6 / 152	7.8 / 2.4	150 / 70	1	124 / 58
EBS-1610	10 / 3.10	—	10 / 3.10	6 / 152	7.8 / 2.4	150 / 70	1	144 / 67
EBS-1615	15 / 4.60	—	15 / 4.60	6 / 152	7.8 / 2.4	150 / 70	1	168 / 77
EBS-1620	20 / 6.15	—	20 / 6.15	6 / 152	7.8 / 2.4	150 / 70	1	200 / 91
EBD-160302	3 / 0.92	2 / 0.60	5 / 1.55	6 / 152	7.8 / 2.4	75 / 34	2	170 / 77
EBD-160703	7 / 2.15	3 / 0.92	10 / 3.10	6 / 152	7.8 / 2.4	75 / 34	2	177 / 82
EBD-161005	10 / 3.10	5 / 1.55	15 / 4.60	6 / 152	7.8 / 2.4	75 / 34	2	185 / 84
EBD-161505	15 / 4.60	5 / 1.55	20 / 6.15	6 / 152	7.8 / 2.4	75 / 34	2	200 / 91
EBS-1805	5 / 1.55	—	5 / 1.55	8 / 200	7.8 / 2.4	150 / 70	1	195 / 88
EBS-1810	10 / 3.10	—	10 / 3.10	8 / 200	7.8 / 2.4	150 / 70	1	214 / 97
EBS-1815	15 / 4.60	—	15 / 4.60	8 / 200	7.8 / 2.4	150 / 70	1	235 / 107
EBS-1820	20 / 6.15	—	20 / 6.15	8 / 200	7.8 / 2.4	150 / 70	1	254 / 115
EBD-180302	3 / 0.92	2 / 0.60	5 / 1.55	8 / 200	7.8 / 2.4	75 / 34	2	230 / 104
EBD-180703	7 / 2.15	3 / 0.92	10 / 3.10	8 / 200	7.8 / 2.4	75 / 34	2	255 / 116
EBD-181005	10 / 3.10	5 / 1.55	15 / 4.60	8 / 200	7.8 / 2.4	75 / 34	2	272 / 124
EBD-181505	15 / 4.60	5 / 1.55	20 / 6.15	8 / 200	7.8 / 2.4	75 / 34	2	298 / 135

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-1615 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



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.

OPTIONS

- MAXFLO fume arms
- MAXDROP exhaust hose drops
- MAXREEL 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)

CREATE YOUR MAXBOOM 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' [3,10m]
- 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) MAXDRIVE 1H.P. for 6" boom
- D) MAXDRIVE 2H.P. for 8" boom

7. EXTENSION SWING BOOM SHOULD INCLUDE:

- A) support bracket for MAXFLO fume arm
- B) support bracket for MAXREEL exhaust hose reel (single pivot only)
- C) support bracket for MAXDROP 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. [650°C] Teflon fiberglass hose flexible hose at pivot joints

9. 10' aluminium grab pole for positioning with MAXREEL or MAXDROP exhaust system

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