Luxo Maximum Arm

Self-balancing arms for bedside monitors in the healthcare sector

A history of caring for the healthcare sector

For more than 80 years Luxo has designed innovative, ergonomic lighting products and concepts. Luxo products improve lighting conditions, taking particular care of individual needs.

Our history of lighting for the individual began with the development of the Luxo L-1 task light in 1937. The freedom of movement and the ability to place the light exactly where it was needed forever changed our working environments.

The secret was in the arm…

L-1 was designed by Luxo's founder, the industrialist Jac Jacobsen, and is still in production. The lamp arm is balanced by springs that work on the action and reaction principle of human arm muscles.

L-1 soon became known to improve performance in schools, offices and healthcare facilities, and a design icon among architects and designers all over the world. Jac Jacobsen soon realized that his spring-balanced arm would carry a variety of different luminaires for various purposes – particularly in the medical sector.

The decades following World War II saw the development of a wide range of products based on the L-1 arm: illuminated magnifiers, patients' reading lights and more.

…and still is!

Our engineers constantly strive to develop new applications for our technology – and new technology for a variety of new applications. Today we offer a range of specialized arms for many different applications.

Each arm has its own characteristics and features making them suited to a multitude of product applications and business solutions. The most powerful of them all is the Maximum arm, with a load capacity of up to 22 lb. Having more than 100,000 Maximum arms installed worldwide has given us a wealth of experience and knowledge.

Dedicated to the medical sector

Above all, the medical sector needs dependable and hygienic equipment. Precision and reliability is a must. We have worked with the medical sector for many decades, and have developed a number of arms especially for hospital use. Most of our medical luminaires are produced according to the ISO 13485 (medical) standard. We are familiar with the strict hygienic standards. We know what it takes and have the experience needed to be a best-in-class supplier to the medical sector.

This L-1 L magnifier was manufactured in 1955. It is still in daily use. Luxo pioneered the development of arm-based products for the medical sector.

Perfect balance
Maximum strength

The Maximum arm has been developed specifically for use with monitors, tablets and patient terminals. It offers long reach, perfect balance, and maximum vertical and horizontal movement.

It is easily repositioned as required. The wiring is built into the arm, allowing cabling with connectors to be used without modification.

Made to order

The Maximum arm is made to order. The springs require careful calibration to match the weight of what it is meant to carry. Correctly calibrated, the self-balancing arm with internal gas springs will last for more than 50,000 cycles of use. The arm is designed to protect internal wiring, minimizing stress and potential cable pinching.

The Maximum arm is protected by a 5 year limited warranty which includes movement and components.

The Luxo Maximum arm is a parallel, three-pivot arm with internal gas springs. It is available in two different lengths, and has a load capacity of up to 10 kg (Maximum 110 arm).

Maximum 150

Load capacity: 1-7 kg

The Maximum 150 arm has been developed specifically for use with monitors and patient terminals. It offers a 150 cm reach, very high vertical movement, perfect balance, and is easily and quickly repositioned as required. Wiring is built into the arm, allowing cabling with connectors to be used without modification.

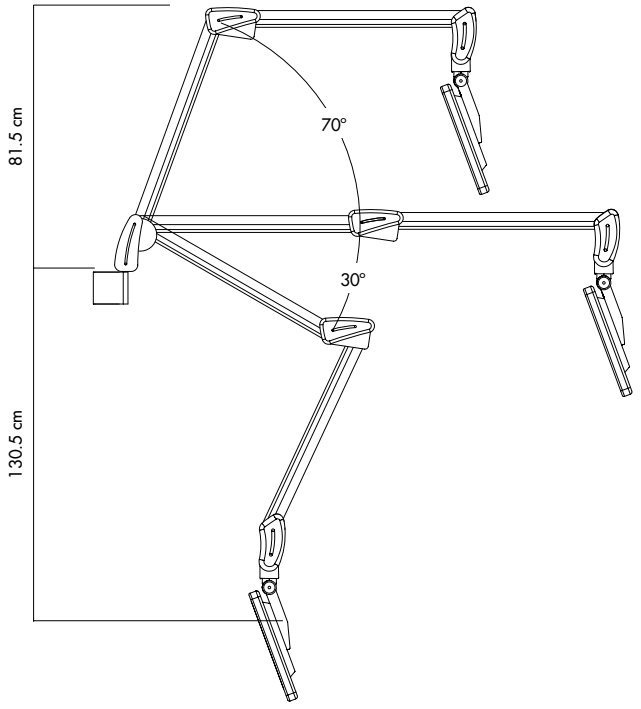
Maximum 150

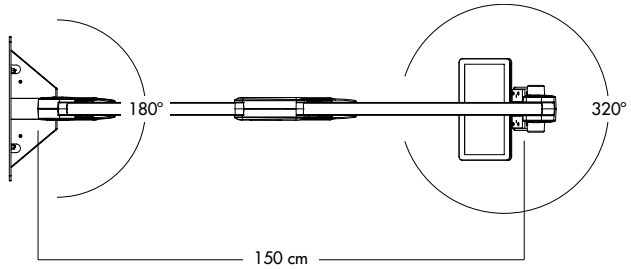
Technical information

The arm is designed to fully protect the internal wiring. It is designed to allow for 5 cm bending radius, minimizing stress and potential cable breakage. Wiring is built into the arm, not pulled through. The advantage is that cabling with large connectors such as HDMI can be used without modification.

The Maximum arm is built to order. This is a self-balancing arm with internal gas springs. The gas springs need careful calibration to give optimum performance. Correctly calibrated, the arm will last for more than 50,000 cycles.

Arm family: Maximum arm
Arm type: Closed
Mounting: Vertical/Wall
Total reach: 150 cm
Weight range: 1-7 kg





Accessories:

Maximum wall bracket

Maximum wall box

Maximum bushing

Maximum VESA mount

Maximum 110

Load capacity: 1-10 kg

The Maximum 110 arm has been developed specifically for use with monitors and patient terminals. It offers a 110 cm reach, very high vertical movement, perfect balance, and is easily and quickly repositioned as required. It is more compact than the Maximum 150, and can carry weights of up to 10 kg. Wiring is built into the arm, allowing cabling with connectors to be used without modification.

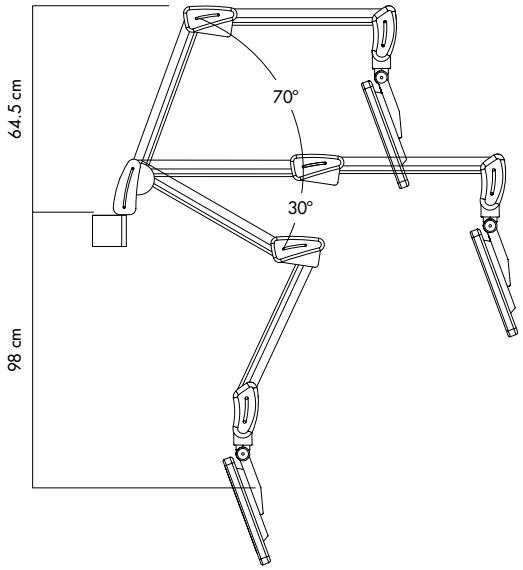
Maximum 110

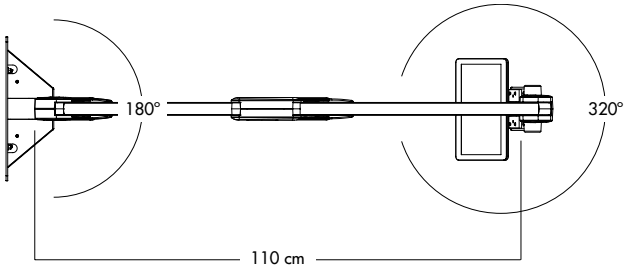
Technical information

The arm is designed to fully protect the internal wiring. It is designed to allow for 5 cm bending radius, minimizing stress and potential cable breakage. Wiring is built into the arm, not pulled through. The advantage is that cabling with large connectors such as HDMI can be used without modification.

The Maximum arm is built to order. This is a self-balancing arm with internal gas springs. The gas springs need careful calibration to give optimum performance. Correctly calibrated, the arm will last for more than 50,000 cycles.

Arm family: Maximum arm
Arm type: Closed
Mounting: Vertical/Wall
Total reach: 110 cm
Weight range: 1-10 kg





Accessories:

Maximum wall bracket

Maximum wall box

Maximum bushing

Maximum VESA mount

Product options

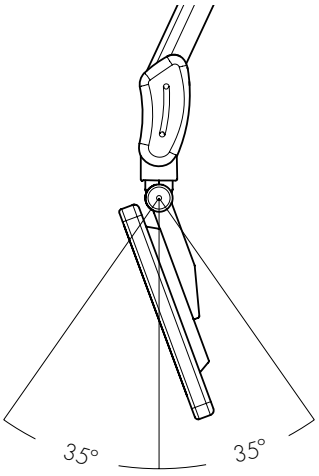
Colors

White (RAL 9010)

Grey (RAL 7035)

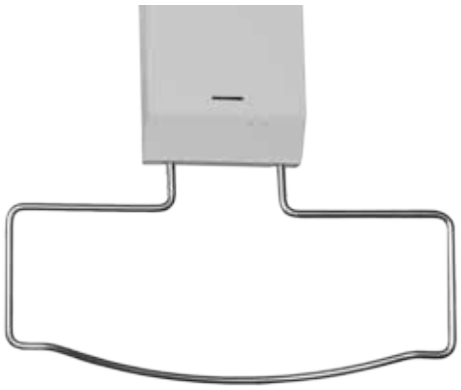
VESA mount

Secure VESA mount for monitor or digital device mounting. It is designed to the VESA 75 standard, a 7.5 cm by 7.5 cm hole pattern, and can carry a total weight up to 7 kg. The screen mount has built-in springs to ease the movement of the screen.



Grab handle

Accessory Grab handle for VESA mount allows for easy adjustability of the screen. The handle can be fitted to the reverse side of the screen permitting easy adjustability.



Spigot options

Male spigot
The inner diameter is 20 mm.
The outer diameter (through bracket) is 25 mm.
The cables and connectors must fit in a hole with a maximum diameter of 20 mm.

Exit through spigot

Female spigot
The inner diameter is 18 mm.
The inner diameter towards the bracket is 32 mm.
The cables and connectors must fit in a hole with a maximum diameter of 18 mm.

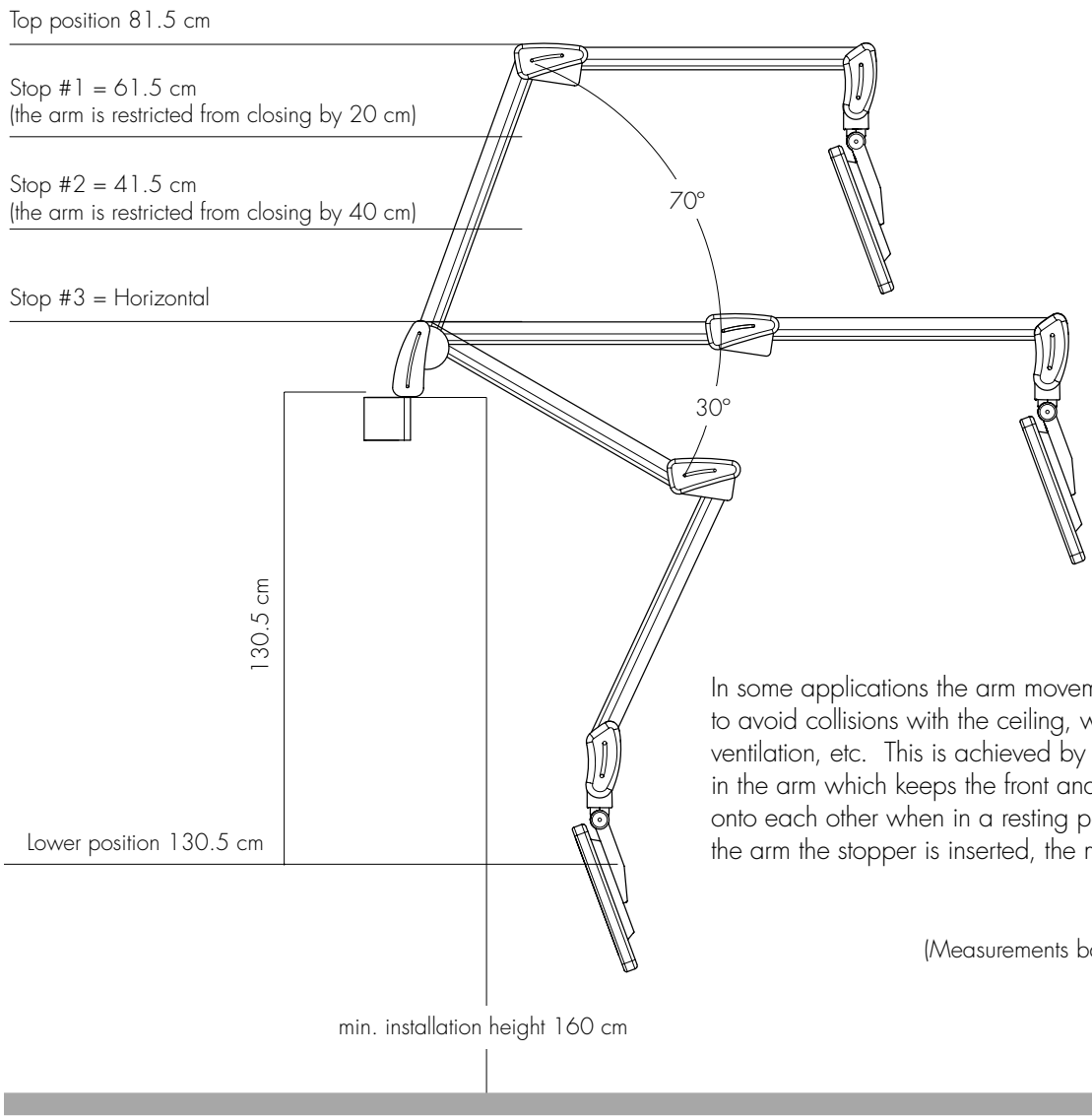
Exit throught bottom joint

Cable passage

The dimensions of the spigot determine the size of the connectors which can be passed through the arm. The maximum available cross section for the cables inside the arm is 9 mm x 25 mm.
NOTE: The maximum space available when using a VESA mount is 9 mm x 15 mm.

Product options

Arm movement restriction stopper



In some applications the arm movement needs to be restricted to avoid collisions with the ceiling, wall mounted equipment, ventilation, etc. This is achieved by using a restriction stopper in the arm which keeps the front and back arms from folding onto each other when in a resting position. The further down the arm the stopper is inserted, the more open it will be.

(Measurements based on Maximum 150 arm)

Mounting options

Maximum wall mount

Heavy-duty extruded aluminum bracket for wall mounting of the Maximum arm. Steel end caps and nylon bushing. Colors: white or light grey.

Maximum wall box

Powder coated wall box to accommodate power supply transformer and for easy arm mount on weak wall constructions. Colors: white or light grey.

Maximum bushing

For mounting to a bracket or wall system not manufactured by Luxo. Color: black.

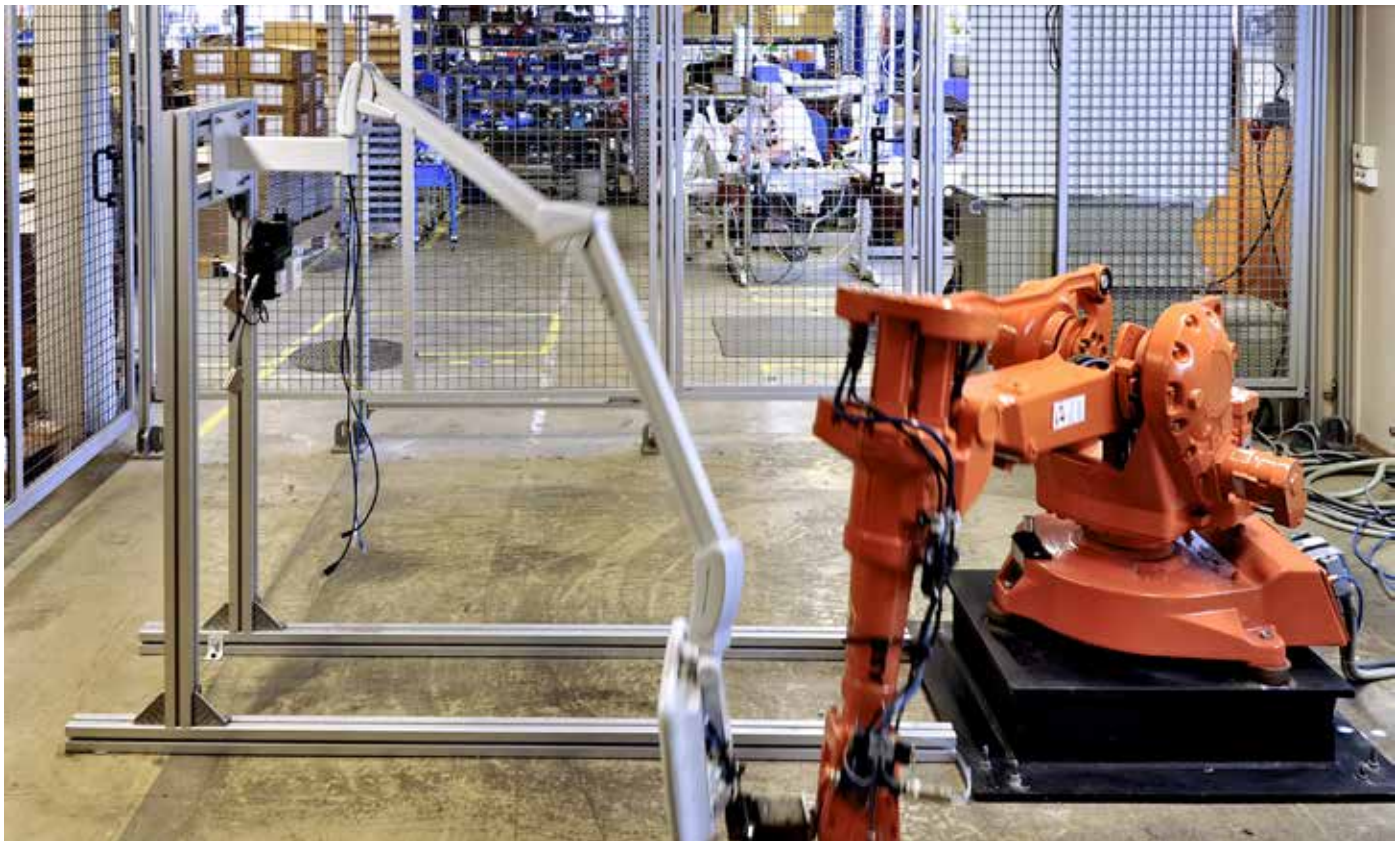
Ordering guide

Complete the following table and submit to Luxo
orders@luxous.com, fax: 800-648-2978.

Date:		Offer / Order Ref.No:	
Customer information			
Company name:		Contact person:	
Street address:		City/State/Zip:	
Phone		Email address:	
Available product options			
Reach length of arm	☐ 150 cm	☐ 110 cm	
Standard color	☐ White RAL 9010	☐ Grey RAL 7035	
VESA 75 mount	☐ Yes	☐ No	
Heat sink	☐ No (standard)	☐ Yes	
Grab Handle	☐ Yes	☐ No	
Spigot	☐ Male (standard)	☐ Female	
Cable passage	☐ Inside spigot (standard)	☐ Out of lower joint	
Warranty	5 years		
Stopper	☐ No stopper ☐ Stopper position 2 (415 mm)	☐ Stopper position 1 (615 mm) ☐ 3 horizontal	
Wall mount	☐ Luxo wall bracket ☐ Maximum wall bracket	☐ Maximum wall box	
Pack quantities	☐ Bulk packing (standard), 15 units per box, two boxes per pallet.	☐ Single packing at extra cost	
Screen specification			
Terminal type:	Screen size: cm		
Width : cm	Height : cm	Thickness : cm	Weight: kg
Phone	☐ Yes	☐ No	Weight: kg
Smart card reader	☐ Yes	☐ No	Weight: kg
Headset	☐ Yes	☐ No	Weight: kg
Keyboard	☐ Yes	☐ No	Weight: kg
Other 1	Specify:		Weight: kg
Other 2	Specify:		Weight: kg
Cables	Mounted by Luxo		Weight: kg
		Total weight (screen & all accessories):	kg
Comments / other input: Maximum voltage of application: 50V.			

Quality assurance and testing

Trust is good. Testing is even better. Because of the high demands on the quality and service life of the Maximum arm, we pay great attention to quality issues and testing.



Testing: 30,000 cycles during six weeks

All Luxo arms are tested at our own research and testing facilities. We run the Maximum arm (with cables) through cycle tests of 30,000 movements by robot. Each cycle lasts 2 minutes and involves all possible movements of the arm. The procedure takes a total of six weeks of continuous movement – day and night.

ISO certification

The Maximum arm is manufactured in accordance with the ISO 9001 quality standard. The factory also holds the ISO 14001 environmental approval and the ISO 13485 (medical) certificate. Our environmental routines are integrated in our quality systems.

Management System Certificate

Glamox AS, BU Luxo Production Kirkenær

Industriveien, 2260 Kirkenær

ISO 13485:2003/NS-EN ISO 13485:2012/ISO 9001:2008

Product development, purchasing and manufacturing related to lighting products, mechanical arms and holders.

DNV Nemko Presafe AS

IQNet

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

Glamox ASA, BU Luxo Production Kirkenær

Kirkenær, Norway

Product development, purchasing and manufacturing related to lighting products, mechanical arms and copy holders

Environmental Management System

ISO 14001:2004

Registration Number: NO-801007

Luxo

For more than 80 years Luxo has designed arm-based innovative, ergonomic lighting, medical and magnification products. Luxo products improve work efficiency, taking particular care of individual needs.

Luxo products and solutions are developed and tested by our engineers at our own research and testing facilities, and manufactured and certified in accordance with all relevant quality and environmental standards. They are based on the latest technology and expertise - and generations of experience.

North American Distributor
of Luxo Industrial Products

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unitronusa.com

5 YEAR WARRANTY

Please refer to our website for information about our 5-year warranty.