



Cell clamps & Frames

Holding on firmly

Category brochure

Flexibility Behind Your Show



Full range of our cell clamps solutions



About Us



MILOS was the brainchild of young Czech DJ, Franti Zykan, who started manufacturing truss in 1994 out of a small garage in the Czech Republic. He chose MILOS as the name of his company in honour of his grandfather, with whom he spent a large part of his childhood.

From the very start, Franti adhered to two defining principles in the manufacture of MILOS truss products: simplicity and affordability, without compromising on quality. MILOS customers appreciated and valued this philosophy, which led to the quick growth of MILOS. Within a few years, it established a second office in Germany and then further expanded into the UK, the United States and China.

Fast forward to today, more than a quarter of a century after first opening the doors of its garage, and MILOS has grown into an international brand with a presence in 40 countries on every continent of the globe.

MILOS is currently driven by incredibly enthusiastic professionals and operates two state-of-the-art factories in Europe and China. Both factories follow a unique production process that was developed in-house in the Czech Republic. It focuses on a flexible production process that was successfully transferred from the automotive industry. Designed to solve the problem of constantly changing priorities, its production line operates at high speed, manufactures products with flawless quality and reduces manufacturing costs. Never content to rest on its laurels, MILOS continues to streamline and refine its production process year after year.

Going forward, MILOS will continue its long tradition of offering the highest quality products that feature professional craftsmanship, cutting edge technology and market leading user-friendliness.

Cell clamps

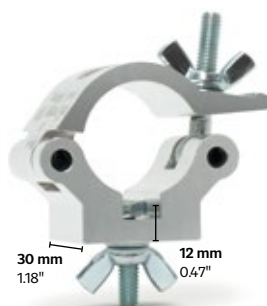
Holding on firmly



Use QR code
for full range

CELL130

- Designed to fit 32–35 mm (1.25–1.38") truss tubes
- Precision-extruded, high-tensile aluminium alloy
- Compatible with M222 truss series
- CE-certified
- Polished surface with micro-percussion markings
- Rated with SF 8:1 (kg) DGUV 17/BGV C1 (SWL1)
- Rated with SF 4:1 (kg) 2006/42/EC (SWL2)
- Interchangeable M10 bolt ensures flexible attachment points
- Black-anodised versions available on request
- Black-anodised versions of CELL131/134 available



CELL131 / CELL131|Anodised

Basic clamp

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	160 (353)	330 (728)	0.10 (0.20)	32–35 (1.26–1.38)

Basic clamp, can be used for most applications.

CELL132 / CELL132|Anodised

Clamp with bolt and wingnut

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	160 (353)	330 (728)	0.25 (0.33)	32–35 (1.26–1.38)

Clamp supplied with M10×30 bolt and wingnut.



CELL133 / CELL133|Anodised

Clamp with lifting eye

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	160 (353)	330 (728)	0.70 (1.54)	32–35 (1.26–1.38)

Clamp with lifting eye.

CELL134 / CELL134|Anodised

Swivel coupler

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	160 (353)	330 (728)	0.80 (1.76)	32–35 (1.26–1.38)

Set of two clamps free to rotate 360° for connecting of two tubes.

CELL200

- Designed for 48–51 mm (1.89–2.00") diameter tubes
- Precision-extruded, high-tensile aluminium alloy
- Compatible with M290 / M390 / M400 / M520 / M760 / 4GS-35 / 4GS-50 / 4GS-62
- Supplied with M12 bolt and wingnut
- Mounting hole for up to 13-mm (0.51") bolts
- Polished surface with micro-percussion markings
- Powder-coated versions available on request
- Rated with SF 8:1 (kg) DGUV 17/BGV C1 (SWL1)
- Rated with SF 4:1 (kg) 2006/42/EC (SWL2)
- Black-anodised versions of CELL201/203/204/207 available



CELL201 / CELL201|Anodised

Basic clamp

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		650 (1433)	1300 (2865)	0.50 (1.10)	48–51 (1.89–2)

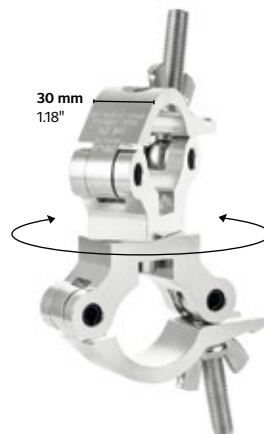
Basic clamp, can be used for most applications.

CELL204 / CELL204|Anodised

Swivel coupler

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		540 (1190)	1080 (2381)	1.00 (2.20)	48–51 (1.89–2)

Set of two clamps free to rotate 360° for connecting of two tubes.



CELL207 / CELL207|Anodised

Slim basic clamp

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		560 (1234)	1120 (2469)	0.30 (0.66)	48–51 (1.89–2)

Slim basic clamp, can be used for most applications.

CELL214 / CELL214|Anodised

Swivel coupler

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		490 (1080)	980 (2160)	0.71 (1.57)	48–51 (1.89–2)

48–51 mm slim swivel coupler (CELL207 + CELL207 assembly).

CELL300

- Designed for 60–63.5 mm (2.36–2.50") diameter tubes
- Precision-extruded, high-tensile aluminium alloy
- DGUV 17/BGV C1 rating
- Compatible with M950 / 4GS-91
- Supplied with M12 bolt and wingnut
- Mounting hole for up to 13 mm (0.50") bolts
- Polished surface with micro-percussion markings
- Powder-coated versions available on request
- Rated with SF 8:1 (kg) DGUV 17/BGV C1 (SWL1)
- Rated with SF 4:1 (kg) 2006/42/EC (SWL2)



CELL301 / CELL301|Anodised Basic clamp

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		650 (1433)	1300 (2865)	0.65 (1.43)	60–63.5 (2.36–2.5)

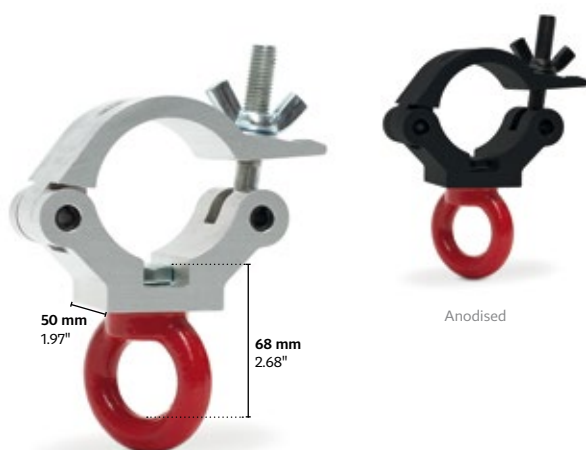
Basic clamp, can be used for most applications.



CELL302 / CELL302|Anodised Clamp with bolt and wingnut

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		650 (1433)	1300 (2865)	0.75 (1.65)	60–63.5 (2.36–2.5)

Clamp supplied with M12×35 bolt and wingnut.



CELL303|650kg / CELL303|Anodised Clamp with lifting eye

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		650 (1433)	1300 (2865)	1.00 (2.20)	60–63.5 (2.36–2.5)

Clamp supplied with steel eye for attachin grope or cable.
Version with SWL 340 kg (750 lbs) silver lifting eye (61 mm) available.



CELL304 / CELL304|Anodised Swivel coupler

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		650 (1433)	1300 (2865)	1.50 (3.30)	60–63.5 (2.36–2.5)

Set of two clamps free to rotate 360° for connecting two tubes.

CELL400

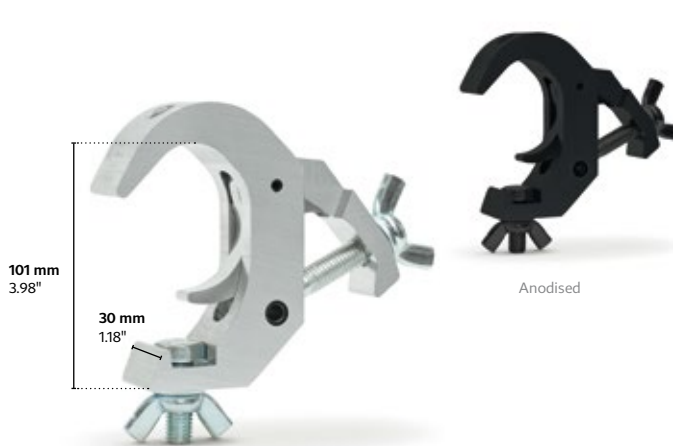
- Quick hook clamp series designed for 38–51 mm (1.49–2.00") diameter tubes
- Quick and easy attachment solution for moving heads
- Precision-extruded, high-tensile aluminium alloy
- DGUV 17/BGV C1 rating
- Compatible with M290 / M390 / M400 / M520 / M760 / 4GS-35 / 4GS-50 / 4GS-62
- Supplied with M12 bolt and wingnut
- Mounting hole for up to 13 mm (½") bolts
- Polished surface with micro-percussion markings
- Powder-coated versions available on request
- Rated with SF 8:1 (kg) DGUV 17/BGV C1 (SWL1)
- Rated with SF 4:1 (kg) 2006/42/EC (SWL2)
- Black-anodized versions of CELL401/403 available



CELL401 / CELL401|Anodised Quick clamp

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	360 (794)	720 (1587)	0.68 (1.50)	38–51 (1.5–2)

38–51 mm quick clamp connection and locking mechanism.



CELL402 / CELL402|Anodised Quick clamp with bolt and wingnut

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	360 (794)	720 (1587)	0.75 (1.65)	38–51 (1.5–2)

Quick clamp supplied with M12×35 bolt and wingnut.



CELL403 / CELL403|Anodised Quick clamp with lifting eye

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	360 (794)	720 (1587)	0.75 (1.65)	38–51 (1.5–2)

Quick clamp supplied with steel eye for attaching of ropes or cables.



CELL411 / CELL411|Anodised Quick Clamp with Wing bolt

	SWL1	SWL2	Weight	Tube Ø
kg (lbs)	190 (419)	380 (838)	0.68 (1.50)	38–60 (1.5–2.36)

38–60 mm quick clamp connection and locking mechanism.

CELL500

- Low-profile series designed for 48–51 mm (1.89–2.00") diameter tubes
- Ideal for exhibitions, displays and light duty applications
- Precision-extruded, ultra-high-tensile aluminium alloy
- DGUV 17/BGV C1 rating
- Compatible with M290 / M390 / M400 / M520 / M760 / 4GS-35 / 4GS-50 / 4GS-62
- Supplied with M6 bolt and wingnut
- Mounting hole for up to 10.5 mm (0.41") bolts
- Polished surface with micro-percussion markings
- Powder-coated versions available on request
- Rated with SF 8:1 (kg) DGUV 17/BGV C1 (SWL1)
- Rated with SF 4:1 (kg) 2006/42/EC (SWL2)

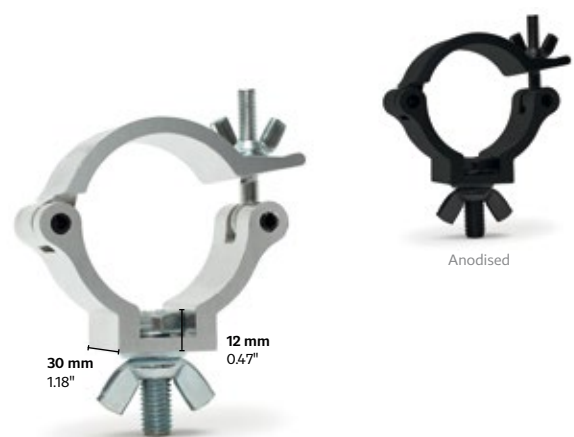


CELL501 / CELL501|Anodised

Basic clamp

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		230 (507)	460 (1014)	0.14 (0.30)	48–51 (1.89–2)

Basic clamp, can be used for lightweight applications.



CELL502 / CELL502|Anodised

Clamp with bolt and wingnut

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		230 (507)	460 (1014)	0.22 (0.47)	48–51 (1.89–2)

Clamp supplied with M10x30 bolt and wingnut.



CELL504 / CELL504|Anodised

Swivel coupler

kg	lbs	SWL1	SWL2	Weight	Tube Ø
		230 (507)	460 (1014)	0.27 (0.60)	48–51 (1.89–2)

Set of two clamps free to rotate 360° for connecting of two tubes.



CELL511 / CELL511|Anodised

Panel clamp

kg	lbs	SWL	Weight	Tube Ø
		55 (121)	0.22 (0.47)	48–51 (1.89–2)

Panel thickness range 5–10 mm (0.19–0.39").

CELL600

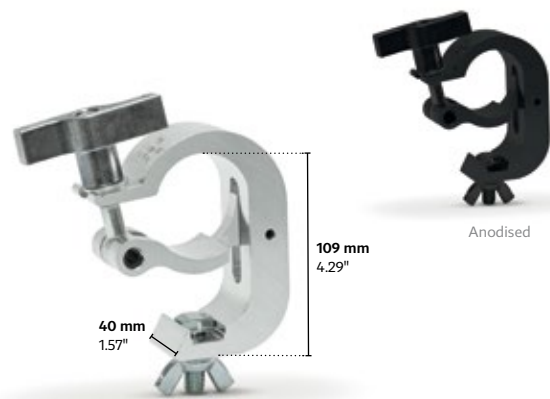
- Hook clamp series designed for 48–51 mm (1.89–2.00") diameter tubes
- Quick and easy attachment solution for moving heads and heavy fixtures
- Precision-extruded, high-tensile aluminium alloy
- DGUV 17/BGV C1 rating
- Supplied with M12 bolt and wingnut
- Mounting hole for up to 13 mm (0.51") bolts
- Compatible with M290 / M390 / M400 / M520 / M760 / 4GS-35 / 4GS-50 / 4GS-62
- Polished surface with micro-percussion markings
- Powder-coated versions available on request
- Rated with SF 8:1 (kg) DGUV 17/BGV C1 (SWL1)
- Rated with SF 4:1 (kg) 2006/42/EC (SWL2)
- Black-anodised versions of CELL601/603 available



CELL601 / CELL601|Anodised Basic clamp

kg	lbs	SWL1	SWL2	Weight	Tube Ø
350	(771)	700	(1543)	0.50 (1.10)	48–51 (1.89–2)

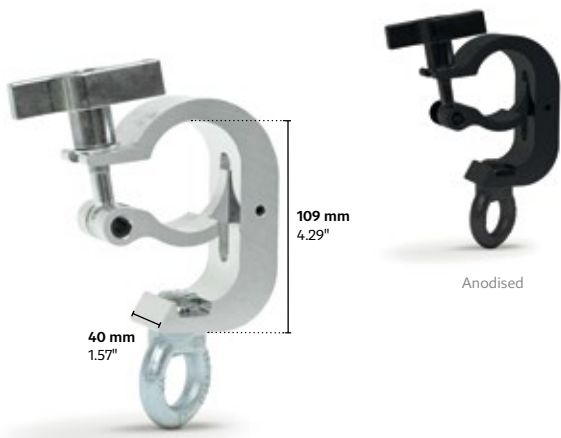
Basic clamp, can be used for most applications.



CELL602 / CELL602|Anodised Basic clamp with bolt and wingnut

kg	lbs	SWL1	SWL2	Weight	Tube Ø
350	(771)	700	(1543)	0.58 (1.28)	48–51 (1.89–2)

Clamp supplied with M12×35 bolt and wingnut.



CELL603 / CELL603|Anodised Clamp with lifting eye

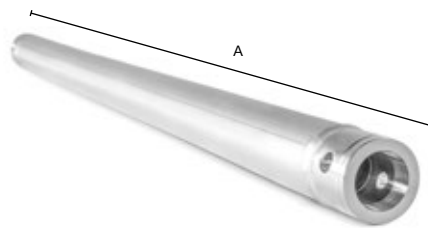
kg	lbs	SWL1	SWL2	Weight	Tube Ø
350	(771)	700	(1543)	0.75 (1.65)	48–51 (1.89–2)

Clamp supplied with steel eye for attaching of ropes or cables.



M100

- Stylish, modular pipe & drape solution
- Single tube, quick-connection construction
- Versatile "node cube" with pre-set location positions
- Stand-alone or integrated within truss structures
- Connection kit supplied with every welded tube
- Compatible with 200/400/500/600 series cell clamps
- Compatible with Xtruss accessories
- Powder-coated colour finish available on request



M100

Main tubes	mm	in	50 × 2 (2 × 0.08)
Alloy			EN - AW 6082 T6

STANDARD LENGTHS AND WEIGHTS AVAILABLE

M100	m	ft	0.50 (1.64)	1.00 (3.28)	1.50 (4.92)	2.00 (6.56)	2.50 (8.20)	3.00 (9.84)
	kg	lbs	0.70 (1.67)	1.10 (2.58)	1.60 (3.52)	2.00 (4.40)	2.40 (5.29)	2.80 (6.20)

Connection material (pins/clips/connectors) and packaging are not included in above weights

M100

LOADING CHART

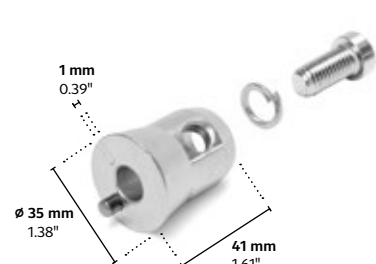
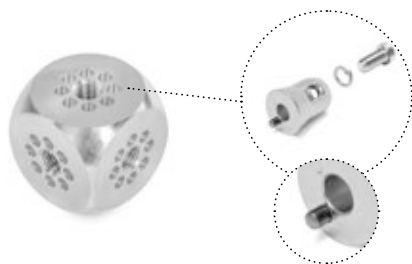
M100		Beam on two supports						(Continuous tube without any modifications)					
		m	(ft)	0.50	(1.64)	1.00	(3.28)	1.50	(4.92)	2.00	(6.56)	2.50	(8.20)
Centre Point Load (CPL)	kg (lbs)	429.00	(945.78)	214.00	(471.79)	142.00	(313.05)	106.00	(233.69)	85.00	(187.39)	70.00	(154.32)
Deflection	mm (in)	2.00	(0.08)	7.00	(0.28)	16.00	(0.63)	29.00	(1.14)	45.00	(1.78)	65.00	(2.56)
Third Point Load (TPL)	kg (lbs)	322.00	(709.88)	160.00	(352.73)	107.00	(235.89)	80.00	(176.36)	63.00	(138.89)	52.00	(114.64)
Deflection	mm (in)	2.00	(0.08)	9.00	(0.35)	21.00	(0.82)	37.00	(1.46)	58.00	(2.28)	83.00	(3.27)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	1719.00	(1155.00)	429.00	(288.00)	190.00	(127.50)	106.00	(71.00)	68.00	(45.50)	47.00	(31.50)
Deflection	mm (in)	2.00	(0.08)	9.00	(0.35)	20.00	(0.79)	36.00	(1.42)	56.00	(2.20)	81.00	(3.19)

		Cantilever											
Point load at the end	kg (lbs)	107.00	(235.89)	53.00	(116.84)	35.00	(77.16)	26.00	(57.32)	21.00	(46.29)	17.00	(37.47)
Deflection	mm (in)	7.00	(0.28)	29.00	(1.14)	66.00	(2.60)	117.00	(4.60)	185.00	(7.28)	269.00	(10.59)

M100		Beam on two supports						(Tube with one connector at any point of the length)					
		m	(ft)	0.50	(1.64)	1.00	(3.28)	1.50	(4.92)	2.00	(6.56)	2.50	(8.20)
Centre Point Load (CPL)	kg (lbs)	224.00	(493.85)	112.00	(246.92)	74.00	(163.14)	55.00	(121.25)	44.00	(97.00)	36.00	(79.37)
Deflection	mm (in)	1.00	(0.04)	4.00	(0.16)	9.00	(0.35)	15.00	(0.59)	24.00	(0.94)	34.00	(1.34)
Third Point Load (TPL)	kg (lbs)	168.00	(370.38)	84.00	(185.19)	55.00	(121.25)	41.00	(90.39)	33.00	(72.75)	27.00	(61.73)
Deflection	mm (in)	1.00	(0.04)	5.00	(0.19)	11.00	(0.43)	19.00	(0.75)	30.00	(1.18)	43.00	(1.69)
Uniformly Distributed Load (UDL)	kg/m (lbs/ft)	898.00	(603.00)	224.00	(150.50)	99.00	(66.50)	55.00	(37.00)	35.00	(23.50)	24.00	(16.00)
Deflection	mm (in)	2.00	(0.08)	5.00	(0.19)	7.00	(0.28)	10.00	(0.39)	12.00	(0.47)	15.00	(0.59)

		Cantilever											
Point load at the end	kg (lbs)	56.00	(123.46)	28.00	(61.73)	18.00	(39.68)	13.00	(28.66)	11.00	(24.25)	9.00	(19.84)
Deflection	mm (in)	4.00	(0.16)	15.00	(0.59)	35.00	(1.38)	62.00	(2.44)	99.00	(3.90)	145.00	(5.70)





CUBEB-UNI

Series	kg	lbs
M100	0.27	(0.60)

Universal multiconnection cube that is 360° adjustable

HINGEQB-UNI

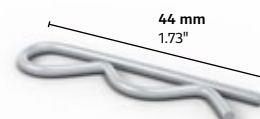
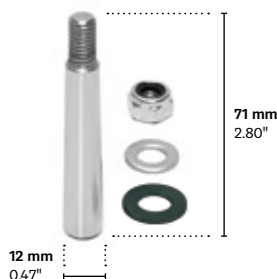
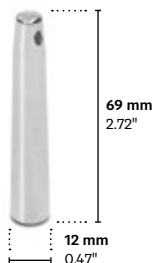
Series	kg	lbs
M100	0.49	(1.08)

Universal hinge

CON63B|MalePin

Series	kg	lbs
M100	0.17	(0.37)

Male fitting for CUBEB-UNI, HINGEQB-UNI, equipped with locating pin
Supplied with washer and M12×25 bolt.
F- and U-compatible versions available



PB|Pin

Series	kg	lbs
M100	0.02	(0.04)

PBM8Set

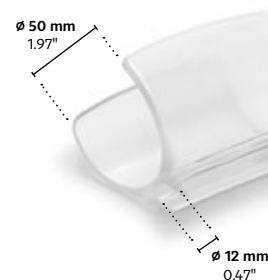
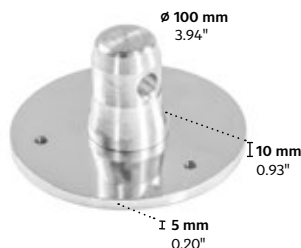
Series	kg	lbs
M100	0.02	(0.04)

Pin B with thread M8
Supplied with washer and nyloc nut.

SRPB

Series	kg	lbs
M100	0.002	(0.004)

Safety R-clip B
M222/M290/M390 truss series



CCB

Series	kg	lbs
M100	0.11	(0.24)

M290B conical connector
F- and U-compatible versions available.

BBPSC|Male

Series	kg	lbs
M100	0.19	(0.42)

M100 single base plate with half connector
F- and U-compatible versions available.

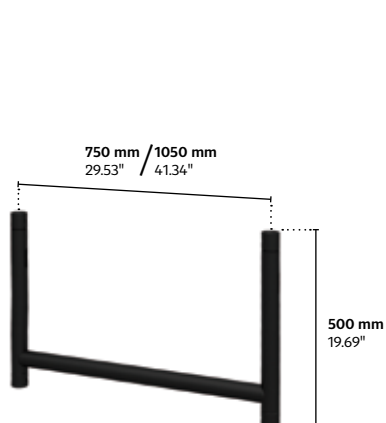
CL50|CLEAR

Series	kg	lbs
M100	0.003	(0.007)

Clip 50
Banner attachment for tube d = 50 mm (2"). Color: clear.
Not compatible with 48 mm (1.89") tubes.

Frames

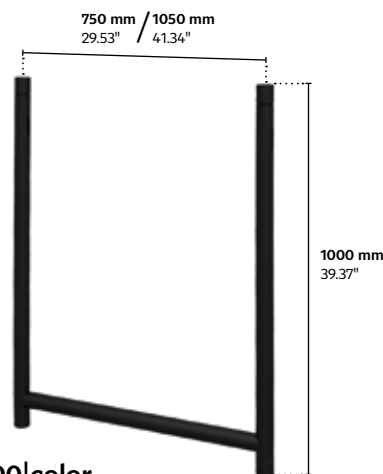
- Connect fixtures quickly and securely using cell clamps or any other lifting accessories
 - Maximum flexibility for mounting lighting fixtures
 - Quick and easy assembly using standard conical connections
 - Slotted tube profile to enable secondary safety attachment
 - Durable 48×3 mm extruded aluminium tube (EN AW-6082 T6)
 - Based on MILOS M100 series truss
- Horizontal forces are not taken into consideration in the load information. Specific load figures can be approved on request.
- As horizontal forces are not taken into consideration, tipping over must be analysed on a case-by-case basis.



MLA-H750×500|color
MLA-H1050×500|color

Code	Tube Ø	kg	lbs
MLA-H750×500 color	48×3 (1.89×0.12)	2.30	(5.07)
MLA-H1050×500 color	48×3 (1.89×0.12)	2.60	(5.73)

Modular Grid Frame for hanging lights from truss structures – 750×500 mm (29.53×19.69") or 1050×500 mm (41.34×19.69")

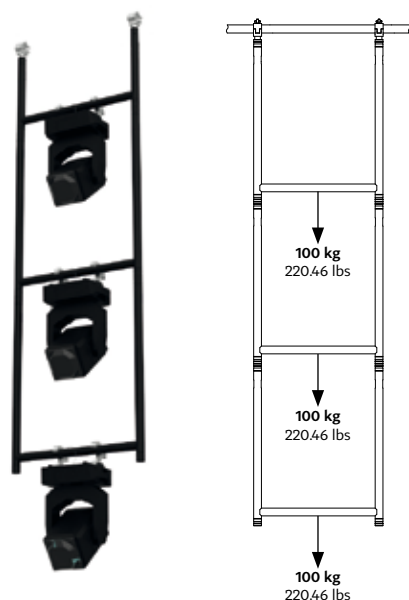


MLA-H750×1000|color
MLA-H1050×1000|color

Code	Tube Ø	kg	lbs
MLA-H750×1000 color	48×3 (1.89×0.12)	3.40	(7.49)
MLA-H1050×1000 color	48×3 (1.89×0.12)	3.80	(8.37)

Modular Grid Frame for hanging lights from truss structures – 750×1000 mm (29.53×39.37") or 1050×1000 mm (41.34×39.37")

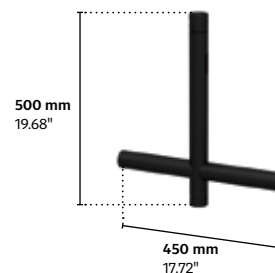
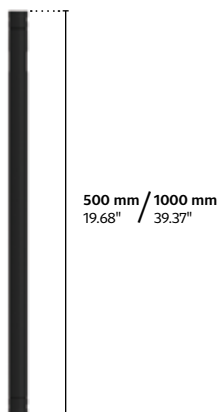
Load assumptions



Hanging configuration:
Maximum load per crossbar 100 kg (220.46 lbs).
At full load, a maximum of 15 H-frames can be hung one beneath one another.



Standing configuration:
Maximum load per crossbar 80 kg (176.37 lbs).
At full load, a maximum of 4 H-frames can be stacked on top of each other.



MLA-I-750|color
MLA-I-1050|color

Code	Tube Ø	kg	lbs
MLA-I-750 color	48×3 (1.89×0.12)	2.20 (4.85)	
MLA-I-1050 color	48×3 (1.89×0.12)	2.40 (5.29)	

Modular light bar for attaching lights to hanging modular grid frames - 1050 mm (41.34") or 750 mm (29.53").

MLA-L500|color
MLA-L1000|color

Code	Tube Ø	kg	lbs
MLA-L500 color	48×3 (1.89×0.12)	0.70 (1.54)	
MLA-L1000 color	48×3 (1.89×0.12)	1.30 (2.87)	

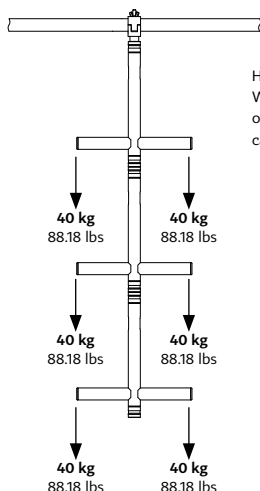
Modular light bar for attaching lights to hanging modular grid frames - 1000 mm (39.37") or 500 mm (19.68").

MLA-X450×500|color

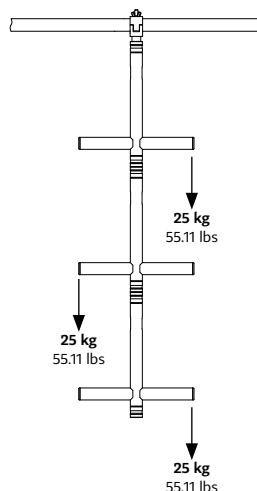
Code	Tube Ø	kg	lbs
MLA-X450×500 color	48×3 (1.89×0.12)	1.20 (2.65)	

Modular light bar for attaching lights to hanging modular grid frames - 450×500mm (17.72×19.68").

Load assumptions



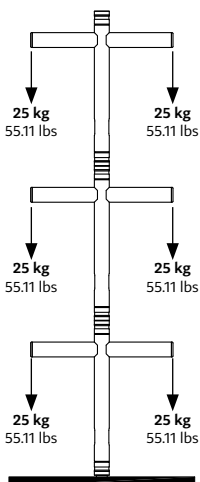
Hanging configuration:
With symmetrical load of 40 kg (88.18 lbs) on every cantilever, a maximum of 14 T-frames can be hung beneath one another.



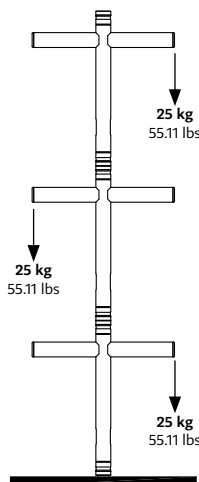
Hanging configuration:
With asymmetrical load of 25 kg (55.11 lbs) on every cantilever, a maximum of 22 T-frames can be hung beneath one another.



Load assumptions



Standing configuration:
With symmetrical load of 25 kg (55.11 lbs) on each cantilever, a maximum of 5 T-frames can be stacked on top of each other.



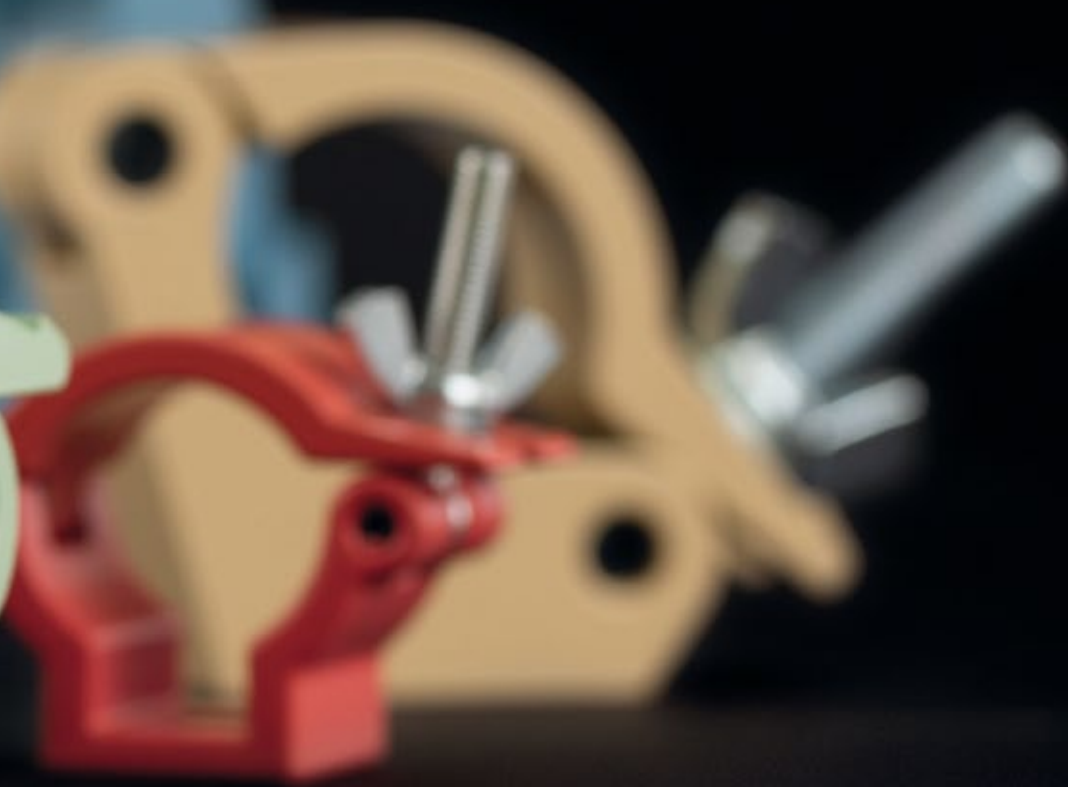
Standing configuration:
With asymmetrical load of 25 kg (55.11 lbs) on one cantilever per element, a maximum of 6 T-frames can be stacked on top of each other.



WARNING:

The load specifications given here only give consideration to the frames and the connections between them, but do not include the top connection to the suspending truss. The total load capacity can be reduced depending on the lifting accessories selected.





MILOS

Area Four Industries Česko s.r.o.
Spindlerova 286
413 01 Roudnice nad Labem
Czech Republic

Tel +420 416 810 800
info@milos.cz
www.milossystems.com

