



Milos. Works better.

2017

Milos Cell Clamps

130, 200, 300, 400, 500 & 600 series

Original user's manual



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1. INTRODUCTION

BEFORE installing and using Milos Cell Clamps, read this manual carefully and pay attention to the information provided. Use this manual to familiarise yourself with the products their proper use and safety regulations.

DANGER

DANGER: Indicates a hazardous situation which, if not avoided, will result in death or serious injury. This word is only used for the most extreme situations.

WARNING

WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE: Relates to practices not related to personal injury.

SAFETY INSTRUCTIONS

SAFETY INSTRUCTIONS: Lists of steps, procedures or instructions that might otherwise be a substitute for a DANGER, WARNING or CAUTION notification. Note that equivalent phrases, such as SAFE OPERATION PROCEDURES or SAFE SHUT DOWN PROCEDURE, can be used in place of the words "SAFETY INSTRUCTIONS".

SAFETY INSTRUCTIONS

Make sure manuals are available at all times for all users and employees.

For health and safety reasons, people assembling, disassembling, transporting, maintaining and cleaning Cell Clamps should wear adequate Personal Protection Equipment such as, but not limited to; gloves, hard hats and safety shoes.

Milos Cell Clamps series consist of various clamps used to lift loads above people or make structural connections. They are mostly used in the entertainment market but can also be used for permanent support structures in places of entertainment like museums, event venues, theatre's etc.

The load capacity varies from 150-1570 kg depending on the model and the safety factor required. Clamps are suitable to fit tube diameters ranging from 30-63.5 mm depending on the model. Clamps are normally stamped with the working load corresponding to the 8:1 safety factor in order to meet the German standard for overhead lifting.

Clamps are available in a natural finish aluminium version as well as black powder coated.

Special attention has been devoted to safety. Therefore, the TÜV test certificates indicate multiple Working loads. Depending on the application, a working load can be chosen.

Clamps can be classified as a lifting accessories under the EU machine Directive 2006/42/EC (safety factor 4:1) as well as

German DGUV-BGV-C1 for lifting and holding loads above persons. But also as a connecting part in constructions. As for the last application, no harmonised standard is available no CE Declaration of Performance can be provided.

Milos has endeavored to deliver the highest degree of precision as possible. However continuous improvement of our products is a Milos Policy. Therefore, product specifications are subject to change without notice.

Readers and users are encouraged to notify Milos of errors and send in suggestions for improvements. All suggestions will be carefully considered for future printings of this manual and changes to our products.

Some models of Cell Clamps are composed of different elements, each with an individual Working Load. The lowest working load determines the overall strength and thus shall be used as the Working Load Limit (WLL) for the application.

The resulting forces where the clamp is attached to the structure should be verified before applying a load.

To simplify reading of this document, the word "Clamps" or "Clamp" is used to cover all Milos Cell Clamps series and models.

2. SCOPE

The intended use of Milos Cell Clamps is to hang loads above persons or to create a connection between structural elements. Loads can be, but not limited to, lighting fixtures, video projectors, sound systems and set pieces. Structural elements can be pipes, trusses, tubular frame works or lifting brackets.

Any use other than that mentioned is considered to be a case of misuse. The user/operator, and not the manufacturer, shall be liable for any damage or injury resulting from such cases of misuse.

WARNING

Check local legislation for application of use.

- ✓ The Clamps can be operated in -20 °C to 60 °C.
- ✓ The use of Clamps is the sole responsibility of the operator.
- ✓ To use the Clamps, the user must also observe safety regulations, as well as the assembly and disassembly instructions to be found in this manual.
- ✓ All persons who use and service this product have to be acquainted with this manual and must be informed about its potential hazards.
- ✓ It is also imperative to observe local accident prevention regulations and/or occupational health and safety regulations.
- ✓ The manufacturer is not liable for indirect consequential damage and financial loss. The manufacturer shall not be liable for any changes made to the product nor for any damage resulting from such changes.

3. SAFETY INSTRUCTIONS

- ⚠ Clamps shall be solely used for the range of pipe diameters as stated on each clamp. The use of a clamp on other diameter pipes will lower the allowable working load and is therefore not allowed.

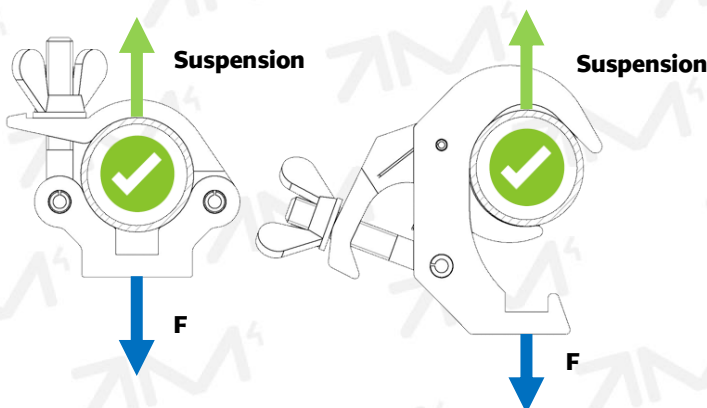
⚠ WARNING

DO NOT lift people or loads above people without observing the following precautions

- ⚠ Use a Self-locking nut instead of wingnuts on the eye bolts. Alternatively, use an approved safety cable to attach the load to the supporting structure for additional safety.
- ⚠ Do not exceed the maximum working load embossed on the clamp.
- ⚠ Make sure the resulting forces on the supporting structure are approved by a competent person.
- ⚠ All loads imposed shall be considered. E.g. dynamic forces caused by the lifting machinery.
- ⚠ Bolts and nuts shall be tightened by means of a spanner in such a manner they cannot be loosened by hand.
- ⚠ When loads are lifted or suspended with electrical equipment, shall be put in place.
- ⚠ The choice of clamp must be adapted to the load.
- ⚠ When used as a lifting accessory, clamps shall be inspected by a competent person as often as required but with a minimum of 1x per year.
- ⚠ Inspect equipment before every use. Damaged clamps shall be taken out of service.
- ⚠ A clamp has to be taken out of service immediately if, during use, serious damage is discovered.
- ⚠ Maintenance and repairs only be undertaken by authorized personnel. If in doubt, contact the manufacturer.
- ⚠ Do not throw clamps.

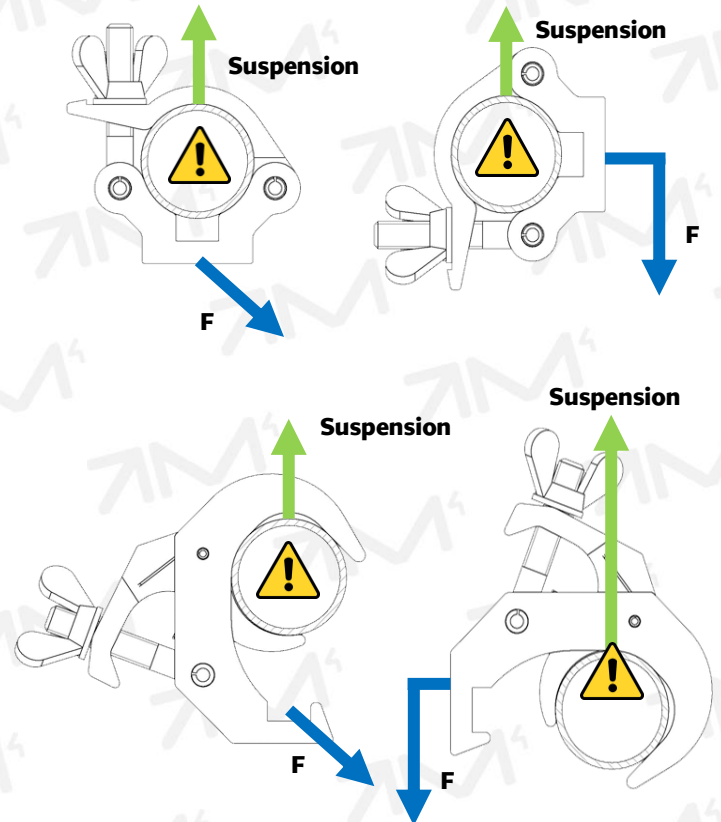
⚠ WARNING

The working load embossed on the clamp solely refers to a straight pull between the supporting pipe and connection point on the clamp.



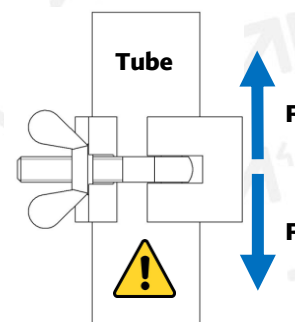
⚠ WARNING

The methods of suspension shown below create torsional forces, influence the stability of the supporting structure and lower the working load of the clamp. This needs to be checked by a competent person.

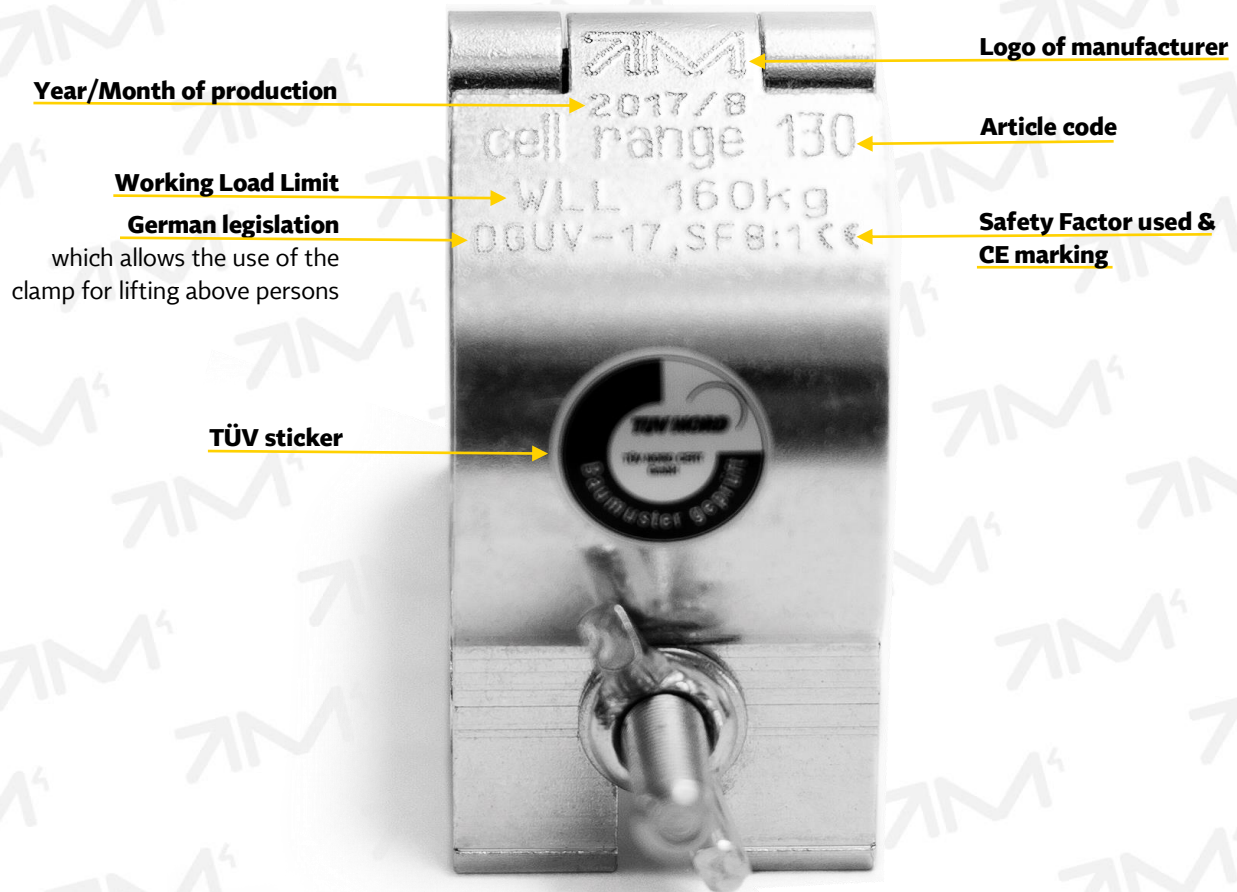


⚠ WARNING

The use of clamps when loaded parallel to the chords is depending on, but not limited to, surface of the tube, tube material, friction resistance of the tube and applied torque to the clamps's wingnut/nut. This use shall be treated with great care!



4. IDENTIFICATION



5. TECHNICAL SPECIFICATIONS

LOADING CAPACITIES OF MILOS CELL CLAMPS													
according to tests to qualify for the "TÜV-TESTED" label from TÜV Nord Czech													
Series	Type	WLL					TÜV Certificate number						
		ø load at failure (kg)	safety factor 4:1	safety factor 5:1	safety factor 8:1 (DGUV17 / TÜV-mark)	safety factor 10:1							
CELL130 ø 32-35 mm	Cell 131	1340 kg 2954 lbs	330 kg 728 lbs	260 kg 573 lbs	160 kg 353 lbs	130 kg 287 lbs	TNCZ01/17						
	Cell 132												
	Cell 133												
	Cell 134												
	Cell 135												
	Cell 136												
CELL200 ø 48-51 mm	Cell 201	5240 kg 11552 lbs	1310 kg 2888 lbs	1040 kg 2293 lbs	650 kg 1433 lbs	520 kg 1146 lbs	TNCZ02/15						
	Cell 202												
	Cell 203												
ø 48-51 mm swivel-coupler	Cell 204	4320 kg 9524 lbs	1080 kg 2381 lbs	860 kg 1896 lbs	540 kg 1190 lbs	430 kg 948 lbs							
	Cell 205												
	Cell 206												
ø 48-51 mm slim line	Cell 207	4510 kg 11927 lbs	1080 kg 2381 lbs	900 kg 1896 lbs	560 kg 1235 lbs	450 kg 992 lbs							
	Cell 208												
ø 48-51 mm side-entry	Cell 211	6280 kg 13845 lbs	1570 kg 3461 lbs	1250 kg 2756 lbs	780 kg 1720 lbs	620 kg 1367 lbs							
ø 48-51 mm side-entry slim line	Cell 212	3280 kg 7231 lbs	820 kg 1808 lbs	650 kg 1433 lbs	410 kg 904 lbs	320 kg 705 lbs							
CELL300 ø 60-63.5 mm	Cell 301	5210 kg 11486 lbs	1300 kg 2866 lbs	1040 kg 2293 lbs	650 kg 1433 lbs	520 kg 1146 lbs	TNCZ03/15						
	Cell 302												
	Cell 303												
ø 60-63.5 mm swivel-coupler	Cell 304							1580 kg 3483 lbs	390 kg 860 lbs	310 kg 683 lbs	190 kg 419 lbs	150 kg 331 lbs	
	Cell 305												
	Cell 306												
CELL400 ø 38-51 mm Quick hook clamp	Cell 401	2910 kg 6415 lbs	720 kg 1587 lbs	580 kg 1279 lbs	360 kg 794 lbs	290 kg 639 lbs	TNCZ04/15						
	Cell 402												
	Cell 403												
	Cell 411	1580 kg 3483 lbs	390 kg 860 lbs	310 kg 683 lbs	190 kg 419 lbs	150 kg 331 lbs							
CELL500 ø 60-63.5 mm LIGHT	Cell 501	1890 kg 4167 lbs	470 kg 1036 lbs	370 kg 816 lbs	230 kg 507 lbs	180 kg 397 lbs	TNCZ05/15						
	Cell 502												
	Cell 503												
ø 60-63.5 mm swivel-coupler LIGHT	Cell 504							2810 kg 6195 lbs	700 kg 1543 lbs	560 kg 1235 lbs	350 kg 772 lbs	280 kg 617 lbs	TNCZ06/15
Cell 602													
Cell 603													

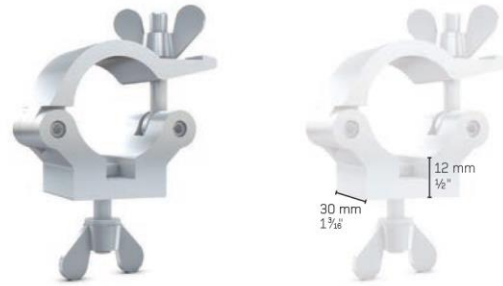
CELL130



CELL131

Basic clamp can be used for most applications

SWL ₁	SWL ₂	Weight	Tube ϕ
160 kg	330 kg	0.10 kg	32-35 mm
353 lbs	728 lbs	0.2 lbs	1 1/4"-1 3/8"



CELL132

Clamp supplied with M10 x 30 bolt and wingnut

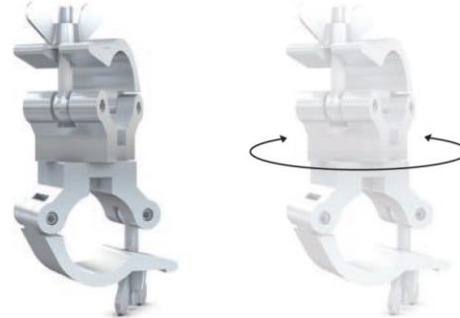
SWL ₁	SWL ₂	Weight	Tube ϕ
160 kg	330 kg	0.25 kg	32-35 mm
353 lbs	728 lbs	0.33 lbs	1 1/4"-1 3/8"



CELL133

Clamp supplied with steel eye for rope or cable attachment

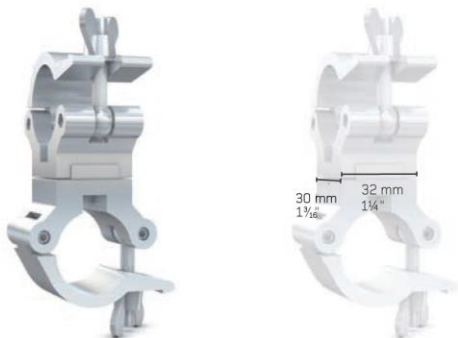
SWL ₁	SWL ₂	Weight	Tube ϕ
160 kg	330 kg	0.70 kg	32-35 mm
353 lbs	728 lbs	1.54 lbs	1 1/4"-1 3/8"



CELL134

Set of two clamps free to rotate 360° for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
160 kg	330 kg	0.80 kg	32-35 mm
353 lbs	728 lbs	1.76 lbs	1 1/4"-1 3/8"



CELL135

Set of two clamps fixed at 90° to each other for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
160 kg	330 kg	0.80 kg	32-35 mm
353 lbs	728 lbs	1.76 lbs	1 1/4"-1 3/8"



CELL136

Set of two clamps fixed parallel to each other for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
160 kg	330 kg	0.80 kg	32-35 mm
353 lbs	728 lbs	1.76 lbs	1 1/4"-1 3/8"

CELL200



CELL201

Basic clamp can be used for most applications

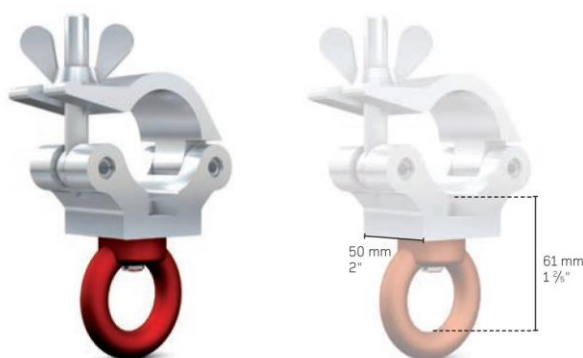
SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	0.50 kg	48-51 mm
1433 lbs	2865 lbs	1.10 lbs	1 7/8"-2"



CELL202

Clamp supplied with M12 x 35 bolt and wingnut

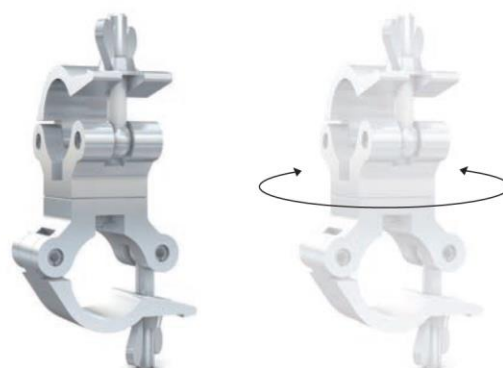
SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	0.59 kg	48-51 mm
1433 lbs	2865 lbs	1.30 lbs	1 7/8"-2"



CELL203

Clamp supplied with steel eye for rope or cable attachment; Version with SWL₁ 340 kg (750 lbs) available

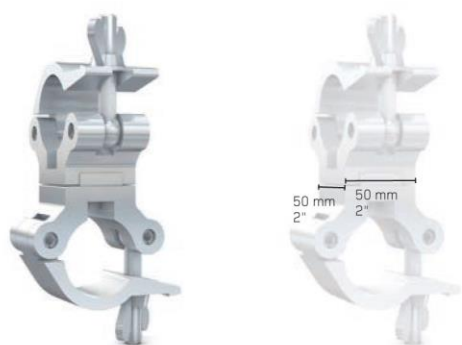
SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	0.65 kg	48-51 mm
1433 lbs	2865 lbs	1.43 lbs	1 7/8"-2"



CELL204

Set of two clamps free to rotate 360° for connection of two tubes

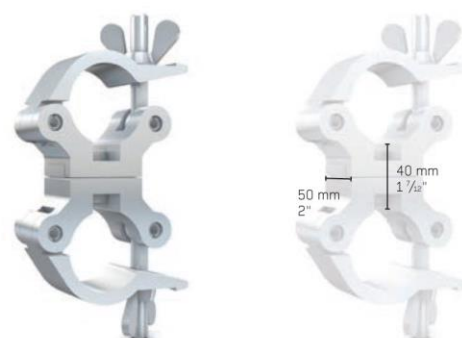
SWL ₁	SWL ₂	Weight	Tube ϕ
540 kg	1080 kg	1.00 kg	48-51 mm
1190 lbs	2381 lbs	2.20 lbs	1 7/8"-2"



CELL205

Set of two clamps fixed at 90° to each other for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
540 kg	1080 kg	1.00 kg	48-51 mm
1190 lbs	2381 lbs	2.20 lbs	1 7/8"-2"



CELL206

Set of two clamps fixed parallel to each other for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
540 kg	1080 kg	1.00 kg	48-51 mm
1190 lbs	2381 lbs	2.20 lbs	1 7/8"-2"



CELL207

Slim basic clamp can be used for most applications

SWL ₁	SWL ₂	Weight	Tube ϕ
560 kg	1120 kg	0.30 kg	48-51 mm
1234 lbs	2469 lbs	0.66 lbs	1 7/8"-2"



CELL208

Slim clamp supplied with M12 x 50 bolt and wingnut

SWL ₁	SWL ₂	Weight	Tube ϕ
560 kg	1120 kg	0.39 kg	48-51 mm
1234 lbs	2469 lbs	0.86 lbs	1 7/8"-2"



CELL211

Clamp supplied with steel eye for rope or cable attachment

SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	0.65 kg	48-51 mm
1433 lbs	2865 lbs	1.43 lbs	1 7/8"-2"



CELL212

Set of two clamps free to rotate 360° for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
540 kg	1080 kg	1.00 kg	48-51 mm
1190 lbs	2381 lbs	2.20 lbs	1 7/8"-2"

CELL300



CELL301

Basic clamp can be used for most applications

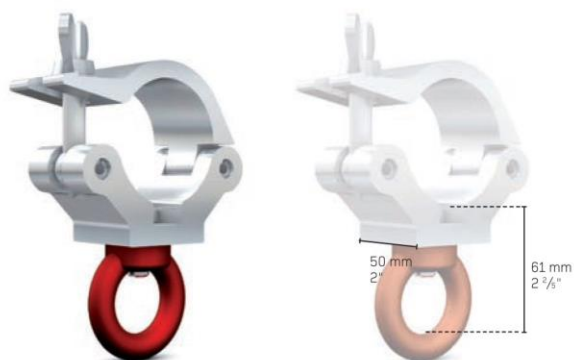
SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	0.65 kg	60-63.5 mm
1433 lbs	2865 lbs	1.43 lbs	2 23/64"-2 1/2"



CELL302

Clamp supplied with M12 x 35 bolt and wingnut

SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	0.75 kg	60-63.5 mm
1433 lbs	2865 lbs	1.65 lbs	2 23/64"-2 1/2"



CELL303

Clamp supplied with steel eye for rope or cable attachment;
Version with SWL₁ 340 kg (750 lbs) available

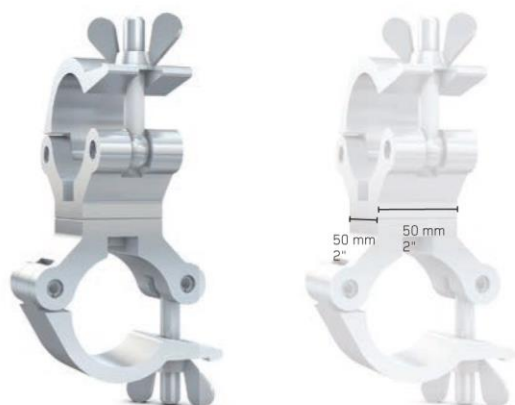
SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	1.00 kg	60-63.5 mm
1433 lbs	2865 lbs	2.20 lbs	2 23/64"-2 1/2"



CELL304

Set of two clamps free to rotate 360° for connection of two tubes

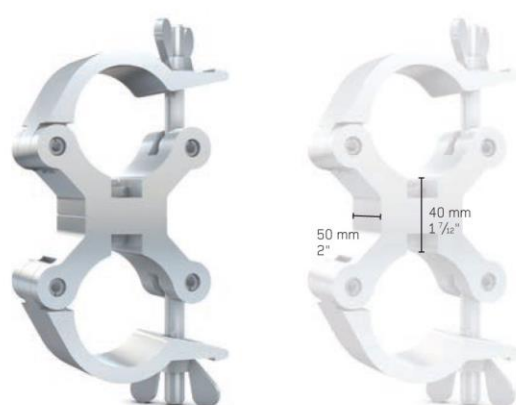
SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	1.50 kg	60-63.5 mm
1433 lbs	2865 lbs	3.30 lbs	2 23/64"-2 1/2"



CELL305

Set of two clamps fixed at 90° to each other for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	1.50 kg	60-63.5 mm
1433 lbs	2865 lbs	3.30 lbs	2 23/64"-2 1/2"



CELL306

Set of two clamps fixed parallel to each other for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
650 kg	1300 kg	1.50 kg	60-63.5 mm
1433 lbs	2865 lbs	3.30 lbs	2 23/64"-2 1/2"

CELL400



CELL401

Quick clamp can be used for welding or construction of special items

SWL ₁	SWL ₂	Weight	Tube ϕ
360 kg	720 kg	0.68 kg	38-51 mm
794 lbs	1587 lbs	1.50 lbs	1 31/64"-2"



CELL411

Quick clamp can be used for welding or construction of special items; Suitable for tubes up to 60 mm (2.36")

SWL ₁	SWL ₂	Weight	Tube ϕ
190 kg	380 kg	0.68 kg	38-60 mm
419 lbs	838 lbs	1.50 lbs	1 31/64"-2 23/64"



CELL402

Quick clamp supplied with M12 x 35 bolt and wingnut

SWL ₁	SWL ₂	Weight	Tube ϕ
360 kg	720 kg	0.75 kg	38-51 mm
794 lbs	1587 lbs	1.65 lbs	1 31/64"-2"



CELL403

Quick clamp supplied with steel eye for rope or cable attachment

SWL ₁	SWL ₂	Weight	Tube ϕ
360 kg	720 kg	0.75 kg	38-51 mm
794 lbs	1587 lbs	1.65 lbs	1 31/64"-2"

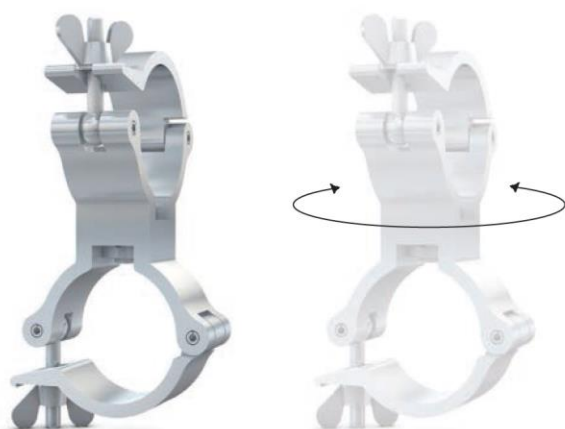
CELL500



CELL501

Basic clamp can be used for lightweight applications

SWL ₁	SWL ₂	Weight	Tube ϕ
230 kg	460 kg	0.14 kg	48-51 mm
507 lbs	1014 lbs	0.30 lbs	1 7/8"-2"



CELL503

Set of two clamps free to rotate 360° for connection of two tubes

SWL ₁	SWL ₂	Weight	Tube ϕ
230 kg	460 kg	0.27 kg	48-51 mm
507 lbs	1014 lbs	0.60 lbs	1 7/8"-2"

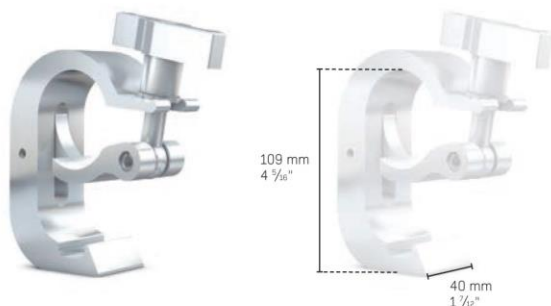


CELL502

Clamp supplied with M10 x 30 bolt and wingnut

SWL ₁	SWL ₂	Weight	Tube ϕ
230 kg	460 kg	0.22 kg	48-51 mm
507 lbs	1014 lbs	0.47 lbs	1 7/8"-2"

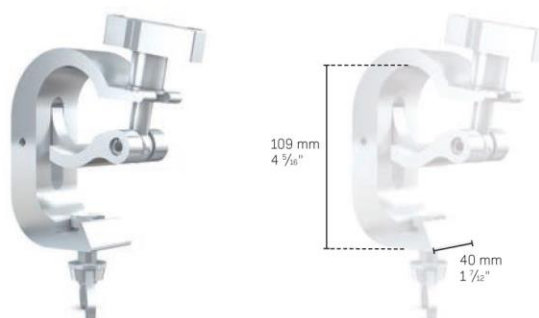
CELL600



CELL601

Basic clamp can be used for most applications

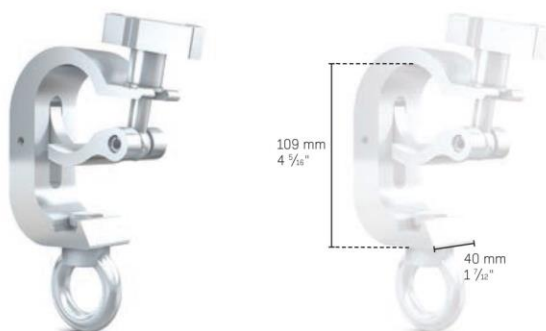
SWL ₁	SWL ₂	Weight	Tube Ø
350 kg	700 kg	0.50 kg	48-51 mm
771 lbs	1543 lbs	1.10 lbs	1 7/8"-2"



CELL602

Clamp supplied with M12 x 35 bolt and wingnut

SWL ₁	SWL ₂	Weight	Tube Ø
350 kg	700 kg	0.58 kg	48-51 mm
771 lbs	1543 lbs	1.28 lbs	1 7/8"-2"



CELL603

Clamp supplied with steel eye for rope or cable attachment

SWL ₁	SWL ₂	Weight	Tube Ø
350 kg	700 kg	0.75 kg	48-51 mm
771 lbs	1543 lbs	1.65 lbs	1 7/8"-2"

5. ASSEMBLY INSTRUCTIONS

WARNING

Inspect the lifting bracket before every use. If damaged do not use.

1. Determine the bolt size and length needed to connect a clamp to an object.
2. Use low head hexagon socket bolts or standard hexagon bolts. Minimum 8.8 grade.
3. Tighten the bolt nut connection by means of correct tooling.
4. Open the lid of the clamp. Make sure that both the lid and eyebolt do not obstruct the inside.
5. Hang the clamp at the desired position. Make sure the bolt is fully tightened before the load is supported fully.

WARNING

Use an M12 self-locking nut instead of a wingnut in case of overhead lifting or if no safety cable is used.

6. Tighten the wingnut / nut / bolt by hand or a spanner. Firm tightening by hand should be enough. If using a spanner, do not apply a torque greater than 25 Nm (20 ft/lbs).

6. DIASSEMBLY INSTRUCTIONS

1. Take the weight of the clamp.
2. Release the bolt / nut / wingnut and fold it aside.
3. Open the lid and fold it aside.

7. STORAGE

Put the lid and eye bolt together and hang tight. This way bolts will not get lost during transport.

Ensure the product is stored and kept in a dry environment to avoid corrosion.






8. MAINTENANCE

SAFETY INSTRUCTIONS

Clamps hardly need any maintenance under normal and environmental circumstances. For safety reasons however, all parts must be checked regularly for damage, loss and corrosion.

NOTICE

The Clamp shall be inspected in compliance with the local law by a competent person. Inspections shall take place as often as required but a minimum of 1x per year. If in doubt contact Milos.

-  Check all components for damage and corrosion. Damaged or corroded parts shall be removed and thrown away.
-  Replacement parts shall be genuine Milos parts only.
-  Check roll pins for cracks. Replace if cracked.
-  Burrss and sharp edges shall be removed using fine sandpaper.
-  Maintenance and repairs can be executed only by competent persons. In any doubt you should contact Milos.

9. GUARANTEE

- ✓ For a period of 12 months we undertake to repair, free of charge, any damage attributable to faulty materials or workmanship, provided that the product is forwarded, freight paid, to our factory or one of the Milos contract service organisations.
- ✓ The guarantee-period begins the day of delivery, proven by a purchase receipt like an invoice or delivery note or copies of them.
- ✓ The guarantee is only applicable for new products.
- ✓ The guarantee does not cover damage due to transport damage, negligent handling, overload or parts subject to normal wear and tear. Nor damages that originate from a case of misuse due to non-observance to the instructions in this manual.
- ✓ The fitting of replacement parts not supplied by Milos or modifications of our design by third parties also invalidates the guarantee.
- ✓ Guarantee repairs do not renew nor extend the guarantee period.
- ✓ In case of a claim under the guarantee, a malfunction or spare part requirement, contact your point of sale or Milos.

10. EC-DECLARATION OF CONFORMITY



EC-DECLARATION OF CONFORMITY FOR MACHINERY (Directive 2006/42/EEC Annex I)

MILOS s.r.o.
Spindlerova 286
413 01 Roudnice nad Labem
Czech Republic

Herewith declares that:

MILOS: CELL CLAMPS All models in the series 100, 200, 300, 500 and 600

- are in compliance with the Machinery Directive 2006/42/EEC annex I
- the following harmonized standards have been applied (or parts/clauses of):
DIN EN 1999-1, DIN EN 1993-1, EN 6892-1:2009
- the following national technical standards and specifications have been used
(or parts/clauses of): DGUV Regulation 17, DGUV Information 215-313

Roudnice nad Ladem, Czech Republic, 08-09-2016

Mr. F. Zykan

CEO



EG-KONFORMITÄTSERKLÄRUNG FÜR MASCHINEN (EG-Richtlinie 2006/42/EG, Anhang I)

MILOS s.r.o.
Spindlerova 286
413 01 Roudnice nad Labem
Czech Republic

erklärt hiermit daß:

MILOS: CELL CLAMPS jedes model der serien 100, 200, 300, 500 and 600

- Konform sind mit den einschlägigen Bestimmungen der EG-Maschinenrichtlinie 2006/42/EG, Anhang I
- Folgende harmonisierten Normen zur Anwendung gelangten (oder Teile/Klauseln hieraus):
DIN EN 1999-1, DIN EN 1993-1, EN 6892-1:2009
- Folgende nationale technische Normen und Spezifikationen zur Anwendung gelangten (oder Teile/Klauseln hieraus): DGUV Regulation 17, DGUV Information 215-313

Roudnice nad Ladem, Czech Republic, 08-09-2016

Mr. F. Zykan

CEO



DÉCLARATION CE DE CONFORMITÉ POUR LES MACHINES (2006/42/EG Annexe)

MILOS s.r.o.
Spindlerova 286
413 01 Roudnice nad Labem
Czech Republic

déclare que:

MILOS: CELL CLAMPS tous les modèles de la série 100, 200, 300, 500 e 600

- est en conformité avec la Directive pour les machines 2006/42/EG annexe I
- est en conformité avec les normes Européennes harmonisées (parties/paragraphes de):
DIN EN 1999-1, DIN EN 1993-1, EN 6892-1:2009
- est en conformité avec les normes et spécifications techniques nationales et internationales
(parties/paragraphes de): DGUV Regulation 17, DGUV Information 215-313,

Roudnice nad Ladem, Czech Republic, 08-09-16

Mr. F. Zykan

CEO



DICHIARAZIONE DI CONFORMITÀ CE PER LE MACCHINE (Direttiva 2006/42/EEC)

MILOS s.r.o.
Spindlerova 286
413 01 Roudnice nad Labem
Czech Republic

dichiariamo che:

MILOS: CELL CLAMPS tutti i modelli della serie 100, 200, 300, 400, 500 e 600

- è in conformità alla Direttiva-CE Machine 2006/42/EEC- annex 1
- è in conformità con norme europee di normalizzazione (o parti di):
DIN EN 1999-1, DIN EN 1993-1, EN 6892-1:2009
- è in conformità con norme tecniche e certificazione nazionali o internazionali (o parti di):
DGUV Regulation 17, DGUV Information 215-313

Roudnice nad Ladem, Czech Republic, 08-09-2016

Mr. F. Zykan

CEO

11. TÜV CERTIFICATES

CELL130

CERTIFICATE OF APPROVAL FOR USE OF TEST MARK



Valid only according to the terms of conditions
TUV NORD Czech, s.r.o., Českomoravská 2420/15, 190 00 Praha 9

APPLICANT: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

MANUFACTURING FACILITY: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

Ref.no. of the applicant: 100 170 831 Date of application: 31.05.2017 File no.: TNCZ51-01/15 SII Datum of issue: 05.07.2017 Valid until: 06.06.2022

TEST MARK:
for technical products, individual parts



Description of product: Tube Clamp Type:
Cell131, Cell132, Cell133, Cell134, Cell135, Cell136

Test documentation: Test report no.: 616/2017
Date of ending test: 02.06.2017

Tested according to: Testing procedure No. TNCZ-1B

Applied code, regulations and specifications:
EN 6892-1:2009, EN 1999-1-1, 2006/42/EC,
DGUV Regulation 17, DGUV Information 215-313

Jarchofský Daniel
TUV NORD Czech, s.r.o.



Prag, 2017-07-05

ADDITIONAL INFORMATION:

TUV NORD Czech, s.r.o. as an inspection site for technical working resources and consumer products with related testing laboratories: The tested product, above mentioned as a production sample, is in compliance with technology regulations. If to be used as a single component or as an accessory part for technical work equipment or consumer products, it meets the requirements imposed by the law on technical equipment and consumer products. Permission is hereby granted to use the mark under the contractual terms printed on the other side.

TUV NORD Czech, s.r.o.
Českomoravská 2420/15, 190 00 Praha 9
Tel. (00420) 296 587 201-9, Telefax (00420) 296 587 240, E-mail tuvev-nord@tuvev-nord.cz

Annex no.1/ certificate no.: TNCZ01/17 Rev. 0
Page 1 of 1
Reference no.: 5117074/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp Type Cell131-136

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell131	MIL-V-CELL-08 00/14	616/2017	14,0	1340
Cell132	MIL-V-CELL-23 00/17		16,7	
Cell133	MIL-V-CELL-24 00/17		15,2	
Cell134	MIL-V-CELL-25 00/17		13,0	
Cell135	MIL-V-CELL-26 00/17		10,8	
Cell136	MIL-V-CELL-27 00/17		10,7	

Specification of technical parameters Cell131, Cell132, Cell133, Cell134, Cell135, Cell136:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
1340	330	260	160	130

Working Load Limit:

160 kg

Only this value can be used in conjunction with TUV NORD Czech test mark

Width: 30,0 mm

Suitable for pipe diameter: 32,0 – 35,0 mm

Material: EN AW-6063 T66

The above mentioned products could be provided with the following marking:

Stiller Pavel
TUV NORD Czech, s.r.o.



CELL200

CERTIFICATE OF APPROVAL FOR USE OF TEST MARK

TUV NORD
Czech
No. TNCZ02/15 Rev. 0

Valid only according to the terms of conditions
TUV NORD Czech, s.r.o., Pod Hájkem 406/1, CZ180 00 PRAHA 8

APPLICANT: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

MANUFACTURING FACILITY: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

Ref.no. of the applicant: 100 150114 Date of application: 28.08.2015 File no.: TNCZ51-01/15 S6 Datum of issue: 19.02.2016 Valid until: 07.10.2020

TEST MARK:
for technical products, individual parts



Description of product: Tube Clamp Type:
(Details see Annex1) Cell201, Cell202, Cell203, Cell204, Cell205, Cell206,
Cell207, Cell208, Cell211, Cell212

Test documentation: Test report no. 1074-7/2015 + 1074-16/2015
Date of ending test: 08.10.2015

Tested according to: Testing procedure No. TNCZ-1A

Applied code, regulations and specifications:
EN 6892-1:2009, EN 1999-1-1, 2006/42/EC,
DGUV Regulation 17, DGUV Information 215-313

Jarchovský Daniel
TUV NORD Czech, s.r.o.



Prag, 2016-02-19

ADDITIONAL INFORMATION:

TUV NORD Czech, s.r.o. as an inspection site for technical working resources and consumer products with related testing laboratories: The tested product, above mentioned as a production sample, is in compliance with technology regulations. If to be used as a single component or as an accessory part for technical work equipment or consumer products, it meets the requirements imposed by the law on technical equipment and consumer products. Permission is hereby granted to use the mark under the contractual terms printed on the other side.

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Pod Hájkem 406/1, CZ - 180 00 Praha 8
Tel. (00420) 296 587 201-9, Telefax (00420) 296 587 240, E-mail tuvev-nord@tuvev-nord.cz

Annex no.1/ certificate no.: TNCZ02/15 Rev. 0
Page 1 of 5
Reference no.: 5115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell2xx

I. Cell201, Cell202, Cell203:

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell201	MIL-V-CELL-1500/03	1074-7/2015	51,2	5240
Cell202	MIL-V-CELL-1600/03	1074-8/2015	54,7	
Cell203	MIL-V-CELL-1100/08	1074-9/2015	51,3	

Specification of technical parameters Cell201, Cell202, Cell203:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
5240	1310	1040	650	520

Working Load Limit:

650 kg

Only this value can be used in conjunction with TUV NORD Czech test mark

Width:

50,0 mm

Suitable for pipe diameter:

48,0 - 51,0 mm

Material:

EN AW-6082 T6

The above mentioned products could be provided with the following marking:

Stiller Pavel
TUV NORD Czech, s.r.o.



Annex no.1/ certificate no.: TNCZ02/15 Rev. 0
Page 2 of 5
Reference no.: 5115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell2xx

II. Cell204, Cell205, Cell206:

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell204	MIL-V-CELL-1800/03	1074-10/2015	45,3	4320
Cell205	MIL-V-CELL-3100/13	1074-11/2015	41,0	
Cell206	MIL-V-CELL-3200/13	1074-12/2015	43,3	

Specification of technical parameters Cell204, Cell205, Cell206:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
4320	1080	860	540	430

Working Load Limit:

540 kg

Only this value can be used in conjunction with TUV NORD Czech test mark

Width:

50,0 mm

Suitable for pipe diameter:

48,0 - 51,0 mm

Material:

EN AW-6082 T6

The above mentioned products could be provided with the following marking:

Stiller Pavel
TUV NORD Czech, s.r.o.



Annex no.1/ certificate no.: TNCZ02/15 Rev. 0
Page 3 of 5
Reference no.: 5115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell2xx

III. Cell207, Cell208:

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell207	MIL-V-CELL-2700/03	1074-13/2015	47,2	4510
Cell208	MIL-V-CELL-1900/04	1074-14/2015	43,0	

Specification of technical parameters Cell207, Cell208:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
4510	1120	900	560	450

Working Load Limit:

560 kg

Only this value can be used in conjunction with TUV NORD Czech test mark

Width:

30,0 mm

Suitable for pipe diameter:

48,0 - 51,0 mm

Material:

EN AW-6082 T6

The above mentioned products could be provided with the following marking:

Stiller Pavel
TUV NORD Czech, s.r.o.



Annex no. 1/ certificate no.: TNC202/15 Rev. 0
Page 4 of 5
Reference no.: 5115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell2xx

IV. Cell211:

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell211	MIL-V-CELL-1900/03	1074-15/2015	62,8	6280

Specification of technical parameters Cell211:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
6280	1570	1250	780	620

Working Load Limit:

780 kg

Only this value can be used in conjunction with TÜV NORD Czech test mark.

Width:

50,0 mm

Suitable for pipe diameter:

48,0 - 51,0 mm

Material:

EN AW-6082 T6

The above mentioned products could be provided with the following marking:


Stiller Pavel
TÜV NORD Czech, s.r.o.



Annex no. 1/ certificate no.: TNC202/15 Rev. 0
Page 5 of 5
Reference no.: 5115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell2xx

V. Cell212:

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell212	MIL-V-CELL-2600/03	1074-16/2015	32,8	3280

Specification of technical parameters Cell212:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
3280	820	650	410	320

Working Load Limit:

410 kg

Only this value can be used in conjunction with TÜV NORD Czech test mark.

Width:

30,0 mm

Suitable for pipe diameter:

48,0 - 51,0 mm

Material:

EN AW-6082 T6

The above mentioned products could be provided with the following marking:


Stiller Pavel
TÜV NORD Czech, s.r.o.



CELL300

CERTIFICATE OF APPROVAL FOR USE OF TEST MARK

TUV NORD

No. TNCZ03/15

Czech
Rev. 0

Valid only according to the terms of conditions
TUV NORD Czech, s.r.o., Pod Hájkem 406/1, CZ180 00 PRAHA 8

APPLICANT: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

MANUFACTURING FACILITY: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

Ref.no. of the applicant: 100 150114 Date of application: 28.08.2015 File no. TNCZ51-01/15 St Datum of issue: 19.02.2016 Valid until: 07.10.2020

TEST MARK:
for technical products, individual parts



Description of product: Tube Clamp Type:
(Details see Annex1) Cell301, Cell302, Cell303, Cell304, Cell305, Cell306

Test documentation: Test report no. 1074-17/2015 + 1074-22/2015
Date of ending test: 08.10.2015

Tested according to: Testing procedure No. TNCZ-1A

Applied code, regulations and specifications:
EN 6892-1:2009, EN 1999-1-1, 2006/42/EC,
DGUV Regulation 17, DGUV Information 215-313

Jarchofsky Daniel
Jarchofsky Daniel
TUV NORD Czech, s.r.o.



Prag, 2016-02-19

ADDITIONAL INFORMATION:

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Pod Hájkem 406/1, CZ-180 00 Praha 8
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Annex no.1/ certificate no.: TNCZ03/15 Rev.: 0
Page 1 of 1
Reference no.: 5115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell301-306

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell301	MIL-V-CELL-1500/04	1074-17/2015	65,5	5210
Cell302	MIL-V-CELL-2000/04	1074-18/2015	46,7	
Cell303	MIL-V-CELL-1200/08	1074-19/2015	59,7	
Cell304	MIL-V-CELL-2200/04	1074-20/2015	54,7	
Cell305	MIL-V-CELL-2300/04	1074-21/2015	43,4	
Cell306	MIL-V-CELL-2400/04	1074-22/2015	42,7	

Specification of technical parameters Cell301, Cell302, Cell303, Cell304, Cell305, Cell306:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
5210	1300	1040	650	520

Working Load Limit:

650 kg

Only this value can be used in conjunction with TUV NORD Czech test mark

Width:

50,0 mm

Suitable for pipe diameter:

60,0 - 63,5 mm

Material:

EN AW-6082 T6

The above mentioned products could be provided with the following marking:

Stiller Pavel
Stiller Pavel
TUV NORD Czech, s.r.o.



CELL400

CERTIFICATE OF APPROVAL FOR USE OF TEST MARK

TUV NORD

Czech
Rev. 0

Valid only according to the terms of conditions
TUV NORD Czech, s.r.o., Pod Hájkem 406/1, CZ180 00 PRAHA 8

APPLICANT: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

MANUFACTURING FACILITY: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

Ref. no. of the applicant: 100 150114 Date of application: 28.08.2015 File no.: TNCZ51-01/15 SII Datum of issue: 19.02.2016 Valid until: 07.10.2020

TEST MARK:
for technical products, individual parts



Description of product: Tube Clamp Type:
(Details see Annex1) Cell401, Cell402, Cell403, Cell411

Test documentation: Test report no.: 1074-23/2015 + 1074-25/2015, 1074-34/2015
Date of ending test: 08.10.2015

Tested according to: Testing procedure No. TNCZ-1A

Applied code, regulations and specifications:
EN 6892-1:2009, EN 1999-1-1, 2006/42/EC,
DGUV Regulation 17, DGUV Information 215-313

Jarchovský Daniel
TUV NORD Czech, s.r.o.



Prag, 2016-02-19

ADDITIONAL INFORMATION:

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Pod Hájkem 406/1, CZ-180 00 Praha 8
Tel. (00420) 296 587 201-9, Telefax (00420) 296 587 240, E-mail tuvev-nord@tuvev-nord.cz

Annex no.1/ certificate no.: TNCZ04/15 Rev. 0
Page 1 of 2
Reference no.: S115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp Type Cell4xx

I. Cell401, Cell402, Cell403:

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell401	MIL-V-CELL-1600/04	1074-23/2015	28,8	2910
Cell402	MIL-V-CELL-2500/04	1074-24/2015	30,3	
Cell403	MIL-V-CELL-2600/04	1074-25/2015	28,2	

Specification of technical parameters Cell401, Cell402, Cell403:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
2910	720	580	360	290

Nominal load: 360 kg
Only this value can be used in conjunction with TUV NORD Czech test mark

Width: 32,0 mm

Suitable for pipe diameter: 38,0 - 51,0 mm

Material: EN AW-6082 T6

The above mentioned products could be provided with the following marking:

Stiller Pavel
TUV NORD Czech, s.r.o.



Annex no.1/ certificate no.: TNCZ04/15 Rev. 0
Page 2 of 2
Reference no.: S115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp Type Cell4xx

II. Cell411:

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell411	MIL-V-CELL-3000/12	1074-34/2015	15,8	1580

Specification of technical parameters Cell411:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
1580	390	310	190	150

Working Load Limit: 190 kg
Only this value can be used in conjunction with TUV NORD Czech test mark

Width: 32,0 mm

Suitable for pipe diameter: 48,0 - 60,0 mm

Material: EN AW-6082 T6

The above mentioned products could be provided with the following marking:

Stiller Pavel
TUV NORD Czech, s.r.o.



CELL500

CERTIFICATE OF APPROVAL FOR USE OF TEST MARK

TUV NORD

No. TNCZ05/15

Czech
Rev. 0

Valid only according to the terms of conditions
TUV NORD Czech, s.r.o., Pod Hájkem 406/1, CZ180 00 PRAHA 8

APPLICANT: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

MANUFACTURING FACILITY: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

Ref.no. of the applicant: 100 150114 Date of application: 28.08.2015 File no. TNCZ51-01/15 S6 Datum of issue: 19.02.2016 Valid until: 07.10.2020

TEST MARK:
for technical products, individual parts



Description of product: Tube Clamp Type:
(Details see Annex1) Cell501, Cell502, Cell503, Cell504

Test documentation: Test report no. 1074-26/2015 + 1074-29/2015
Date of ending test: 08.10.2015

Tested according to: Testing procedure No. TNCZ-1A

Applied code, regulations and specifications:
EN 6892-1:2009, EN 1999-1-1, 2006/42/EC,
DGUV Regulation 17, DGUV Information 215-313

Jarchofský Daniel
Jarchofský Daniel
TUV NORD Czech, s.r.o.



Prag, 2016-02-19

ADDITIONAL INFORMATION:

TUV NORD Czech, s.r.o. as an inspection site for technical working resources and consumer products with related testing laboratories. The tested product, above mentioned as a production sample, is in compliance with technology regulations. If to be used as a single component or as an accessory part for technical work equipment or consumer products, it meets the requirements imposed by the law on technical equipment and consumer products. Permission is hereby granted to use the mark under the contractual terms printed on the other side.

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Annex no.1/ certificate no.: TNCZ05/15 Rev. 0
Page 1 of 1
Reference no.: 5115069/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell501-504

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell501	MIL-V-CELL-3100/07	1074-26/2015	21,0	1890
Cell502	MIL-V-CELL-3200/09	1074-27/2015	14,7	
Cell503	MIL-V-CELL-3300/09	1074-28/2015	23,3	
Cell504	MIL-V-CELL-3400/09	1074-29/2015	16,7	

Specification of technical parameters Cell501, Cell502, Cell503, Cell504:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
1890	470	370	230	180

Working Load Limit: 230 kg
Only this value can be used in conjunction with TUV NORD Czech test mark

Width: 30,0 mm

Suitable for pipe diameter: 48,0 - 51,0 mm

Material: EN AW-6082 T6

The above mentioned products could be provided with the following marking:

Stiller Pavel
Stiller Pavel
TUV NORD Czech, s.r.o.



CELL600

CERTIFICATE OF APPROVAL FOR USE OF TEST MARK

TÜV NORD

Czech

No. TNCZ06/15

Rev. 0

Valid only according to the terms of conditions
TUV NORD Czech, s.r.o., Pod Hájkem 406/1, CZ180 00 PRAHA 8

APPLICANT: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

MANUFACTURING FACILITY: MILOS s.r.o.
Spindlerova třída 286, 413 01 Roudnice nad Labem, CZ

Ref. no. of the applicant: 100 150114 Date of application: 28.08.2015 File no.: TNCZ51-01/15 St Datum of issue: 19.02.2016 Valid until: 07.10.2020

TEST MARK:
for technical products, individual parts



Description of product: Tube Clamp Type:
(Details see Annex1) Cell601, Cell602, Cell603

Test documentation: Test report no.: 1074-31/2015 + 1074-33/2015
Date of ending test: 08.10.2015

Tested according to: Testing procedure No. TNCZ-1A

Applied code, regulations and specifications:
EN 6892-1:2009, EN 1999-1-1, 2006/42/EC,
DGUV Regulation 17, DGUV Information 215-313

J. Jarchovský
Jarchovský Daniel
TUV NORD Czech, s.r.o.



Prag, 2016-02-19

ADDITIONAL INFORMATION:

TUV NORD Czech, s.r.o. as an inspection site for technical working resources and consumer products with related testing laboratories. The tested product, above mentioned as a production sample, is in compliance with technology regulations. If to be used as a single component or as an accessory part for technical work equipment or consumer products, it meets the requirements imposed by the law on technical equipment and consumer products. Permission is hereby granted to use the mark under the contractual terms printed on the other side.

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Pod Hájkem 406/1, CZ -180 00 Praha 8
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Annex no.1/ certificate no.: TNCZ06/15 Rev. 0
Page 1 of 1
Reference no.: 5115068/01, File-No.: TNCZ51-01/15



Description of product:

Tube Clamp type Cell601-603

Type designation:	Drawing no.:	Test report no.:	Tensile force [kN]:	Ø tensile force [kg]:
Cell601	MIL-V-CELL-2800/09	1074-31/2015	25,3	2810
Cell602	MIL-V-CELL-2000/10	1074-32/2015	24,7	
Cell603	MIL-V-CELL-2100/10	1074-33/2015	34,5	

Specification of technical parameters Cell601, Cell602, Cell603:

Ø load at failure [kg]	WLL	WLL	WLL	WLL
	Safety factor 4:1	Safety factor 5:1	Safety factor 8:1	Safety factor 10:1
2810	700	560	350	280

Working Load Limit:

350 kg

Only this value can be used in conjunction with TÜV NORD Czech test mark

Width:

40,0 mm

Suitable for pipe diameter:

48,0 - 51,0 mm

Material:

EN AW-6082 T6

The above mentioned products could be provided with the following marking:

P. Stiller
Stiller Pavel
TUV NORD Czech, s.r.o.





MILOS s.r.o.

Spindlerova 286
413 01 Roudnice nad Labem
Czech Republic

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