

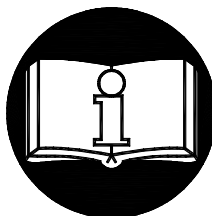
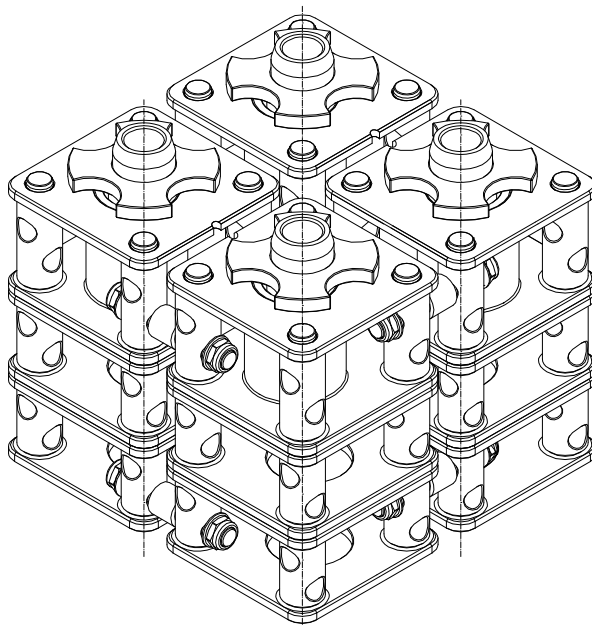


BRANO a.s., 747 41 Hradec nad Moravicí
Česká republika
tel.: +420/ 553 632 303
<http://www.brano-zz.cz>; <http://www.brano.eu>;
zz-info@brano.eu; info@brano.eu

OPERATION MANUAL
SECURITY PRINCIPLES, OPERATION AND MAINTENANCE
FOR
CONTAINER ADJUSTING CUBE
type CM-CCR 150/X

CONTAINER FIXATION CUBE
type CM-CCF 100/X

CONNECTION SCREW
type CM-VR 100/X; type CM-VR 390/X



Peruse the operation manual before using the supporting system. It comprehends substantial security instructions and instructions for use, installation and maintenance of the product. Ensure the Operation Manual to be available for all responsible persons.

Keep for next usage!

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1 DEFINITION

! HAZARD **Hazard:** it adverts to an imminent hazardous situation, which will inflict death or serious injury, if the operation personnel will not avoid it.

! WARNING **Warning:** it adverts to a possible hazardous situation, which could inflict death or serious injury, if the operation personnel will not avoid it.

! NOTICE **Notice:** it adverts to a possible hazardous situation, which could inflict any minor or slight injury, if the operation personnel will not avoid it. The notice can warn against hazardous practices as well.

Load capacity (Q): is the maximum permitted weight (working load limit) of a load on the contact surface, by which the supporting system is possible to be loaded when handling on conditions specified in this Operation Manual.

Competent person: is the person determined by the equipment user

2 DEVICE PURPOSE

2.1 Container adjusting cube of type CM-CCR 150/x; container fixation cube of type CM-CCF 100/x; connection screw CM-VR 100/x; connection screw CM-VR 390/x (further as supporting system) is designed entirely for load supporting with the modification of corner part on the container ISO. The load weight when supporting does not have to exceed specified permitted load capacity.

2.2 Supporting system by its design meets requirements provided by Directive 2006/42/EC of the European Parliament and of the Council as amended by the Czech technical regulation – ministerial order No. 176/2008 of the Collection of Laws as amended as well as requirements of the ČSN EN ISO 12100.

3 SECURITY PRINCIPLES

3.1 SECURITY PRINCIPLES OVERVIEW

A hazard exists when handling loads especially in the event that the product is not use in the right way or is badly maintained. Whereas as a result an accident or severe injury could happen, it is necessary to observe the special security measures when handling, assembling, maintaining and checking the product.

! WARNING

ALWAYS ensure the supporting system to stand on the flat place.

NEVER burden the product more than is the load capacity indicated on the product – see picture 5.

NEVER use the product as a support for containers stacking.

ALWAYS check the accuracy of supporting system assembly.

ALWAYS warn persons in surroundings before starting work.

ALWAYS read the operation manual and security instructions.

Bear in mind that the operation staff is responsible for faultless technique of supporting system usage. Hence verify all national directives, regulations and standards whether they contain other information on safety work with your supporting system.

3.2. SECURITY PRINCIPLES

! WARNING

3.2.1 Prior to use

- ALWAYS** ensure the supporting system would be operated by physically fit, qualified and instructed persons older than 18 years, demonstrably familiarized with the operation manual and trained in security of work and mode of operation. The user keeps the demonstrably registration of training persons.
- ALWAYS** check up the supporting system every day before starting work according to section 8.2. (1) „Daily inspection“.
- ALWAYS** respect the supporting system in on the firm foundation.
- NEVER** overload the supporting system by the load which exceeded the weight indicated on the product.
- NEVER** use the defective or outworn supporting system.
- NEVER** use the supporting system without visible load capacity marking on the products.
- NEVER** use the supporting system marked with the label „**OUT OF OPERATION**“.
- ALWAYS** consult the producer or his authorized representative any application of the jack in nonstandard or extreme environment.

3.2.2 When in use

- ALWAYS** attend to the supporting system would stay vertically.
- ALWAYS** make sure the load is fitly put on the supporting system – see chapter 7.
- ALWAYS** pay increased attention, if the supporting system is drawn up to maximum position.
- ALWAYS** work with the supporting system only with manpower.
- NEVER** allow the load would give rise to impacts or vibrations.

3.2.3 Risk analysis

The possible risks analysis in light of design, operation and environment of the supporting system appointment is presented in freestanding document „Risk analysis“. It is possible to require the document in service centers.

3.2.4 Maintenance

ALWAYS make possible to competent persons to carry out the regular inspection of the supporting system.

ALWAYS ensure slipping parts would be sufficiently greased by the prescribed grease according to the chapter 10.1.

At maintenance only such interventions can be done that will be in accordance with producer's requirements stated in the chapter 11 of this OM.

IT IS NOT PERMITTED to carry out repairs and maintenance in other manner than specified by the producer. It concerns namely the forbiddance of using of unoriginal spare parts or carrying out changes on the product without the approval of the producer.

4 PACKING, STORAGE AND HANDLING

4.1 PACKING

4.1.1 The supporting system or its parts are supplied in assembled state in bulk in transport cases.

4.1.2 The following accompanying documentation is a part of the delivery:

- a) Operation Manual
- b) EC Declaration of Conformity
- c) Quality and Completeness Certificates and Guarantee Certificate.
 - c1) Guarantee period is stated in the Guarantee Certificate.
 - c2) The guarantee does not apply to defects caused by infringement of the instructions stated in the Operation Manual and defects arisen by improper using and unskilled action.
 - c3) The guarantee does not apply as well to changes on the product or using of unoriginal spare parts without the approval of the producer.
 - c4) Reclaiming of product defects is carried out according to applicable provisions of commercial code eventually as amended.

4.2 STORAGE

Store the supporting system in dry and clean stores void of chemical impacts and noxious fumes.

- (1) Wipe away all dust, water and impurities from the supporting system.
- (2) Grease slipping parts of the supporting system by the prescribed grease according to the chapter 10.1 of this OM.
- (3) Put the supporting system in a dry place.
- (4) In next using follow instructions in the article 8.1.4 „Supporting system occasionally used“.
- (5) Keep the temperature from -33 °C till +70 °C when storage.

! WARNING

ALWAYS use the protective gloves when handling with the supporting system - injury burn or subsequent wound can be caused.

4.3 HANDLING

During transportation and handling, observe technical regulations and standards in force for work with heavy loads.

! WARNING

ALWAYS use the protective gloves when handling with the supporting system.

5 MAIN TECHNICAL SPECIFICATIONS

Type	Load capacity (t)	Main dimensions (mm)									Weight (kg)
	Q	A _{min}	A _{max}	A ₁	B	C	D	E	F	G	
CM-CCR 150/x	6	150	250	132	200	200	25	27	62	30	17,2
CM-CCF 100/x		-	100	106					-	-	
Working temperature range -30°C až +55°C											

Remark: x – color design of supporting system. (K – RAL 6031 F9; B – according to ČSN 6003 Ivory)

Main dimensions according to the type

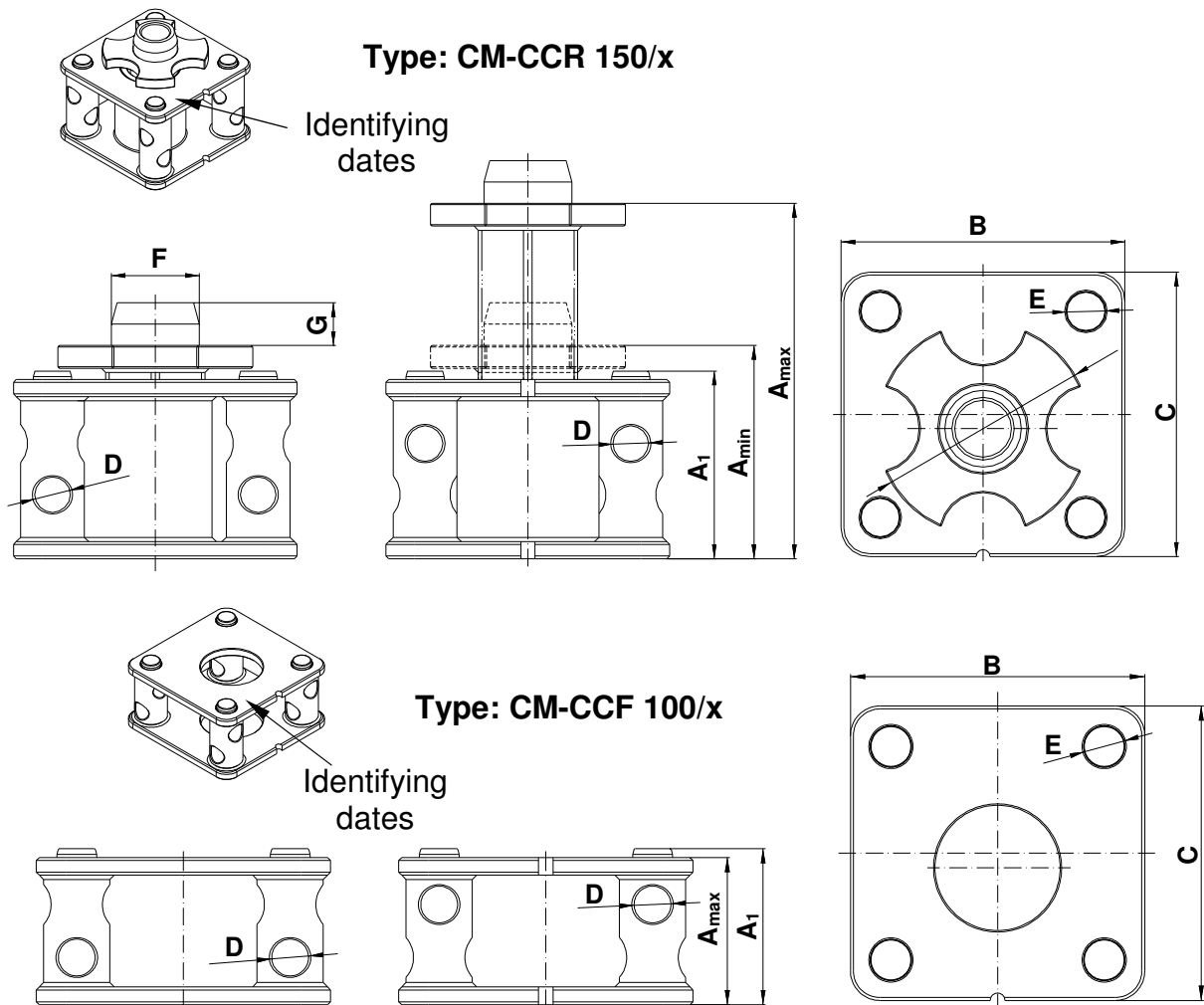


Fig.5

Type	Load capacity (t)	Main dimensions (mm)				Weight (kg)
	Q	L	L ₁	D	D ₁	
CM-VR 100/x	-	100	140	24	37	0,6
CM-VR 390/x	-	390	430			1,6
Working temperature range -30°C až +55°C						

Remark: x – color design of supporting system. (K – RAL 6031 F9; B – according to ČSN 6003 Ivory)

Type: CM-VR 100(390)/x

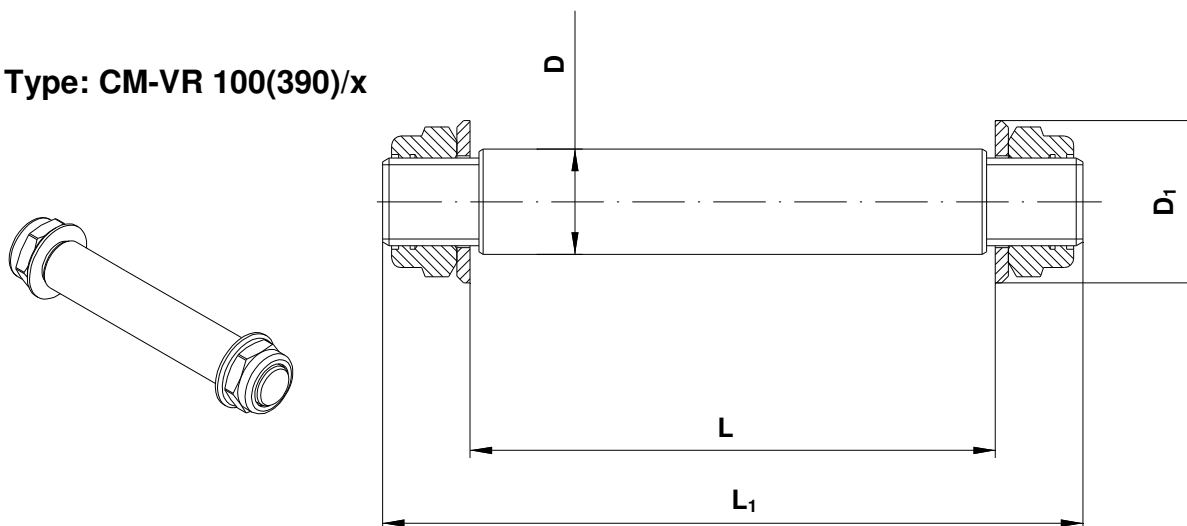


Fig.5a

5.1. MATERIAL AND FINISH

5.1.1 All parts of the supporting system are manufactured from steel

5.1.2 Supporting system does not exceed the noise value specified in the Annex No.2 article 1.7.4 letter f of the ministerial order No. 176/2008 of the Collection of Law (EP and RE directive No. 2006/42/EC).

5.2 DATA ON THE PRODUCT

Each product is equipped with the marking (Fig. 5) with specified data as follows:

Standard finish:
Mark of the producer
Address of the producer
Product type
Load capacity
Serial number

6 SUPPORTING SYSTEM OPERATION

! WARNING

ALWAYS before installation check up thoroughly whether the supporting system is not damaged.

NEVER the load weight or resultant force of gravity on the bearing surface must not exceed the safe working load of the supporting system.

6.1 SUPPORTING SYSTEM OPERATION INSTRUCTIONS

Supporting system is operated manually by the bolt rotation. Raising or lowering the bearing surface can be cut off in any lifting height. Trapezial screw-thread self-locking safeguards the stability of the load position.

Type: CM-CCR 150/x

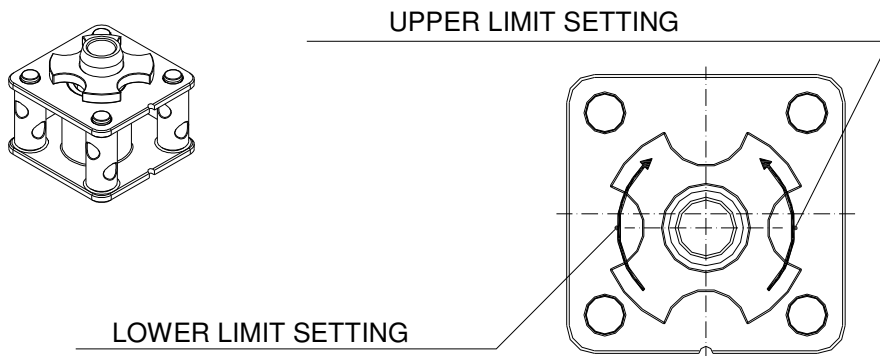


Fig.6.1

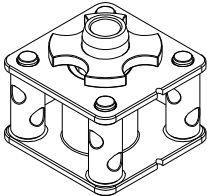
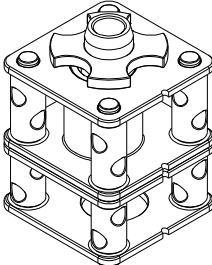
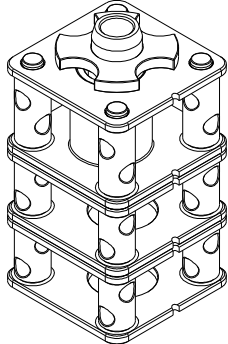
DIMENSION (mm)		150-250	251-350	351-450
COMPONENT TYPE	CM-CCR 150/x	1 pc	1 pc	1pc
	CM-CCF 100/x	-	1 pc	2 pc
	ILLUSTRATION			

Fig. 6.1.

6.1.1 Required dimension of supporting system setting

By screwing of the supporting system bolt to the left, you set the upper limit (see fig.6.1).

By screwing of the supporting system bolt to the right, you set the lower limit (see fig.6.1).

6.1.2. Wanting dimension of supporting system rough adjustment

By putting together the container fixation cubes and container adjusting cubes is done the wanting dimension of supporting system rough adjustment (see chapter 6.1).

6.1.3. Wanting dimension of supporting system fine adjustment

Wanting dimension of supporting system fine adjustment is done by the trapezoidal screw (see chapter 6.1.1).

! WARNING

NEVER use the supporting system as a jack.

NEVER insert foreign objects between the bearing surface bolt of the supporting system and load. Pushing down of the load from the supporting system might be caused.

6.2 BEARING SURFACE CHECK-UP /floor, rough ground/

! NOTICE

ALWAYS make sure that the bearing surface is sufficiently firm to hold tightly supposed loading for all time of handling. The installation must not be carried out on the surface where it is not possible to determine the load-bearing capacity or that is instable.

ALWAYS the operation personnel are responsible for the set-up!

6.3 TEST PRIOR TO USE

! NOTICE

- (1) At first read again the previous articles of this manual and make sure that all steps were correctly done and all parts are safety mounted.
- (2) Visually check the supporting system and bearing surface whether they are without defects – according to the chapter 8.2.
- (3) Put to proof the jack function by the motion of the crank without loading.
- (4) Check the supporting system function by screwing of trapezoidal bolt according to the chapter 6.1.1. and check the supporting system assemblage without load according to the chapter 6.1.2.

7 OPERATION

7.1 APPLICATION OF THE SUPPORTING SYSTEM

Supporting system is multifunctional equipment destined for load supporting with the modification of corner part on the container ISO determined by the user.

7.1.1 Application for ISO container

Supporting system can be used for container ISO support. Lift the container and in all four corners of container ISO rough assembly the supporting system depending on the ground disposition (see chapter 6.1.2). Place the supporting system assembled by this way under single corners of container ISO (Fig. 7.1.1). The label on supporting system must head toward the container side (Fig. 7.1.1a). Then do the fine adjustment of the wanting height according to the chapter 6.1.3.

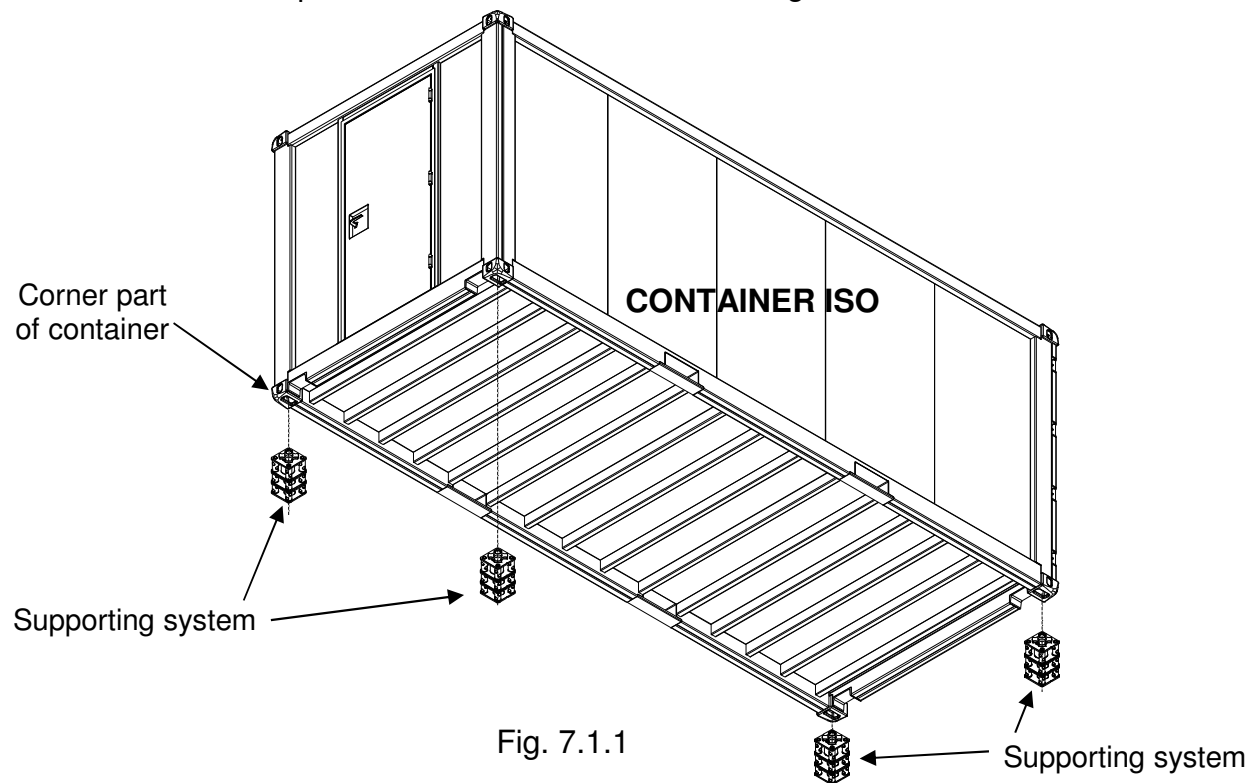
Having adjust the heights in all corners of container ISO, get down the container on bearing surface of the supporting system.

! NOTICE

The usage of minimally four supporting systems at once is necessary for ISO container supporting.

! WARNING

NEVER allow the persons' movement under the lifting load or container.



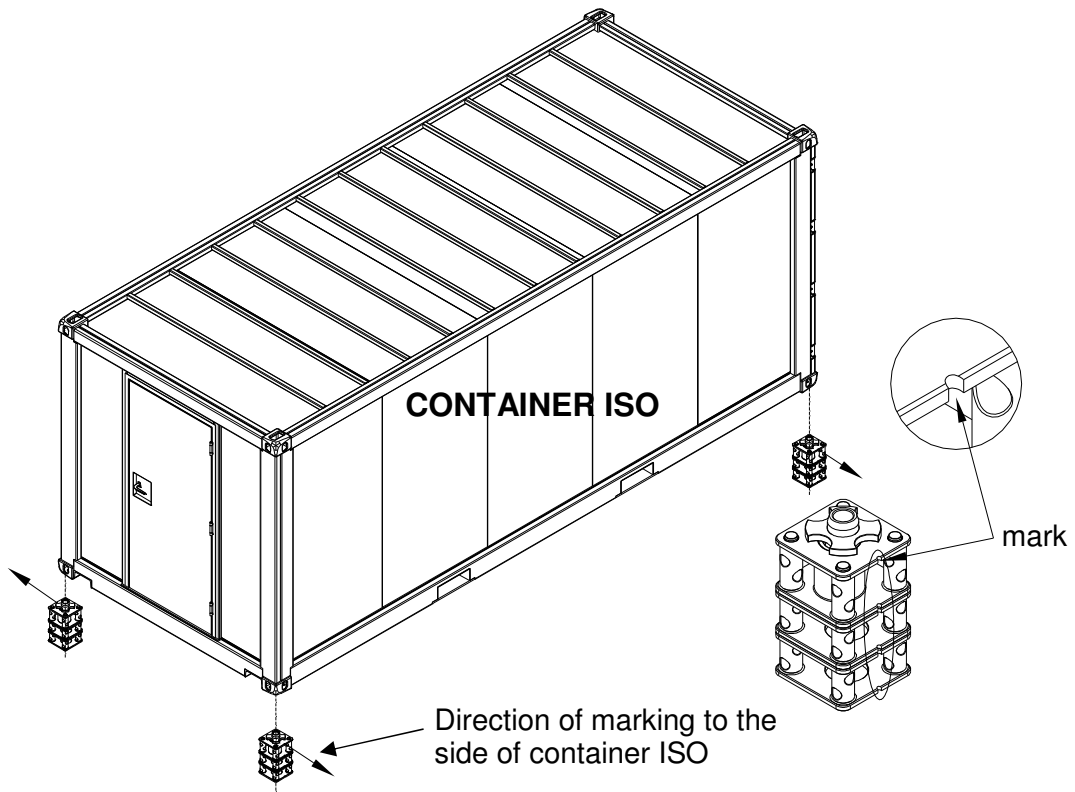


Fig. 7.1.1a

7.1.2 Application for two and more side-by-side containers ISO

Supporting system can be used for the support of two and more containers ISO. Do the assembly of the supporting system for two and more containers ISO according to fig. 7.1.2 and fig. 7.1.2a.

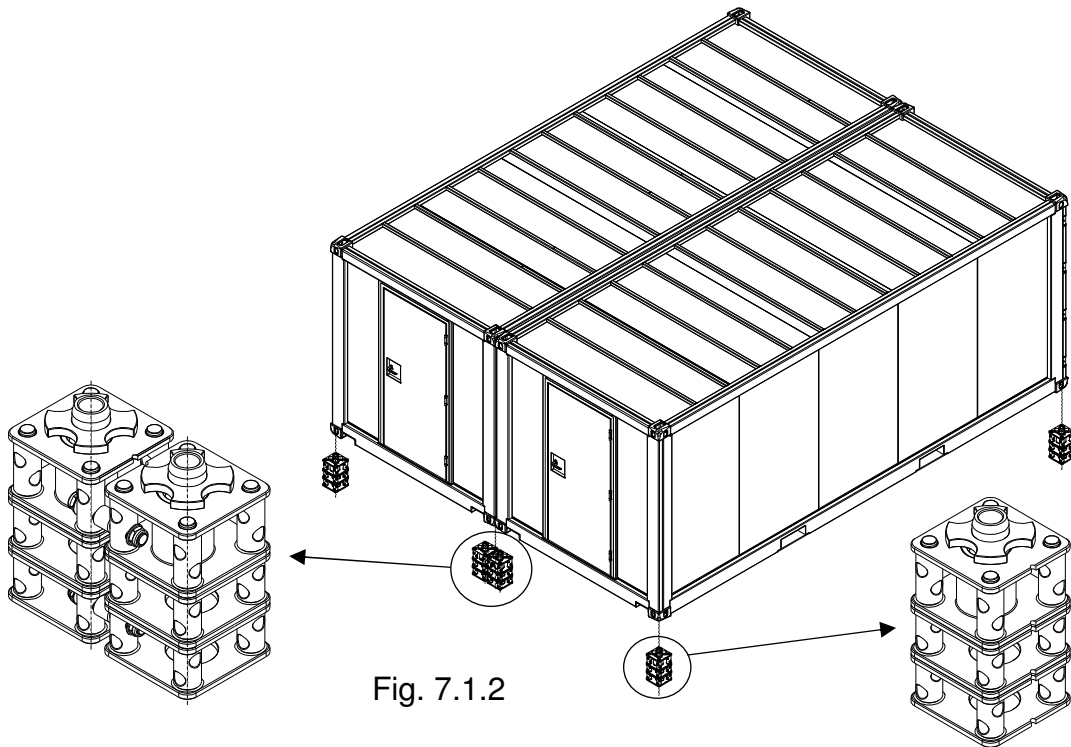


Fig. 7.1.2

7.1.2.1 Application for side-by-side containers ISO with free access to supporting system

Lift containers and in all corners of containers ISO rough assembly the supporting systems depending on the ground disposition (see chapter 6.1.2). Place the supporting systems assembled by this way under single corners of containers ISO (Fig. 7.1.1, Fig. 7.1.1a and Fig. 7.1.2). Then do the fine adjustment of the wanting height according to the chapter 6.1.3. Connect adjacent supporting systems by using the connection screws CM-VR 100 or CM-VR 390 (see Fig. 7.1.2a).

Having adjust the heights in all corners of containers ISO, get down the containers on bearing surface of the supporting system.

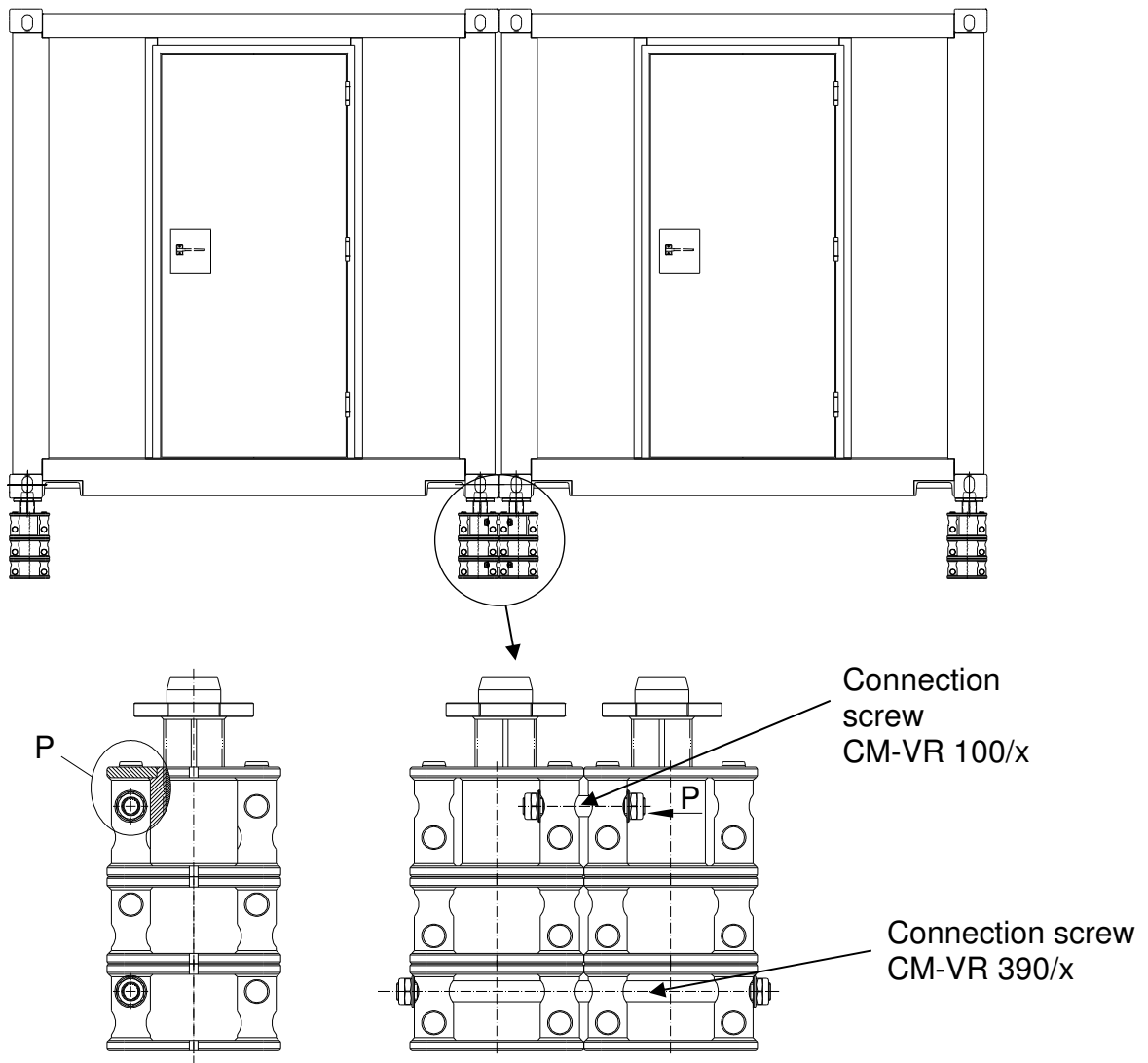


Fig. 7.1.2a

! NOTICE

Use four supporting systems at least together while supporting one container ISO.

No gap between 2 and more containers is allowed after their building into one group.

The user is responsible for sufficient connection of two side-by-side supporting systems.

Check the accuracy of supporting system rotary against the container (see chapter 7.1.1 and Fig. 7.1.1a).

! WARNING

NEVER allow the persons' movement under the lifting loads or containers.
ALWAYS take head to full nut screw in connection screw.

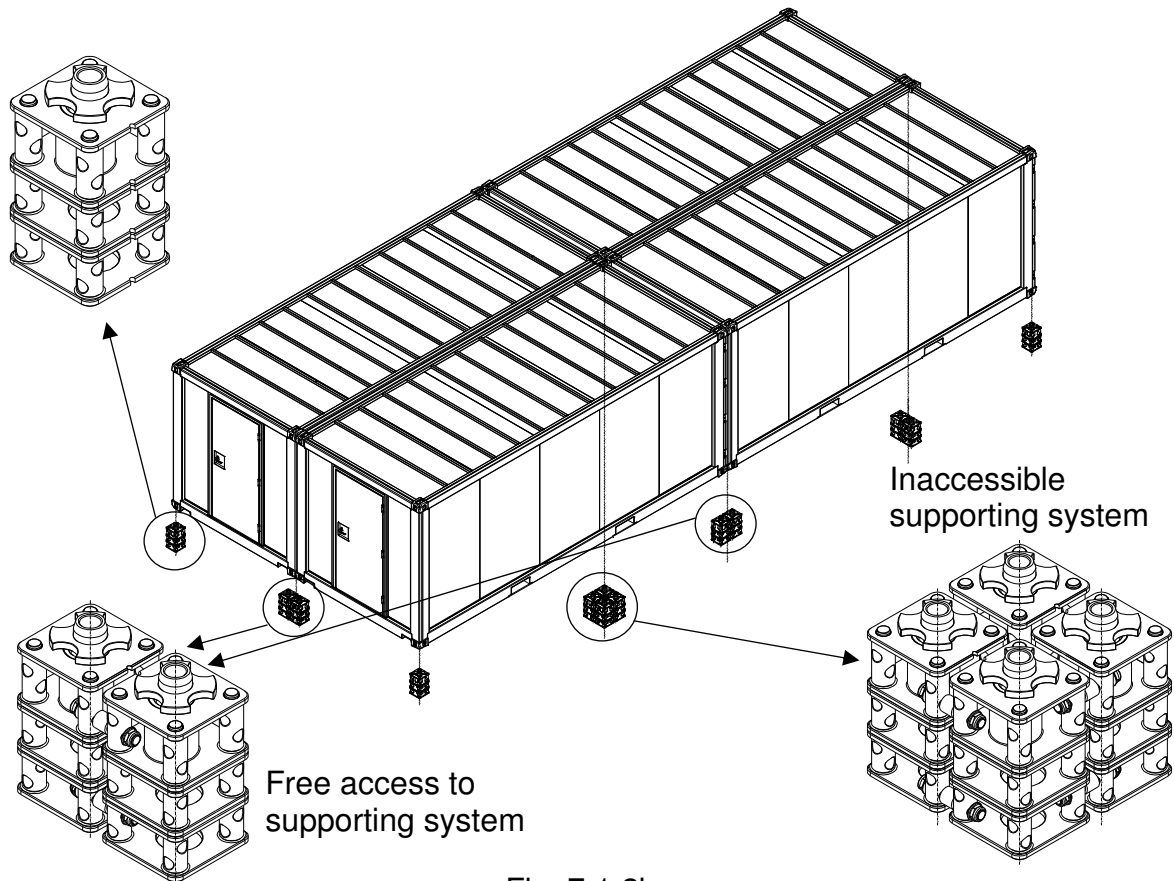


Fig. 7.1.2b

7.1.2.2 Application for side-by-side containers ISO without free access to supporting system

Measure the position of inaccessible supporting systems and supporting systems with free access.

According to the ground disposition assembly rough the supporting systems in all corners of containers ISO (see chapter 6.1.2). Place supporting systems assembled by this way under single corners of containers ISO (Fig. 7.1.1, Fig. 7.1.1a and Fig. 7.1.2 and Fig. 7.1.2b). Connect adjacent supporting systems by using the connection screws CM-VR 100 or CM-VR 390 (see Fig. 7.1.2a and Fig. 7.1.2b). Then do the fine adjustment of the wanting height according to the chapter 6.1.3 by the inaccessible supporting system.

Lift containers, set in positions with supporting systems and do the fine adjustment of the wanting height according to the chapter 6.1.3 by the supporting system with free access.

Having adjust the heights in all corners of containers ISO, get down the containers on bearing surface of the supporting system.

! NOTICE

Use four supporting systems at least together while supporting one container ISO.

No gap between 2 and more containers is allowed after their building into one group.

The user is responsible for sufficient connection of two side-by-side supporting systems.

Check the accuracy of supporting system rotary against the container (see chapter 7.1.1 and Fig. 7.1.1a).

! WARNING

NEVER allow the persons' movement under the lifting loads or containers.

ALWAYS take head to full nut screw in connection screw.

7.1.3 It is necessary to follow instructions in "Security Principles" while working with heavy loads. It can be posing of unexpected jeopardy (see chapter 3 of this OM).

7.2 SAFETY WORK ENVIRONMENT

! WARNING

- (1) The operating personnel must be demonstrably acquainted with this Operation Manual; they must adhere to valid security and hygienic regulations and must be qualified for operation of this equipment.
- (2) When working with the supporting system the operation staff must be equipped with gloves (see chapter 4.2 and 5).
- (3) When working with the supporting system the operation staff must be equipped with appropriate footwear designed for the load working.
- (4) When operating by more persons always one worker must be determined who is trained in safety at work and is responsible for supporting system handling.
- (5) Before starting the work, the operation staff must check up whether all work area is safety and whether there is the possibility of eventual escape from the environment of jeopardy.

8 CHECK-UP ON THE SUPPORTING SYSTEM

8.1 INSPECTION

8.1.1 Inspections types

- (1) Introductory inspection: it precedes first use. The responsible competent person must check up all new or repaired supporting systems to ensure the qualified fulfillment of requirements of this OM.
- (2) The supporting system inspections carried out regularly are generally divided to two groups according to inspections intervals. Intervals depend on the state of critical parts of the supporting system and rate of wear, damage or malfunction. Two main groups are here marked as daily and regular ones. The appropriate intervals are defined as follows:

(a) Daily inspection: visual check up carried out by the operation staff determined by the user that is made at the beginning of each use.

(b) Regular inspection: visual check up carried out by the competent person determined by the user in the stated time period, once a year at least.

8.1.2 Daily inspection

Check up at parts recommended in the section 8.2(1) „Daily inspection“, whether the supporting systems are not damaged nor have no defect. Carry out this inspection also during operation in the interval between regular inspections. Qualified employees will determine whether any defect or damage can constitute a hazard and whether the detailed inspection is necessary.

8.1.3 Regular inspection

Carry out overall inspections of the supporting system in the form of recommended regular inspections. The recommended regular inspection stated in the section 8.2(2) must be performed under the supervision of the competent persons who will determine whether the supporting system is necessary to be taken to parts. These inspections comprise also requirements of the daily inspection.

8.1.4 Supporting system occasionally used

- (1) Submit the supporting system not being in operation for a period of one month or longer but less than a year to inspection complying with requirements in the section 8.1.2 before follow-up putting it into operation.
- (2) Submit the supporting system not being in operation for a period of one year to inspection complying with requirements in the section 8.1.3 before follow-up putting it into operation.

8.1.5 Report on inspection

Keep the record of performed tests, inspections and maintenances of supporting systems every time. Carry out dating reports on inspections in intervals specified in the section 8.1.1 (2)(b) and keep them in the place specified by the user. The person responsible for safety and determined by the user must be advised of defects detected by the inspection or recorded during the operation.

8.2 INSPECTION PROCEDURE

(1) Daily inspection (carried out by operating staff or person responsible)

Part	Inspection method	Limit / criteria for putting-out of operation	Remedy
1. Supporting system function	Visually, aurally	Supporting system goes hardly, stammers, emits noise etc. Impossible to move with trapezoidal bolt.	To clean up and grease the supporting system. If the defect will not be removed, get the supporting system repaired. To get the supporting system repaired.
2. Supporting system assemblage - function	Visual inspection when supporting system assemblage	Parts do not fit with the counterpart.	To clean up, eventually replace by new parts.
3. Fixative parts	Visual inspection of all bolts, nuts, welds, etc.	Faulty or missing parts; Released parts	Replace by new ones; Replace by new ones; to get the supporting system repaired.

(2) Regular inspection (carried out by the competent person)

Part	Inspection method	Limit / criteria for putting-out of operation	Remedy
1. Fixative parts	Visual inspection of all screws, nuts, welds, etc.	Faulty or missing parts; Released parts	Replace by new ones; Replace by new ones; to get the supporting system repaired.
2. All parts	Visual inspection	Outworn or damaged parts; fouled and ungreased parts	Replace by new ones. To take to parts, clean up, grease and again assemble.
3. Marking of load capacity on the supporting system	Visual inspection	Load capacity is not readable.	To repair or replace by new one.

9 TROUBLE-SHOOTING

Situation	Cause of trouble	Remedy
1. Supporting system does not hold firmly the load.	Deformation of trapezial screw profile.	Parts replacement.
2. Supporting system works hardly or impossible to adjust the height.	(1) Supporting system is polluted. (2) Bearing surfaces or trapezial screw-thread are damaged.	(1) To take into parts, clean, grease and assembly again. (2) To get the supporting system repaired.
3. Supporting system makes strange noise.	Trapezial screw is polluted.	To do cleaning and greasing (see chapter 10)

10 GREASING

10.1 GENERALLY

Before application of the new grease remove dirt in the thread by wiping, rinsing or by blowing out and apply new grease. Use grease specified by the producer, sliding grease M 8064 or its equivalent.

We recommend regular lubrication of the mechanism at least once every 12 months and while storage.

10.2 SUPPORTING SYSTEM MECHANISM

Grease all moveable surfaces on the trapezial screw and its counterpart by prescribed grease (see chapter 10).

! NOTICE

Imperfect maintenance and insufficient greasing can cause a serious accident.

ALWAYS grease more often in corrosive environment (salt water, oceanic climate, acids etc.) than in ordinary circumstances.

NEVER grease the trapezial screw-thread by oil and lubricant grease. Glued little dirt can cause mechanism crash.

11 MAINTENANCE

11.1 SECURITY PRINCIPLES

! WARNING

Only qualified persons (service organizations), trained in safety and maintenance of the supporting system, can carry out maintenance and professional inspections.

ALWAYS use entirely components supplied by the producer.

It is not permitted to carry out repairs and maintenance in other way than specified by the producer. It means namely the forbiddance of using unoriginal spare parts or carrying out of changes on the product without the approval of the producer.

ALWAYS test supporting system function after carrying out the maintenance.

ALWAYS mark disabled or repaired supporting system with appropriate inscription (i.e. „**OUT OF OPERATION**“).

NEVER carry out maintenance if there is the load on the supporting system.

NEVER work with the supporting system that is under repair!

11.2 GENERAL INSTRUCTIONS

Following instructions give general important information on disassembly, check up, repair and assembly. If the supporting system was dismantled from any reason act upon the instructions as follows.

1. Perform maintenance in clean environment.
2. **NEVER** disassemble the supporting system more than it is necessary to carrying out the needful repair.
3. **NEVER** use excessive power when dismantling parts.
4. **NEVER** use heat (fire) as the mean when dismantling parts, if the parts are destined for next use.
5. Keep the workplace clean and without foreign materials that could get into movable parts.
6. If you squeeze the part in vice, use always the appropriate pads for protection of parts surfaces.

11.3 CHECK UP

Check up, whether all disassembled parts are suitable for next use.

1. **ALWAYS** check up, whether no parts are worn out and have no chutes or fissures.
2. **ALWAYS** check up, whether threaded parts have not the damaged thread.

11.4 REPAIR

Outworn or damaged parts must be replaced.

Remove little burrs and scratches or other minor surface defects and flatten out with fine grinder or abrasive cloth.

12 PUTTING OUT OF OPERATION – LIQUIDATION

The supporting system does not contain any noxious agents; its parts are from steel. Hand over the supporting system after putting out of operation to the firm dealing with liquidation of waste metal.

13 RELATED DOCUMENTATION

EC declaration of conformity

The Operation Manual was elaborated in accordance with following technical regulations, technical standards and national regulations:

- Ministerial order No.176/2008 of the Collection of Law as amended (EP and Council directive 2006/42/EC)
- ČSN EN ISO 12100

14 FINAL REQUIREMENTS OF THE PRODUCER TO THE CUSTOMER

Any changes of the product, eventually usage of unoriginal spare parts can be realized only based on the approval of the producer.

When not observing this condition, the producer does not guarantee safety of his product. In this case, any producer's guarantees do not apply to the product.



EC Declaration of conformity



Manufacturer **BRANO a.s.**
747 41 Hradec nad Moravicí, Opavská 1000
The Czech Republic
ID No.: 45193363 TIN: CZ45193363

We declare under our sole responsibility that the product

Name:	Supporting system
Type:	Compound of the components stated in description
Parameters:	

Description and purpose of use:
 Container adjusting cube of type CM-CCR 150/x; container fixation cube of type CM-CCF 100/x; connection screw CM-VR 100/x; connection screw CM-VR 390/x (further as supporting system) is designed entirely for load supporting with the modification of corner part on the container ISO.
 The load weight when supporting does not have to exceed specified permitted load capacity.

Is in conformity with the following directives and standards:

MO CR No. 176/2008 of Coll.of Law, RE directive No. 2006/42/EC,
 ČSN EN ISO 12100(EN ISO 12100)

The following authorized body had a share in conformity assessment:

Hradec nad Moravicí	03.04.2018	Ing. Jiří Dostál	Ing. Stanislav Omasta
..... Place Date Direktor of SBU ZZ Manager of Q SBU ZZ