The new original

USER MANUAL –MODEL M TOWER -

PART 2 – SPECIFIC REQUIREMENTS

NB! PART 2 is inseparable connected with „User manual – Truss and Associated Components - PART 1 – general requirements.

Version 5 , January 2022, **Art Number: xxxxxxx**

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CONTENT

1.SAFETY INSTRUCTIONS

Before using SIXTY82 Model M tower, read this manual carefully and pay attention to the information provided. Use this manual to familiarise yourself with the products, its proper use and safety regulations.

Explanation of symbols:

DANGER: Indicates a hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

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

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

NOTICE: address practices not related to personal injury.

SAFETY NSTRUCTIONS: is used for a lists of steps, procedures or instructions that might otherwise substitute a DANGER, WARNING or CAUTION notification.

THIS MANUAL SHALL BE INSEPARABLY USED IN CONJUNCTION WITH "USER MANUAL – TRUSS AND ASSOCIATED COMPONENTS – PART 1 – GENERAL REQUIREMENTS" AND VICE VERSA. THE PART 2 MANUALS CONTAINS PRODUCT SPECIFIC REQUIREMENTS REGARDING LEGISLATION, SET-UP, DISMANTLING, ALLOWABLE LOADING AND ANY OTHER INFORMATION NOT REFERRED TO IN PART 1. PART 2 IS ALWAYS SUPERSEDING PART 1.

MAKES SURE MANUALS ARE AVAILABLE AT ALL TIMES FOR ALL USERS AND EMPLOYEES

DO SOLELY USE GENUINE SIXTY82 COMPONENTS

DO NOT INCREASE ANY DIMENSIONS OF THE ASSEMBLED STRUCTURE

IF ANY DEFAULTS ARE FOUND, MARK THE COMPONENT CLEARLY AND TAKE OUT OF SERVICE

IN CASE OF DOUBT, CONTACT A COMPETENT PERSON OR THE MANUFACTURER

THE STRUCTURE CAN BE USED OUTSIDE BUT ITS STRUCTURAL INTEGRITY SHALL BE CHEKCED BY A CHARTERED ENGINEER ON A CASE-BY-CASE BASIS

THE STRUCTURE SHALL BE SAFEGUARDED FROM PUBLIC OR COLLISION FROM VEHICLES

THE TOWER MAST SEGMENTS CAN BE BUILD IN ANY REQUIRED CONFIGURATION . HOWEVER A USER SHALL ALWAYS START WITH A 50CM TRUSS PIECE AT THE BASE FOLLEWED BY A HINGE SET IN ORDER TO MAKE SURE THE OUTRIGGER STABILISERS FIT.

THE MODEL M TOWER IS NOT DESIGNED TO LIFT PEOPLE

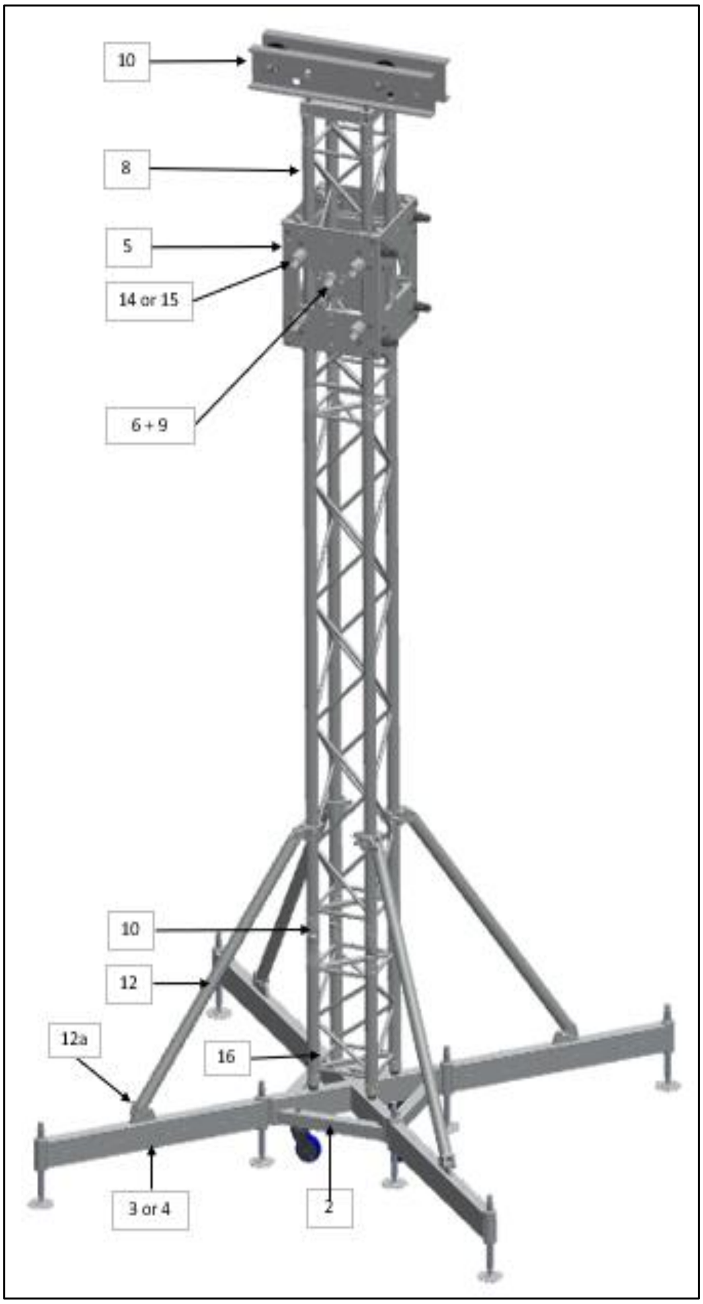
2. SCOPE

The intended use of the Sixty82 MODEL M TOWER is a to create a supporting leg within a ground supported structure with multiple towers or as a single, stand-alon tower. The tower is designed to be used in temporary installations. The tower can be used both indoor and outdoor as a load bearing structural component. The structural integrity must be checked on a case-by-case basis by a chartered engineer.

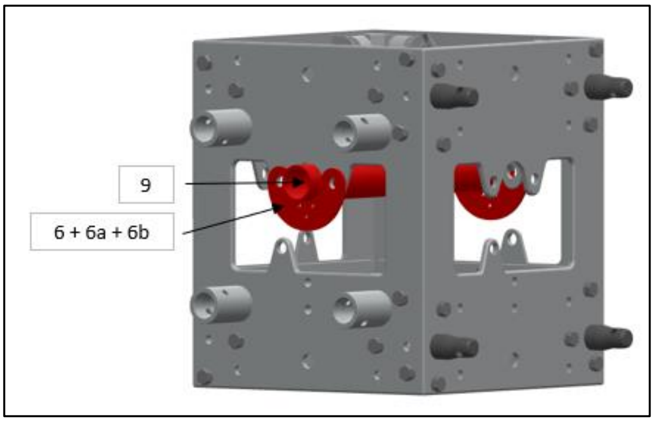
Any other use is considered mis-use and the sole responsibility of the user unless approved by Sixty82

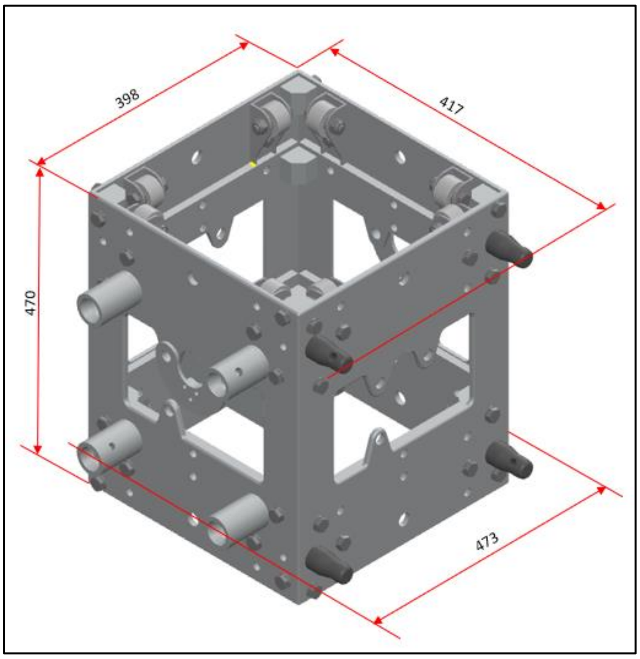
3. IDENTIFICATION and DIMENSIONS

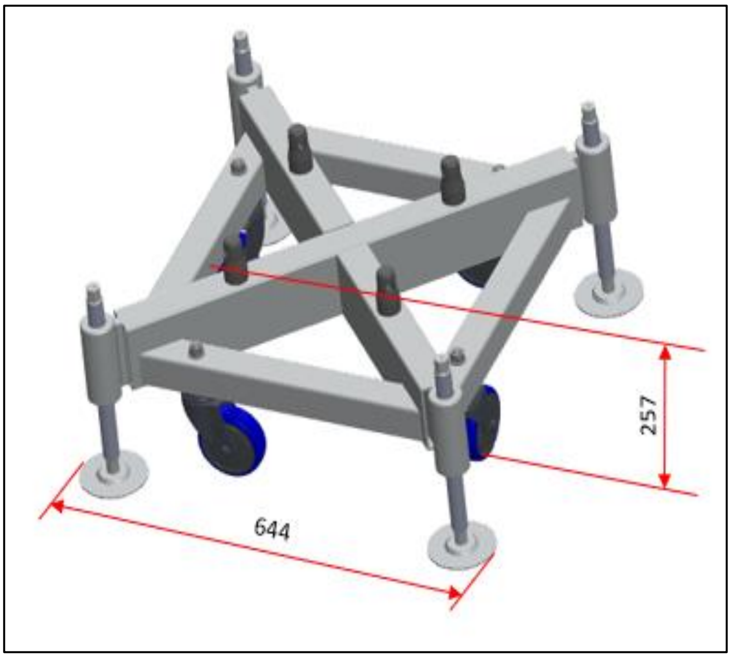
All products are labelled with a Identification tag which contains a unique number

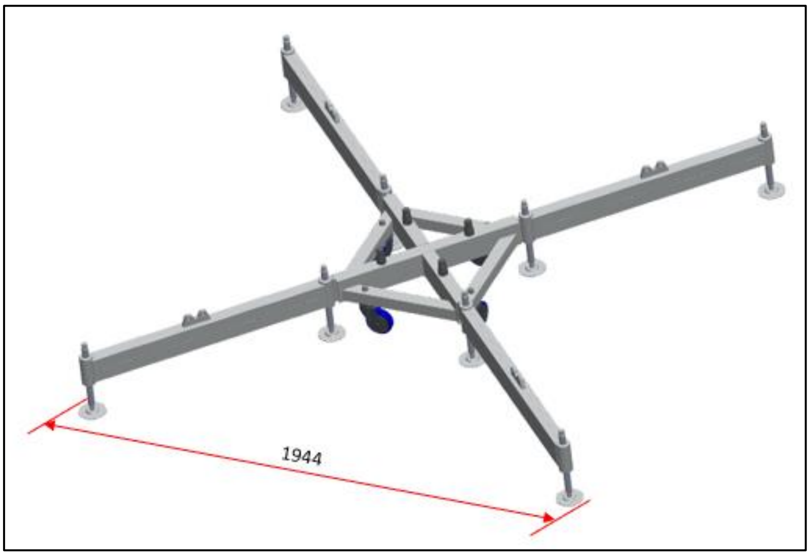


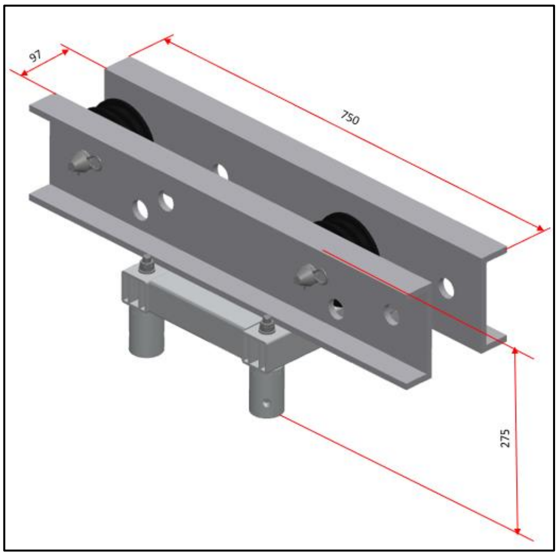
MODEL M TOWER PART LIST			
Item	Description	Art. code	weight in kg
1	Modular Hinge Set	202041	2,15
2	Tower model M04 base alu	231001	12,90
3	Tower model M11 outrigger short	231002	3,10
4	Tower model M12 outrigger long	231003	10,10
5	Tower model M10 sleeve block 470x398	232001	25,20
6	Tower model M10 horse shoe	232006	0,31
6a	M16x040 DIN931	818012	0,09
6b	Nut self-locking M16 DIN985	818003	0,01
7	Tower model M11 sleeve block M39	232007	20,84
8	M29S-Safe-L100 tower section with safety	232010	7,80
9	M29S-Safe Pin	232011	4,00
10	Tower model M09 head section	233001	12,50
11	Motor bracket TOW model M	234003	6,47
11a	Bolt M12x100 DIN931	817018	0,09
11b	Washer M12 flat DIN125-1A	817010	0,01
11c	Spring washer M12 DIN127B	817005	0,01
11d	Nut self locking M12 DIN985	817002	0,01
12	Tube 48,3x3 Stabiliser TOW model M	234005	2,11
12a	Locking pin 10mm With clip	202025	0,06
13	Motor bracket Tow base model M	234019	3,90
14	Connector model M02 19mm offset M12	202002	0,12
15	Connector model M52S 0mm offset M12 lock pir	202008	0,14
16	M29S-L050 50cm square truss	128004	3,80
17	safe wheel model L	234015	0,19
18	slide bearing 30x34x25 PTFE	850008	0,01
19	Pin LP30-121	203023	0,76
20	R-spring model L05	203005	0,01
21	sling system 1-way WL 4M-2,5T	243020	6,80
22	Erecting system TOW model M truss M29	234020	55,50
23	Hinge pin M-LP16-44-51	202020	0,16











4. LIMITATION OF USE

NOT RESPECTING THE ADVICES BELOW CAN RESULT IN FAILURE OF COMPONENTS OR A COMPLETE STRUCTURE.

In general it is adviced not to built the tower mast with truss elementes execeeding 7.00m.

The load bearing capacity of a 7.00 m high tower can sit between 800 & 6000kg depending on the on the following design parameters.

- Length of the tower
- Type of truss used
- Cross section of the tower truss module
- Method of restraining at the top and bottom
- Configuration within the structure
- Use of guy-wires or any other stabilisation method

As the above parameters all work together, the structural strength can only be determind by a chartered engineer based on a case-by-case assessment. The user must therefore require a structural report for every type of set up in every type of environment e.g. indoor or outdoor use .

Loads shall be vertical only. If side or lateral loadings are expected a chartered engineer shall be consulted to check the structural integrity

5. TRANSPORT AND STORAGE See Part 1 as well

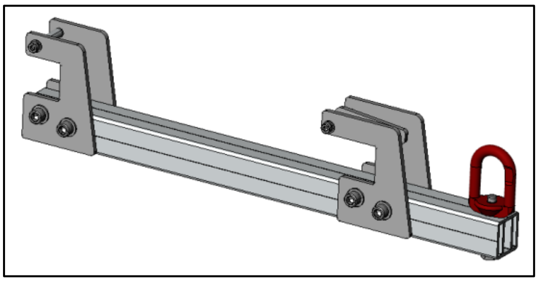
It is recommended to leave the 50cm truss permanently on the base. This way the hinge set can stay mounted, the sleeve block can stay on the base, short outriggers can be put inside the sleeve and the head section can be mounted on the hinges

6. APPROVED ACCESSORIES See Part 1 as well

For attaching a (electric) chain hoist to the tower as a means of lifting, the following 2 options are available;

Option 1 : Motor bracket for base. Max WLL 1000kg.

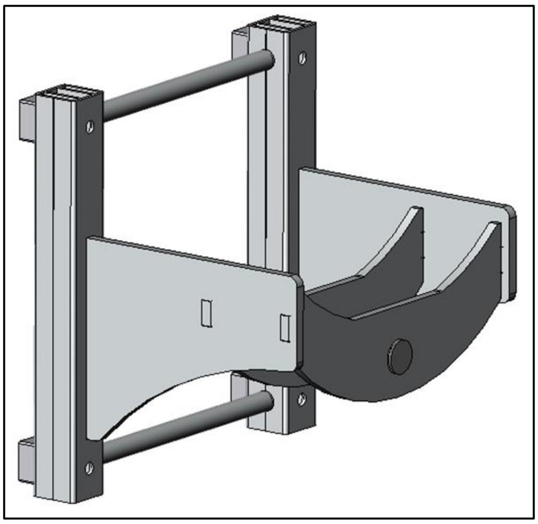
The lifting bar shall be mounted centred on the base. no tools are required due to its "click-on" principle



Item	Description	Art. code	weight in kg
13	Motor bracket Tow base model M	234019	3,90

Option 2 : Motor bracket for Sleeve Max WLL 1000kg.

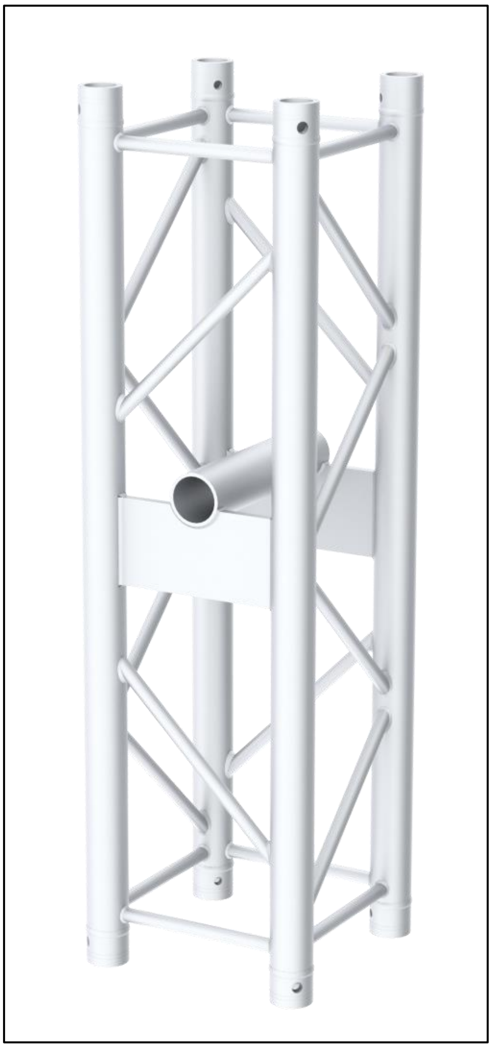
The motor bracket shall be mounted by means of 4x M12 bolt to the holes used to connect M39S truss on the sleeve



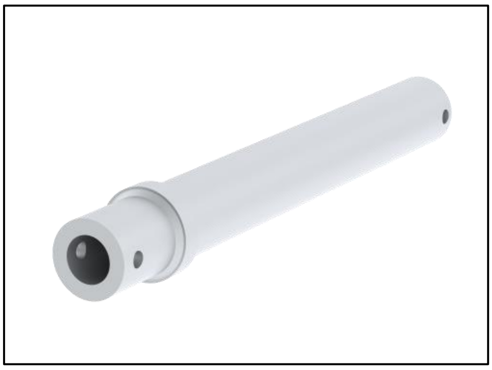
Item	Description	Art. code	weight in kg
11	Motor bracket TOW model M	234003	6,47
11a	Bolt M12x100 DIN931	817018	0,09
11b	Washer M12 flat DIN125-1A	817010	0,00
11c	Spring washer M12 DIN127B	817005	0,00
11d	Nut self locking M12 DIN985	817002	0,00

TO ATTACH THE LIFTING HOOK TO THE SLEEVE USE A SHACKLE 3,2 TON WITH SAFETY NUT AND CLIP

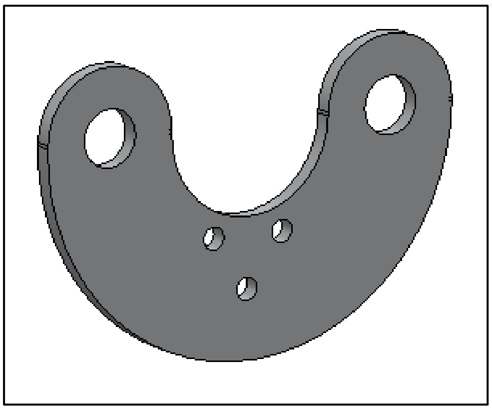
Item	Description	Art. code	weight in kg
17	Shackle-D nut 3,25t	243005	0,67



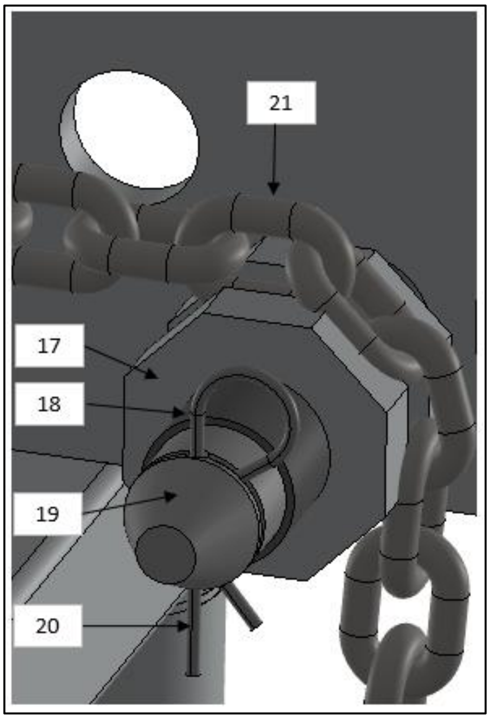
Item	Description	Art. code	weight in kg
8	M29S-Safe-L100 tower section with safety	232010	7,80



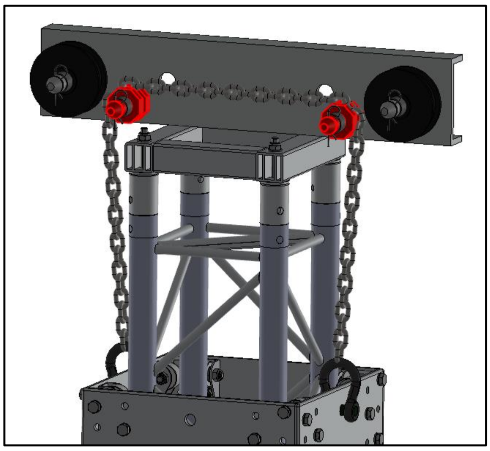
Item	Description	Art. code	weight in kg
9	M29S-Safe Pin	232011	4,00

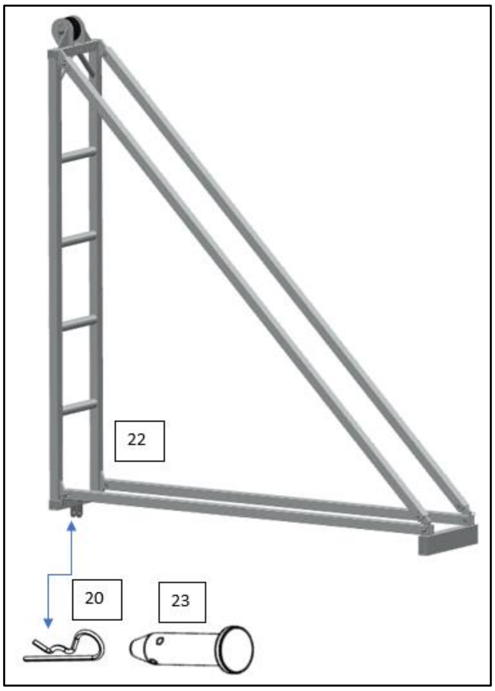


Item	Description	Art. code	weight in kg
6	Tower model M10 horse shoe	232006	0,31
6a	M16x040 DIN931	818012	0,09
6b	Nut self-locking M16 DIN985	818003	0,01



Item	Description	Art. code	weight in kg
17	safe wheel model L	234015	0,19
18	slide bearing 30x34x25 PTFE	850008	0,01
19	Pin LP30-121	203023	0,76
20	R-spring model L05	203005	0,01
21	sling system 1-way WL 4M-2,5T	243020	6,80





Item	Description	Art. code	weight in kg
20	R-spring model L05	203005	0,01
21	Erecting system TOW model M truss M29	234020	55,50
22	Hinge pin M-LP16-44-51	202020	0,16

7. COATINGS AND SURFACE TREATMENTS See Part 1

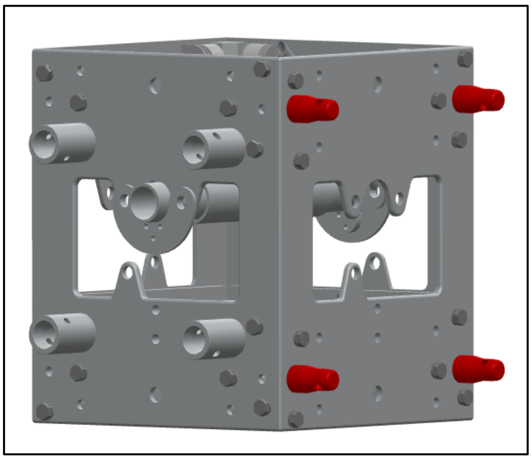
8. SLINGING METHODS See Part 1

9. ASSEMBLY & DISASSEMBLY INSTRUCTIONS

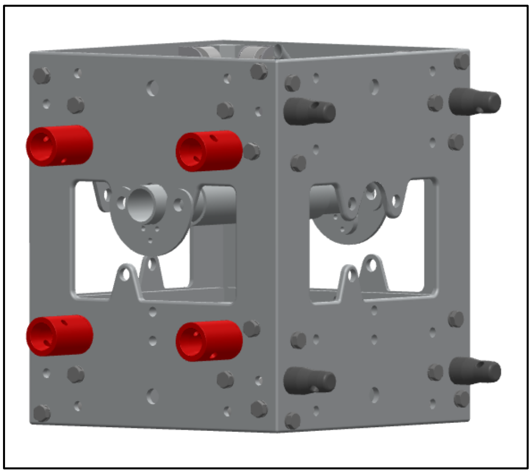
STEP 1: MOUNT THE TYPE OF CONNECTORS YOU WANT TO USE ON THE SLEEVE TO THE CORRECPONDING HOLES. USE A WRENCH TO TIGHTEN THE BOLTS. USE ONLY BOLT LENGTHS AS PER TABLES BELOW

MAKE SURE THAT THE BOLT QUALITY IS 8.8 MINIMUM

USE TORQUE MOMENTS M12 = 15Nm / M16 = 25Nm (equivalent to hand-tight) WHEN BOLTING INTO ALUMINIUM



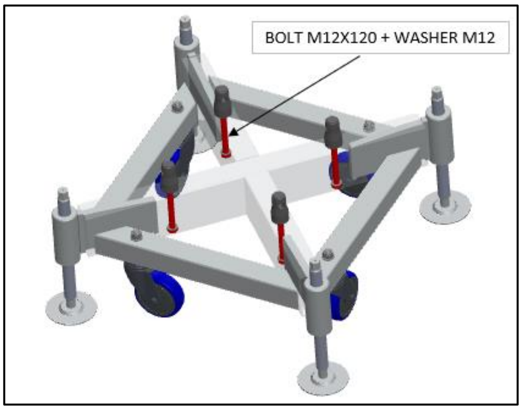
With M02 Connector (Art.Nr. 202002)						
Bolt	art. code	M29T / TX	M29S	M39T	M39S	M39R
Bolt M12x040 DIN931	817026	3	4	n/a	n/a	n/a
Bolt M12x035 DIN933	817006	n/a	n/a	3	4	4
Spring washer M12 DIN127B	817005	3	4	3	4	4



With M51 Receiver (Art.Nr. 202009)						
Bolt	art. code	M29T / TX	M29S	M39T	M39S	M39R
Bolt M12x055 DIN931	817028	3	n/a	3	n/a	n/a
Bolt M12x040 DIN931	817026	n/a	4	n/a	4	4
Washer M12 flat DIN125-1A	817010	3	4	3	4	4
Spring washer M12 DIN127B	817005	3	4	3	4	4
Nut self locking M12 DIN985	817002	3	4	3	4	4

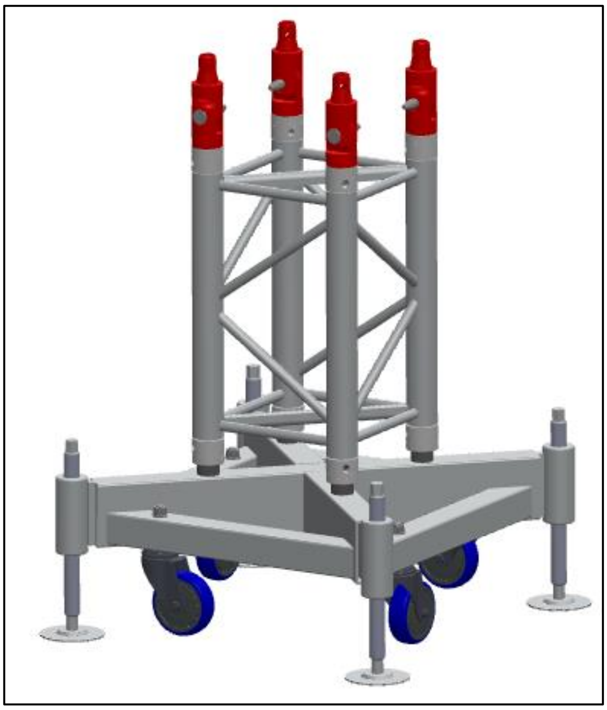
STEP 2: BOLT THE M02 CONNECTORS TO THE BASE. USE THE 50CM M29S TRUSS TO POSSITION THE CONNICAL HOLE CORRECTLY

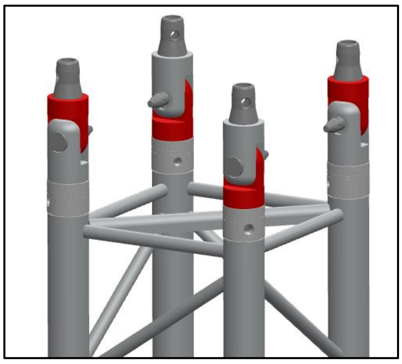
NOT USING M02 CONNECTORS MAY CAUSE FITTING PROBLEMS WITH THE STABILISER TUBES FOR THE LONG OUTRIGGERS

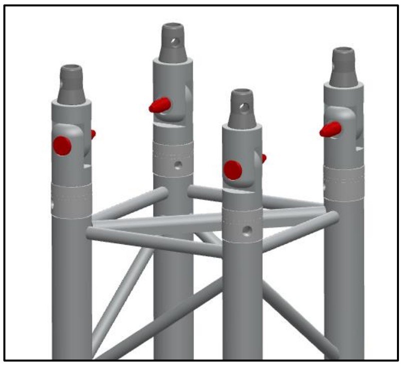


STEP 3: ATTACH THE HINGES TO THE 50cm M29S TOWER TRUSS

MAKE SURE THE HINGE PINS POINT INWARDS



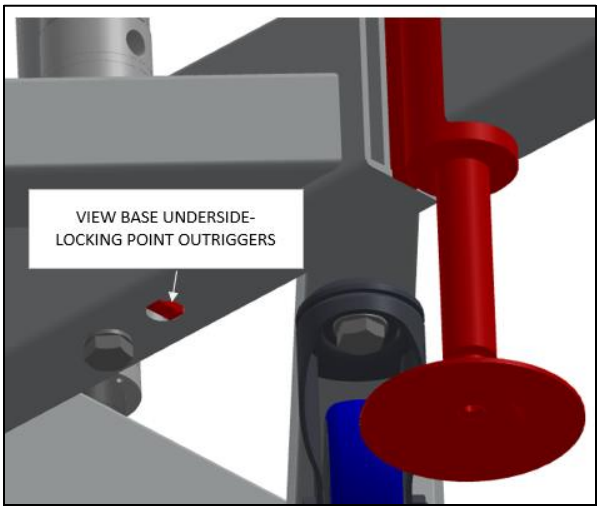




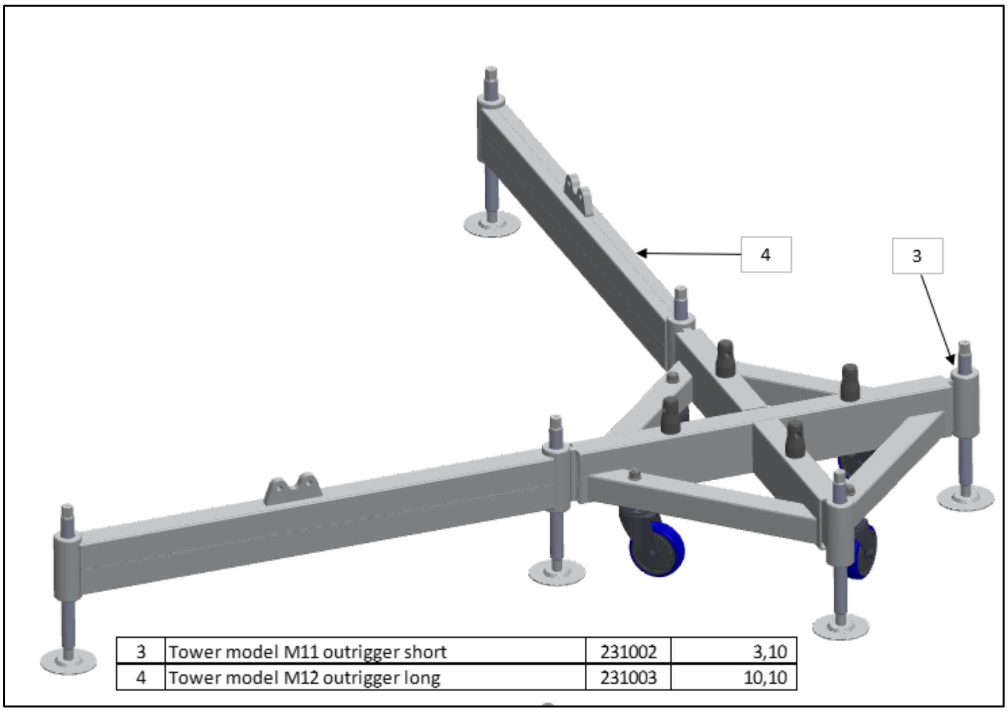
STEP 4: PLACE THE BASE AT THE REQUIRED POSITION.

IN CASE OF A STRUCTURE CONTAINING MULTIPLE TOWERS THE USER HAS TO DETERMINE THE SEQUENCE OF ASSEMBLY UP-FRONT CONSIDERING THE WAY TRUSSES GO TOGETHER

STEP 5: PUT ALL FOUR OUTRIGGERS IN PLACE BY SLIDING THEM IN TO THE BASE EXTRUSION. DUE TO THEIR DESIGN THEY LOCK IN PLACE AUTOMATICALLY WHEN THE SCREW JACKS ARE TIGHTEND

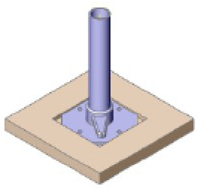


IT IS ADVISED TO USE LONG OUTRIGGERS AT ALL TIMES DUE TO INCREASED STABILITY



3	Tower model M11 outrigger short	231002	3,10
4	Tower model M12 outrigger long	231003	10,10

STEP 6: PUT WOODPADS OF 300x300x18MM UNDERNEATH EACH SCREW JACK TO SPREAD THE LOAD AND TO INCREASE LATERAL FRICTION



WOOD PAD 300x300x18 WITH EMBEDDED FEET

WHEN BUILD ON STONE, CONCRETE OR ASPHALT USE UNFINNISHED PLY WOOD 300X300X18MM MINIUMUM

WHEN BUILD ON GRAS, SAND, CLAY, GRAVEL USE WOOD PADS BE MADE OF UNFINNISHED PLY WOOD, CLASS F40/30.

NOT USING CORRECT WOOD PADS DECREASES FRICTION AND STABILITY

STEP 7: DETERMINE THE HIGHEST POINT OF THE PLACE WHERE THE TOWERS ARE POSSITIONED

STEP 8: ADJUST THE SCREW JACKS OF THE HIGHEST PLACED TOWER FIRST.

STEP 9: LEVEL THE BASE WITH A LEVELER BY TURNING THE SCREW JACKS UNTIL THEY TOUCH THE FLOOR

THE BASE CAN STAY ON ITS WHEELS AS LONG AS THE SCREW JACKS TOUCH THE FLOOR

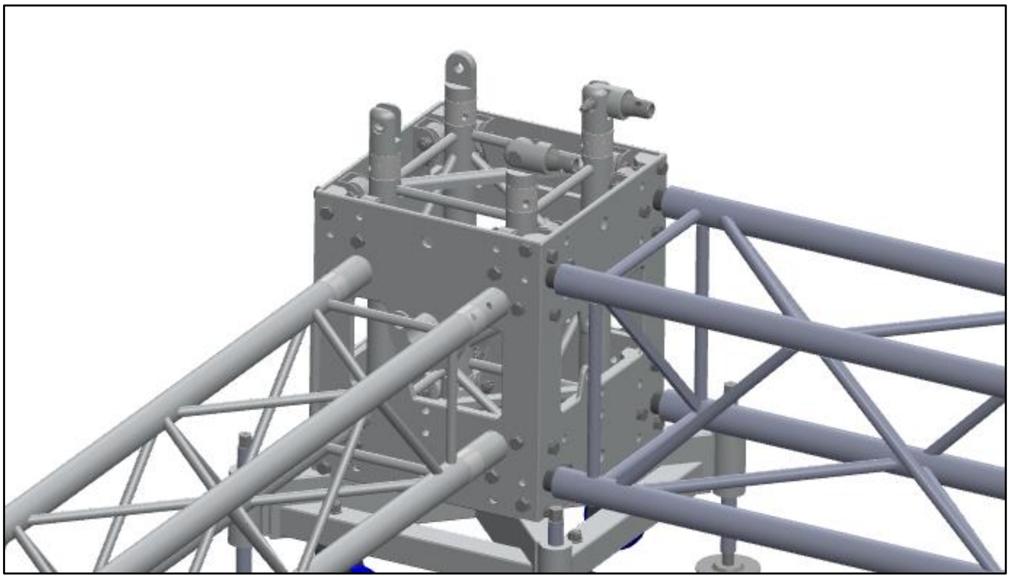
STEP 10: ADJUST THE SCREW JACKS OF THE LONG OUTRIGGERS UNTIL THERE IS NO "PLAY" ANYMORE

STEP 11: MAKE SURE ALL BASES ARE ON THE SAME HEIGHT . IF THE ADJUSTMENT LENGTH OF THE SCREW JACKS IS TO SHORT, USE WOODPADS TO UNDERFILL THEM.

STACKED WOODPADS MUST BE SCREWED TOGETHER

STEP 12: CONNECT THE TRUSSES TO SLEEVE BLOCK

NOT LEVELING THE BASES AND NOT HAVING THEM ON THE SAME HEIGHT WILL CAUSE DIFFICULTIES FOR ASSEMBLY



STEP 13:

OPTION 1 : DETERMINE THE LENGTH OF THE TOWER TRUSS. DETERMINE THE POSITION OF THE "SAFE SYSTEM'

OPTION 2 : IN CASE A SAFETY CHAIN IS USED. MOUNT THE PULLEY WHEELS AND THE SAFETY CHAIN AS CAN BE SEEN IN CHAPTER 6 "APPROVED ACCESSORIES".

CHECK OVERHEAD IF FREE OF OBSTRUCTIONS WHEN DETERMING THE TOWER LENGTH AND THE DIRECTION OF ERECTION

IN CASE OF OUTDOOR USE, MAKE SURE NO POWER LINES ARE IN THE VICINTY OF THE TOWERS

STEP 14: MAKE SURE ALL SCREW JACKS ARE TOUCHING THE GROUND .

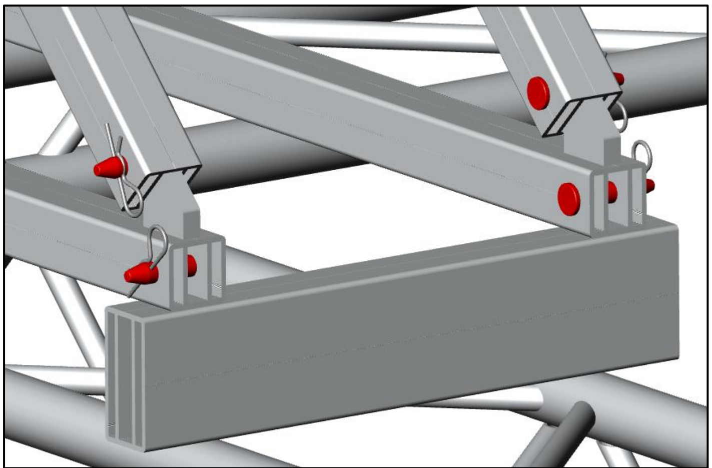
STEP 15:

OPTION 1 : ERECTING THE TOWER BY PUSHING IT VERTICAL MANUALY. MOVE ON WITH STEP 26

OPTION 2 : ERECTING THE TOWER BY MEANS OF THE "ERECTING SYSTEM". (SEE "APPROVED ACCESSORIES" ITEM 22)

STEP 16: ASSEMBLE THE ERECTING FRAME.

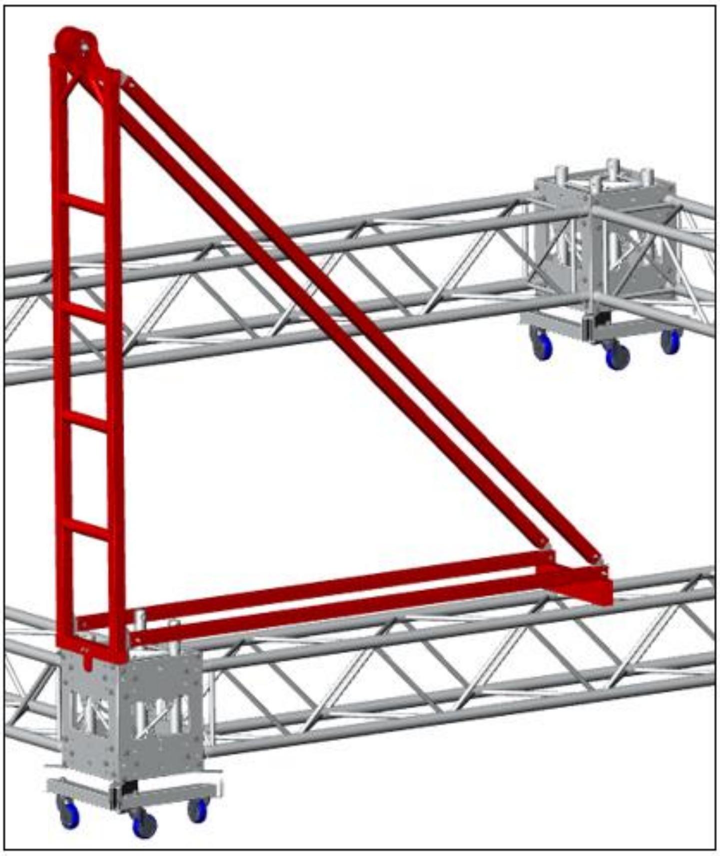
MAKE SURE THE 16MM LOCKING PINS ARE PLACES INSIDE OUT. OTHERWISE THE MIGHT OBSTRUCT THE TRUSS

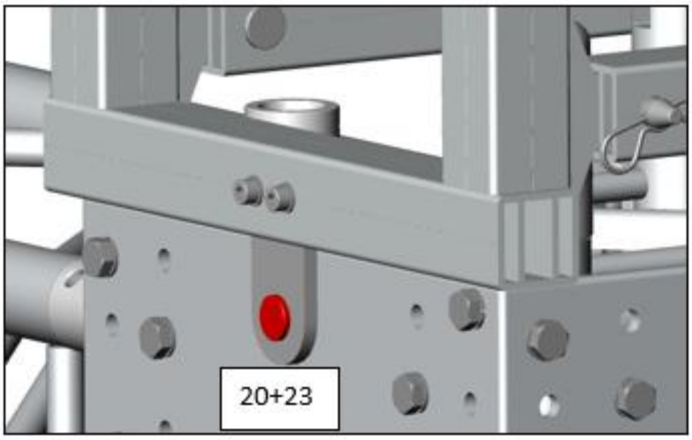


STEP 17: PLACE THE ERECTING SYSTEM ON TOP OF THE TRUSS GRID.

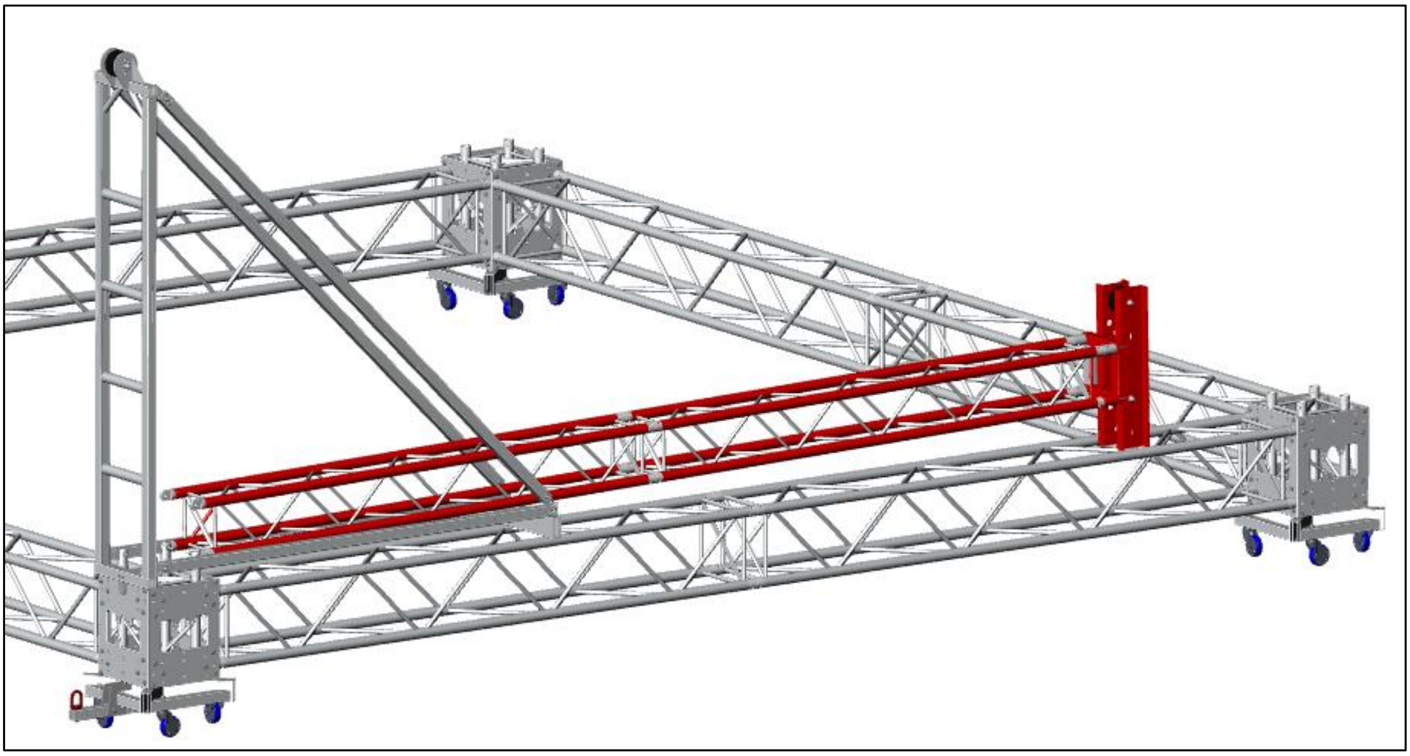
CHOOSE THE ORDER OF ERECTING CAREFULLY DEPENDING ON THE SPACE AVAILABLE AS WELL AS TRUSS GRID DIMENSIONS VERUS TOWER LENGTH.

MAKE SURE THE ERECTING SYSTEM IS LOCKED BY MEANS OF ITEM 20 AND 23 (SEE "APPROVED ACCESSORIES" ITEM 20 & 23)



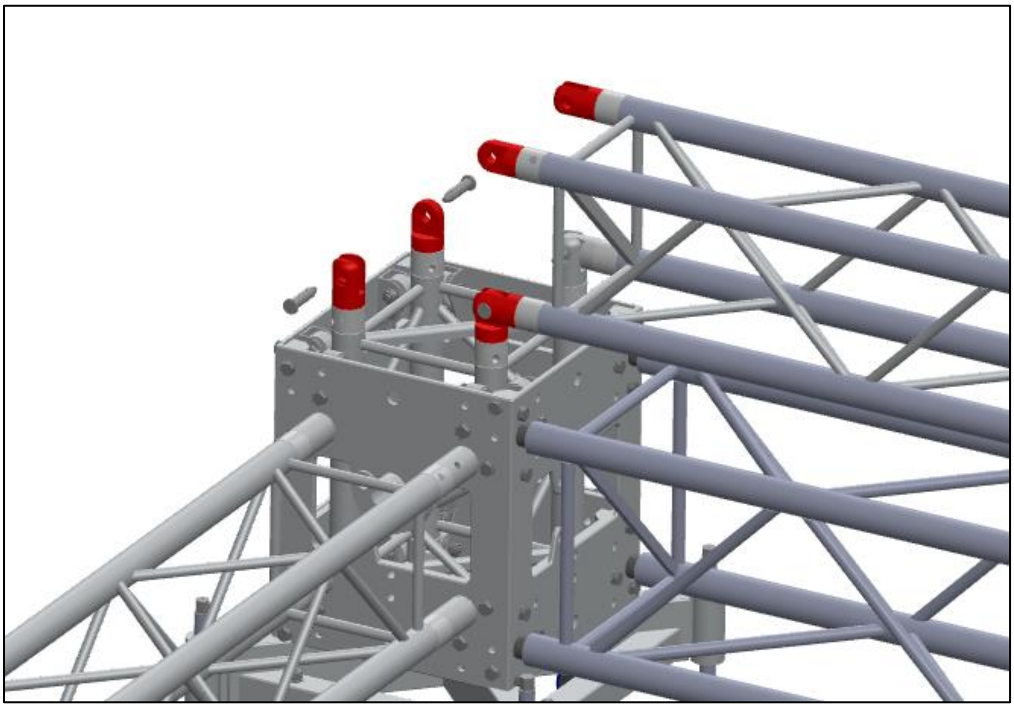


STEP 18: CONNECT THE HEAD SECTION TO THE TOWER TRUSS AND PLACE ON TOP OF THE HORIZONTAL TRUSS SPAN



STEP 19: CONNECT THE TOWER TRUSS TO THE HINGE PART (SEE BELOW)

CONNECT THE HINGES AS SHOWN. THIS AVOIDS JAMMING OF FINGERS AS NO ALIGNMENT IS REQUIRED. THE 16MM LOCKING PINS MUST BE PUT IN PLACE IMMEDIATELY AFTER THE TOWER IS ERECTED

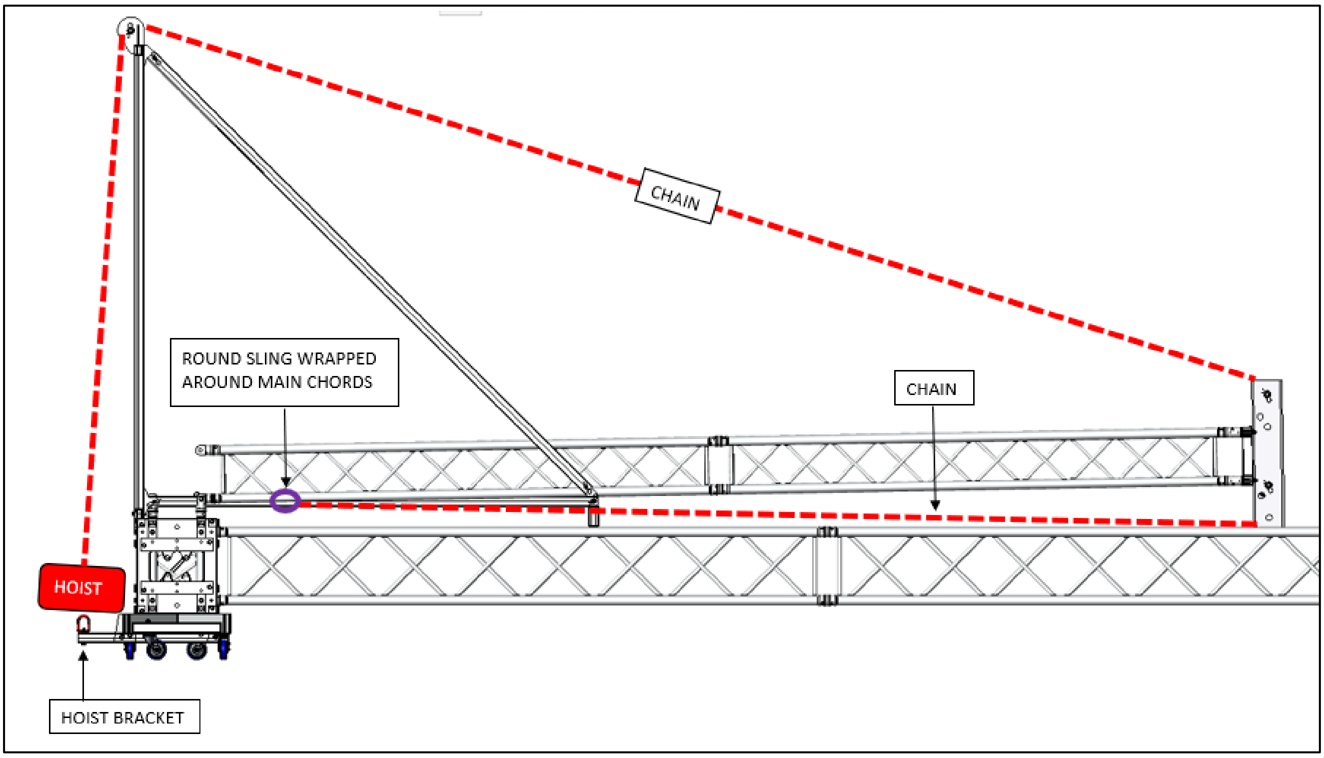


STEP 20: CONNECT THE CHAIN HOIST . USE MAXIMUM A 4M/MIN SPEED HOIST !

a. **CONNECT THE HOIST TO THE HOIST BRACKET ON THE TOWER BASE.**
b. **FEED THE CHAIN OVER THE ERECTING FRAME, OVER THE TOWER HEAD SECTION AND BACK TO THE END OF THE TOWER TRUSS.**

AVOID TWISTS IN THE CHAIN

c. **CONNECT THE LIFTING CHAIN BY MEANS OF A ROUNDSLING TO THE MAIN CHORDS OF THE TOWER TRUSS**



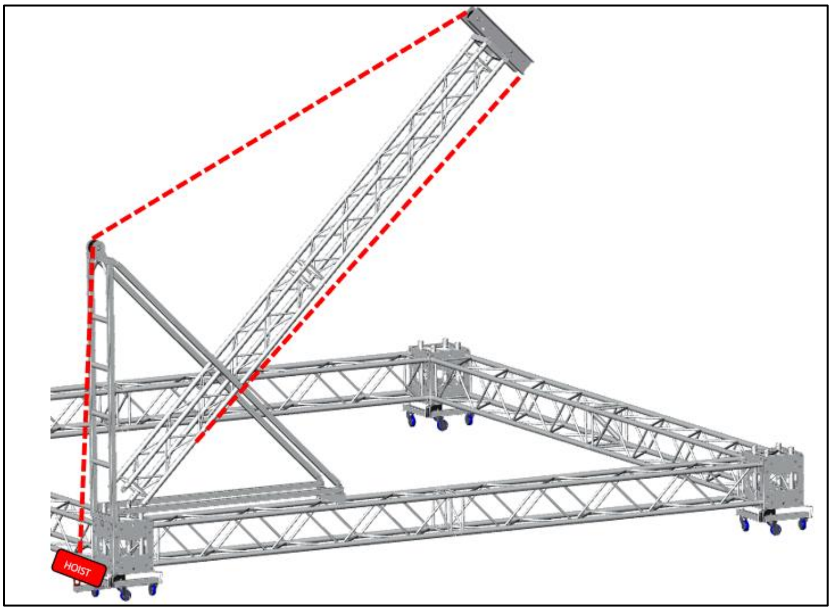
STEP 21: PUT THE HOIST CHAIN UNDER TENSION . CHECK IF NOTHING IS OBSTRUCTING THE LIFTING SEQUENCE

✋ *MAKE SURE THE LIFTING DEVICE IS CONNECTED TO THE MOTOR BRACKET / SLEEVE BLOCK*

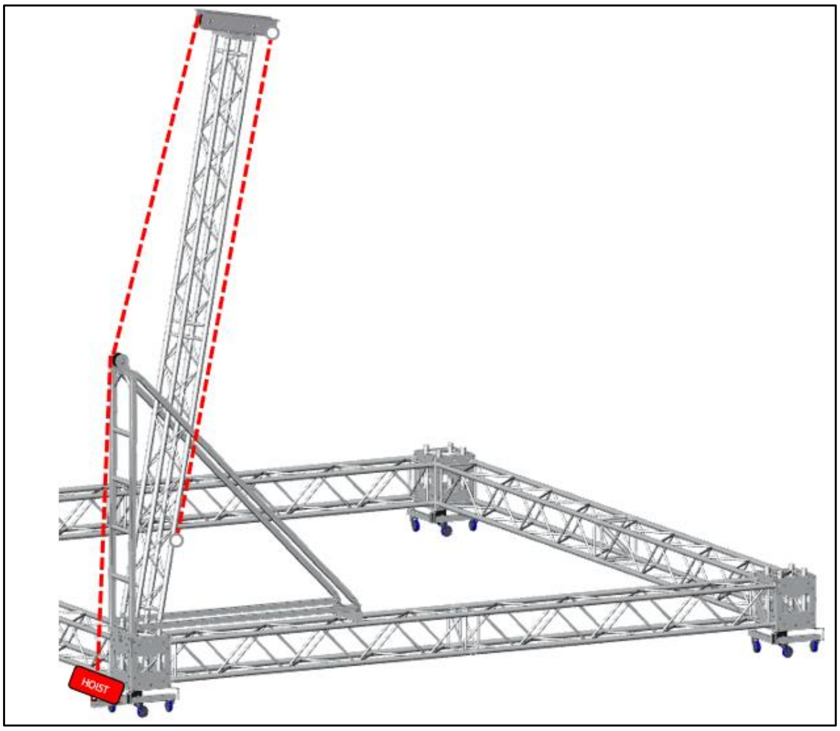
✋ *CHECK BEFORE LIFTING F THERE ARE NO OVERHEAD OBSTRUCTIONS, LIKE POWER LINES, AIR CONDUCTS, PIPING, CONSTRUCTIONS ETC…*

✋ *DO NOT BUMP THE HOIST BY PRESSING THE RUN BUTTON ON AND OFF. THIS CAUSES SEVERE DYNAMIC LOAD AND MIGHT DAMAGE THE SYSTEM*

STEP 22: LIFT THE TOWER TILL 45dgr AND CHECK IF NOTHING IS OBSTRUCTED

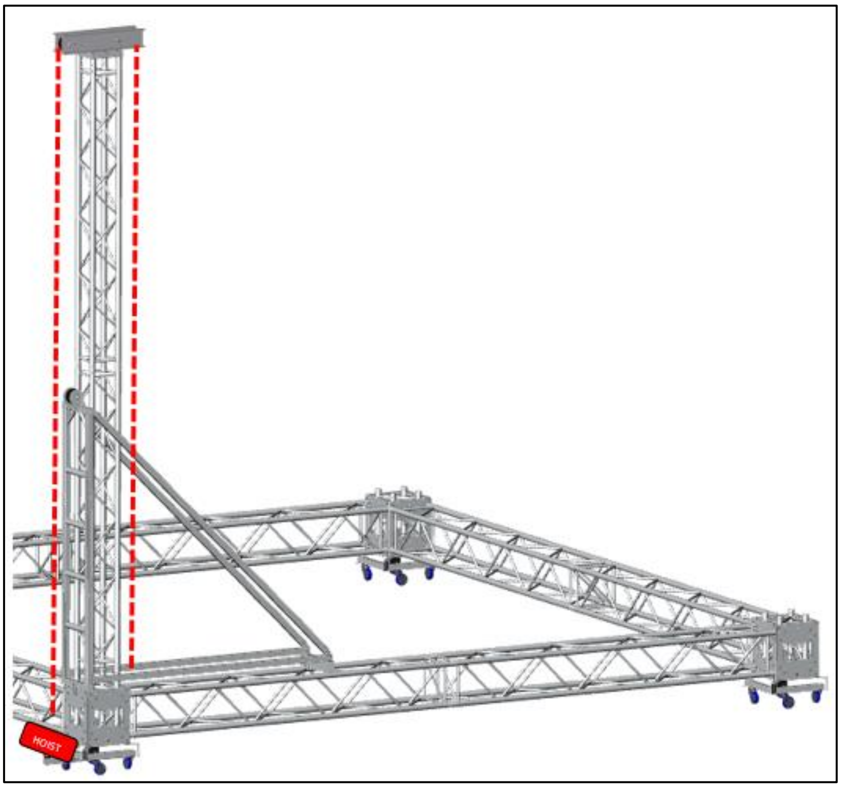


STEP 23: LIFT THE TOWER TILL +/- 80dgr.



STEP 24: PUSH THE TOWER MANUALY TILL ITS 90dgr POSSITION AND CONNECT THE HINGE PINS (ITEM 20 +23)

CHECK IF THE TOWER IS PERFECTLY VERTICAL. ADJUST SCREW JACKS TO ACHIEVE THIS

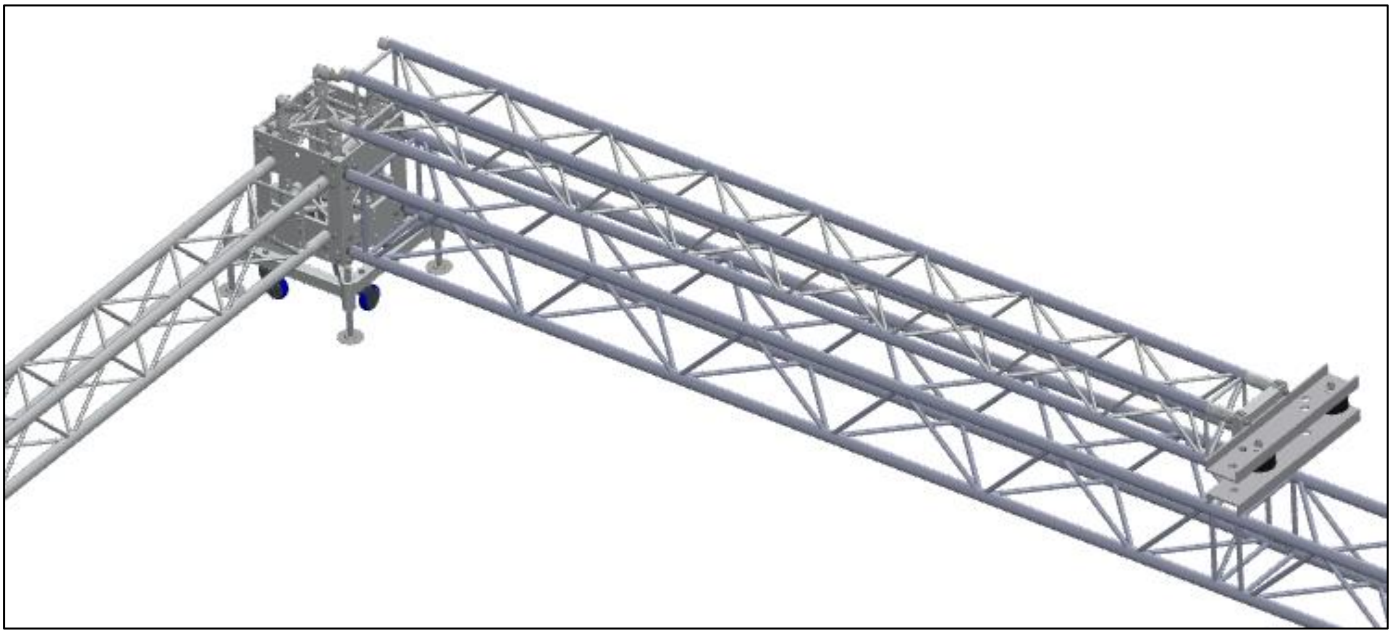


STEP 24: CONNECT THE LIFTING HOOK TO THE SLEEVE BLOCK OR GRID TRUSS

STEP 24: REMOVE THE ERECTING FRAME AND PROCEED WITH THE OTHER TOWERS.

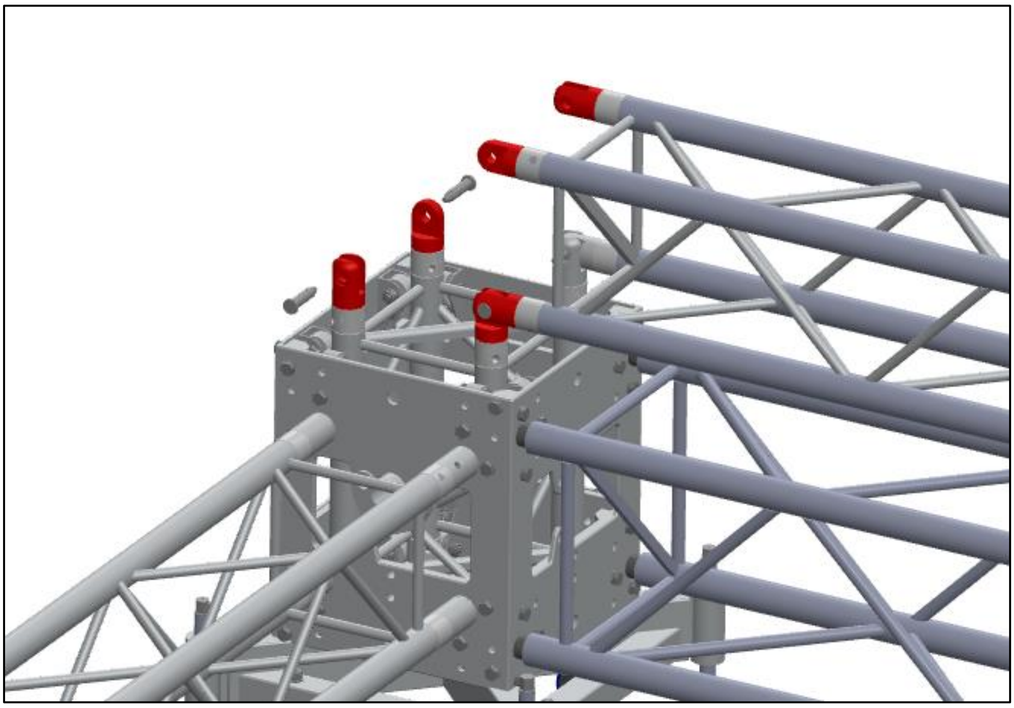
STEP 25: ONCE FINNISHED, MOVE ON WITH STEP 32 .

STEP 26: CONNECT THE HEAD SECTION TO THE TOWER TRUSS AND PLACE ON TOP OF THE HORIZONTAL TRUSS SPAN



STEP 27: CONNECT THE TOWER TRUSS TO THE HINGE PART (SEE BELOW)

CONNECT THE HINGES AS SHOWN. THIS AVOIDS JAMMING OF FINGERS AS NO ALIGNMENT IS REQUIRED. THE 16MM LOCKING PINS MUST BE PUT IN PLACE IMMEDIATELY AFTER THE TOWER IS ERECTED



STEP 28: MAKE SURE ALL SCREW JACKS ARE TOUCHING THE GROUND .

STEP 29: MOUNT THE MOTOR BRACKET ON THE SLEEVE OF BASE IF REQUIRED

STEP 30: FEED THE LIFTING CHAIN OVER THE HEAD BLOCK

MAKE SURE THE LIFTING HOOK OF THE LIFTING DEVICE IS SECURED WITH A ROPE HOLD BY A 2ND PERSON AT GROUND LEVEL. THIS TO PREVENT UN-WANTED RELEASE OF THE CHAIN ONCE INSTALLED.

MAKE SURE THE LIFTING DEVICE IS CONNECTED TO THE MOTOR BRACKET / SLEEVE BLOCK

AVOID TWIST IN THE CHAIN OF THE LIFTING DEVICE

STEP 31: PUSH THE TOWER VERTICAL

MAKE SURE THE CHAIN OF THE LIFTING DEVICE CANNOT FALL OF

MAKE SURE ENOUGH PEOPLE (MIN. 4) ARE USED. HAVE ONE PERSON WATCHING THE HINGE PART. ONCE THE TOWER IS VERTICAL PUT THE PINS IN PLACE

CHECK IF THE TOWER IS PERFECTLY VERTICAL. ADJUST SCREW JACKS TO ACHIEVE THIS

STEP 32: REPEAT THE SEQUENCE OF STEPS 26, 27, 28, 30 AND 31 FOR EACH TOWER

MAKE SURE ALL SCREW JACKS ARE TOUCHING THE GROUND

MAKE SURE IF ALL CONNECTIONS ARE CORRECTLY IN PLACE

STEP 33: PUT THE LIFTING DEVICE UNDER TENSION IN SUCH A WAY THAT THE SLEEVE BLOCK IS FREE FROM ITS BASE

MAKE SURE IF THE TOWERS ARE PERFECTLY VERTICAL. ADJUST SCREW JACKS WHEN NEEDED

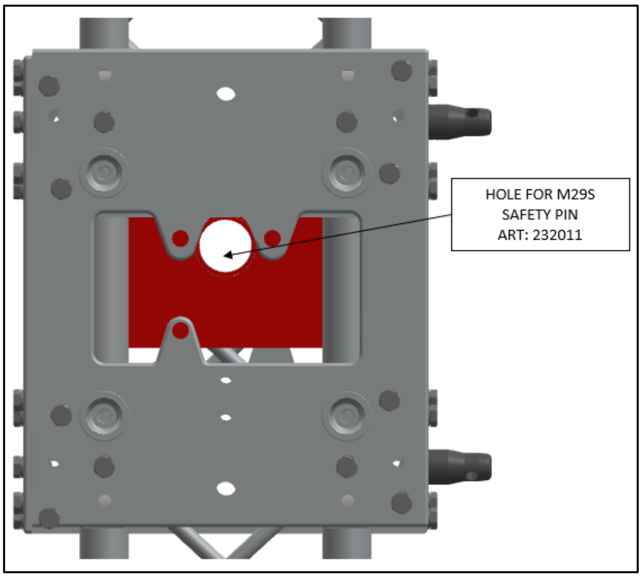
STEP 34: LIFT THE GRID TO WORKING HEIGH, DEAD HANG IT AND ATTACH ALL LOADS

MAKE SURE A CHARTERED ENGINEER HAS CHECKED THE OVERALL STABILITY ALSO CONSIDER WIND LOADS FOR THE OVERAL STRUCRTURAL INTEGRITY

For dead hanging the sleeve block and the truss grid 2 options are available

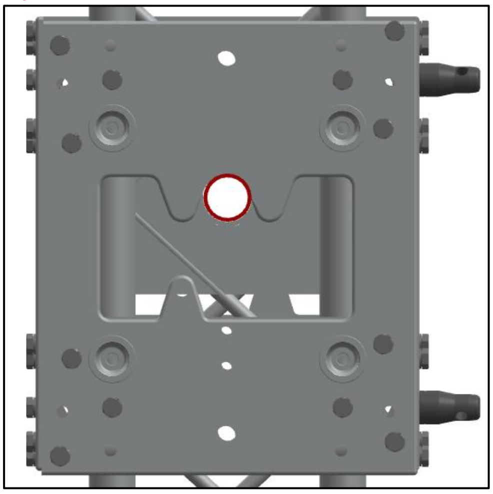
Option 1 = safety pinion
Option 2 = safety chain

Option 1 STEP 35: LIFT THE STUCTURE JUST ABOVE TRIM HEIGHT IN SUCH A WAY THAT THE HOLE OF THE "SAFE SYSTEM" CAN BE SEEN THROUGH THE SLEEVE.

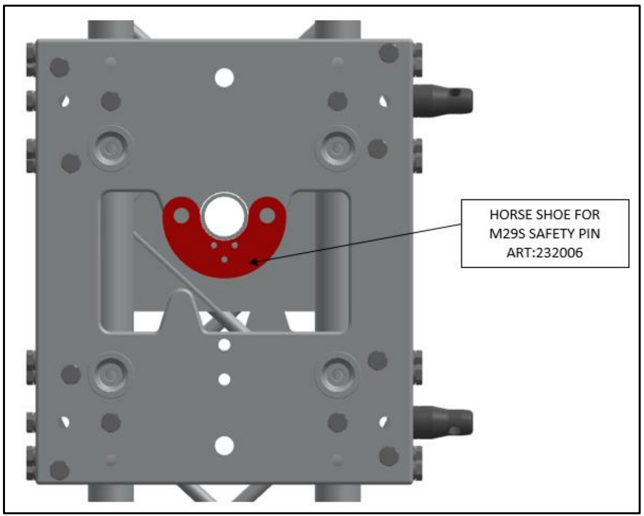


Option 1 : STEP 36: PUT ALL SAFETY PINS IN PLACE. SLIDE THE PIN IN TILL ITS END STOP

Option 1 : STEP 37: LOWER THE STRUCTURE UNTIL IT IS RESTING ON THE SAFETY PIN



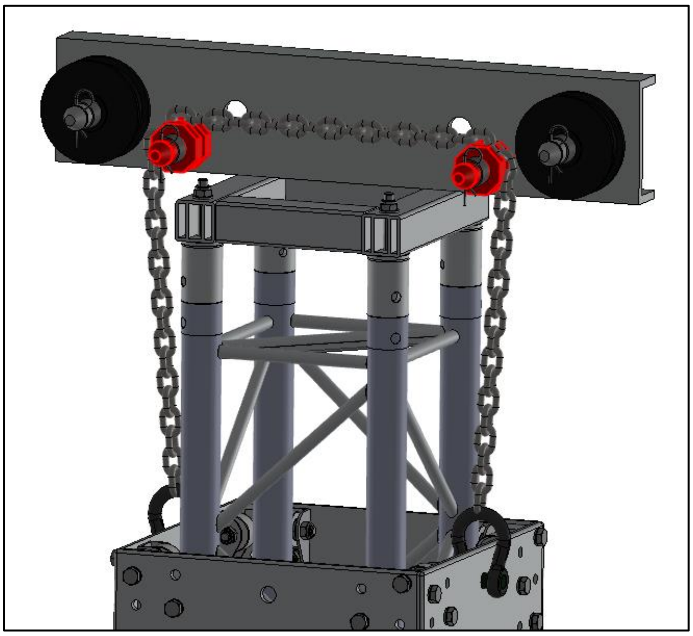
Option 1 : STEP 38: LOCK THE SAFETY PIN BY MEANS OF THE HORSE SHOE INCASE OF OUTDOOR USE

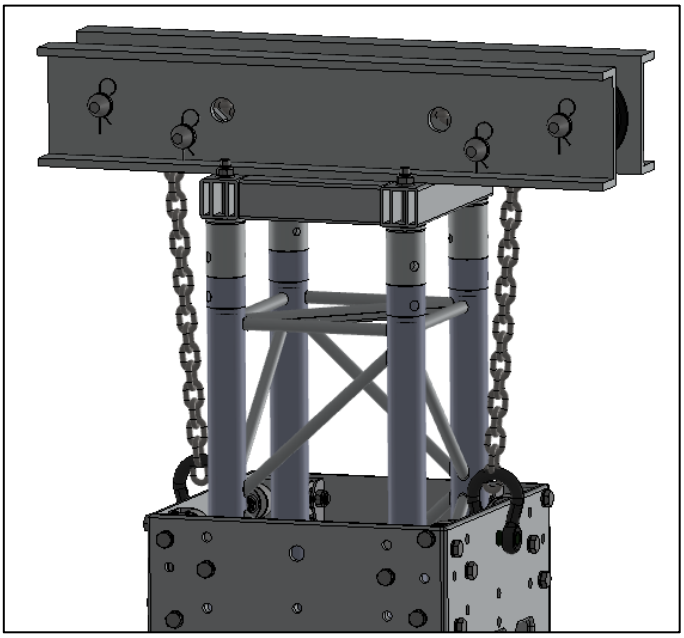


Item	Description	Art. code	weight in kg
6	Tower model M10 horse shoe	232006	0,31
6a	M16x040 DIN931	818012	0,09
6b	Nut self-locking M16 DIN985	818003	0,01

Option 2 : STEP 39 ATTACH THE SAFETY CHAINS

MAKE SURE NO TWIST ARE IN THE CHAIN





STEP 40:

INSPECT IF ALL SCREW JACKS ARE SUFFICIENTLY TIGHTENED AND TOUCHING THE GROUND

CHECK IF THE TOWER IS PERFECTLY VERTICAL. ADJUST SCREW JACKS WHEN REQUIRED

9. DISASSEMBLY

FOLLOW THE AFORE MENTIONED STEPS IN OPOSITE ORDER

IF ANY DEFAULTS ARE FOUND, MARK THE COMPONENT CLEARLY AND TAKE OUT OF SERVICE

10. INSPECTIONS See Part 1

11. MAINTENANCE AND DISCARD CRITERIA INTRODUCTION See Part 1

12. LEGISLATION See Part 1 and ANNEX I for the CE declaration

13. GUARANTEE See Part 1

14. DISCLAIMER

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ANNEX I

EC-DECLARATION OF CONFORMITY FOR MACHINERY
(2006/42/EG Annex II)

SIXTY 82 B.V.
AMPERELAAN 9
9207 AM DRACHTEN
THE NETHERLANDS

Herewith declares that:

SIXTY82 truss systems; S22T, S22S, M29TX, M29SX, M29T, M29S, M39T, M39S, M39SMB, M39TOW, L35R, L35S, L52F, L52V, L52TOW, XL101R, XL101F

- are in compliance with the Machinery Directive 2006/42/EEC annex II
- the following harmonized standards have been applied (or parts/clauses of): EN 12100-1-2010, EN 1999, EN 1993
- the following national technical standards and specifications have been used (or parts/clauses of): EN 17115, DGUV 17-18, EN-ISO 3834-1, EN-ISO 3834-3, EN 754 all parts, EN 755 all parts, EN 515, EN 573, EN 10204:2004, EN 1090-2, EN 1090-3.

Drachten , The Netherlands 01-11-2019

Mr. M. Hendriks,
CTO