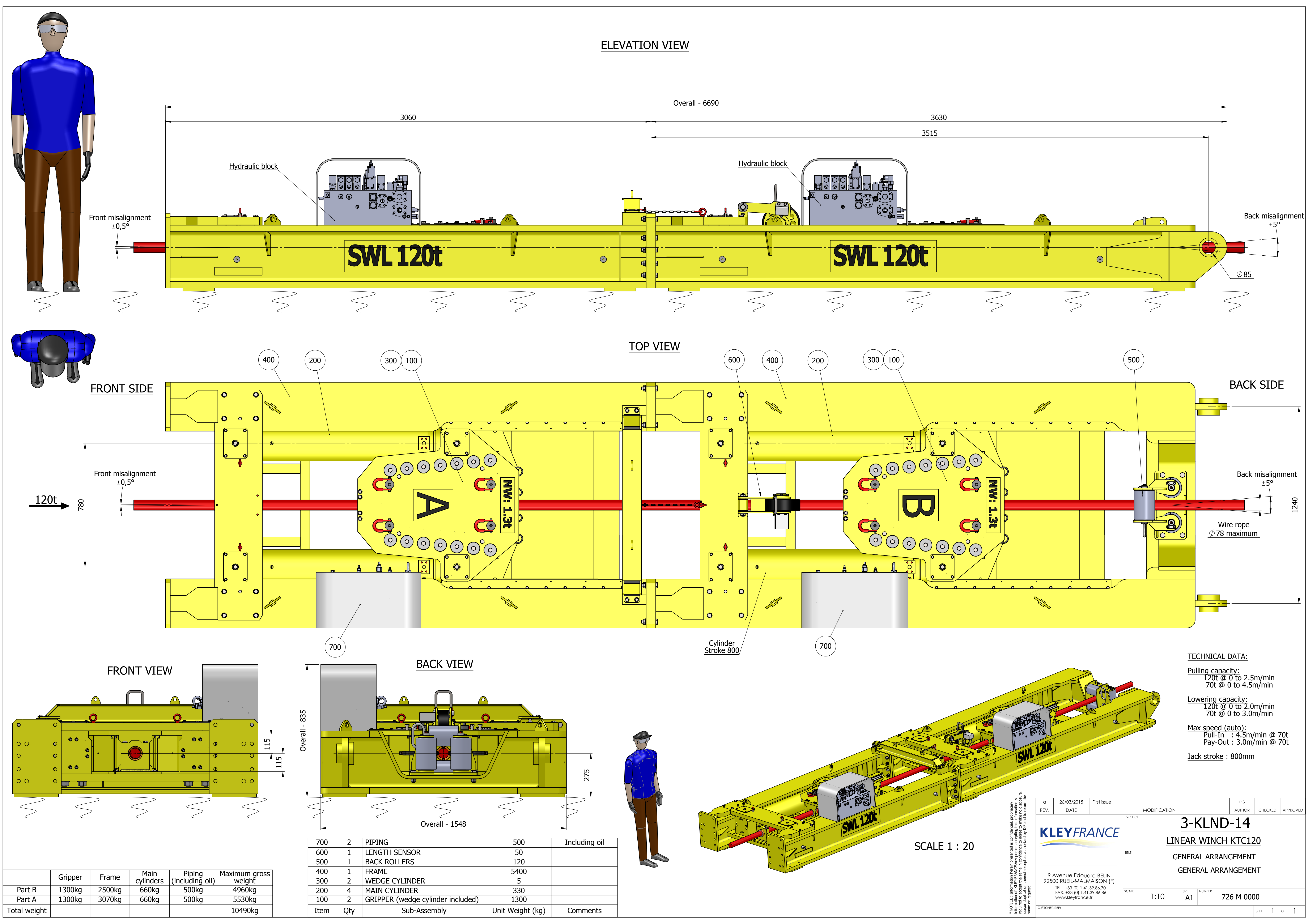




ELEVATION VIEW

TOP VIEW

FRONT VIEW

BACK VIEW

TECHNICAL DATA:

Pulling capacity:  
120t @ 0 to 2.5m/min  
70t @ 0 to 4.5m/min

Lowering capacity:  
120t @ 0 to 2.0m/min  
70t @ 0 to 3.0m/min

Max speed (auto):  
Pull-In : 4.5m/min @ 70t  
Pay-Out : 3.0m/min @ 70t

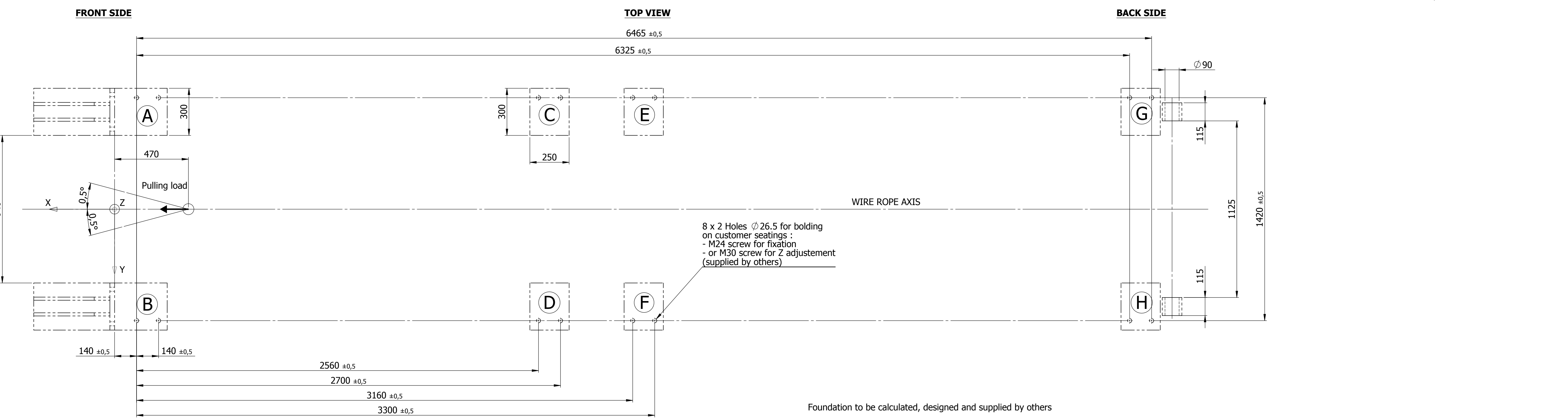
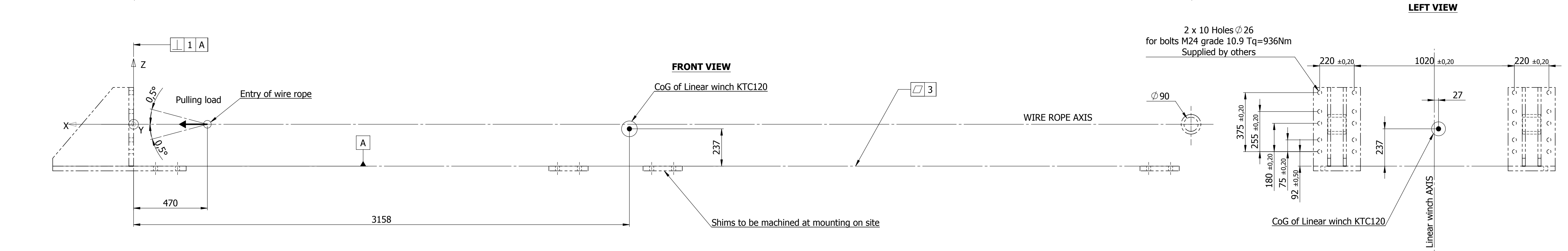
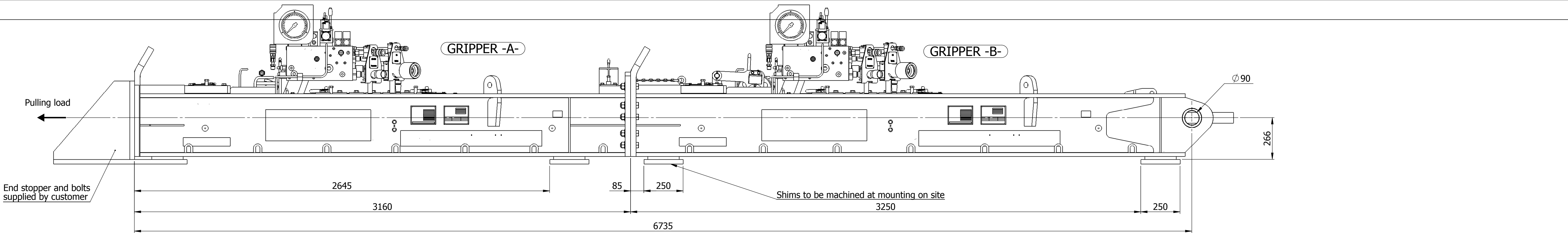
Jack stroke : 800mm

|                                                                                                                                      |            |              |                     |         |          |
|--------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|---------------------|---------|----------|
| a                                                                                                                                    | 26/03/2015 | First issue  | PG                  |         |          |
| REV.                                                                                                                                 | DATE       | MODIFICATION | AUTHOR              | CHECKED | APPROVED |
| PROJECT                                                                                                                              |            |              | 3-KLND-14           |         |          |
| TITLE                                                                                                                                |            |              | LINEAR WINCH KTC120 |         |          |
| SCALE                                                                                                                                |            |              | GENERAL ARRANGEMENT |         |          |
| SCALE                                                                                                                                |            |              | GENERAL ARRANGEMENT |         |          |
| 9 Avenue Edouard BELIN<br>92500 RUEIL-MALMAISON (F)<br>TEL: +33 (0) 1.41.39.86.70<br>FAX: +33 (0) 1.41.39.86.86<br>www.kleyfrance.fr |            |              | 726 M 0000          |         |          |
| CUSTOMER REF:                                                                                                                        |            |              | SHEET 1 OF 1        |         |          |

|              |         |        |                |                        |                      |
|--------------|---------|--------|----------------|------------------------|----------------------|
|              | Gripper | Frame  | Main cylinders | Piping (including oil) | Maximum gross weight |
| Part B       | 1300kg  | 2500kg | 660kg          | 500kg                  | 4960kg               |
| Part A       | 1300kg  | 3070kg | 660kg          | 500kg                  | 5530kg               |
| Total weight |         |        |                |                        | 10490kg              |

|      |     |                                   |                  |               |
|------|-----|-----------------------------------|------------------|---------------|
| 700  | 2   | PIPING                            | 500              | Including oil |
| 600  | 1   | LENGTH SENSOR                     | 50               |               |
| 500  | 1   | BACK ROLLERS                      | 120              |               |
| 400  | 1   | FRAME                             | 5400             |               |
| 300  | 2   | WEDGE CYLINDER                    | 5                |               |
| 200  | 4   | MAIN CYLINDER                     | 330              |               |
| 100  | 2   | GRIPPER (wedge cylinder included) | 1300             |               |
| Item | Qty | Sub-Assembly                      | Unit Weight (kg) | Comments      |





Winch weight : 4,4t (Gripper A) + 4,8t (Gripper B) = 9,2t  
Weight considered for deckloads calculation and calculation note : 9,2 x 1,1 = 10,12t

Accelerations :  $\gamma_x = 0g$   
 $\gamma_y = 0g$   
 $\gamma_z = 0g$

Pulling load considered to be parallel to X axis

Pulling load for deckloads calculation : 120t x 143% = 171.6t

|       | DECK LOAD           |        |                     |        |                             |        |
|-------|---------------------|--------|---------------------|--------|-----------------------------|--------|
|       | Winch weight : 9.2t |        | Pulling load : 120t |        | Winch weight + pulling load |        |
|       |                     |        |                     |        |                             |        |
| A & B | X                   | xxx kN | X                   | xxx kN | X                           | xxx kN |
|       | Y                   | xxx kN | Y                   | xxx kN | Y                           | xxx kN |
|       | Z                   | xxx kN | Z                   | xxx kN | Z                           | xxx kN |
| C & D | X                   | xxx kN | X                   | xxx kN | X                           | xxx kN |
|       | Y                   | xxx kN | Y                   | xxx kN | Y                           | xxx kN |
|       | Z                   | xxx kN | Z                   | xxx kN | Z                           | xxx kN |
| E & F | X                   | xxx kN | X                   | xxx kN | X                           | xxx kN |
|       | Y                   | xxx kN | Y                   | xxx kN | Y                           | xxx kN |
|       | Z                   | xxx kN | Z                   | xxx kN | Z                           | xxx kN |
| G & H | X                   | xxx kN | X                   | xxx kN | X                           | xxx kN |
|       | Y                   | xxx kN | Y                   | xxx kN | Y                           | xxx kN |
|       | Z                   | xxx kN | Z                   | xxx kN | Z                           | xxx kN |

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**KLEYFRANCE**

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www.kleyfrance.fr

CUSTOMER REF:

|      |            |             |        |         |          |
|------|------------|-------------|--------|---------|----------|
| 0    | 28/04/2016 | As built    | SGI    | OVE     | AFR      |
| A    | 05/08/2015 | First issue | DCO    |         |          |
| REV. | DATE       |             | AUTHOR | CHECKED | APPROVED |

PROJECT

**3-KLND-14**

LINEAR WINCH KTC120

TITLE

Footprints and deckloads diagram

SCALE

1:12.5

SIE

A1

NUMBER

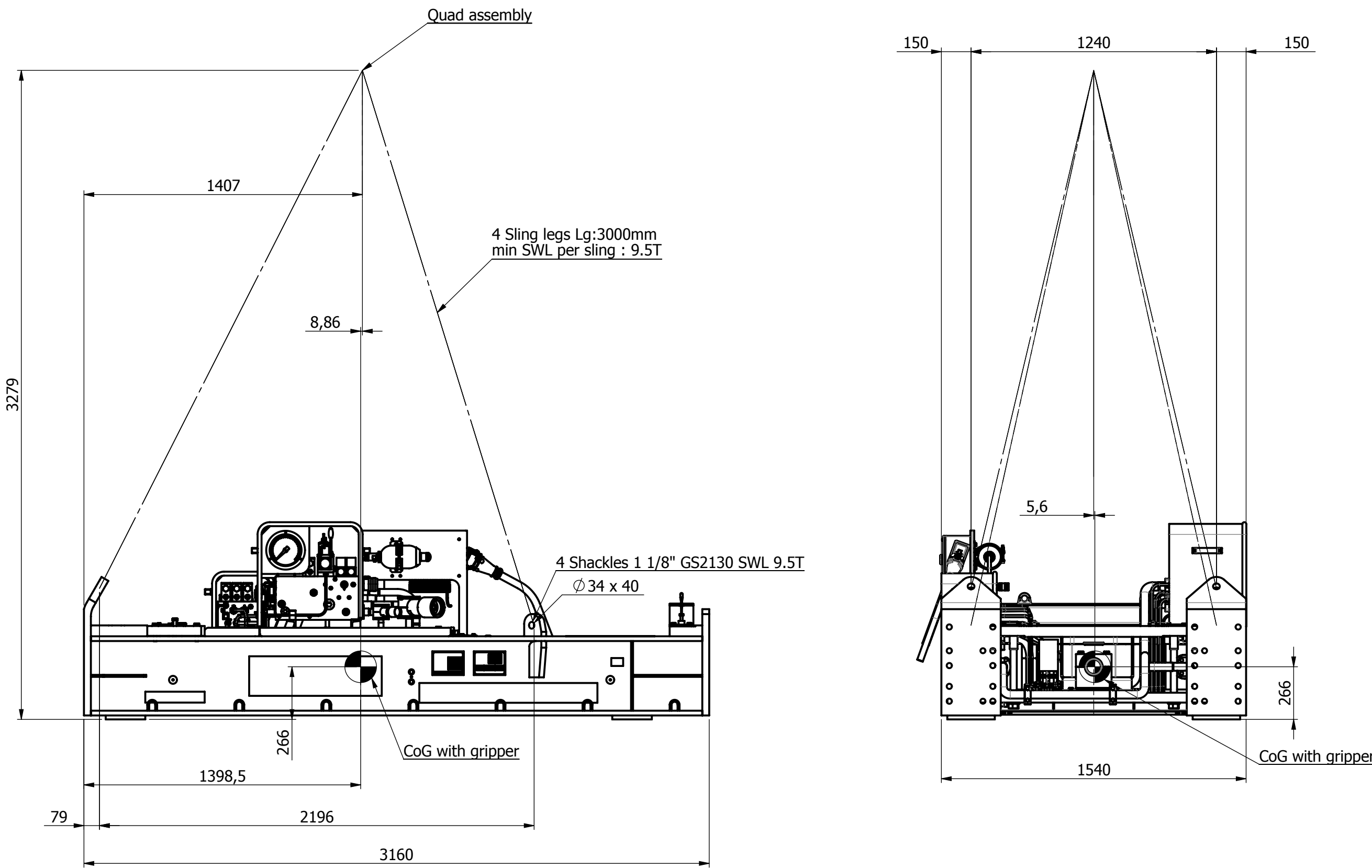
726 F 0000

SHEET 1 OF 1

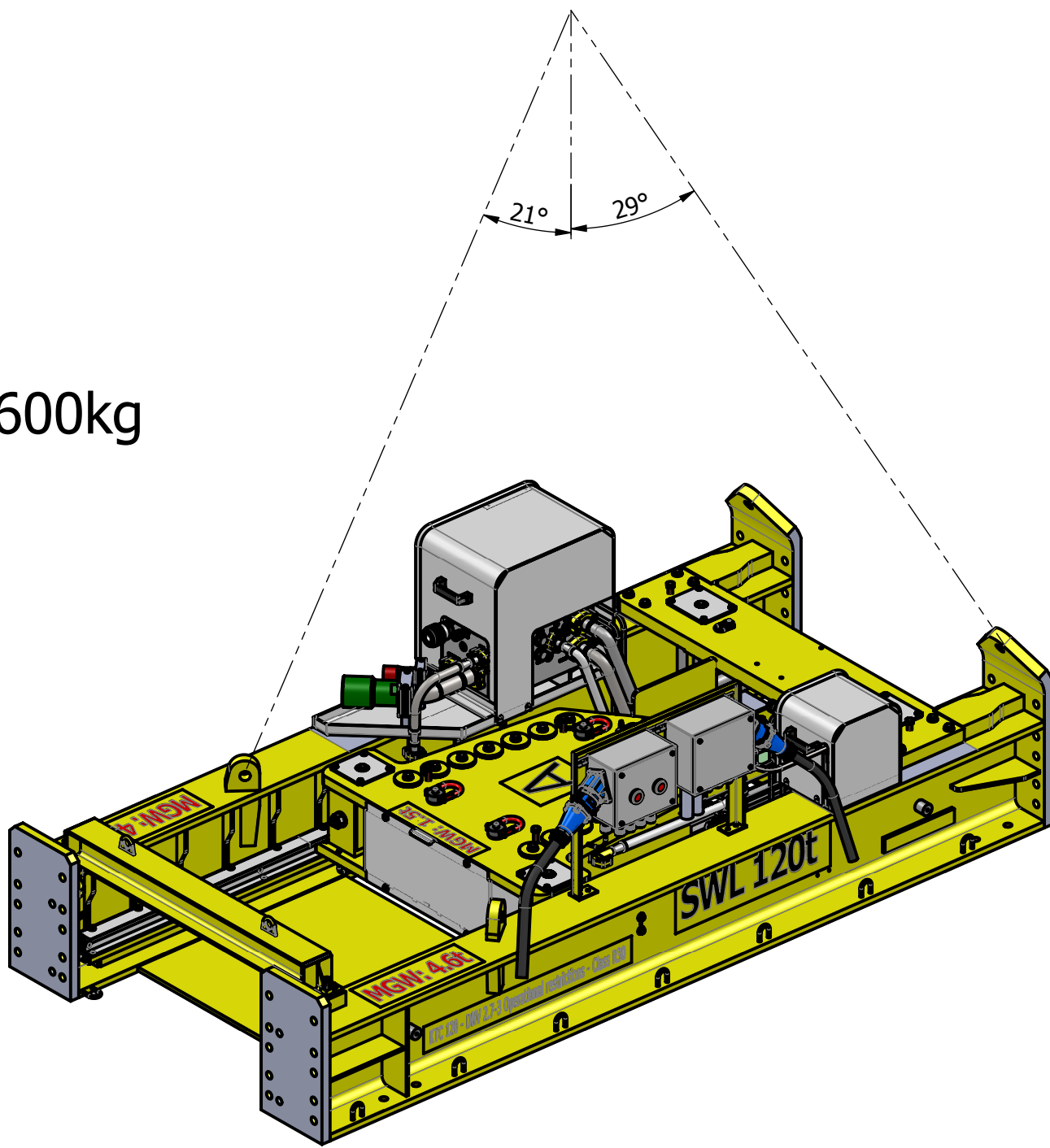


OFFSHORE LIFTING CONFIGURATION

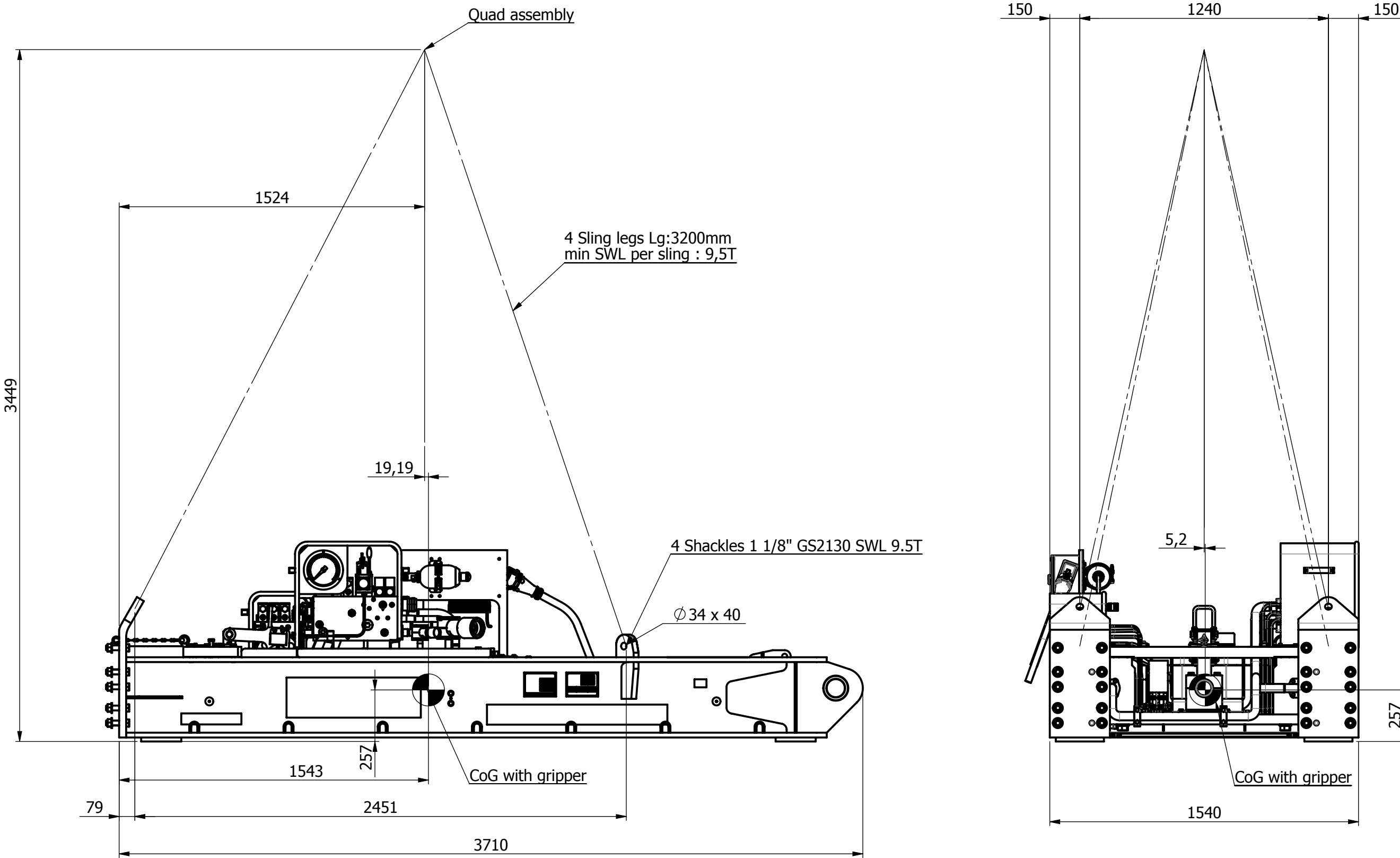
NO LIFTING OPERATION WITH SIGNIFICANT WAVE HEIGHT ABOVE 3M ⚠



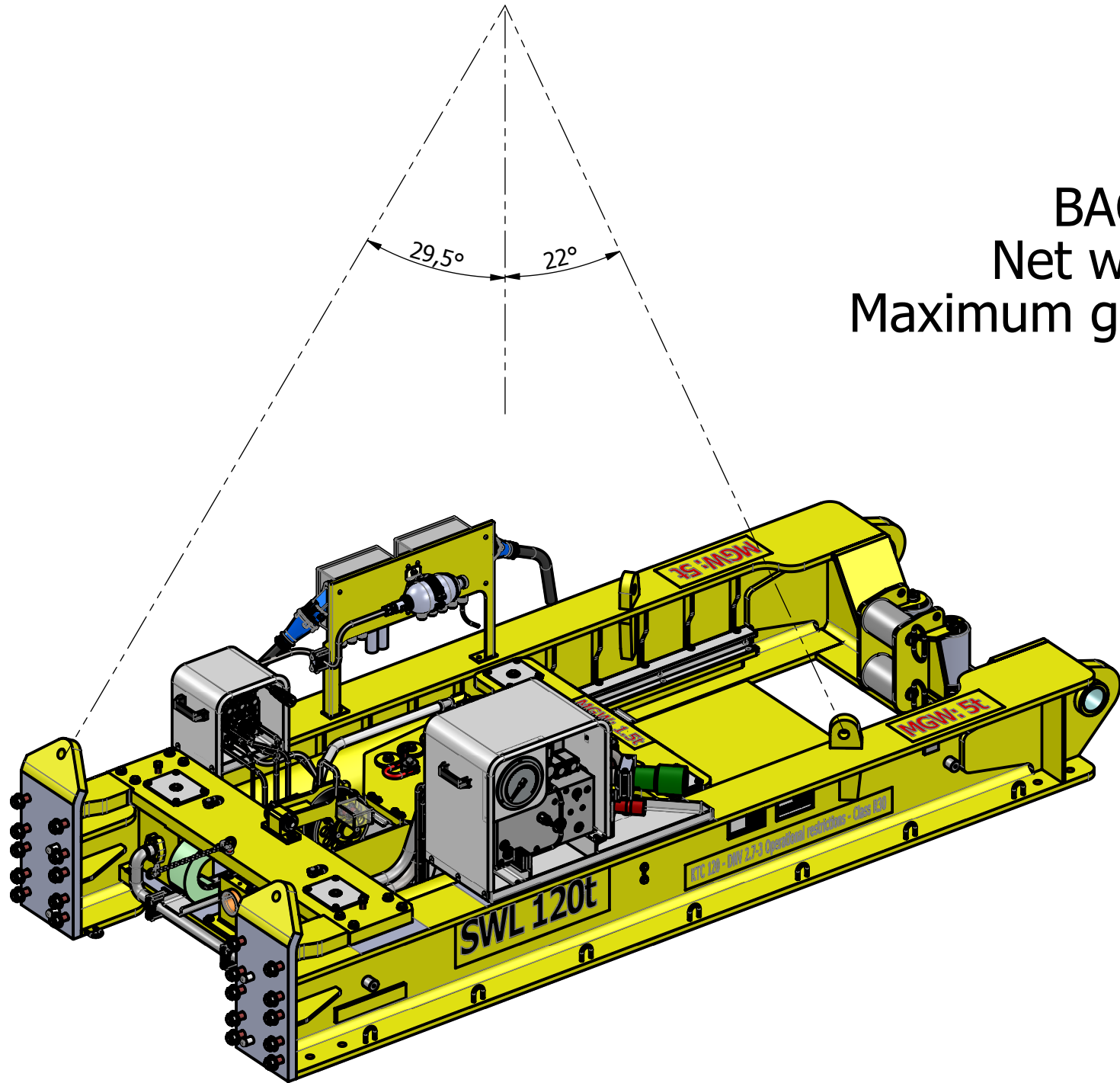
FRONT FRAME A  
Net weight : 4500kg  
Maximum gross weight : 4600kg



LIFTING LUGS DNV 2.7.3 CERTIFIED FOR OFFSHORE LIFTING  
Main cylinders in back position and movable wedges closed



BACK FRAME B  
Net weight : 4900kg  
Maximum gross weight : 5000kg



LIFTING LUGS DNV 2.7.3 CERTIFIED FOR OFFSHORE LIFTING  
Main cylinders in back position and movable wedges closed

NOTE

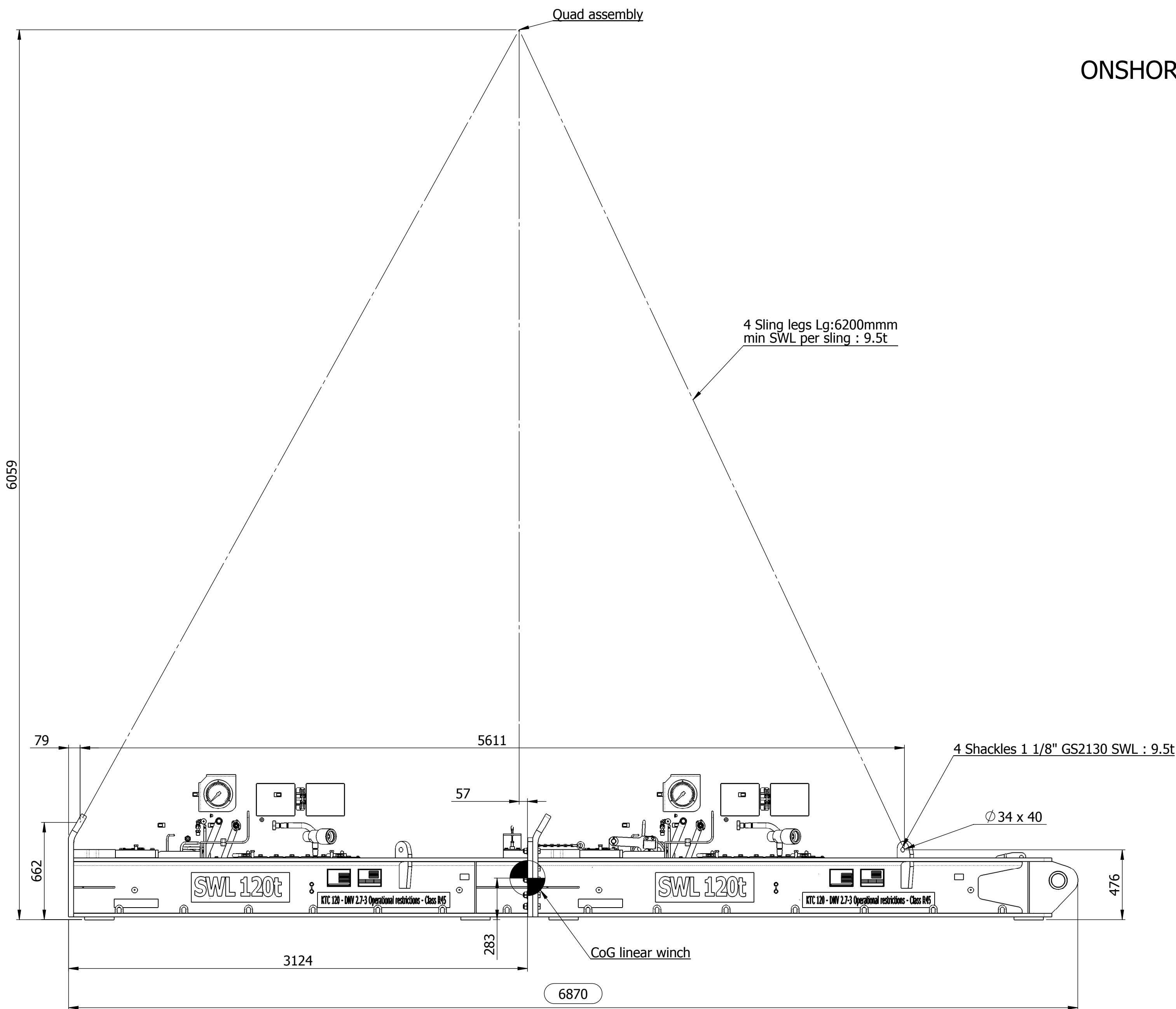
A SAFETY AREA CLEAR FROM OBSTACLES SHALL BE GUARANTEED AROUND THE UNIT TO AVOID SNAGGING HAZARD DURING LIFTING.

THIS UNIT IS NOT SUITABLE FOR IMPACTS.  
HANDLING AND LIFTING SHALL BE CAREFULLY PERFORMED.

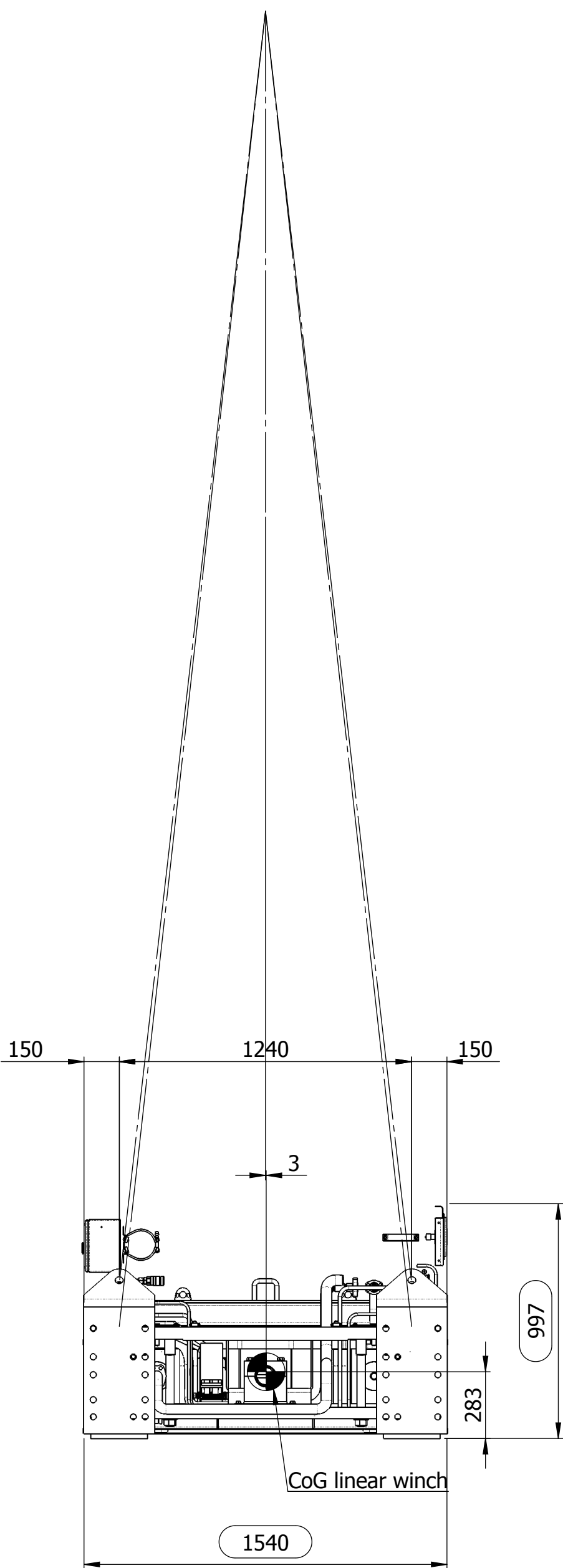
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|                                                                                                                                      |            |                       |                     |         |          |
|--------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|---------------------|---------|----------|
| 2                                                                                                                                    | 07/03/2016 | Waveheight 4.5M -> 3M | PG                  | SG      | AF       |
| 1                                                                                                                                    | 04/02/2016 | Update weights        | PG                  | SG      | AF       |
| 0                                                                                                                                    | 21/01/2016 | For construction      | PG                  | SG      | AF       |
| A                                                                                                                                    | 29/07/2015 | First issue           | DCO                 |         |          |
| REV.                                                                                                                                 | DATE       | MODIFICATION          | AUTHOR              | CHECKED | APPROVED |
| PROJECT                                                                                                                              |            |                       | 3-KLND-14           |         |          |
| TITLE                                                                                                                                |            |                       | LINEAR WINCH KTC120 |         |          |
| Lifting                                                                                                                              |            |                       | GENERAL ARRANGEMENT |         |          |
| 9 Avenue Edouard BELIN<br>92500 RUEIL-MALMAISON (F)<br>TEL: +33 (0) 1.41.39.86.70<br>FAX: +33 (0) 1.41.39.86.86<br>www.kleyfrance.fr |            |                       | SCALE               | 1:20    | NUMBER   |
| CUSTOMER REF:                                                                                                                        |            |                       | A1 726 L 0001       |         |          |
|                                                                                                                                      |            |                       | SHEET 1 OF 2        |         |          |

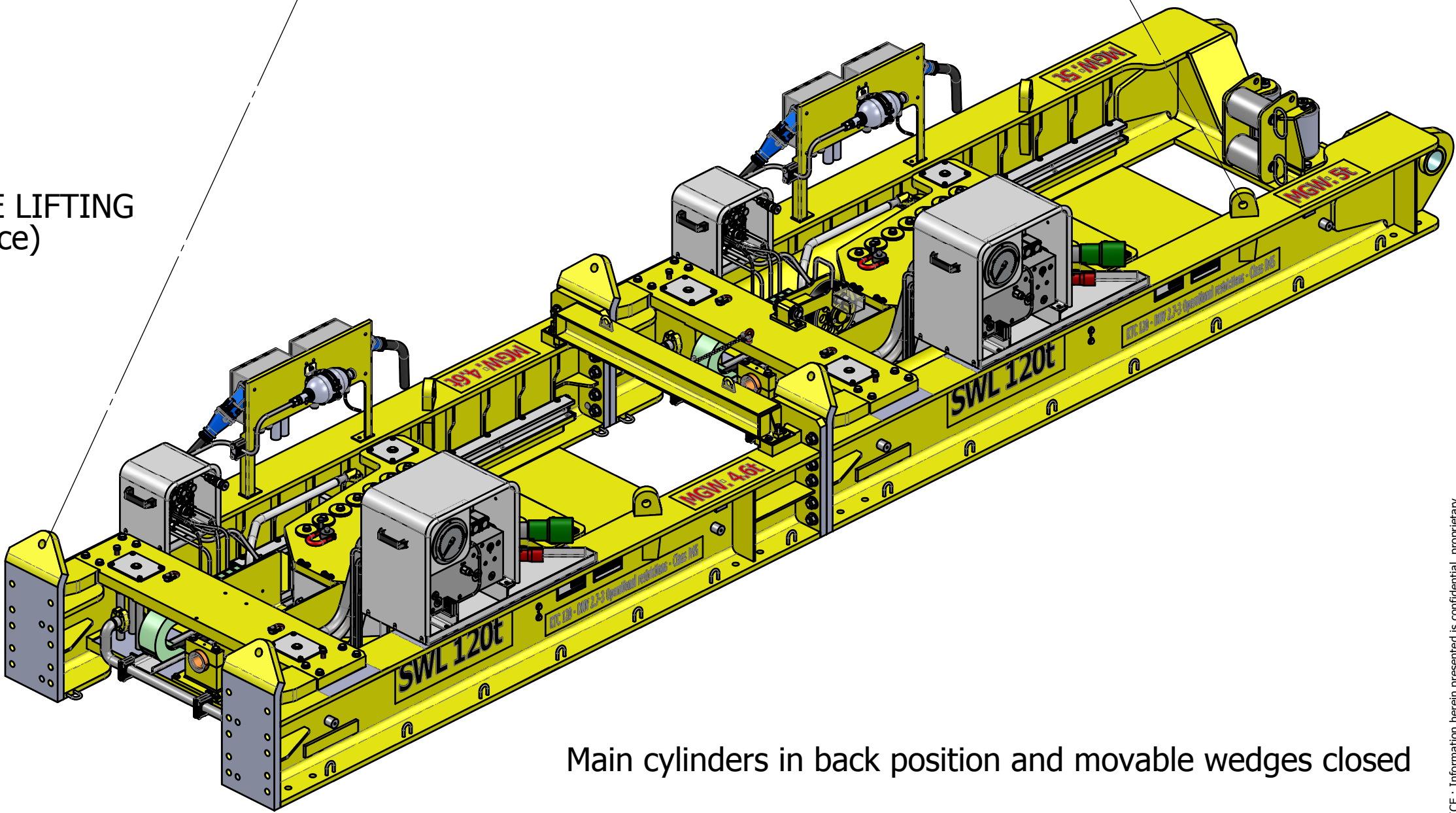




# ONSHORE LIFTING CONFIGURATION



LIFTING LUGS CERTIFIED FOR ONSHORE LIFTING  
(DNV standard 2-22 Lifting Appliance)



Main cylinders in back position and movable wedges closed

LINEAR WINCH  
Net weight : 9400kg   
Maximum gross weight : 9600kg

| 1                                                                                                                                    | 04/02/2016 | Update Weights   | PG                  | SG         | AF           |
|--------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|---------------------|------------|--------------|
| 0                                                                                                                                    | 22/01/2016 | For construction | PG                  | SG         | AF           |
| a                                                                                                                                    | 23/10/2015 | First issue      | PG                  |            |              |
| REV.                                                                                                                                 | DATE       | MODIFICATION     | AUTHOR              | CHECKED    | APPROVED     |
| PROJECT                                                                                                                              |            |                  | 3-KLND-14           |            |              |
| TITLE                                                                                                                                |            |                  | LINEAR WINCH KTC120 |            |              |
| Lifting                                                                                                                              |            |                  | GENERAL ARRANGEMENT |            |              |
| 9 Avenue Edouard BELIN<br>92500 RUEIL-MALMAISON (F)<br>TEL: +33 (0) 1.41.39.86.70<br>FAX: +33 (0) 1.41.39.86.86<br>www.kleyfrance.fr |            |                  | SCALE               | 1:20       | SHEET 1 OF 1 |
| CUSTOMER REF:                                                                                                                        |            |                  | NUMBER              | 726 L 0002 |              |

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