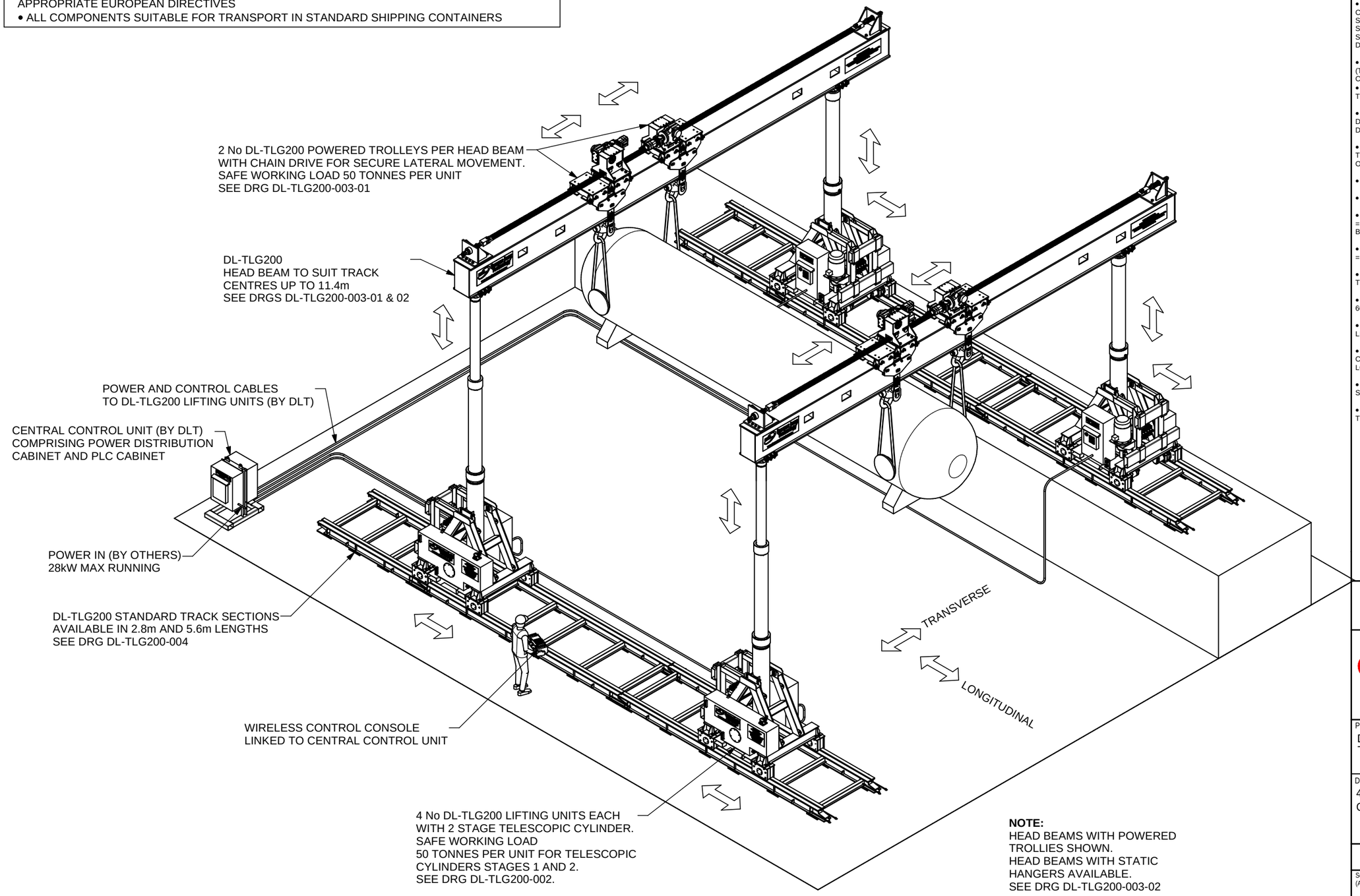
DO NOT SCALE

MAIN FEATURES

- 200 TONNES LIFTING CAPACITY ON FOUR LIFTING UNITS
- 50 TONNES LIFTING CAPACITY PER LIFTING UNIT
- HIGH HORIZONTAL LOAD CAPACITY
- TRACKS CAN BE AT DIFFERENT LEVELS
- CENTRAL WIRELESS CONTROL OF ALL FUNCTIONS
- ACCURATE ADJUSTMENT OF THE LOAD POSITION TO +/-1mm IN ALL DIRECTIONS
- ALL COMPONENTS SUBJECT TO STATIC TEST AT 125% OF SWL AND DYNAMIC TESTS OF ALL FUNCTIONS AT 110% OF SWL IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- ALL COMPONENTS AND COMPLETE DL-TLG200 SYSTEM CE MARKED IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- ALL COMPONENTS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS



NOTE:
HEAD BEAMS WITH POWERED TROLLIES SHOWN.
HEAD BEAMS WITH STATIC HANGERS AVAILABLE.
SEE DRG DL-TLG200-003-02

NOTES

SPECIFICATION FOR DL-TLG200, 4-POINT LIFT SYSTEM

- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDERS
STAGE 1 = 200 TONNES @ 75 BAR WORKING PRESSURE
STAGE 2 = 200 TONNES @ 130 BAR WORKING PRESSURE
SEE DRAWING DL-TLG200-005 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS

- STATIC TEST LOAD = 1.25 x SWL + MAXIMUM HORIZONTAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR BOTH TELESCOPIC CYLINDER STAGES)
- DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR BOTH TELESCOPIC CYLINDER STAGES AND FOR ALL FUNCTIONS)

- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION (SEE OPERATION AND MAINTENANCE MANUAL FOR DETAILS).

- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)

- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%

- MAXIMUM WHEEL LOAD = 27.6 TONNES

- LIFTING AND LOWERING SPEED OF TELESCOPIC CYLINDER = 0.5 m/minute (FAST) AND 0.1 m/minute (SLOW) - CONSTANT FOR BOTH TELESCOPIC CYLINDER STAGES

- LONGITUDINAL MOVEMENT SPEED OF DL-TLG200 LIFTING UNITS = 3.0 m/minute (FAST) AND 1.0 m/minute (SLOW)

- TRANSVERSE MOVEMENT SPEED OF DL-TLG200 POWERED TROLLEYS = 0.5 m/minute

- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH

- MAXIMUM POWER CONSUMPTION = 7 kW RUNNING PER DL-TLG200 LIFTING UNIT

- CONTROL FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG200 LIFTING UNIT

- OPERATING TEMPERATURE = -20 to +45 °C
SUBJECT TO HYDRAULIC OIL GRADE USED

- ALL COMPONENTS OF DL-TLG200 SYSTEM SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

Drawing Title
4 POINT TELESCOPIC LIFTING GANTRY
GENERAL ARRANGEMENT AND SPECIFICATION

Design Eng:	PD	Checking Eng:	JM
Drawn by:	AW	Project Eng:	SAB

Scales (At A3): AS SHOWN
Drawing Status: INFORMATION
Original Drawing size: A3

Drawing No.: DL-TLG200-001
Rev.: N1

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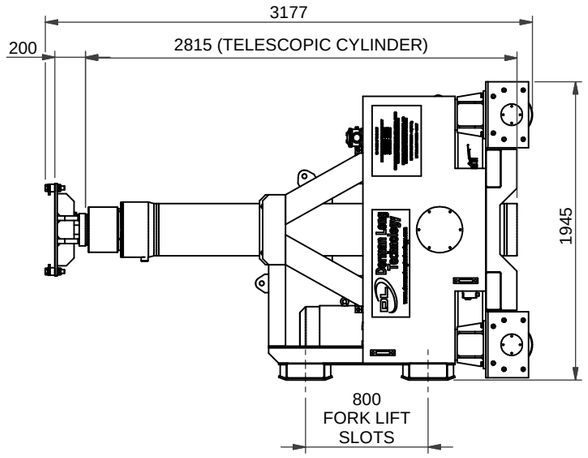
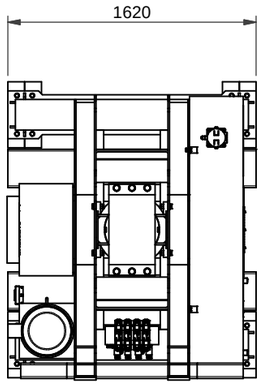
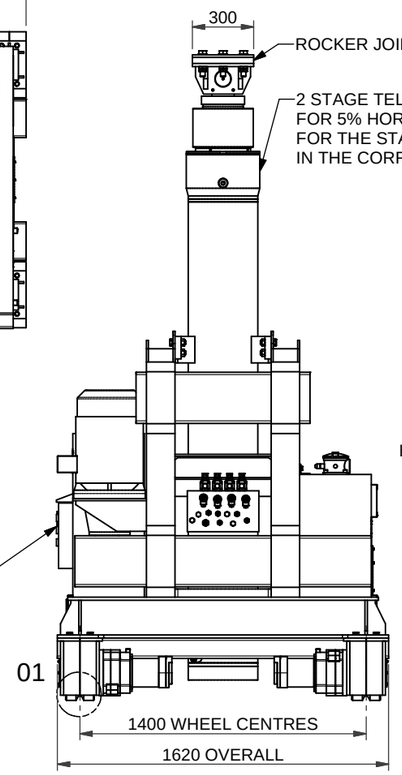
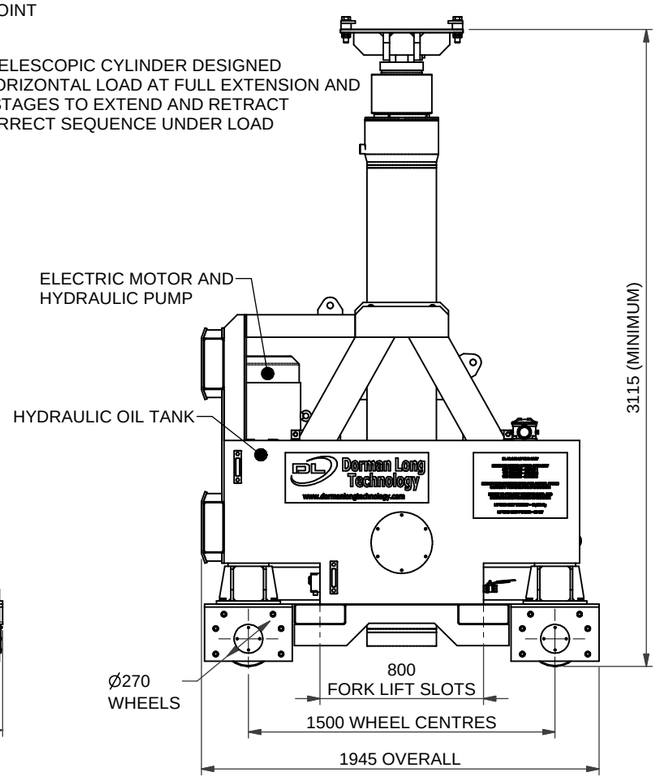
DO NOT SCALE



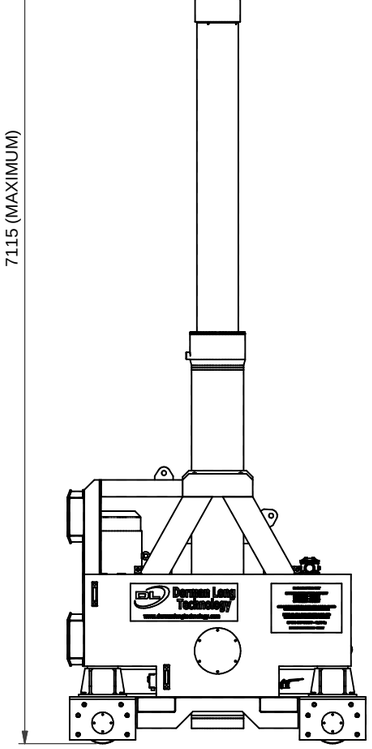


DIMENSIONS FOR TRANSPORT IN A SHIPPING CONTAINER



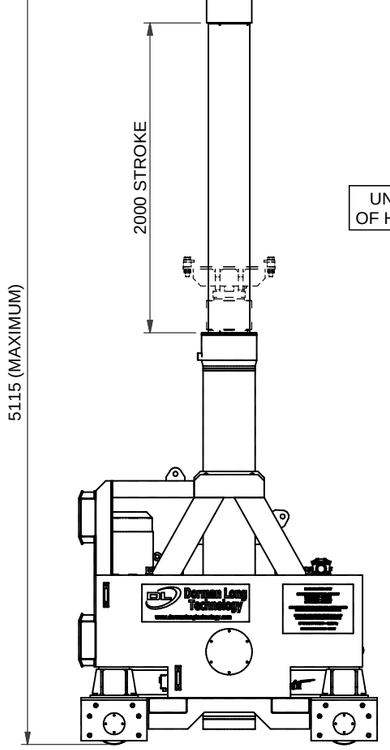


DIMENSIONS FOR OPERATION



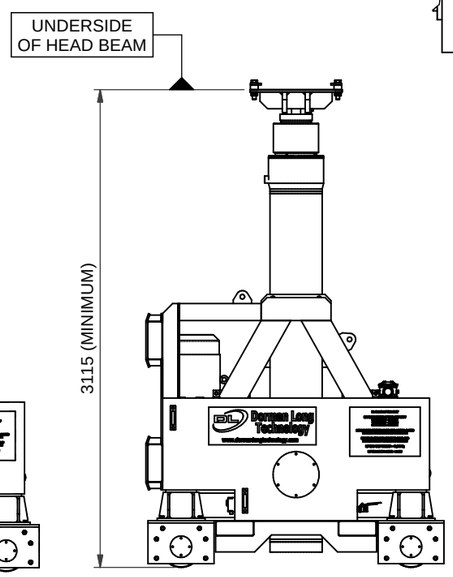
STAGE 2

CAPACITY: 50 TONNES (EACH UNIT)
MAX % TIPPING = 65%

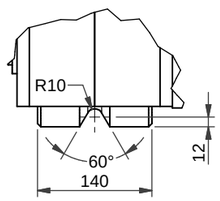


STAGE 1

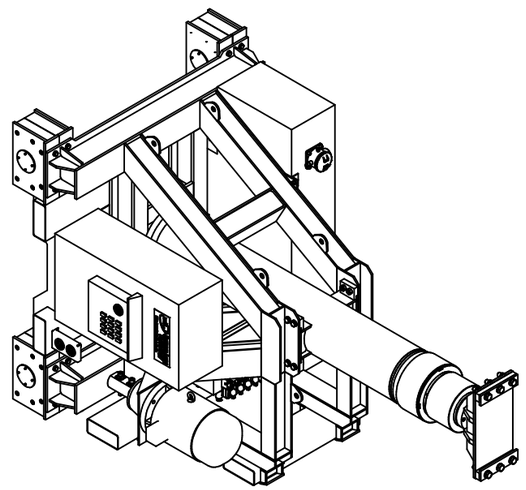
CAPACITY: 50 TONNES (EACH UNIT)
MAX % TIPPING = 39%



STAGE 0



DETAIL 01



UNIT LAID ON END FOR TRANSPORT IN A SHIPPING CONTAINER

NOTES

SPECIFICATION FOR DL-TLG200 TELESCOPIC LIFTING UNIT

- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDER
  STAGE 1 = 50 TONNES @ 75 BAR WORKING PRESSURE
  STAGE 2 = 50 TONNES @ 130 BAR WORKING PRESSURE
  SEE DRAWING DL-TLG200-005 FOR DETAILS OF LIFTING ARRANGEMENTS AND DUTY CHARTS
- TELESCOPIC CYLINDER WORKING PRESSURE ON RETRACT = 50 BAR
- STATIC TEST LOAD = 1.25 x SWL + MAXIMUM HORIZONTAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR BOTH TELESCOPIC CYLINDER STAGES)
- DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR BOTH TELESCOPIC CYLINDER STAGES AND FOR ALL FUNCTIONS)
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION (SEE OPERATION AND MAINTENANCE MANUAL FOR DETAILS).
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- THE MAXIMUM % TIPPING FIGURES GIVEN FOR STAGES 1 AND 2 ASSUME 5% HORTZONTAL LOAD AT THE ROCKER JOINT PLUS 1% TRANSVERSE SLOPE OF THE TRACK
- MAXIMUM WHEEL LOAD = 27.6 TONNES
- LIFTING AND LOWERING SPEED OF TELESCOPIC CYLINDER = 0.5 m/minute (FAST) AND 0.1 m/minute (SLOW) - CONSTANT FOR BOTH TELESCOPIC CYLINDER STAGES
- LONGITUDINAL MOVEMENT SPEED OF DL-TLG200 LIFTING UNITS = 3.0 m/minute (FAST) AND 1.0 m/minute (SLOW)
- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH
- MAXIMUM POWER CONSUMPTION = 7 kW RUNNING PER DL-TLG200 LIFTING UNIT
- CONTROL FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG200 LIFTING UNIT
- OPERATING TEMPERATURE = -20 to +45 °C
  SUBJECT TO HYDRAULIC OIL GRADE USED
- COMPLETE DL-TLG200 LIFTING UNIT LAID ON END AS SHOWN FOR TRANSPORT IN A STANDARD SHIPPING CONTAINER
- WEIGHTS:

BASE UNIT - STEEL FRAME	= 1,030 kg
BASE UNIT - DRIVEN WHEELS (2 x 165 kg)	= 330 kg
BASE UNIT - UN-DRIVEN WHEELS (2 x 113 kg)	= 230 kg
BASE UNIT - OTHER EQUIPMENT	= 300 kg
TELESCOPIC CYLINDER	= 1,400 kg
ROCKER JOINT ASSEMBLY	= 105 kg
HYDRAULIC OIL	= 290 kg
TOTAL	= 3,685 kg

- HYDRAULIC OIL TANK SIZE = 300 litres

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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG200 TELESCOPIC LIFTING UNIT
GENERAL ARRANGEMENT AND SPECIFICATION

Design Eng:	PD	Checking Eng:	JM
Drawn by:	AW	Project Eng:	SAB

Scales (At A3): AS SHOWN
Original Drawing size: A3
Drawing Status: INFORMATION

Drawing No.: DL-TLG200-002
Rev.: N1

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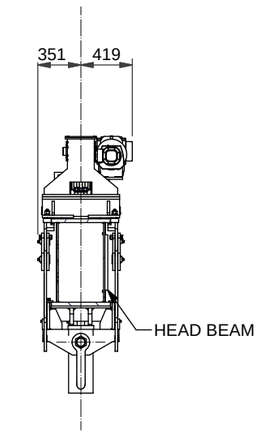
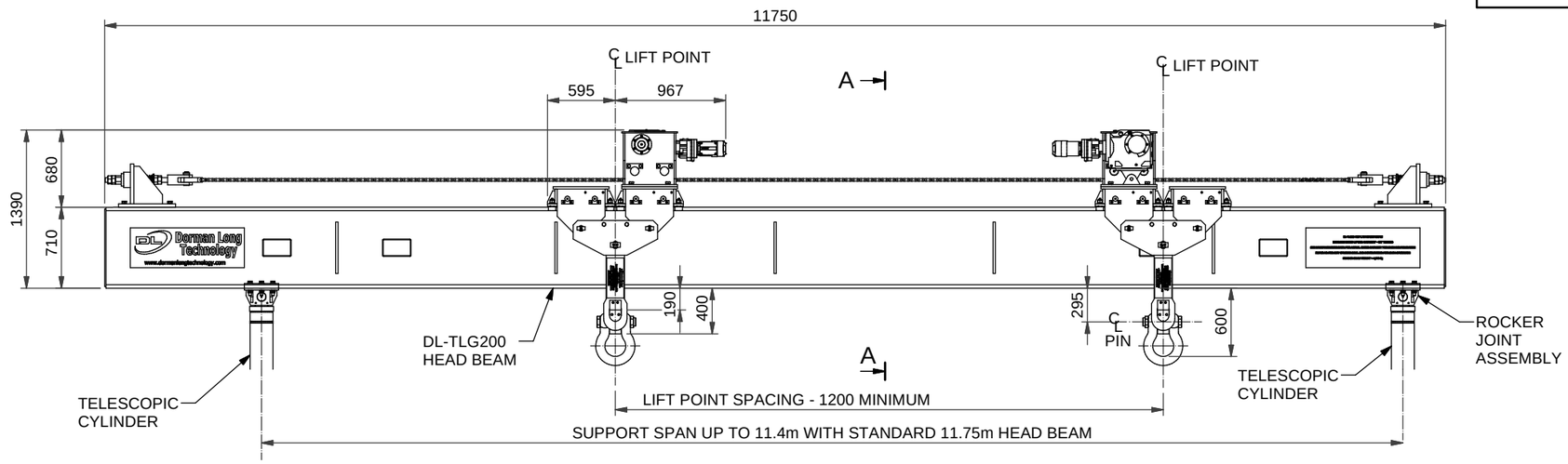
DO NOT SCALE

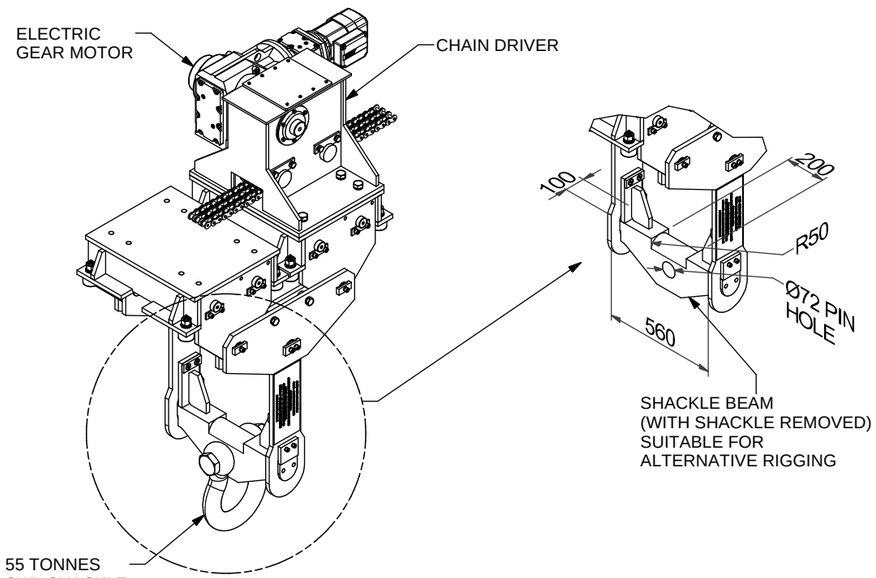


A-A (1 : 50)



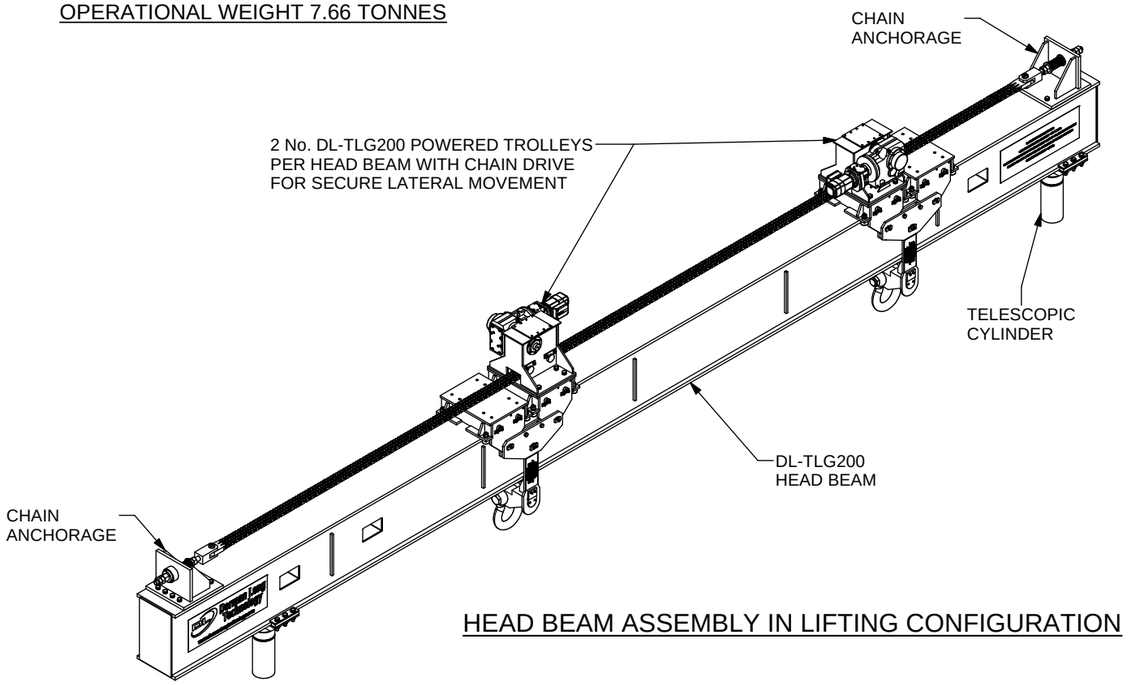
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)

OPERATIONAL WEIGHT 7.66 TONNES

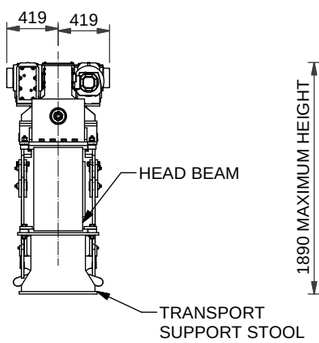


POWERED TROLLEY

(HEAD BEAM OMITTED FOR CLARITY)

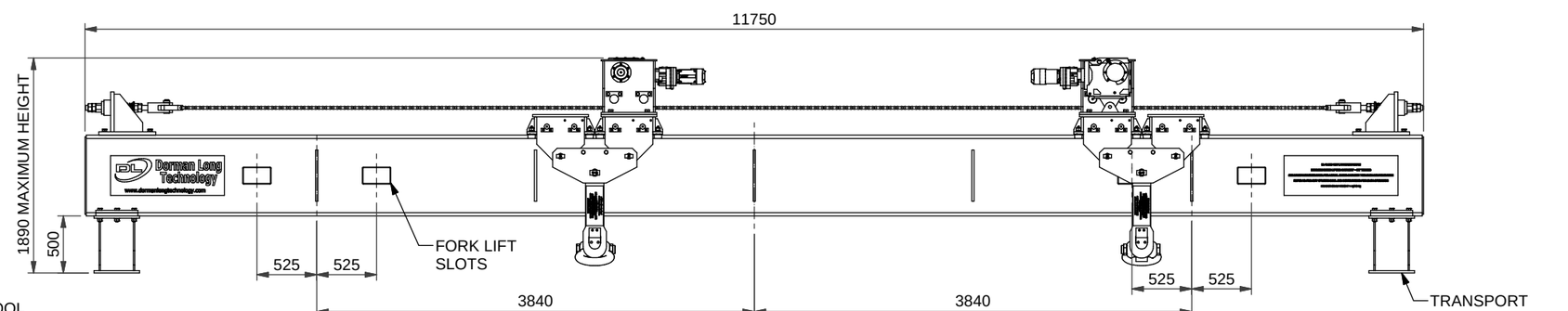


HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION

(1 : 50)



HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION (1 : 50)

TRANSPORT WEIGHT 8.01 TONNES

NOTES

SPECIFICATION
DL-TLG200 HEAD BEAM AND
DL-TLG200 POWERED TROLLEY

- MAXIMUM SAFE WORKING LOAD (SWL)
  = 50 TONNES PER LIFT POINT
  = 92 TONNES PER HEAD BEAM
  SEE DRAWING DL-TLG200-005 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION.
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%
- TRANSVERSE MOVEMENT SPEED OF DL-TLG200 POWERED TROLLEYS = 0.5 m/minute
- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH.
- MAXIMUM POWER CONSUMPTION = 0.4 kW RUNNING PER DL-TLG200 POWERED TROLLEY
- CONTROL SYSTEM FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG200 LIFTING UNIT
- OPERATING TEMPERATURE = -20 TO +45 °C
- DL-TLG200 HEAD BEAM SUPPORTED ON 2 No. SUPPORT STOOL ASSEMBLIES AND COMPLETE WITH ALL EQUIPMENT IS SUITABLE FOR TRANSPORT IN A STANDARD 40' SHIPPING CONTAINER
- WEIGHTS:-

DL-TLG200 HEAD BEAM	=	4,370 kg
POWERED TROLLEY	= 2x	1,500 kg
CHAIN & CHAIN ANCHORAGES	=	295 kg
SUPPORT STOOL ASSEMBLIES	= 2x	175 kg
TOTAL OPERATING WEIGHT	=	7,660 kg
TOTAL TRANSPORT WEIGHT	=	8,010 kg

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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG200 HEAD BEAM AND
DL-TLG200 STATIC HANGERS
GENERAL ARRANGEMENT AND SPECIFICATION

Design Eng:	JM	Checking Eng:	PD
Drawn by:	SG	Project Eng:	SAB

Scales (At A3): AS SHOWN
Drawing Status: INFORMATION
Original Drawing size: A3

Drawing No.: DL-TLG200-003-02
Rev.: N1

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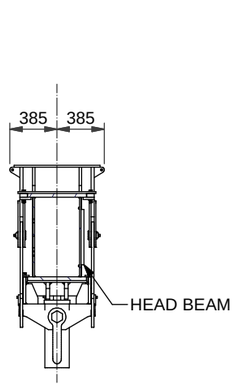
DO NOT SCALE



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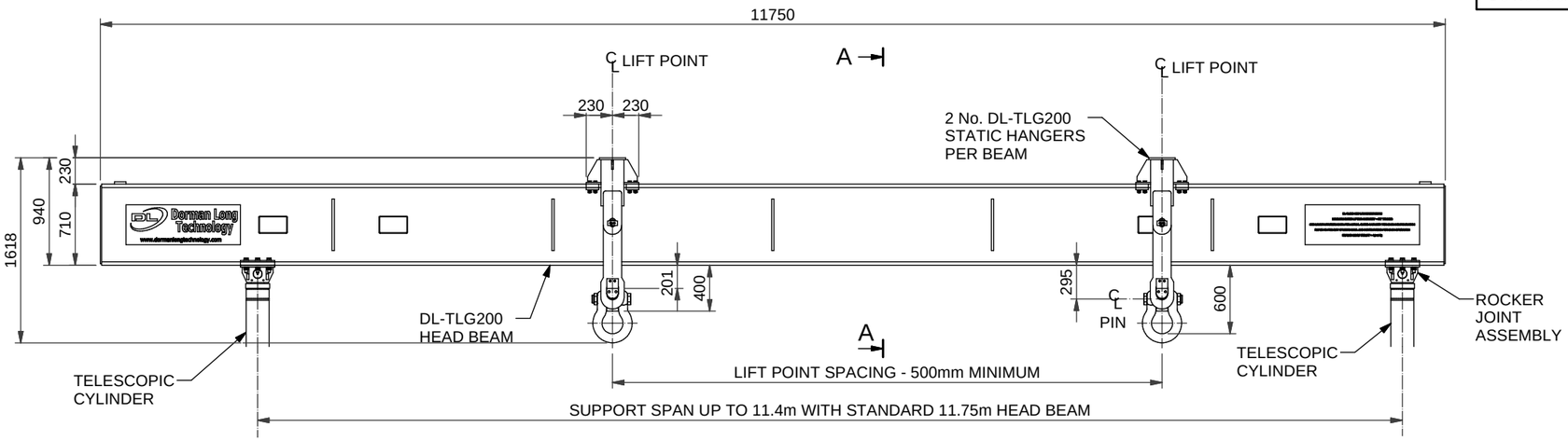
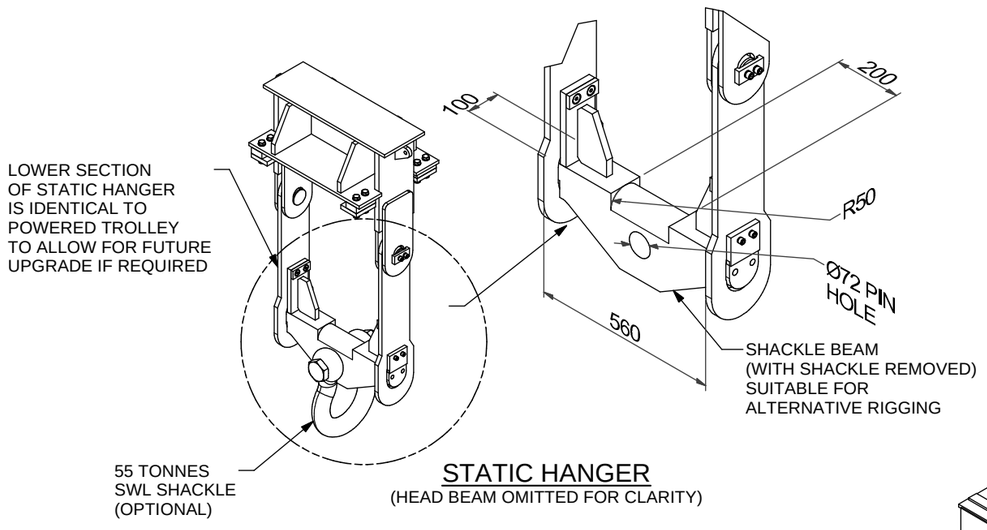
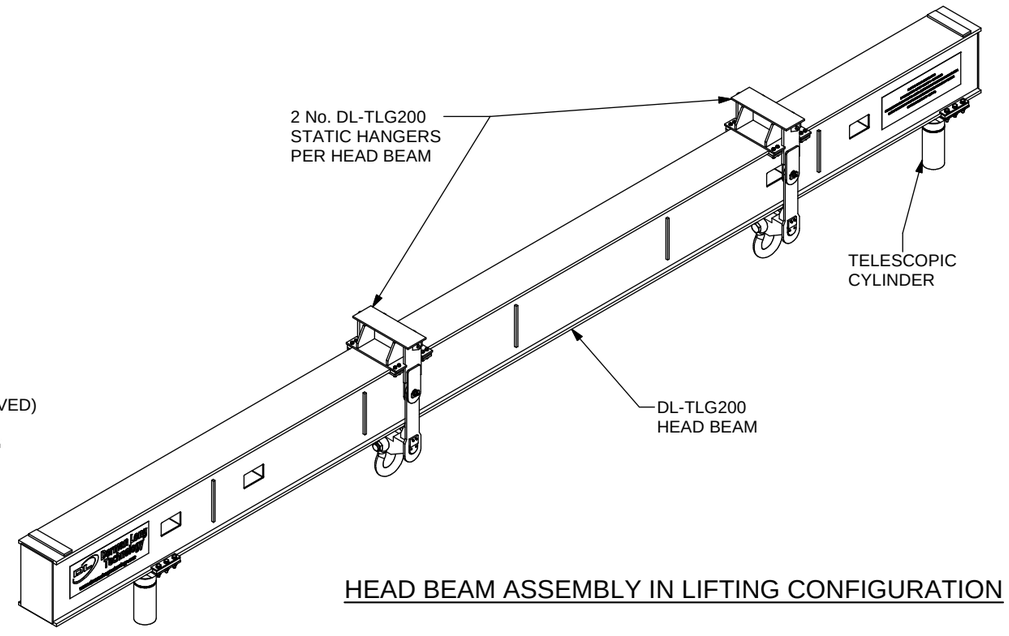


HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)

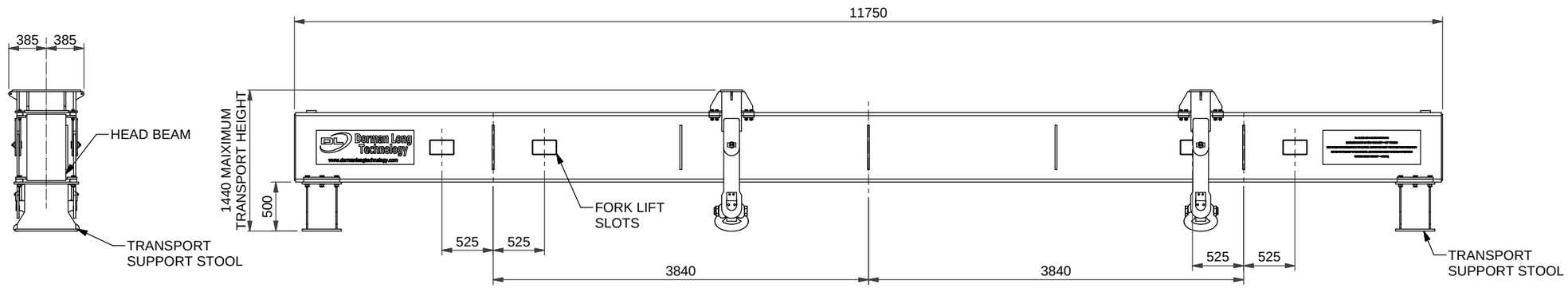
OPERATIONAL WEIGHT 5.07 TONNES



STATIC HANGER
(HEAD BEAM OMITTED FOR CLARITY)



HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION
(1 : 50)

HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION (1 : 50)

TRANSPORT WEIGHT 5.42 TONNES

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DLT Engineering shall not be liable for the use of any information contained on this drawing for any purpose other than that for which it was specifically prepared and provided.

Should there be any doubt regarding the interpretation of any information given on this drawing, enquiries should be directed to DLT Engineering at the address given below before executing such part of the works.

NOTES

SPECIFICATION
DL-TLG200 HEAD BEAM AND
DL-TLG200 STATIC HANGERS

- MAXIMUM SAFE WORKING LOAD (SWL)
= 50 TONNES PER LIFT POINT
= 94 TONNES PER HEAD BEAM
SEE DRAWING DL-TLG200-005 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS

- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION.

- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%

- OPERATING TEMPERATURE = -20 TO +45 °C

- DL-TLG200 HEAD BEAM SUPPORTED ON 2 No. SUPPORT STOOL ASSEMBLIES AND COMPLETE WITH ALL EQUIPMENT IS SUITABLE FOR TRANSPORT IN A STANDARD 40' SHIPPING CONTAINER

- WEIGHTS:-

DL-TLG200 HEAD BEAM	=	4,370 kg
STATIC HANGER ASSEMBLIES	= 2x	350 kg
SUPPORT STOOL ASSEMBLIES	= 2x	175 kg
TOTAL OPERATING WEIGHT	=	5,070 kg
TOTAL TRANSPORT WEIGHT	=	5,420 kg

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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG200 HEAD BEAM AND
DL-TLG200 STATIC HANGERS
GENERAL ARRANGEMENT AND SPECIFICATION

Design Eng:	JM	Checking Eng:	PD
Drawn by:	SG	Project Eng:	SAB

Scales (At A3): AS SHOWN
Drawing Status: INFORMATION
Original Drawing size: A3

Drawing No.: DL-TLG200-003-02
Rev.: N1

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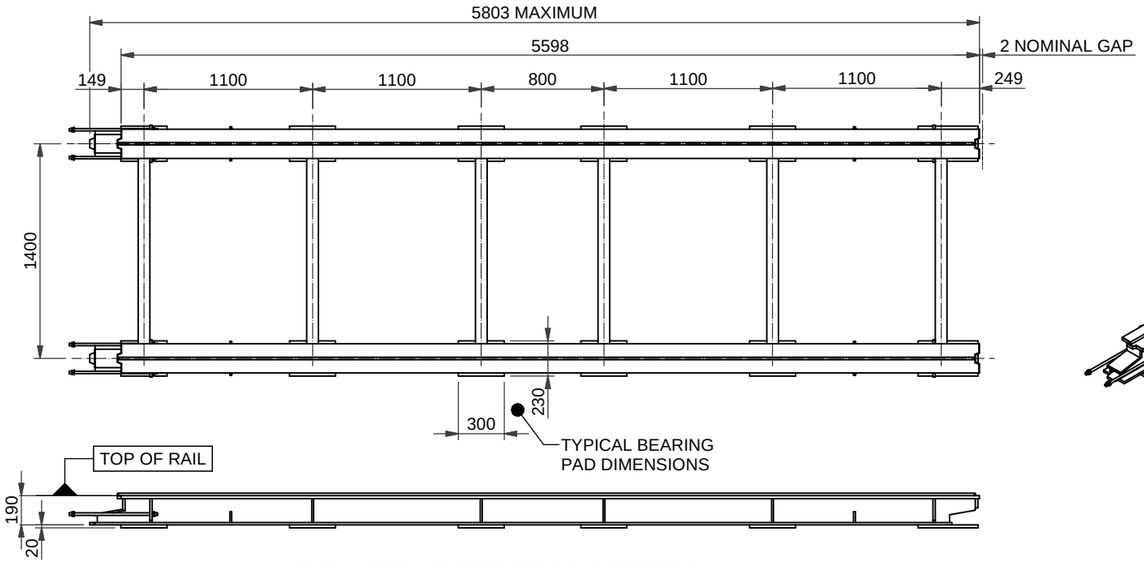
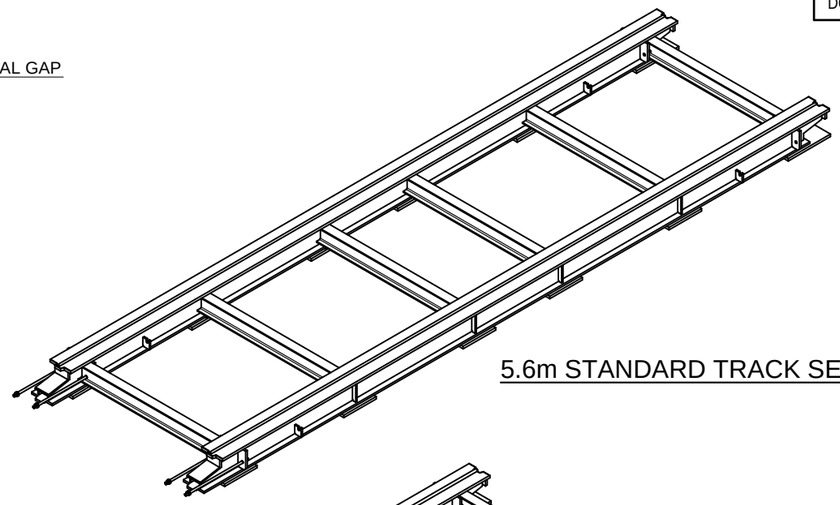
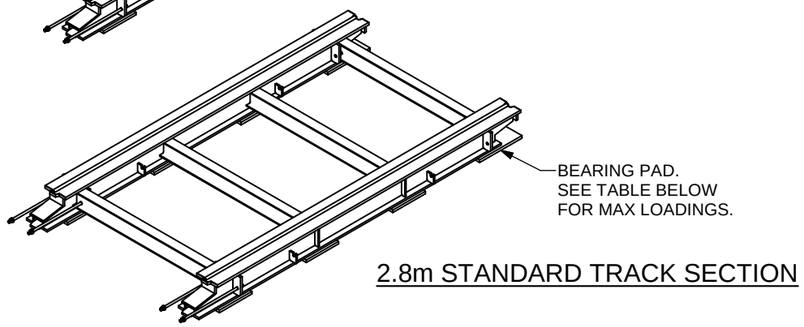
DO NOT SCALE



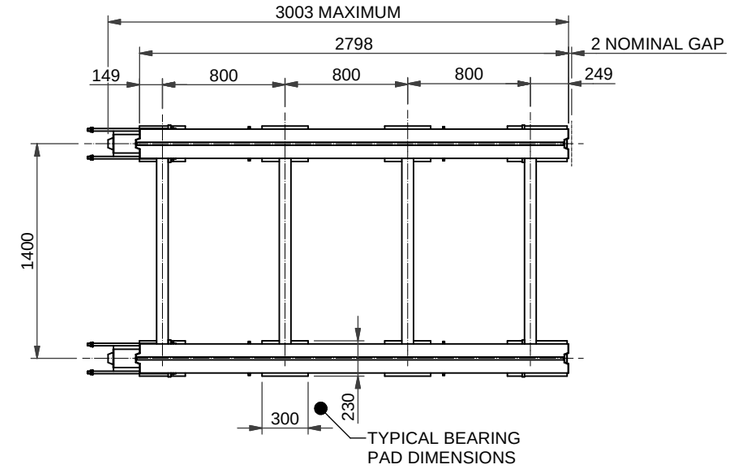
5.6m STANDARD TRACK SECTION



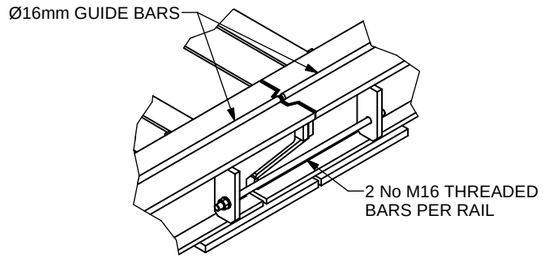
5.6m STANDARD TRACK SECTION



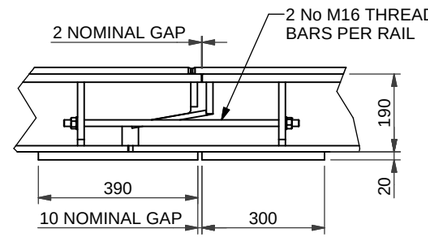
2.8m STANDARD TRACK SECTION



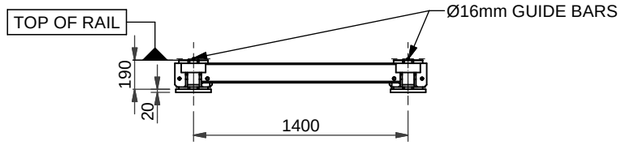
2.8m STANDARD TRACK SECTION



CONNECTIONS DETAILS
BETWEEN RAIL SECTION



DETAIL CONNECTION DETAILS
BETWEEN RAIL SECTIONS
SIDE ELEVATION



TYPICAL END VIEW

THE MAXIMUM WHEEL LOADS AND BEARING PAD LOADS AND PRESSURES TABULATED BELOW ASSUME 5% HORIZONTAL LOAD PLUS 1% SLOPE OF THE TRACK, BOTH AT 45% ORIENTATION.
THE PROJECT SPECIFIC VALUES WILL DEPEND ON THE ACTUAL LOADS TO BE APPLIED TO THE SYSYEM.
SEE OPERATION AND MAINTENANCE MANUAL FOR FURTHER INFORMATION.

DL-TLG200 Standard Track - Maximum Loads		
	Telescopic Cylinder Stage 1	Telescopic Cylinder Stage 2
Maximum Wheel Load on Track	22.3 Tonnes	27.6 Tonnes
Maximum Load on each Bearing Pad	22.9 Tonnes	28.2 Tonnes
Maximum Average Bearing Pressure under each Bearing Pad	3.3 MPa	4.0 MPa
Maximum Peak Bearing Pressure under each Bearing Pad	7.4 MPa	8.7 MPa

NOTES

SPECIFICATION FOR DL-TLG200 STANDARD TRACK SECTIONS

- STANDARD TRACK SECTIONS SUPPLIED IN LENGTHS GIVING EFFECTIVE TRACK LENGTHS OF 5.6m AND 2.8m (OVERALL LENGTHS OF 5,803mm AND 3,003mm)
- STANDARD TRACK SECTIONS SUPPLIED WITH RAILS AT 1.4m CENTRES
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- SEE TABLE FOR MAXIMUM WHEEL LOADS AND BEARING PAD LOADS AND PRESSURES
- OPERATING TEMPERATURE = -20 to +45 °C
- STANDARD TRACK SECTIONS ARE SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS
- WEIGHTS

5.6m LONG
STANDARD TRACK SECTION = 1,210 kg

2.8m LONG
STANDARD TRACK SECTION = 665 kg

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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG200 STANDARD TRACK SECTIONS
GENERAL ARRANGEMENT AND SPECIFICATION

Design Eng:	PD	Checking Eng:	JM
Drawn by:	AW	Project Eng:	SAB

Scales (At A3): AS SHOWN
Drawing Status: INFORMATION
Original Drawing size: A3

Drawing No.: DL-TLG200-004
Rev.: N1

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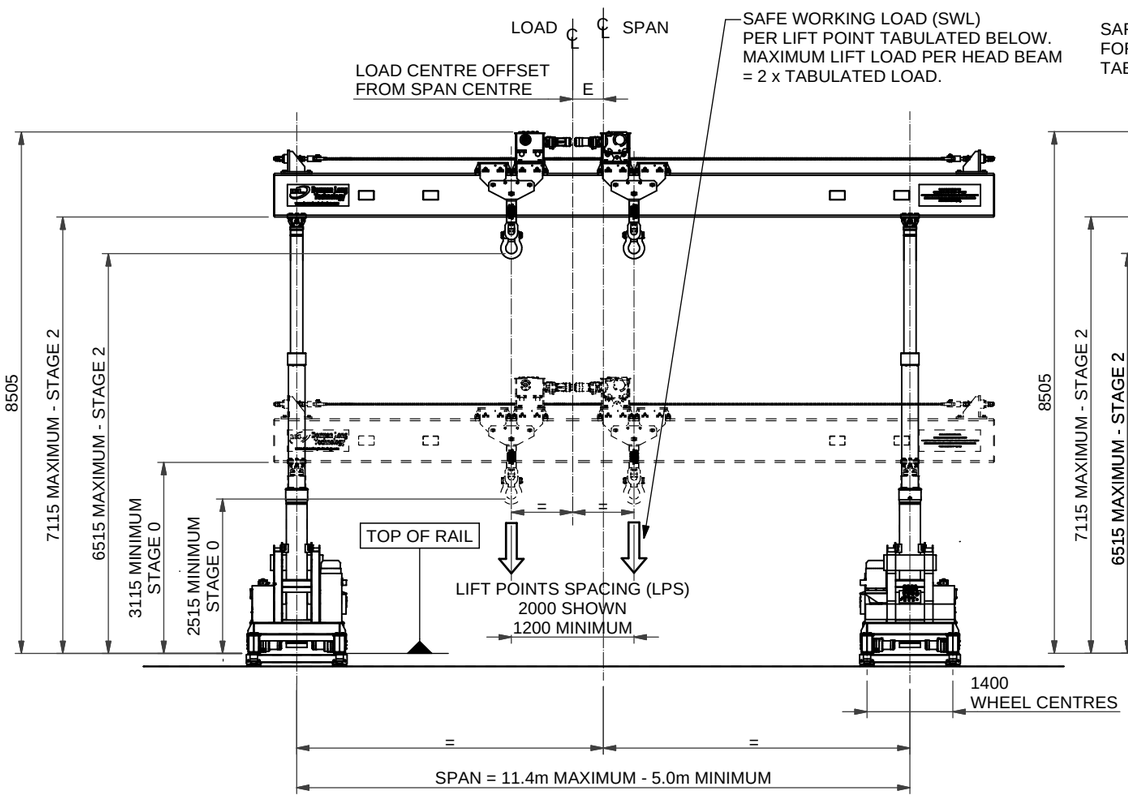
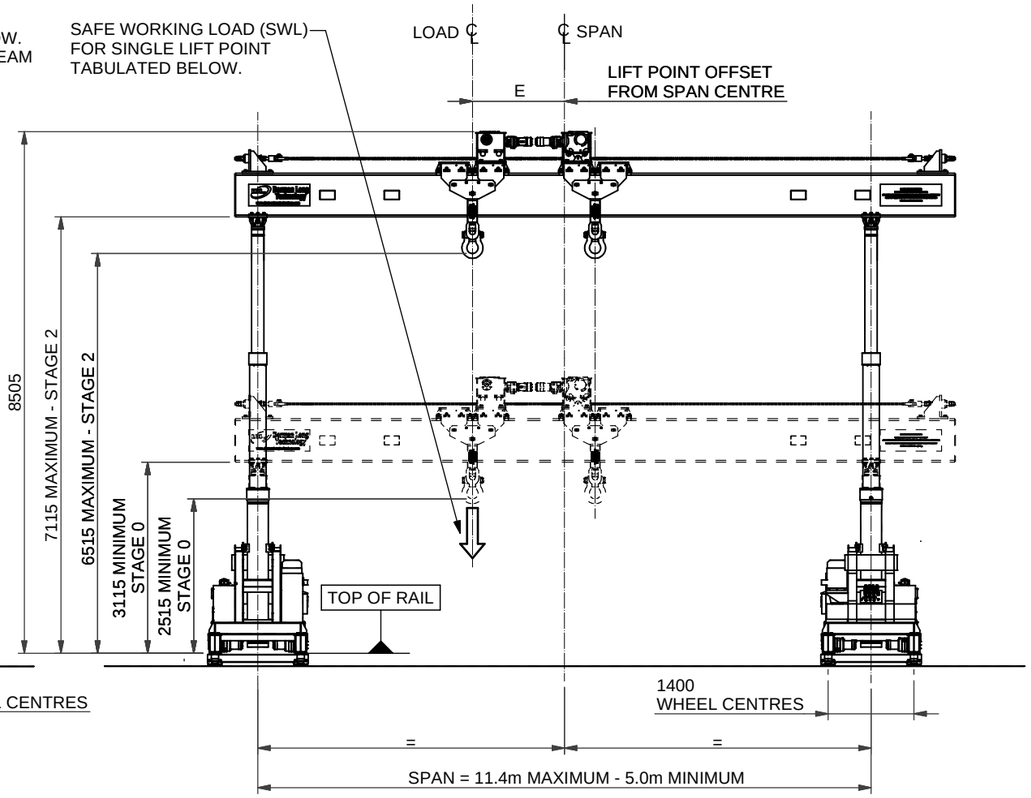
DO NOT SCALE



2 No LIFT POINTS LOADED PER HEAD BEAM
STAGES 0 TO 2 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 3115 TO LEVEL 7115

SAFE WORKING LOAD (SWL) AT SPECIFIED SPAN PER LIFT POINT [TONNES]					
LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
SPAN 11.40m					
1.20	44.0	39.1	33.8	29.7	26.5
2.00 to 9.00	46.2	39.1	33.8	29.7	26.5
SPAN 10.00m					
1.20 to 9.00	46.2	38.2	32.5	28.3	-
SPAN 9.00m					
1.20 to 8.00	46.2	37.5	31.5	27.1	-
SPAN 8.00m					
1.20 to 7.00	46.2	36.6	30.3	-	-
SPAN 7.00m					
1.20 to 6.00	46.2	35.6	28.8	-	-
SPAN 6.00m					
1.20 to 5.00	46.2	34.3	-	-	-
SPAN 5.00m					
1.20 to 4.00	46.2	-	-	-	-



SINGLE LIFT POINT LOADED PER HEAD BEAM
STAGES 0 TO 2 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 3115 TO LEVEL 7115

SAFE WORKING LOAD (SWL) AT SPECIFIED SPAN PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED					
SPAN [m]	LIFT POINT OFFSET E[m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
11.40	50.0	50.0	50.0	50.0	50.0
10.00	50.0	50.0	50.0	50.0	50.0
9.00	50.0	50.0	50.0	50.0	48.9
8.00	50.0	50.0	50.0	50.0	-
7.00	50.0	50.0	50.0	49.7	-
6.00	50.0	50.0	50.0	-	-
5.00	50.0	50.0	-	-	-

INTERPOLATION BETWEEN TABULATED VALUES PERMISSABLE
SEE ALSO OPERATION AND MAINTENANCE MANUAL

NOTES

DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG200 COMPONENTS WITH DL-TLG200 HEAD BEAM
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- DL-TLG200 STANDARD TRACK SECTIONS USED
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM

IF THE DL-TL200 TELESCOPIC LIFTING GANTRY IS TO BE USED IN A CONFIGURATION NOT SHOWN ON THIS DRAWING, CONTACT DLT ENGINEERING FOR SPECIFIC SAFE WORKING LOADS AND ANY SPECIAL CONDITIONS THAT MAY APPLY

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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

Drawing Title
LIFTING ARRANGEMENT AND DUTY CHARTS
2 No. LIFT POINTS LOADED PER HEAD BEAM
SINGLE LIFT POINT LOADED PER HEAD BEAM

Design Eng: JM	Checking Eng: PD
Drawn by: AW	Project Eng: SAB

Scales (At A3): AS SHOWN
Drawing Status: INFORMATION
Original Drawing size: A3

Drawing No.: DL-TLG200-005
Rev.: N1

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