

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

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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

2 No DL-TLG200 POWERED TROLLEYS PER HEAD BEAM WITH CHAIN DRIVE FOR SECURE LATERAL MOVEMENT. SAFE WORKING LOAD 50 TONNES PER UNIT SEE DRG DL-TLG200-003-01

DL-TLG200 HEAD BEAM TO SUIT TRACK CENTRES UP TO 11.4m SEE DRGS DL-TLG200-003-01 & 02

POWER AND CONTROL CABLES TO DL-TLG200 LIFTING UNITS (BY DLT)

CENTRAL CONTROL UNIT (BY DLT) COMPRISING POWER DISTRIBUTION CABINET AND PLC CABINET

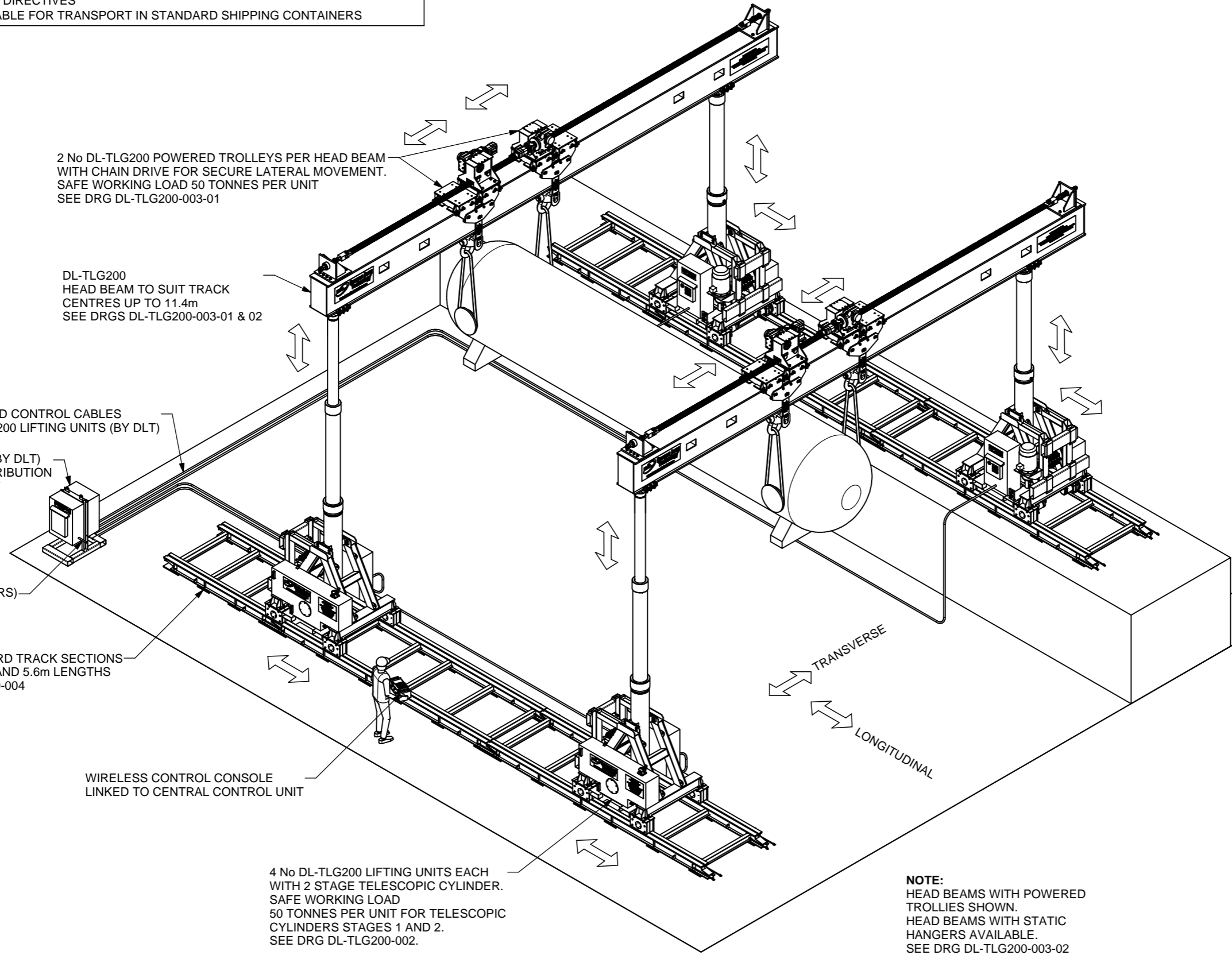
POWER IN (BY OTHERS) 28kW MAX RUNNING

DL-TLG200 STANDARD TRACK SECTIONS AVAILABLE IN 2.8m AND 5.6m LENGTHS SEE DRG DL-TLG200-004

WIRELESS CONTROL CONSOLE LINKED TO CENTRAL CONTROL UNIT

4 No DL-TLG200 LIFTING UNITS EACH WITH 2 STAGE TELESCOPIC CYLINDER. SAFE WORKING LOAD 50 TONNES PER UNIT FOR TELESCOPIC CYLINDERS STAGES 1 AND 2. SEE DRG DL-TLG200-002.

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



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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

Drawing Title
4 POINT TELESCOPIC LIFTING GANTRY
GENERAL ARRANGEMENT & SPECIFICATION

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

Scales (At A3) NTS
 Drawing Status
INFORMATION

Original Drawing size: A3
 Drawing No. **DL-TLG200-001** Rev. **D**

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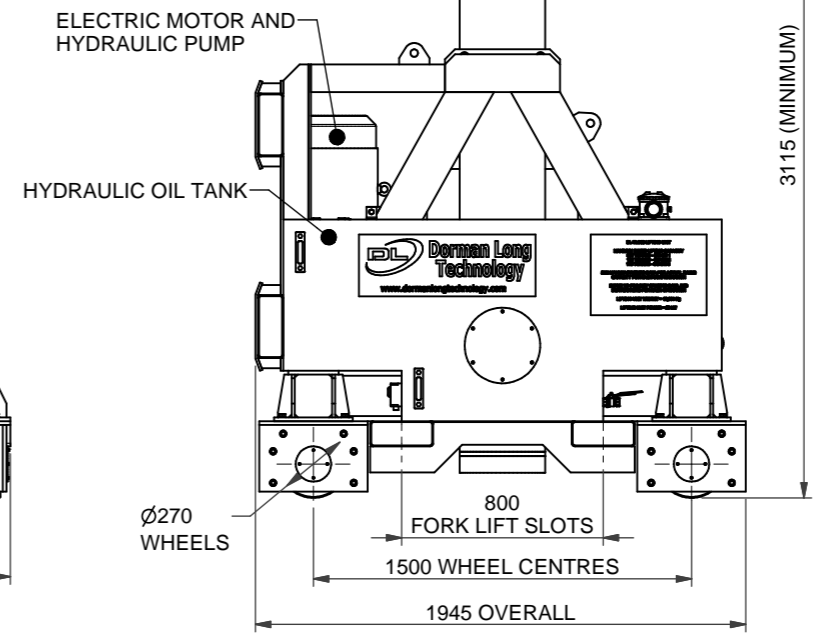
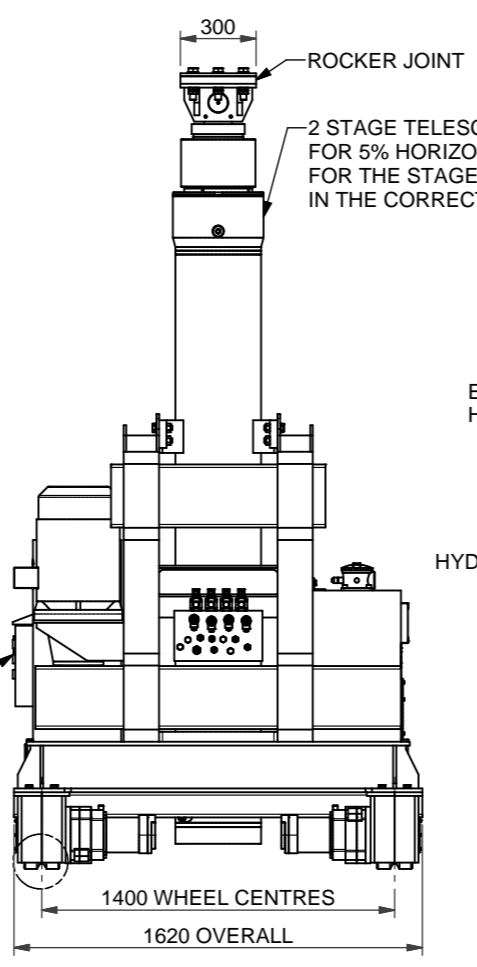
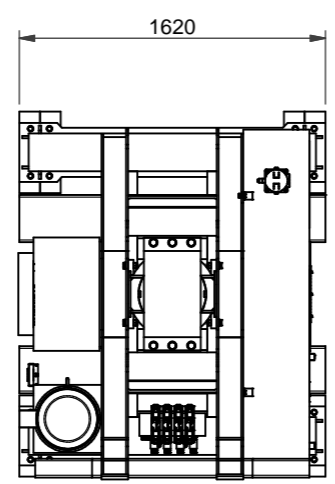
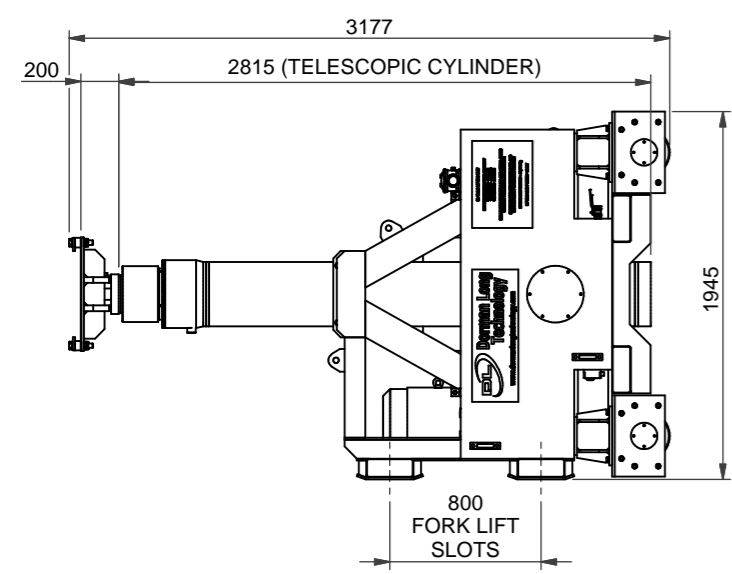
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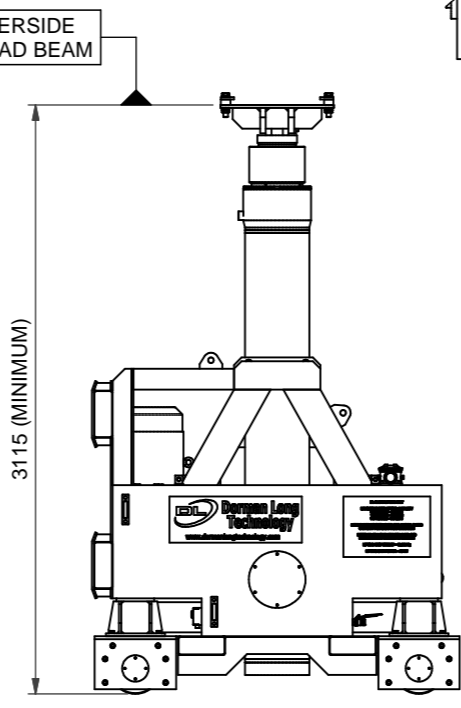
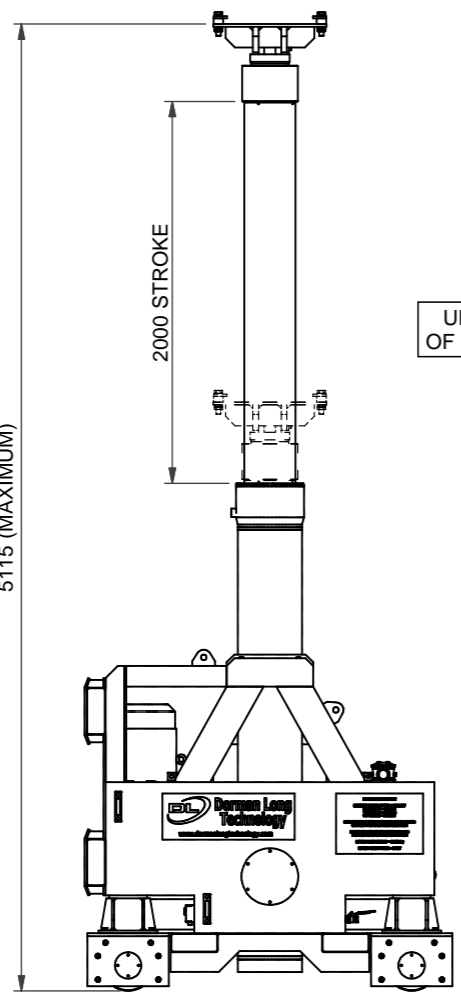
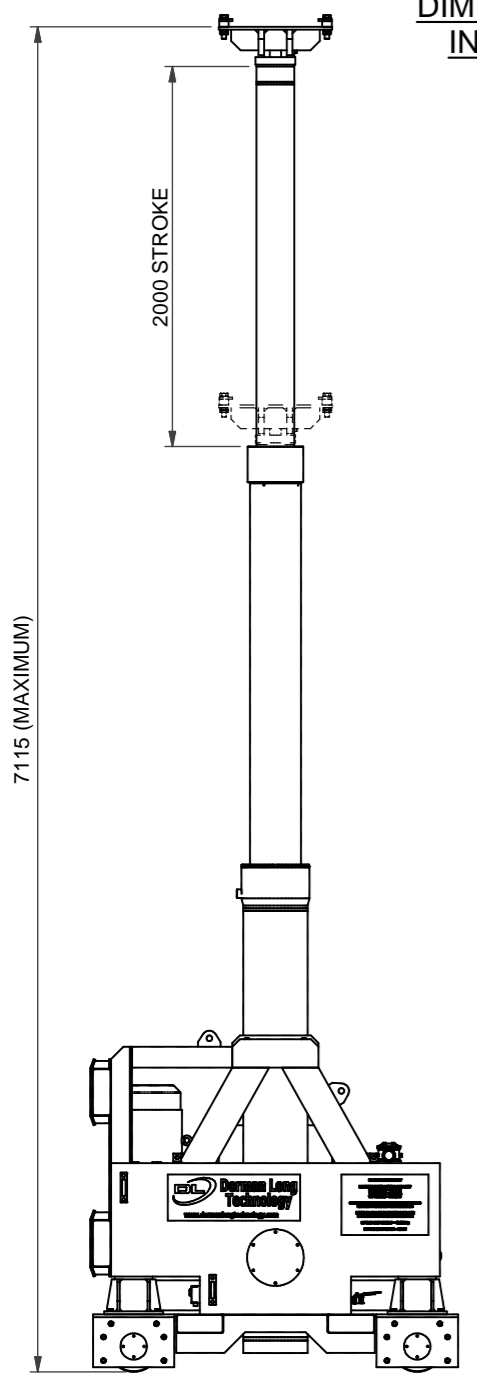
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NOTES

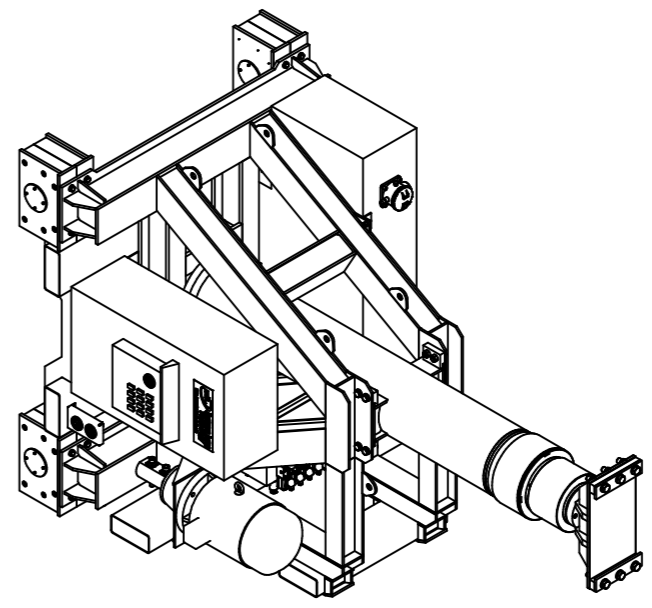
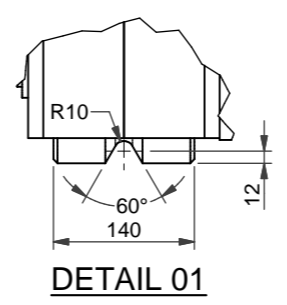
- SPECIFICATION FOR DL-TLG200 TELESCOPIC LIFTING UNIT**
- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDER
 - STAGE 1 = 50 TONNES @ 75 BAR WORKING PRESSURE
 - STAGE 2 = 50 TONNES @ 130 BAR WORKING PRESSURE
 - SEE DRAWING DL-TLG200-005 FOR DETAILS OF LIFTING ARRANGEMENTS AND DUTY CHARTS
 - 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% HORIZONTAL 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



DIMENSIONS FOR TRANSPORT IN A SHIPPING CONTAINER



DIMENSIONS FOR OPERATION



UNIT LAID ON END FOR TRANSPORT IN A SHIPPING CONTAINER

STAGE 2
CAPACITY: 50 TONNES (EACH UNIT)
MAX % TIPPING = 65%

STAGE 1
CAPACITY: 50 TONNES (EACH UNIT)
MAX % TIPPING = 39%

STAGE 0

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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) NTS
Original Drawing size: A3

Drawing No.	Rev.
DL-TLG200-002	C

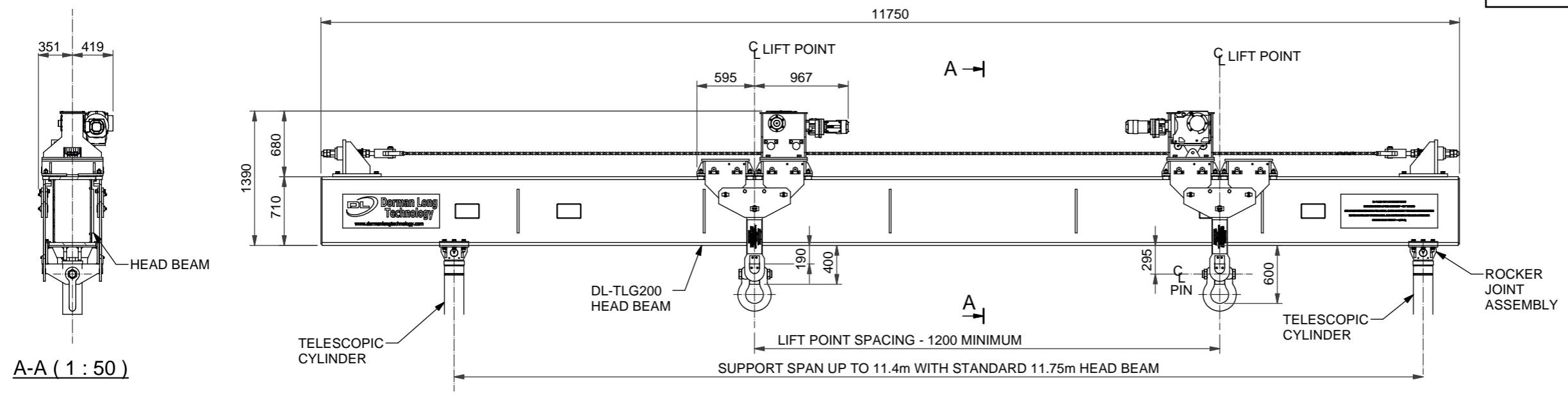
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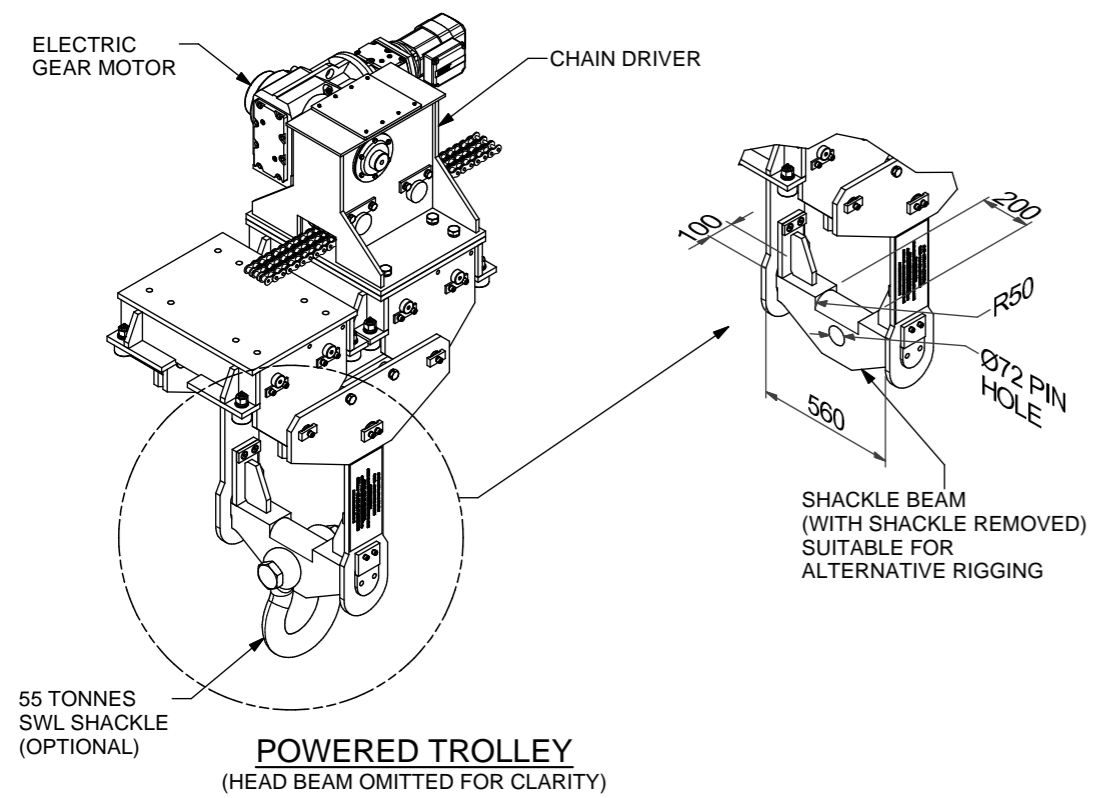
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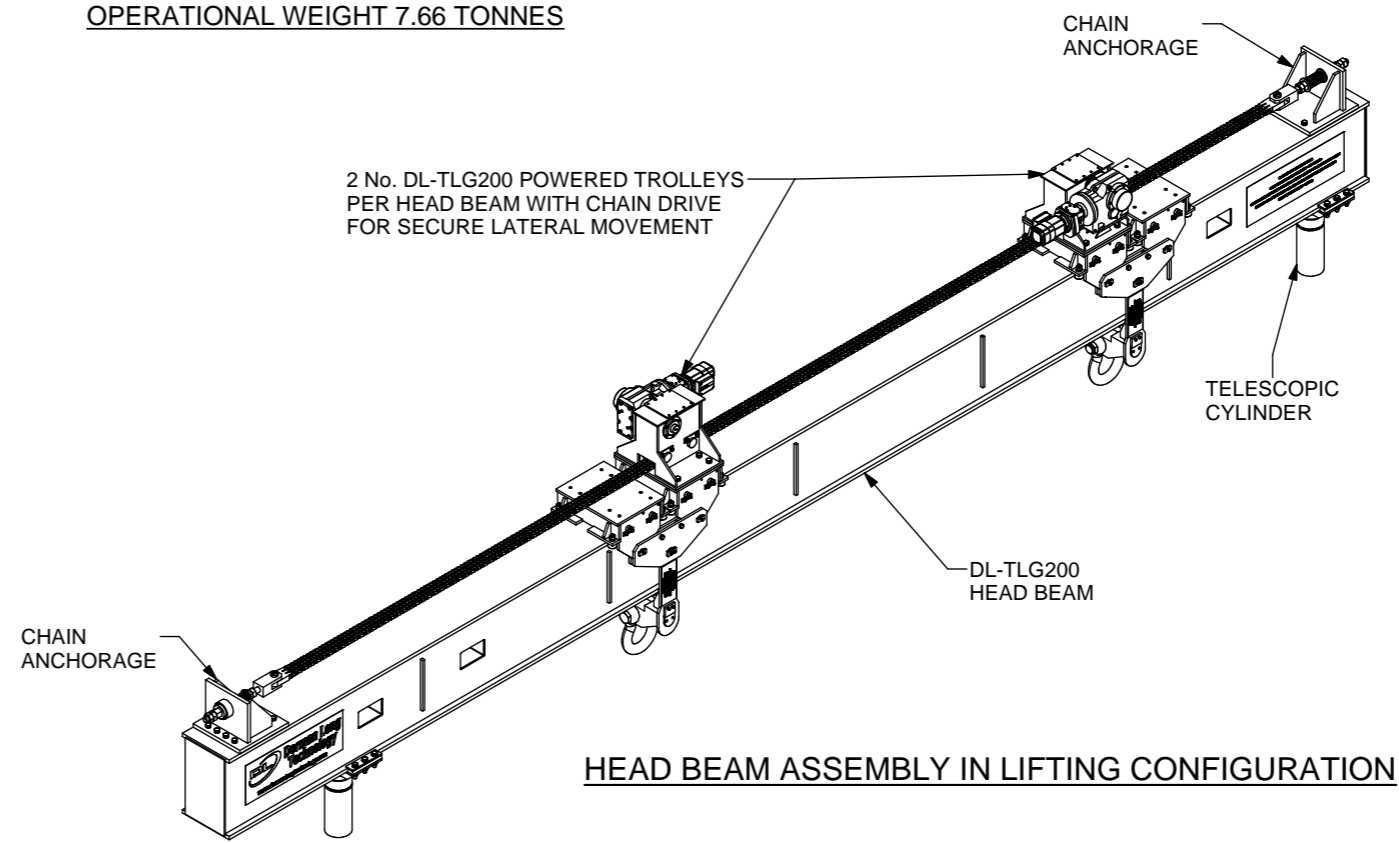
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HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)
OPERATIONAL WEIGHT 7.66 TONNES



POWERED TROLLEY
(HEAD BEAM OMITTED FOR CLARITY)

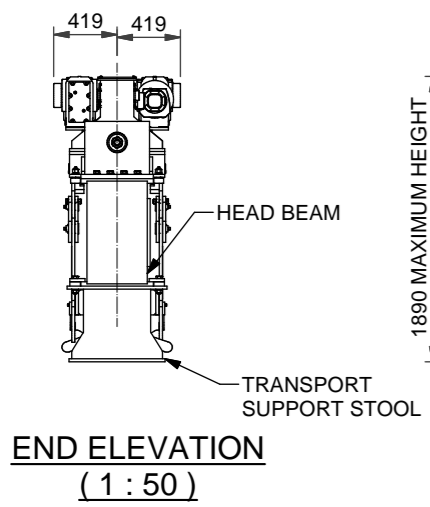


HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION

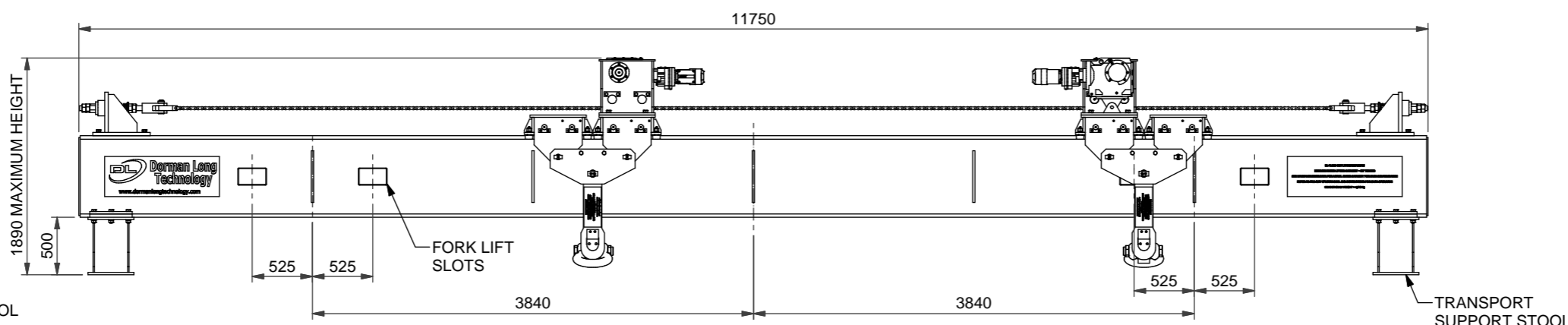
NOTES

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 |



END ELEVATION
(1 : 50)



HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION (1 : 50)
TRANSPORT WEIGHT 8.01 TONNES

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Project
DL-TLG200
TELESCOPIC LIFTING GANTRY

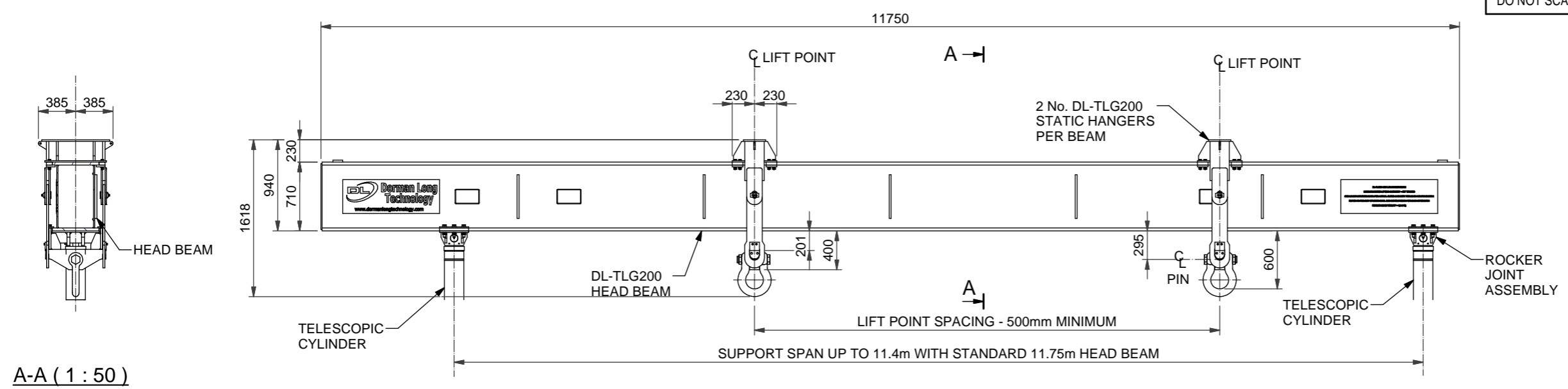
Drawing Title
DL-TLG200 HEAD BEAM AND
DL-TLG200 POWERED TROLLEYS
GENERAL ARRANGEMENT AND SPECIFICATION

	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-TLG200-003-01** Rev. **A**

DO NOT SCALE

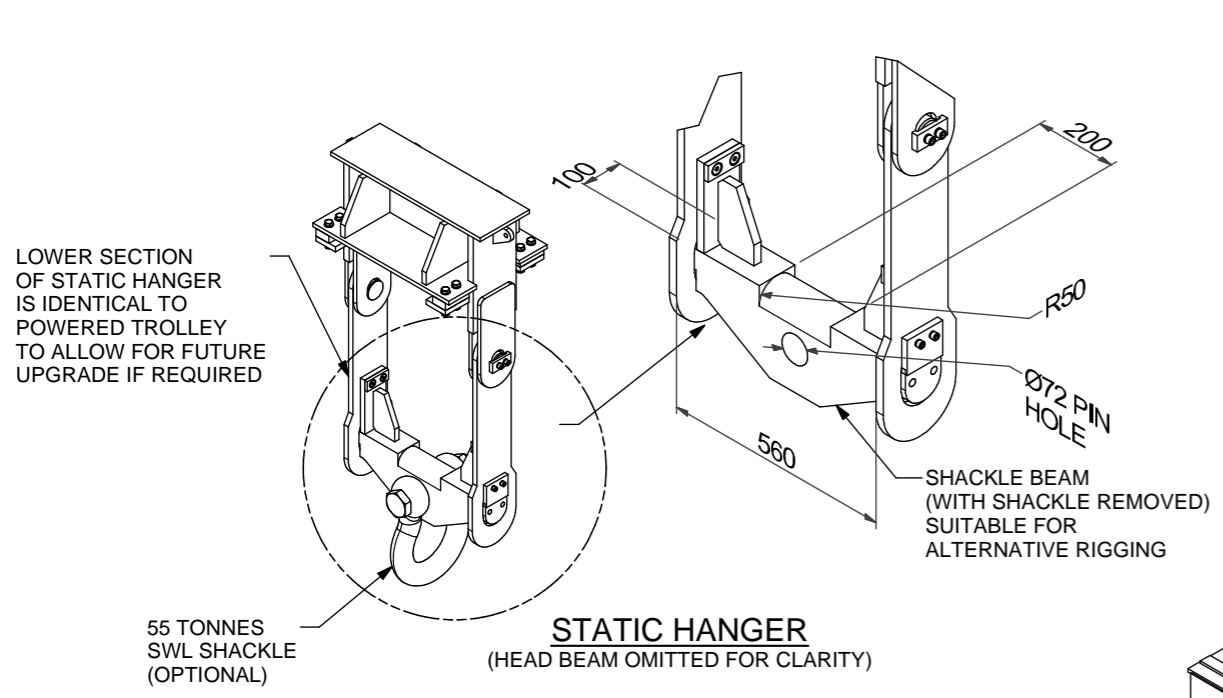
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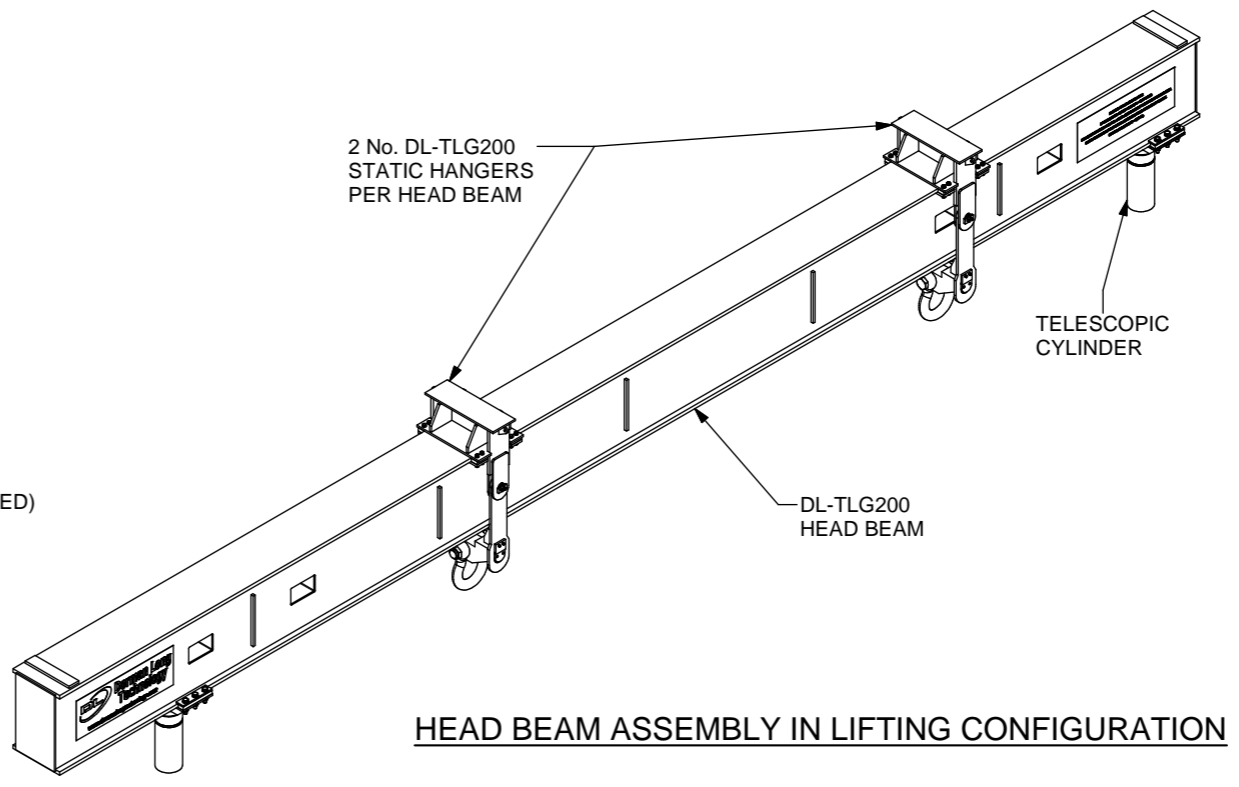
A-A (1 : 50)

HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)
 OPERATIONAL WEIGHT 5.07 TONNES

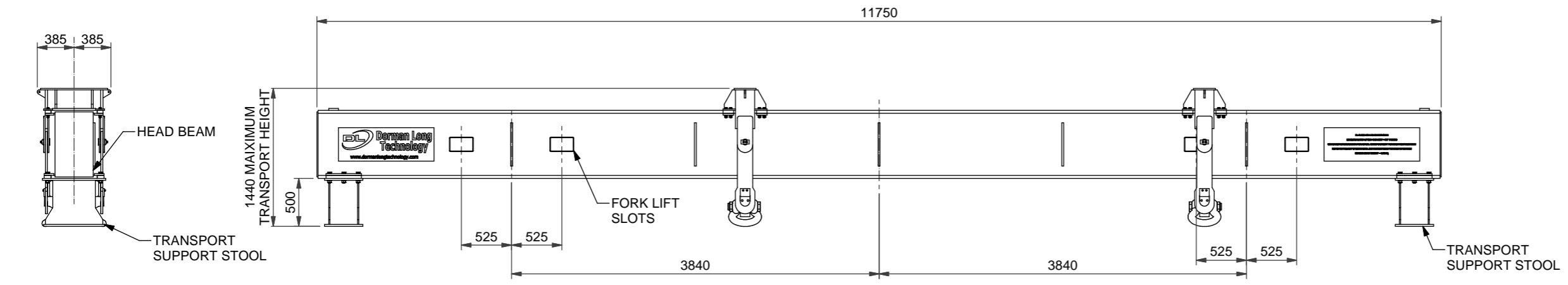
- NOTES**
- SPECIFICATION**
DL-TLG200 HEAD BEAM AND DL-TLG200 STATIC HANGERS
- MAXIMUM SAFE WORKING LOAD (SWL) = 50 TONNES PER LIFT POINT = 94 TONNES PER HEAD BEAM SEE DRAWING DL-TLG200-005 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
 - MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION.
 - 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



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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Project
DL-TLG200 TELESCOPIC LIFTING GANTRY

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

Scales (At A3) AS SHOWN	Design Eng: JM	Checking Eng: PD
	Drawn by: SG	Project Eng: SAB

Original Drawing size: A3
INFORMATION

Drawing No. DL-TLG200-003-02	Rev. B
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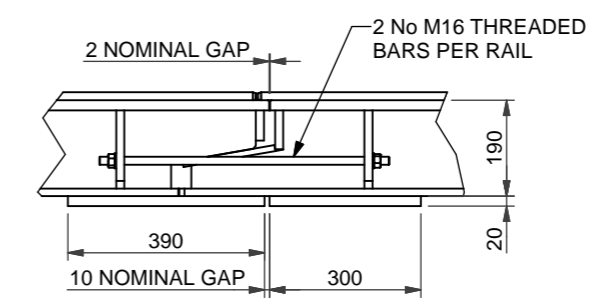
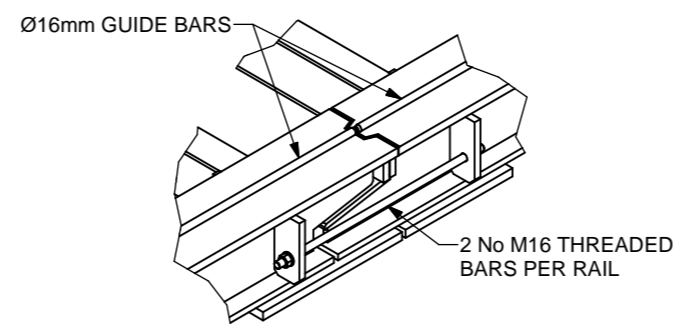
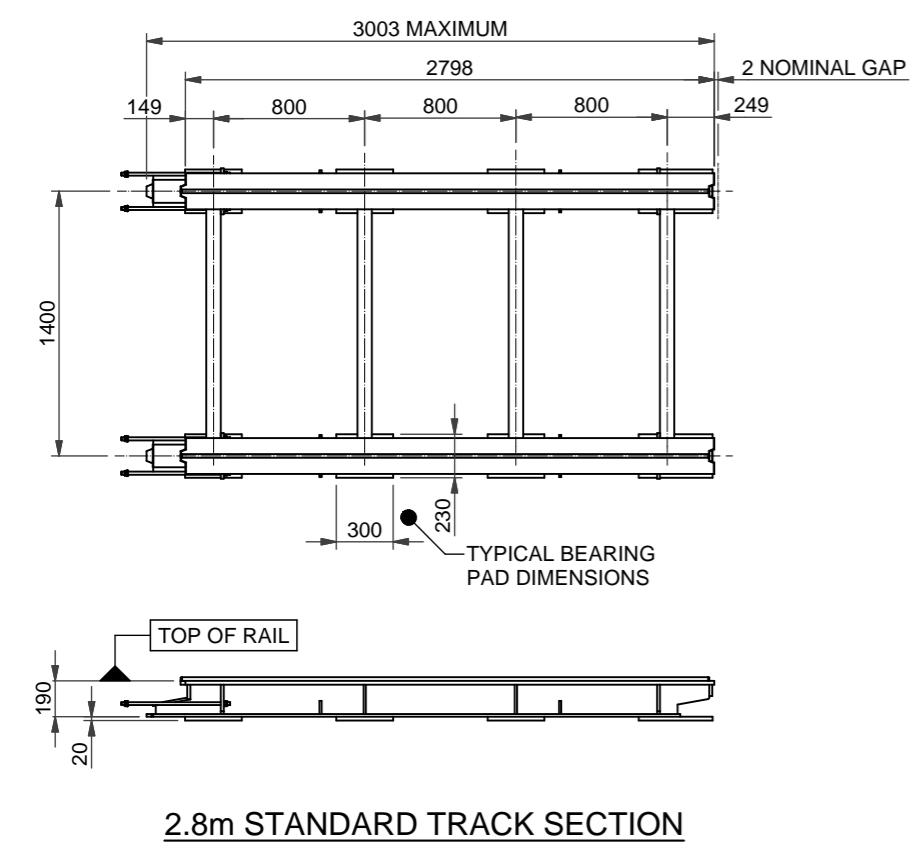
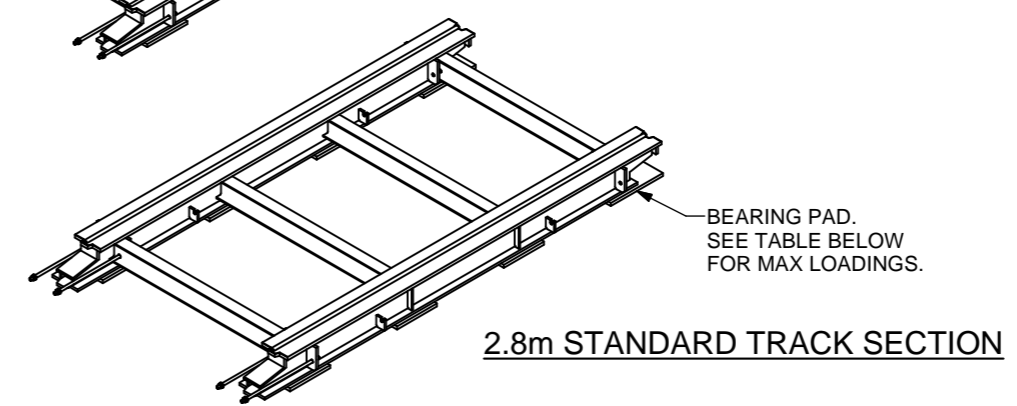
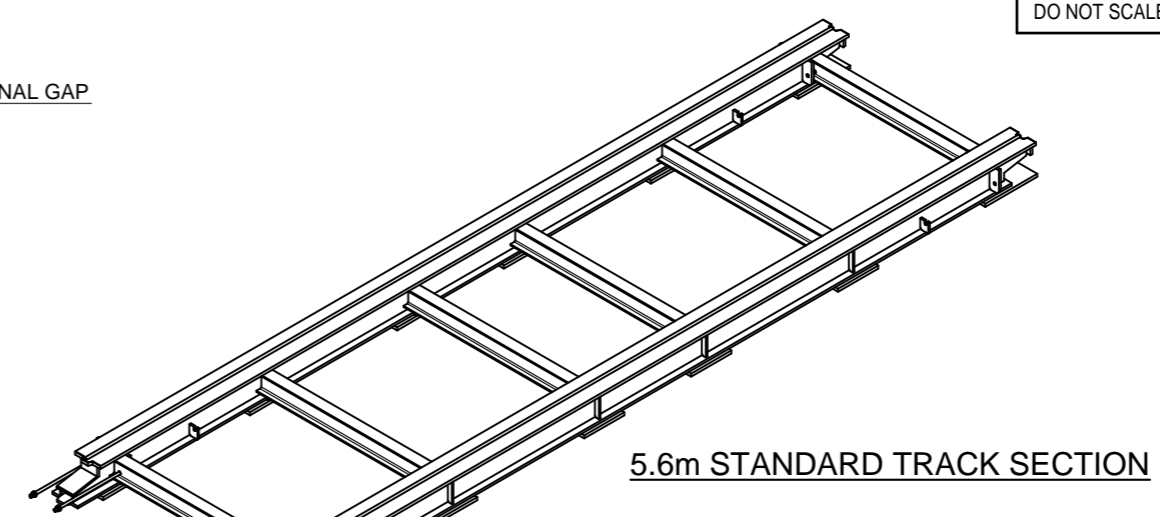
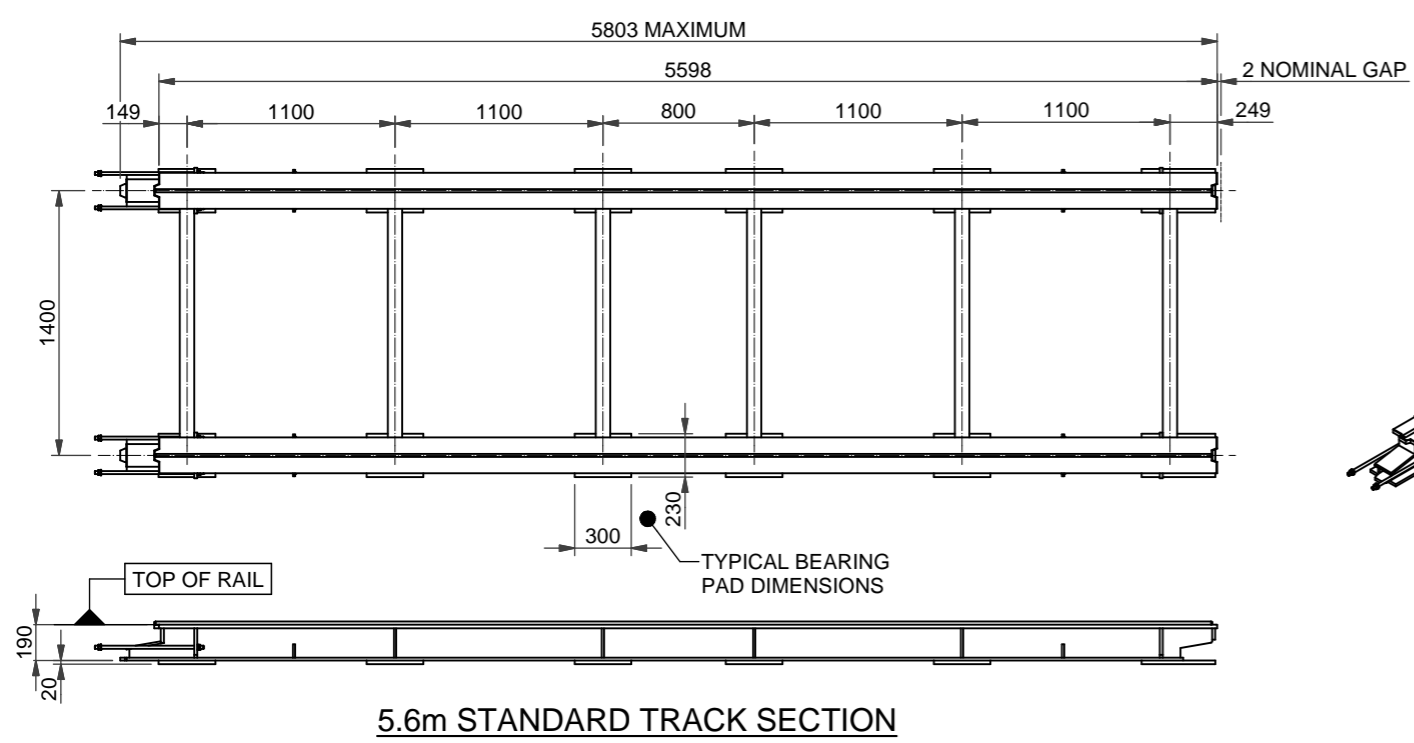
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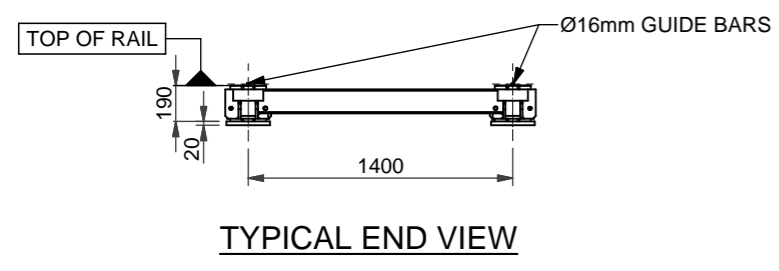
SPECIFICATION FOR DL-TLG200 STANDARD TRACK SECTIONS

- 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



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 SYSTEM. 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



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Project
 DL-TLG200
 TELESCOPIC LIFTING GANTRY

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

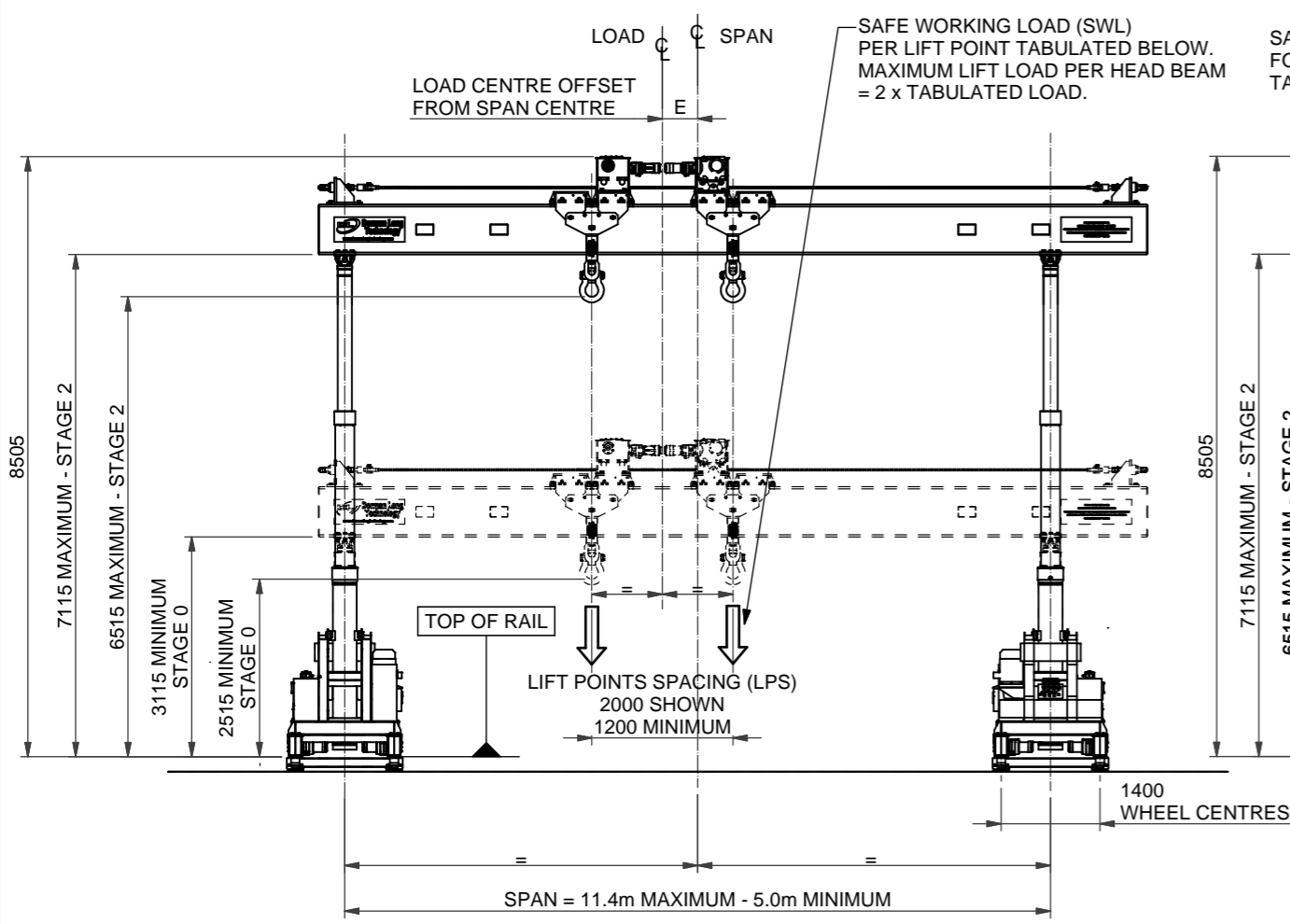
Design Eng: PD Checking Eng: JM
 Drawn by: AW Project Eng: SAB

Scales (At A3) NTS
 Drawing Status
INFORMATION

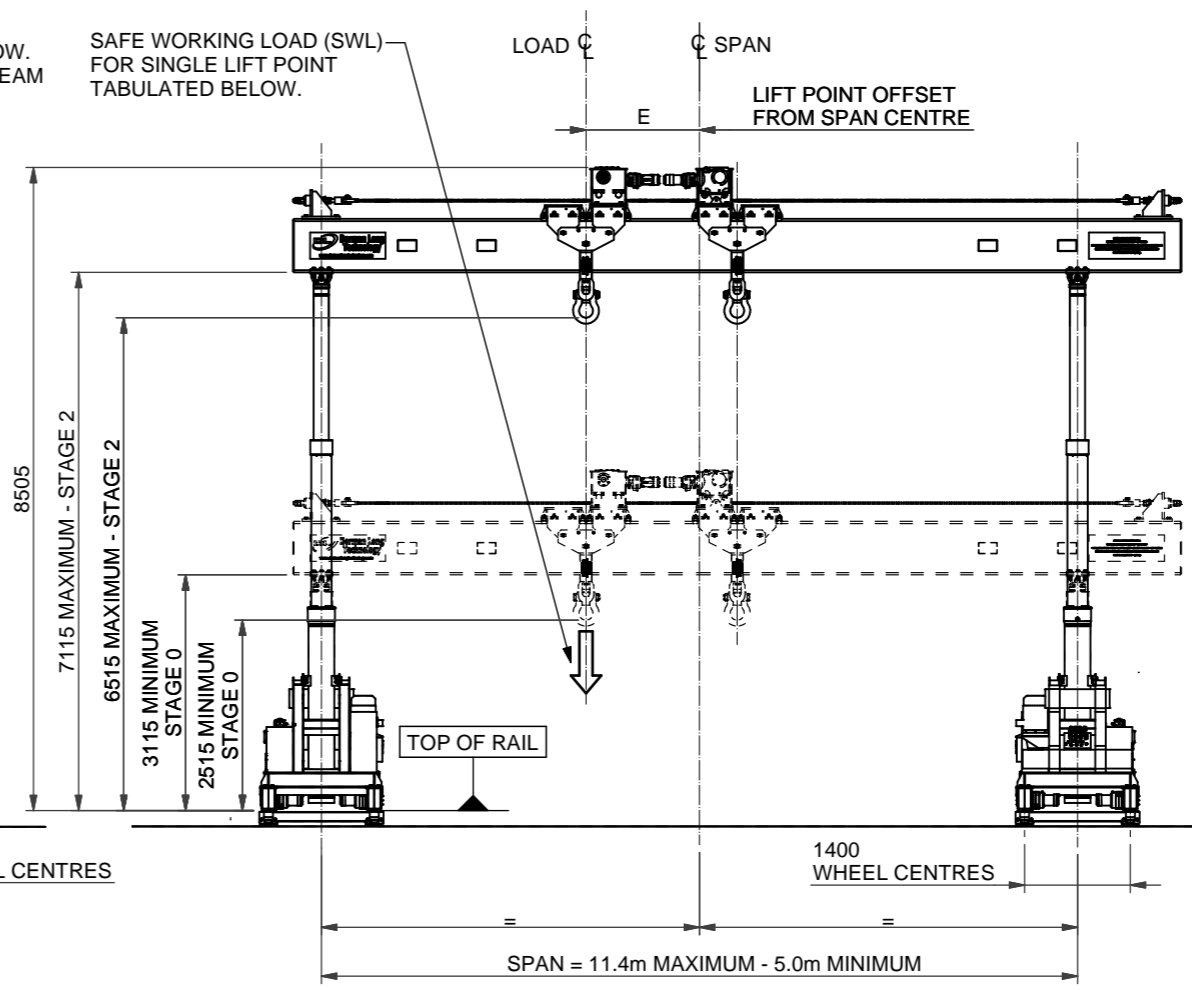
Original Drawing size: A3
 Drawing No. DL-TLG200-004 Rev. C

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



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

- 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 DORMAN LONG TECHNOLOGY FOR SPECIFIC SAFE WORKING LOADS AND ANY SPECIAL CONDITIONS THAT MAY APPLY

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	-	-	-	-

SAFE WORKING LOAD (SWL) AT SPECIFIED SPAN PER LIFT POINT [TONNES]					
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

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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) NTS
 Original Drawing size: A3
INFORMATION

Drawing No. DL-TLG200-005	Rev. C
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