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NOTES

SPECIFICATION FOR DL-TLG400, 4-POINT LIFT SYSTEM

• MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDERS
STAGE 1 = 400 TONNES @ 83 BAR WORKING PRESSURE
STAGE 2 = 400 TONNES @ 120 BAR WORKING PRESSURE
STAGE 3 = 280 TONNES @ 120 BAR WORKING PRESSURE
SEE DRAWINGS DL-TLG400-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS

• STATIC TEST LOAD = 1.25 x SWL + MAXIMUM HORIZONTAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR EACH TELESCOPIC CYLINDER STAGE)
• DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR EACH TELESCOPIC CYLINDER STAGE 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 = 53 TONNES

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

• LONGITUDINAL MOVEMENT SPEED OF DL-TLG400 LIFTING UNITS = 3.0 m/minute (FAST) AND 1.0 m/minute (SLOW)

• TRANSVERSE MOVEMENT SPEED OF DL-TLG400 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 = 10 kW RUNNING PER DL-TLG400 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-TLG400 LIFTING UNIT

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

• ALL COMPONENTS OF DL-TLG400 SYSTEM SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

MAIN FEATURES

- 400 TONNES LIFTING CAPACITY ON FOUR LIFTING UNITS
- 100 TONNES LIFTING CAPACITY PER LIFTING UNIT
- HIGH HORIZONTAL LOAD CAPACITY
- ADJUSTABLE TRACK WIDTH FOR INCREASED STABILITY
- 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-TLG400 SYSTEM CE MARKED IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- ALL COMPONENTS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

2 No. DL-TLG400 POWERED TROLLEYS PER HEAD BEAM WITH CHAIN DRIVE FOR SECURE LATERAL MOVEMENT. SAFE WORKING LOAD 100 TONNES PER UNIT SEE DRG DL-TLG400-003-01

DL-TLG400 HEAD BEAM TO SUIT TRACK CENTRES UP TO 11.3m SEE DRGS DL-TLG400-003-01 & 02

POWER AND CONTROL CABLES TO DL-TLG400 LIFTING UNITS (BY DLT)

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

POWER IN (BY OTHERS) 40 kW MAX RUNNING

DL-TLG400 STANDARD TRACK SECTIONS AVAILABLE IN 2.8m AND 5.6m LENGTHS SEE DRG DL-TLG400-004

WIRELESS CONTROL CONSOLE LINKED TO CENTRAL CONTROL UNIT

4 No. DL-TLG400 LIFTING UNITS EACH WITH 3 STAGE TELESCOPIC CYLINDER. SAFE WORKING LOAD 100, 100 AND 70 TONNES PER UNIT FOR TELESCOPIC CYLINDER STAGES 1, 2 AND 3 SEE DRG DL-TLG400-002

NOTE: HEAD BEAMS WITH POWERED TROLLEYS SHOWN. HEAD BEAMS WITH STATIC HANGERS AVAILABLE. SEE DRG DL-TLG400-003-02

TRANSVERSE
LONGITUDINAL



Dorman Long Technology
The Charles Parker Building
Midland Road, Higham Ferrers
Northamptonshire, NN10 8DN
United Kingdom
Tel: +44 (0) 1933 319133
Fax: +44 (0) 1933 319135
www.dormanlongtechnology.com

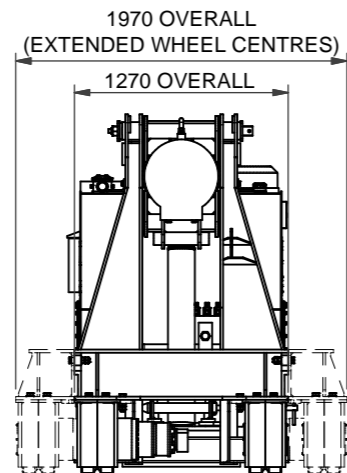
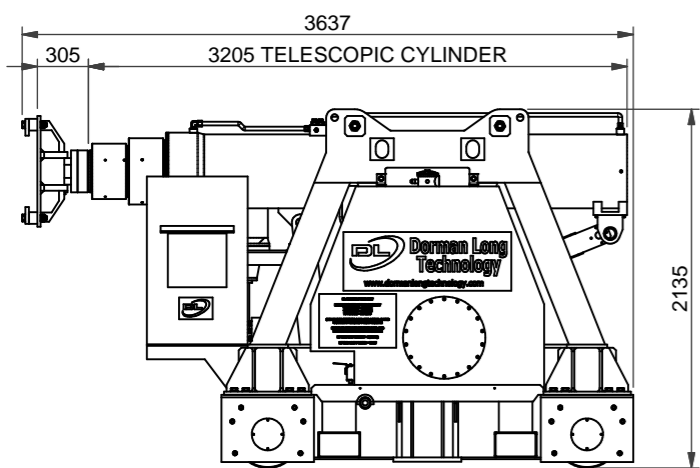
Project
DL-TLG400
TELESCOPIC LIFTING GANTRY

Drawing Title
4-POINT TELESCOPIC LIFTING GANTRY
GENERAL ARRANGEMENT AND SPECIFICATION

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

Original Drawing size: A3
Drawing Status
INFORMATION

Drawing No. DL-TLG400-001	Rev. F
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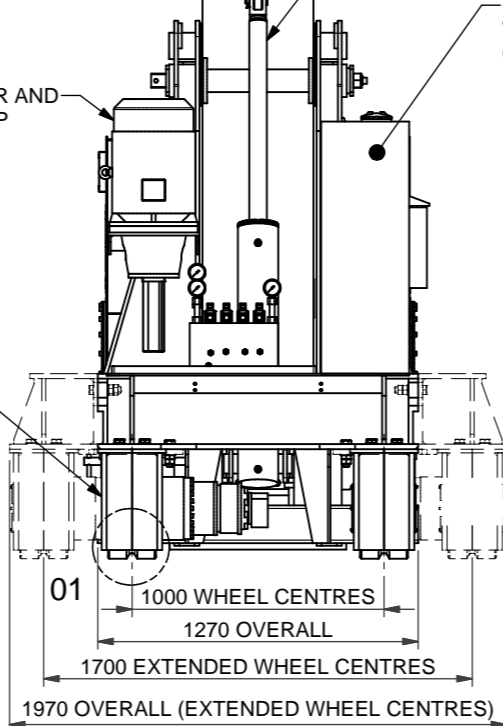
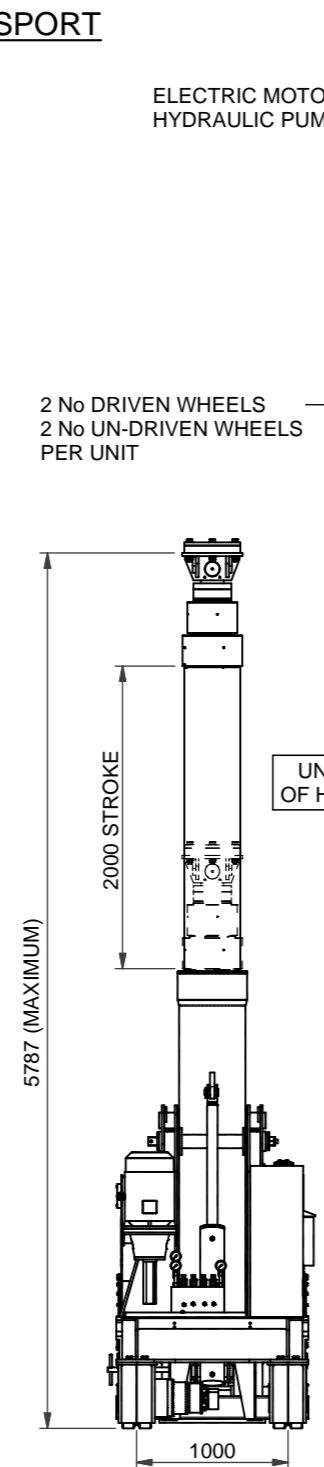
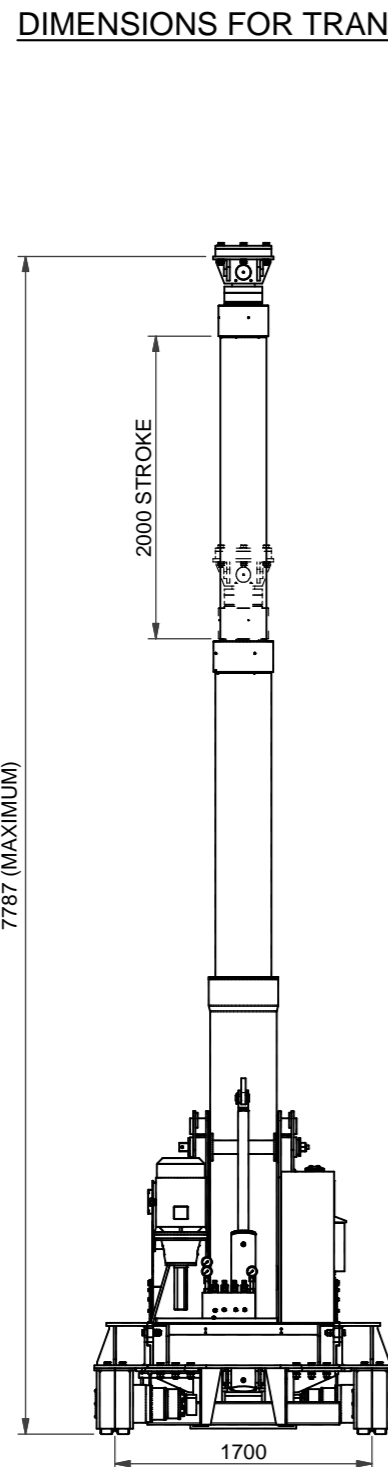
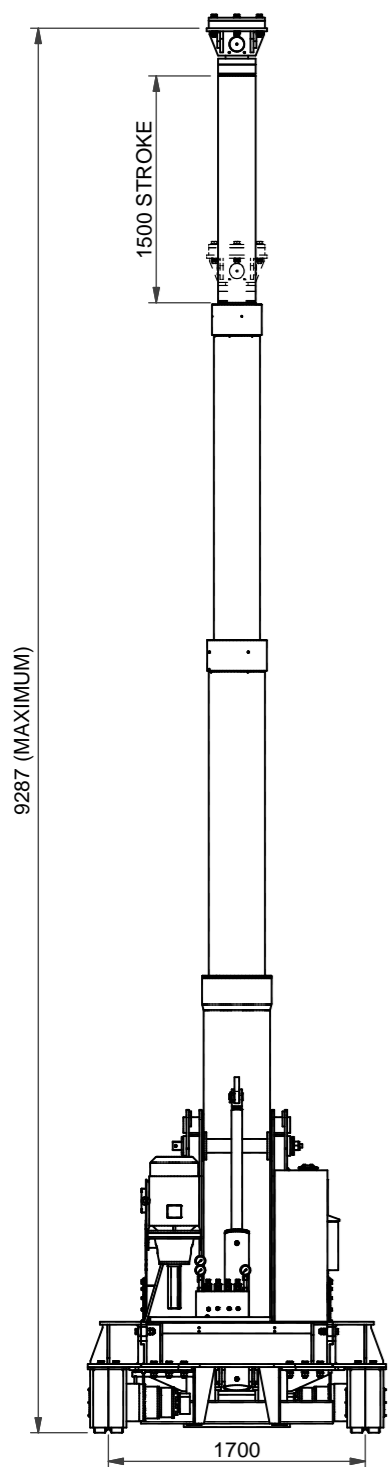
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NOTES
SPECIFICATION FOR DL-TLG400 TELESCOPIC LIFTING UNIT

- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDER
STAGE 1 = 100 TONNES @ 83 BAR WORKING PRESSURE
STAGE 2 = 100 TONNES @ 120 BAR WORKING PRESSURE
STAGE 3 = 70 TONNES @ 120 BAR WORKING PRESSURE
SEE DRAWINGS DL-TLG400-005-01 AND 02 FOR DETAILS OF LIFTING ARRANGEMENTS AND DUTY CHARTS
- TELESCOPIC CYLINDER WORKING PRESSURE ON RETRACT = 70 BAR
- STATIC TEST LOAD = 1.25 x SWL + MAXIMUM LATERAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR EACH TELESCOPIC CYLINDER STAGE)
- DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR EACH TELESCOPIC CYLINDER STAGE 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, 2 AND 3 ASSUME 5% LATERAL LOAD AT THE ROCKER JOINT PLUS 1% TRANSVERSE SLOPE OF THE TRACK
- MAXIMUM WHEEL LOAD = 53 TONNES
- LIFTING AND LOWERING SPEED OF TELESCOPIC CYLINDER = 0.5 m/minute (FAST) AND 0.1 m/minute (SLOW) - CONSTANT FOR ALL TELESCOPIC CYLINDER STAGES
- LONGITUDINAL MOVEMENT SPEED OF DL-TLG400 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 = 10 kW RUNNING PER DL-TLG400 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-TLG400 LIFTING UNIT
- OPERATING TEMPERATURE = -20 TO +45 °C
SUBJECT TO HYDRAULIC OIL GRADE USED
- TELESCOPIC CYLINDER FOLDS AS SHOWN SO THAT COMPLETE DL-TLG400 LIFTING UNIT (WITH BOGIE EXTENSION PIECES) IS SUITABLE FOR TRANSPORT IN A STANDARD SHIPPING CONTAINER
- WEIGHTS
BASE UNIT - STEEL FRAME AND PINS = 2,645 kg
BASE UNIT - DRIVEN BOGIES (2 x 425 kg) = 850 kg
BASE UNIT - UN-DRIVEN BOGIES (2 x 265 kg) = 530 kg
BASE UNIT - OTHER EQUIPMENT = 800 kg
TELESCOPIC CYLINDER = 2,670 kg
ROCKER JOINT ASSEMBLY = 205 kg
HYDRAULIC OIL = 650 kg
TOTAL = 8,350 kg
- HYDRAULIC OIL TANK SIZE = 2 x 350 litres = 700 litres

DIMENSIONS FOR TRANSPORT



DIMENSIONS FOR OPERATION

ELECTRIC MOTOR AND HYDRAULIC PUMP

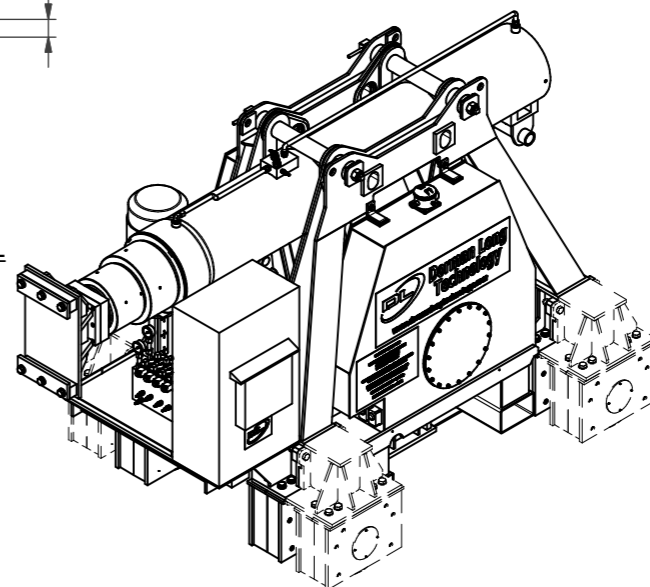
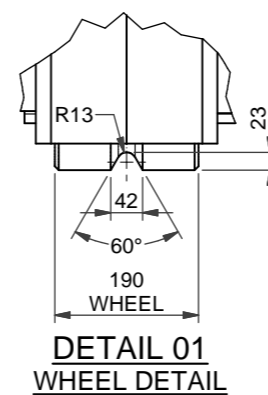
TURNING RAM TO CHANGE BETWEEN TRANSPORT AND OPERATING CONFIGURATIONS

ELECTRIC CABINET WITH LOCAL CONTROL PANEL

2 No HYDRAULIC OIL TANKS

2 No DRIVEN WHEELS
2 No UN-DRIVEN WHEELS PER UNIT

UNDERSIDE OF HEAD BEAM



UNIT FOLDED FOR TRANSPORT

STAGE 3
CAPACITY: 70 Tonnes (EACH UNIT)
MAX % TIPPING = 61%

STAGE 2
CAPACITY: 100 Tonnes (EACH UNIT)
MAX % TIPPING = 50%

STAGE 1
CAPACITY: 100 Tonnes (EACH UNIT)
MAX % TIPPING = 61%

STAGE 0

Dorman Long Technology
The Charles Parker Building
Midland Road, Higham Ferrers
Northamptonshire, NN10 8DN
United Kingdom
Tel: +44 (0) 1933 319133
Fax: +44 (0) 1933 319135
www.dormanlongtechnology.com

Project
**DL-TLG400
TELESCOPIC LIFTING GANTRY**

Drawing Title
**DL-TLG400 TELESCOPIC LIFTING UNIT
GENERAL ARRANGEMENT
AND SPECIFICATION**

Scales (At A3) NTS	Design Eng: PD	Checking Eng: JM
	Drawn by: AW	Project Eng: SAB

INFORMATION

Original Drawing size: A3
Drawing No.
DL-TLG400-002

Rev.
E

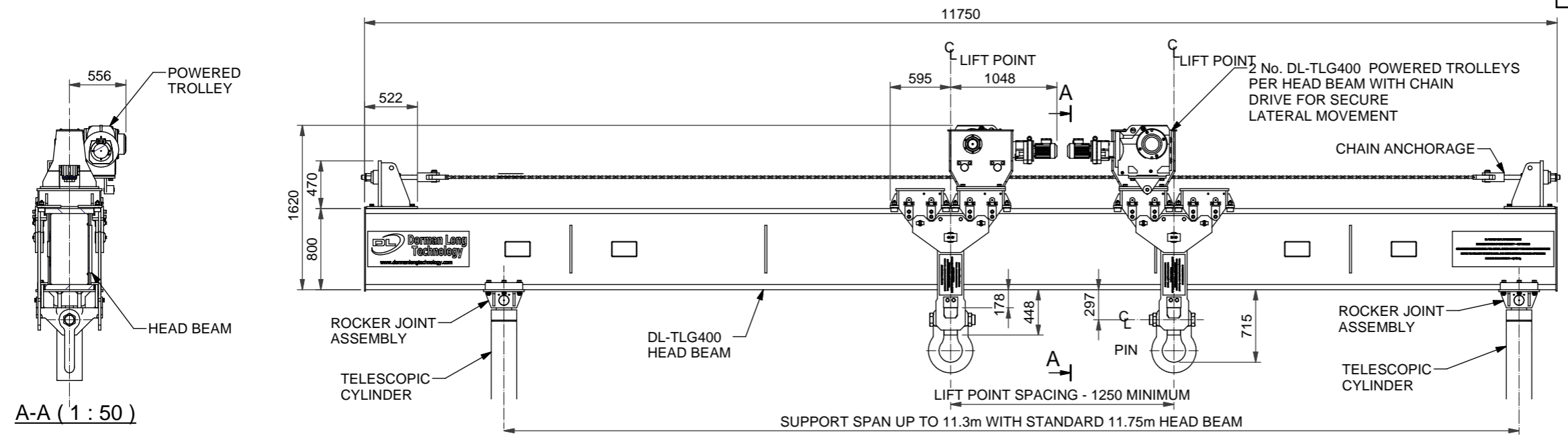
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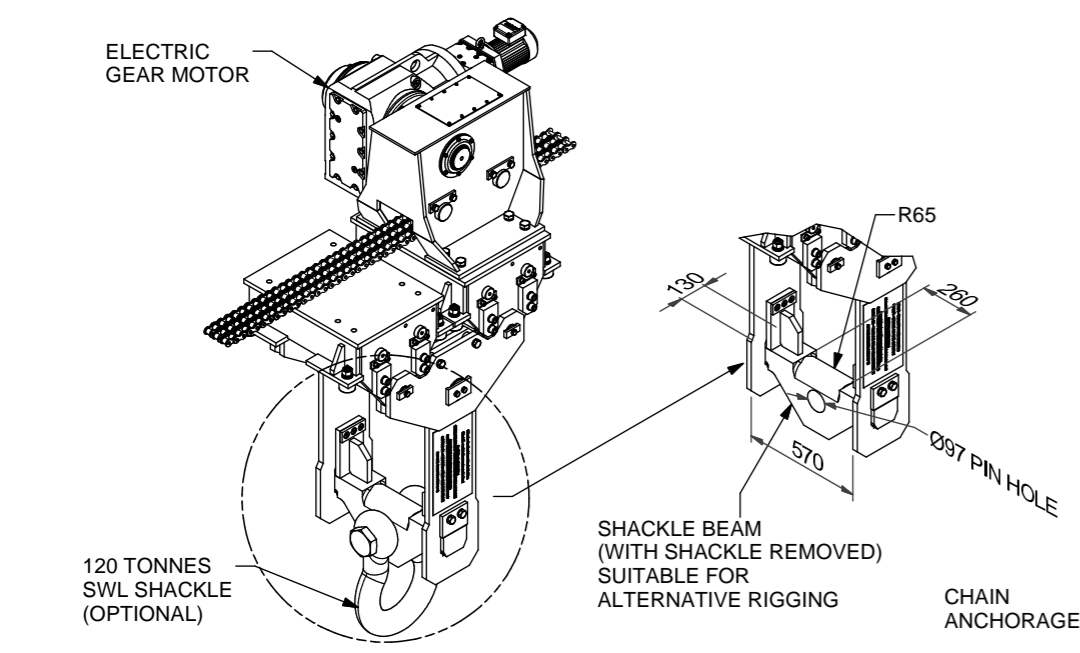
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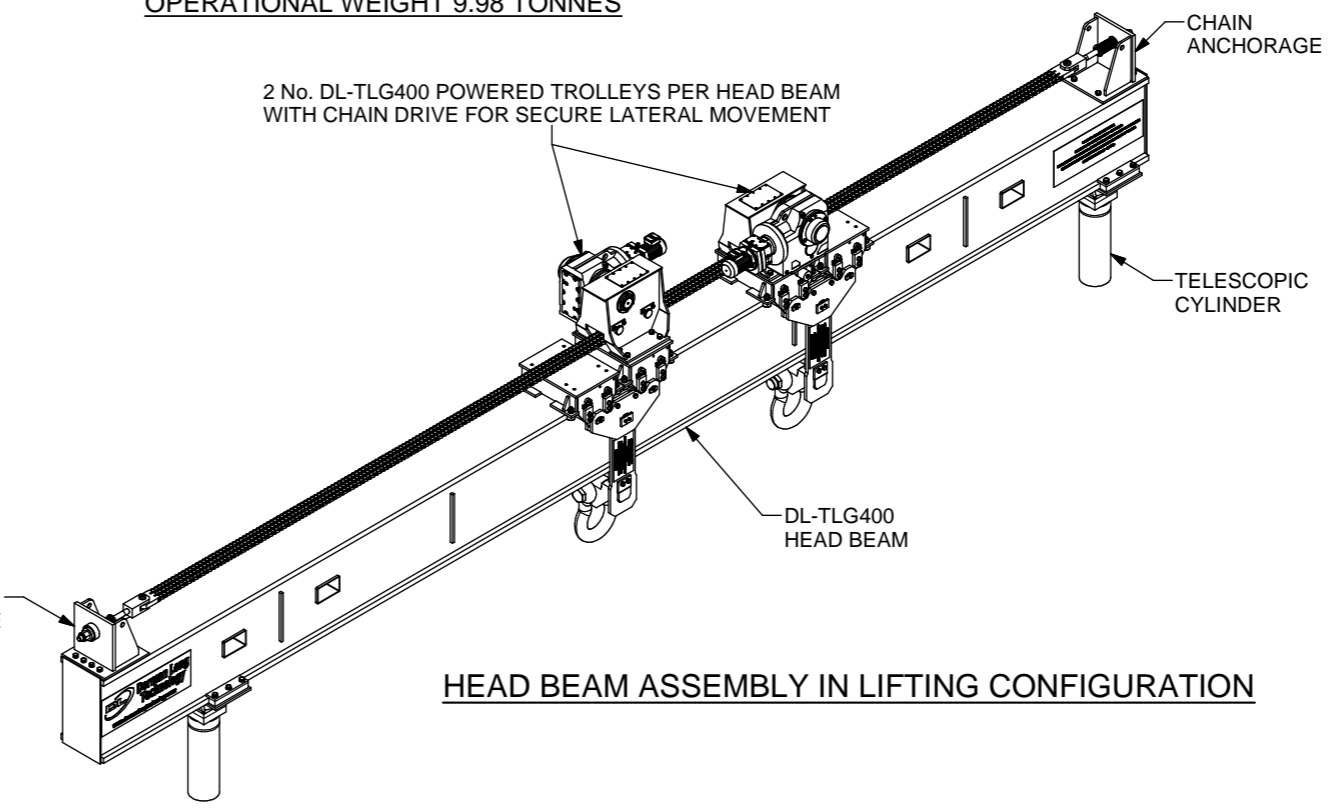


A-A (1 : 50)

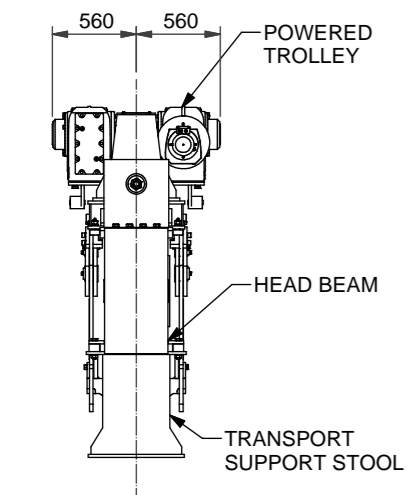
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION
OPERATIONAL WEIGHT 9.98 TONNES



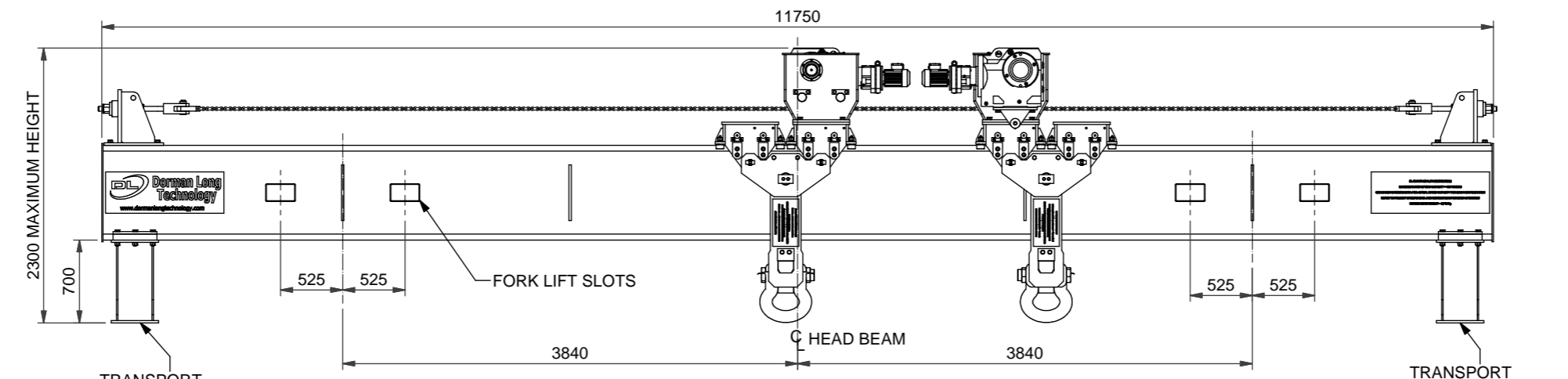
POWERED TROLLEY
(HEAD BEAM OMITTED FOR CLARITY)



HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION (1 : 50)



HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION
TRANSPORT WEIGHT 10.40 TONNES

NOTES

- SPECIFICATION**
DL-TLG400 HEAD BEAM AND
DL-TLG400 POWERED TROLLEYS
- MAXIMUM SAFE WORKING LOAD (SWL) = 100 TONNES PER LIFT POINT = 190 TONNES PER HEAD BEAM SEE DRAWINGS DL-TLG400-005-01 AND 02 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-TLG400 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 = 0.5 kW RUNNING PER DL-TLG400 POWERED TROLLEY
 - CONTROL FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG400 LIFTING UNIT
 - OPERATING TEMPERATURE = -20 to +45°C
 - DL-TLG400 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-TLG400 HEAD BEAM = 6,270 kg
POWERED TROLLEY = 2x1,635 kg
CHAIN AND CHAIN ANCHORAGES = 440 kg
TRANSPORT SUPPORT STOOLS = 2 x 210 kg
 - TOTAL OPERATING WEIGHT = 9,980 kg
TOTAL TRANSPORT WEIGHT = 10,400 kg

Dorman Long Technology
The Charles Parker Building
Midland Road, Higham Ferrers
Northamptonshire, NN10 8DN
United Kingdom
Tel: +44 (0) 1933 319133
Fax: +44 (0) 1933 319135
www.dormanlongtechnology.com

Project
DL-TLG400 TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG400 HEAD BEAM AND DL-TLG400 POWERED TROLLEYS GENERAL ARRANGEMENT AND SPECIFICATION

	Design Eng: JM	Checking Eng: PD
	Drawn by: SG	Project Eng: SAB
	Drawing Status	
INFORMATION		

Original Drawing size: A3
Drawing No. **DL-TLG400-003-01** Rev. **A**

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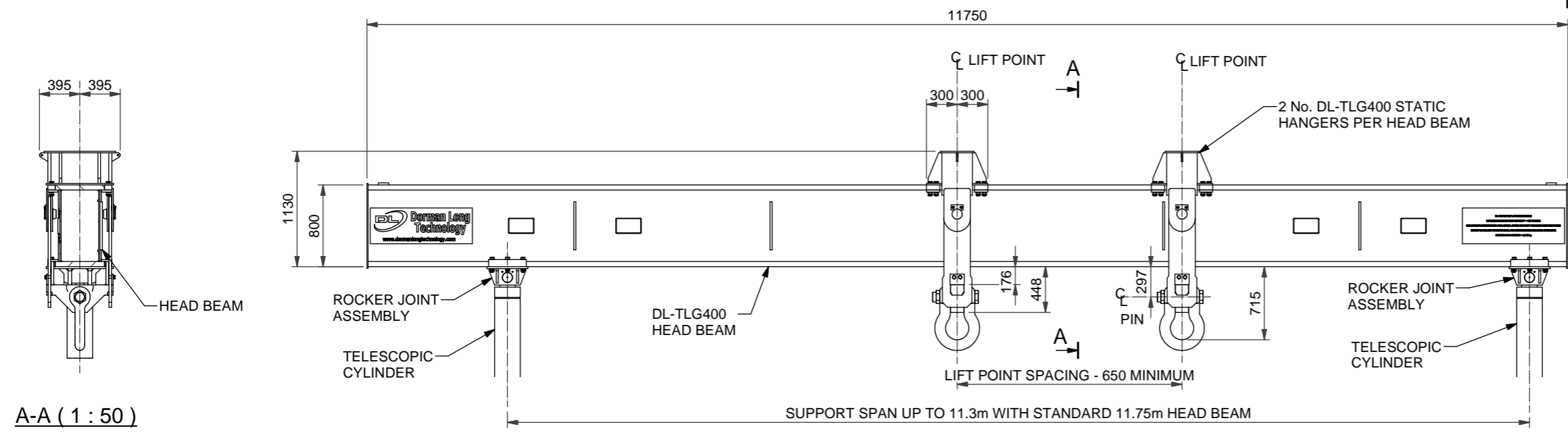
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NOTES

SPECIFICATION
DL-TLG400 HEAD BEAM AND DL-TLG400 STATIC HANGERS

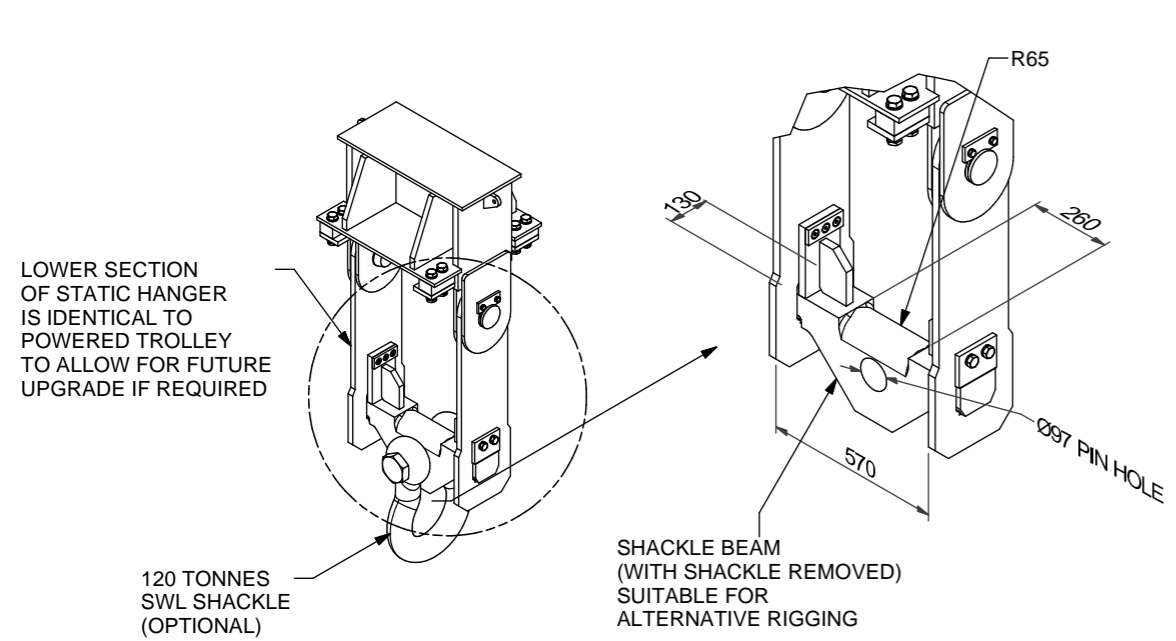
- MAXIMUM SAFE WORKING LOAD (SWL) = 100 TONNES PER LIFT POINT = 192 TONNES PER HEAD BEAM
SEE DRAWINGS DL-TLG400-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- OPERATING TEMPERATURE = -20 to +45°C
- DL-TLG400 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-TLG400 HEAD BEAM = 6,270 kg
STATIC HANGER ASSEMBLY = 2x 650 kg
TRANSPORT SUPPORT STOOLS = 2 x 210 kg
- TOTAL OPERATING WEIGHT = 7,570 kg
TOTAL TRANSPORT WEIGHT = 7,990 kg

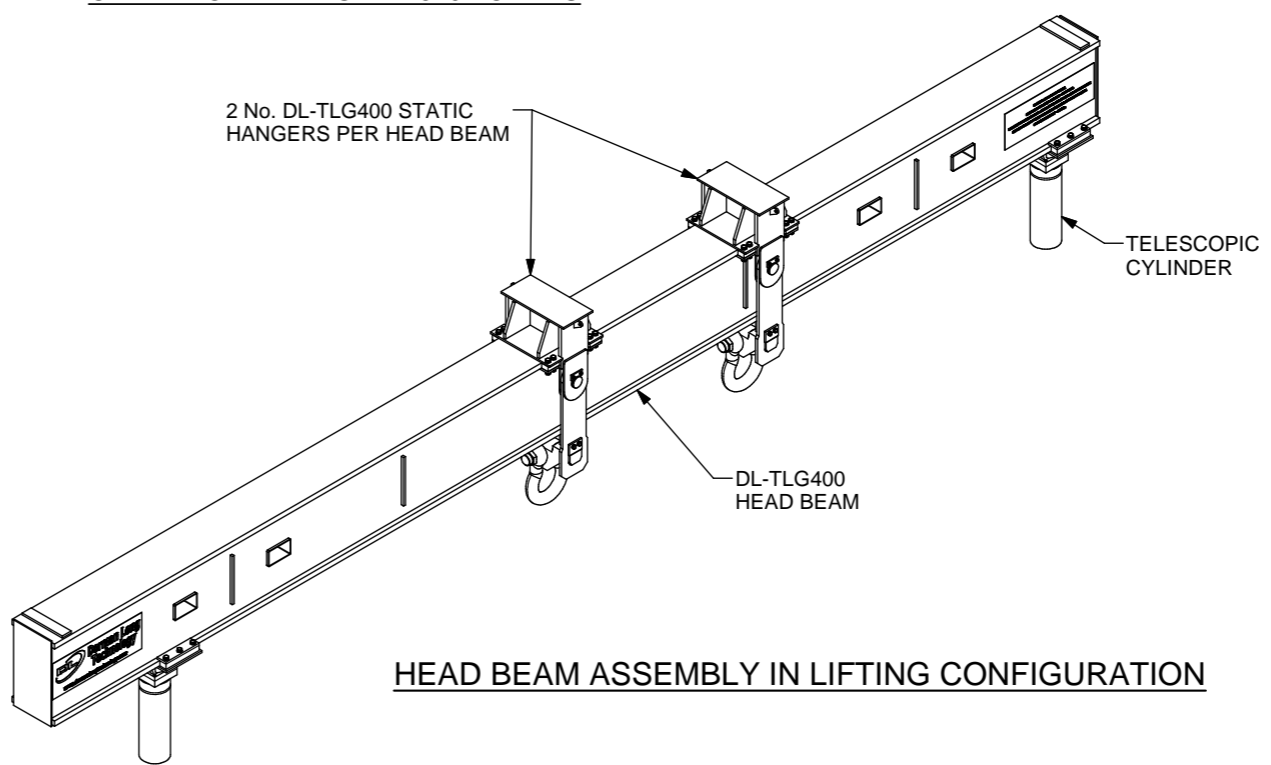


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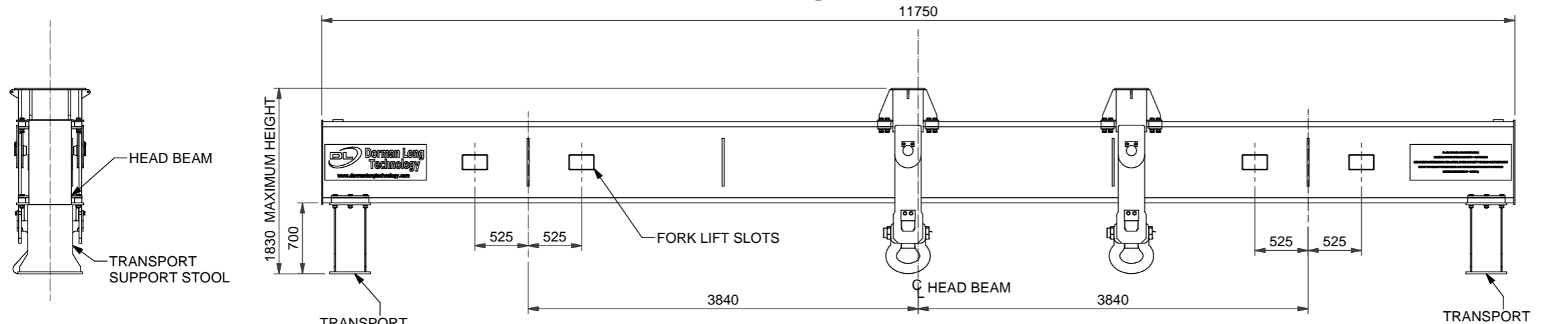
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION
OPERATIONAL WEIGHT 7.570 TONNES



STATIC HANGER
(HEAD BEAM OMITTED FOR CLARITY)



HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION (1 : 50)

HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION
TRANSPORT WEIGHT 7.990 TONNES

Dorman Long Technology
The Charles Parker Building
Midland Road, Higham Ferrers
Northamptonshire, NN10 8DN
United Kingdom
Tel: +44 (0) 1933 319133
Fax: +44 (0) 1933 319135
www.dormanlongtechnology.com

Project
DL-TLG400
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG400 HEAD BEAM AND
DL-TLG400 STATIC HANGERS
GENERAL ARRANGEMENT AND SPECIFICATION

	Design Eng: JM	Checking Eng: PD
	Drawn by: SG	Project Eng: SAB
Scales (At A3) NTS	Drawing Status INFORMATION	
Original Drawing size: A3		

Drawing No. **DL-TLG400-003-02** Rev. **B**

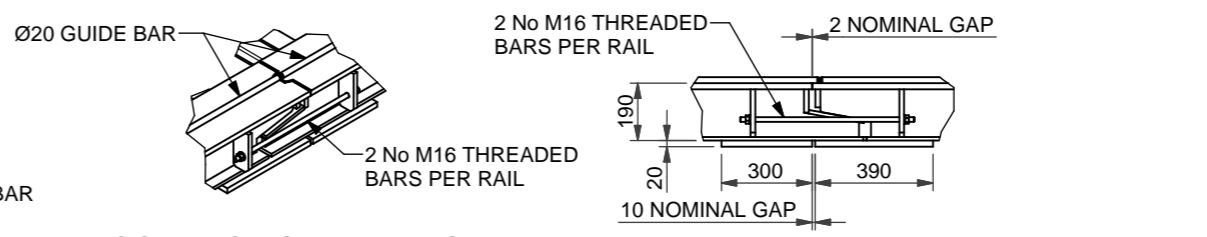
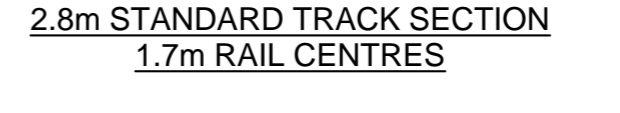
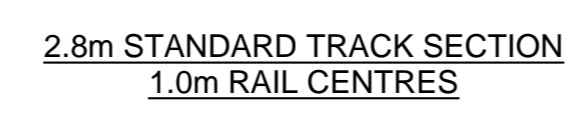
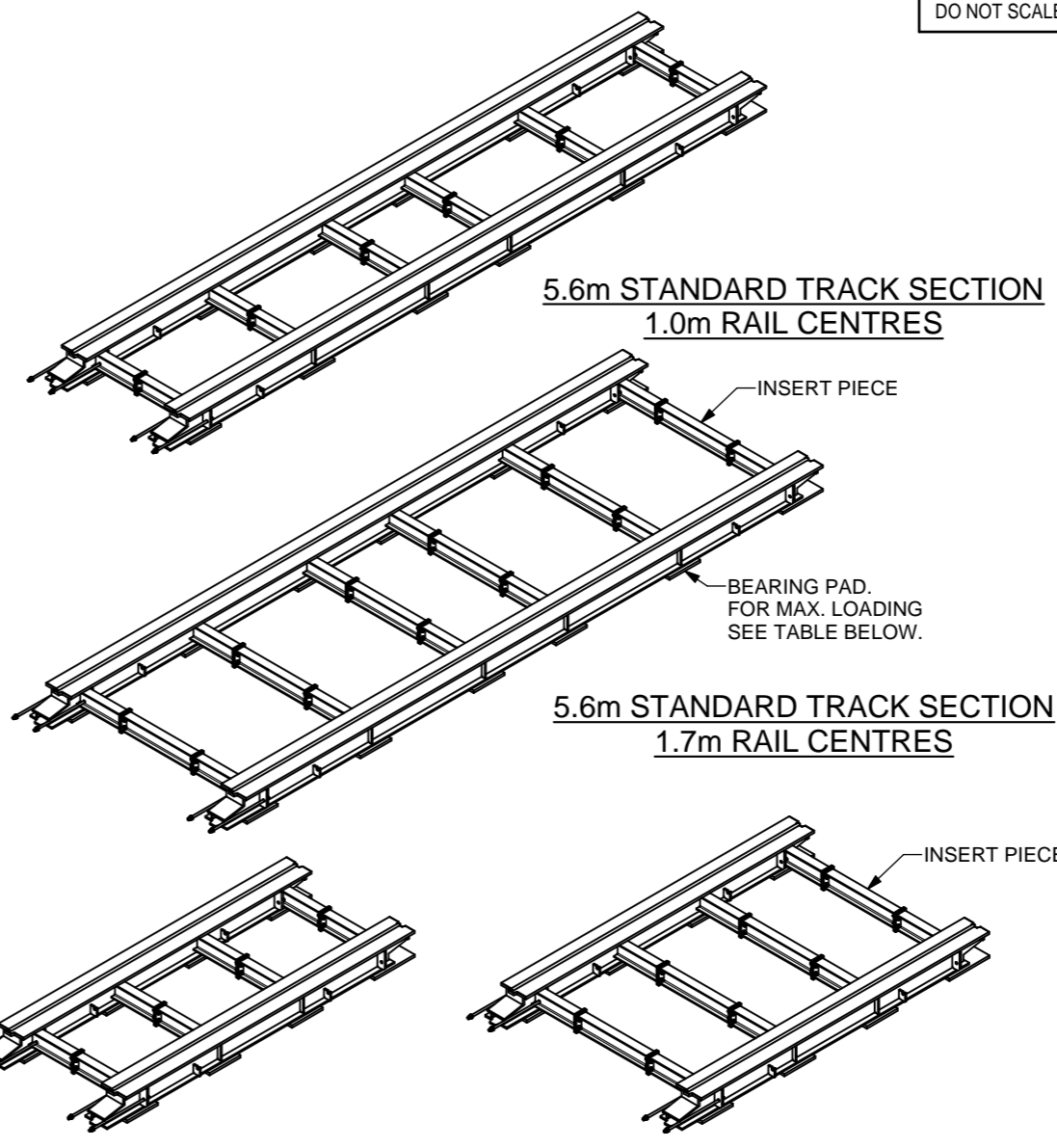
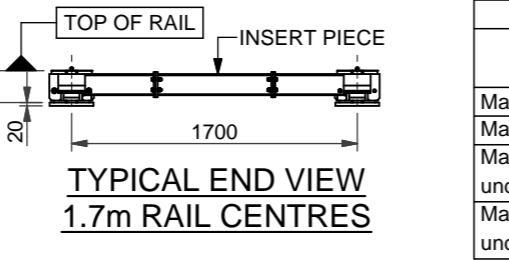
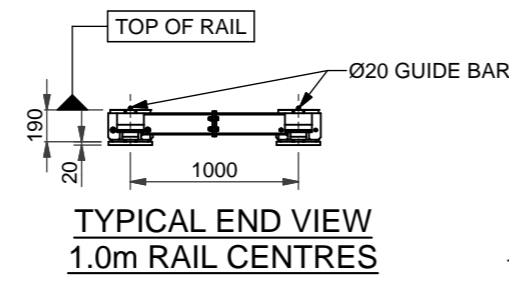
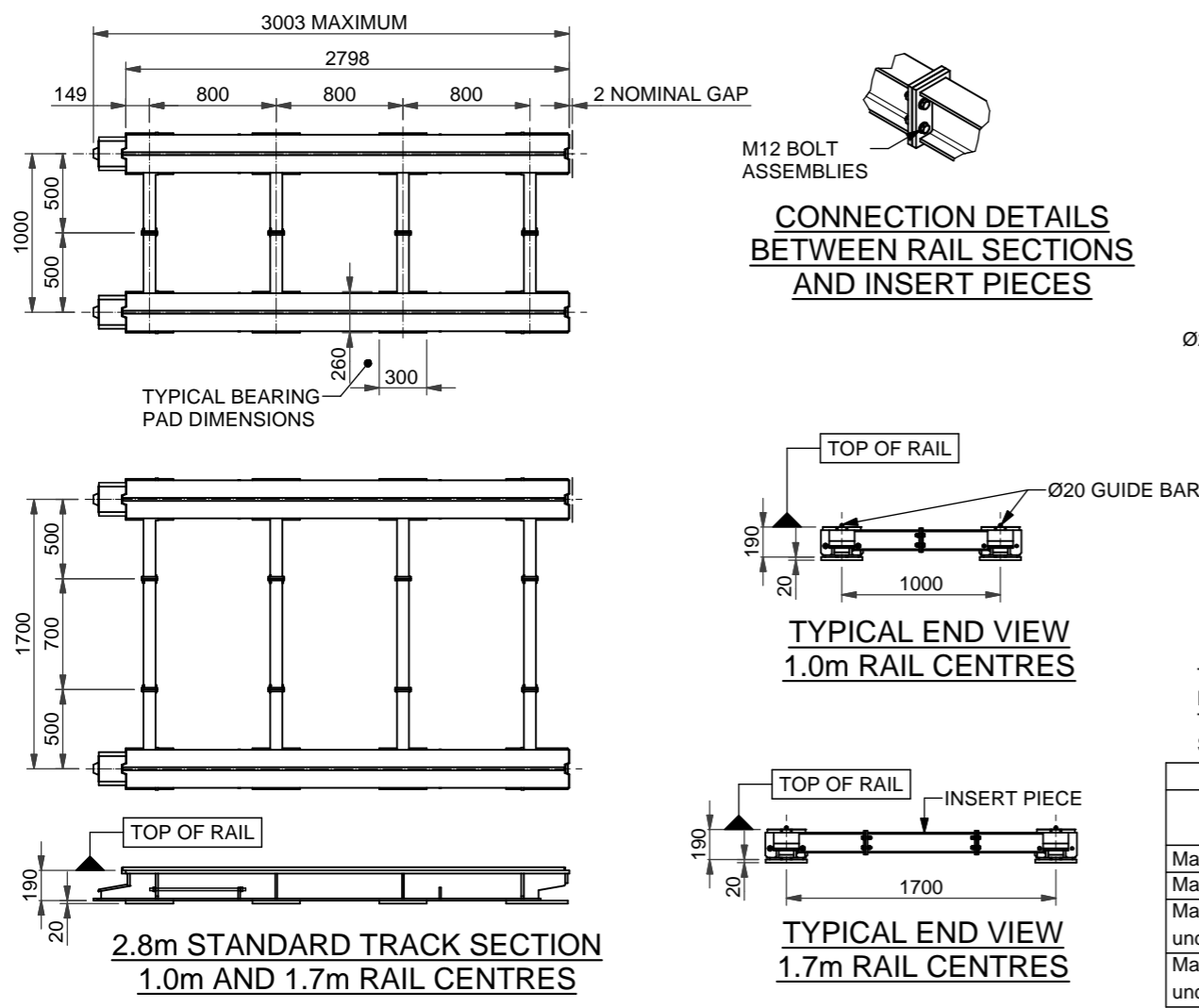
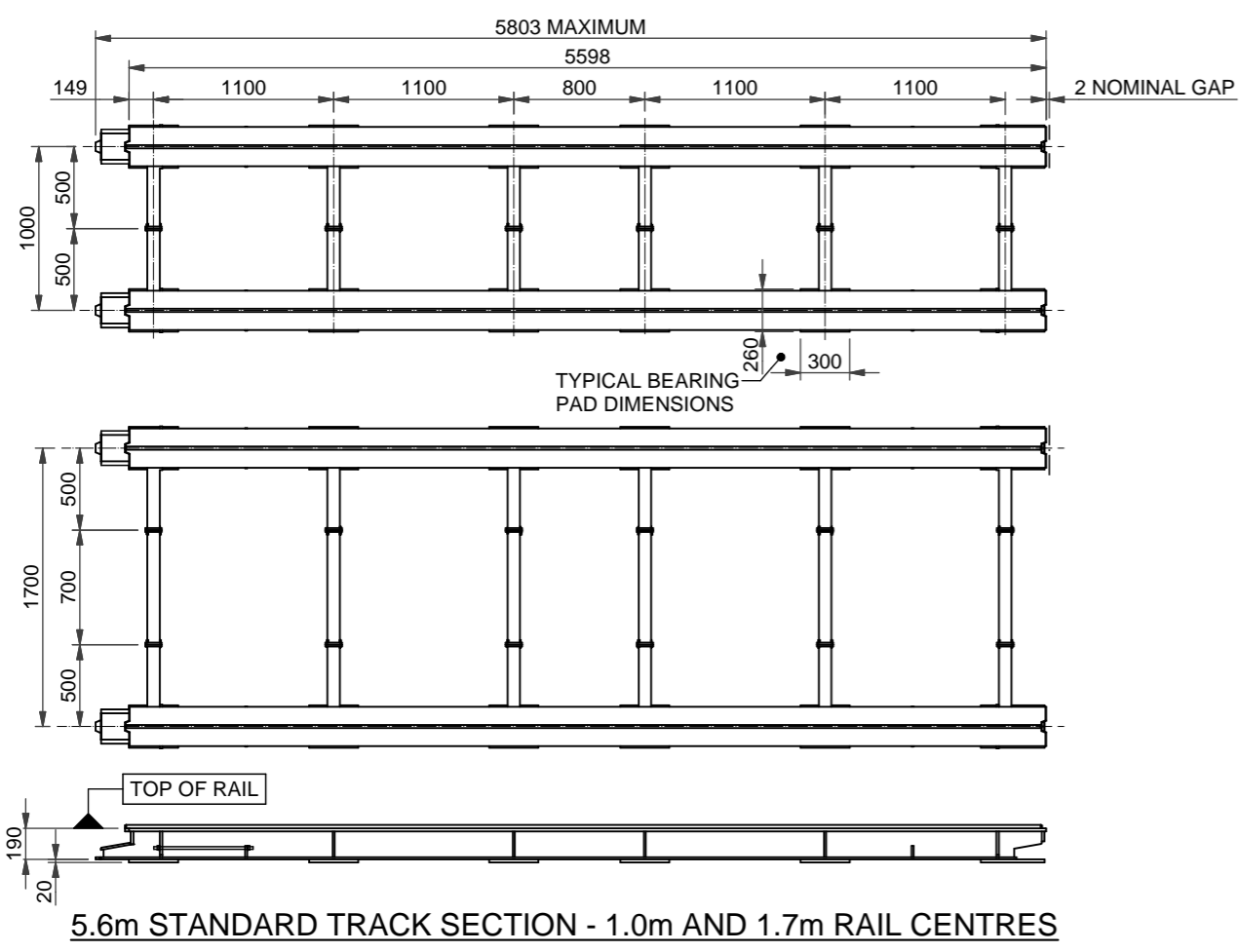
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NOTES
SPECIFICATION FOR DL-TLG400 STANDARD TRACK SECTIONS

- 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 1.0m CENTRES AND WITH INSERT PIECES TO INCREASE RAILS TO 1.7m 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
- FULLY ASSEMBLED STANDARD TRACK SECTIONS ARE SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS
- WEIGHTS
 5.6m LONG x 1.0m RAIL CENTRES = 1,400 kg
 5.6m LONG x 1.7m RAIL CENTRES = 1,470 kg
 2.8m LONG x 1.0m RAIL CENTRES = 760 kg
 2.8m LONG x 1.7m RAIL CENTRES = 810 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 DEGREES 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-TLG400 Standard Track - Maximum Loads			
	Telescopic Cylinder Stage 1 1.0m Rail Centres	Telescopic Cylinder Stage 2 1.7m Rail Centres	Telescopic Cylinder Stage 3 1.7m Rail Centres
Maximum Wheel Load on Track	53.1 Tonnes	52.7 Tonnes	40.1 Tonnes
Maximum Load on each Bearing Pad	53.5 Tonnes	53.1 Tonnes	40.3 Tonnes
Maximum Average Bearing Pressure under each Bearing Pad	6.7 MPa	6.7 MPa	5.1 MPa
Maximum Peak Bearing Pressure under each Bearing Pad	9.1 MPa	9.0 MPa	6.4 MPa

Dorman Long Technology
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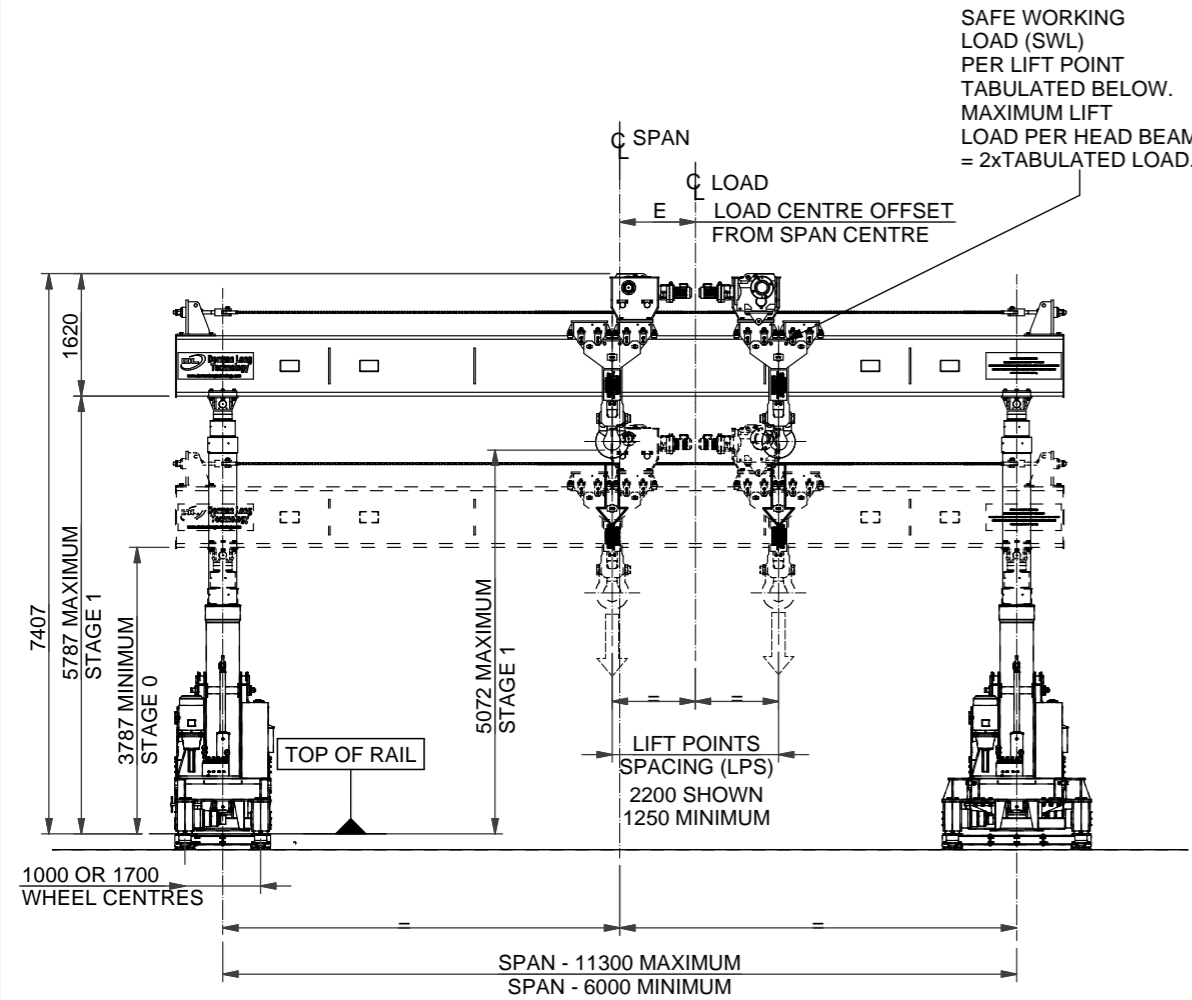
Project
 DL-TLG400
 TELESCOPIC LIFTING GANTRY

Drawing Title
 DL-TLG400 STANDARD TRACK SECTIONS
 GENERAL ARRANGEMENT
 AND SPECIFICATION

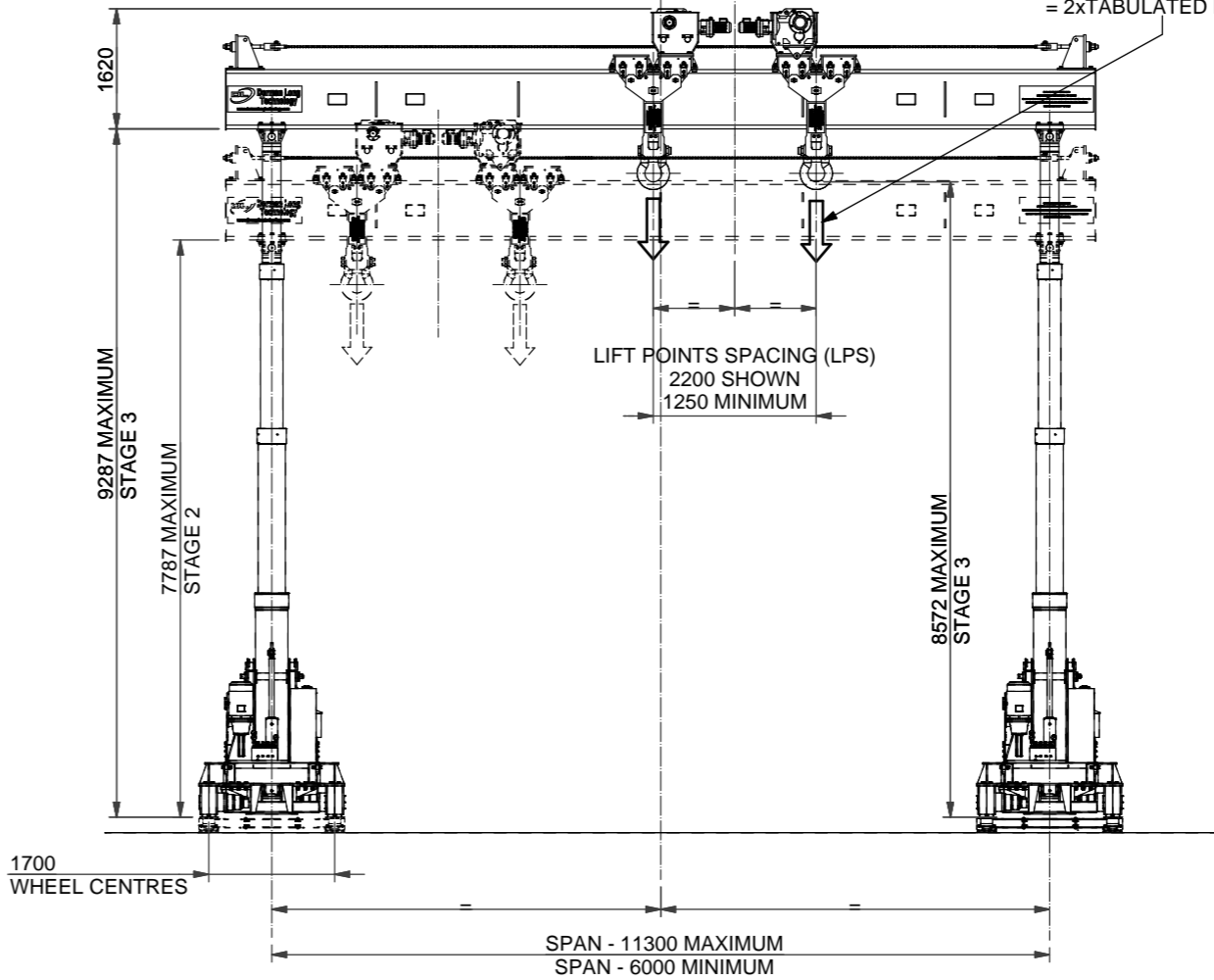
 Scales (At A3) NTS	Design Eng: PD	Checking Eng: JM
	Drawn by: AW	Project Eng: SAB
INFORMATION		
Original Drawing size: A3	Drawing No.	Rev.
DL-TLG400-004		E

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STAGE 1 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 3787 TO LEVEL 5787



**STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 7787
STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 9287**

SPAN 11.30m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]						
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE				
		0.00	1.00	2.00	3.00	4.00
1	1.25	62.5	63.4	69.7	61.5	55.0
2		62.5	63.4	69.7	61.5	55.0
3		62.5	55.0	47.6	41.9	37.4
1	2.00	68.0	68.0	69.8	61.5	
2		68.0	68.0	69.8	61.5	
3		65.1	55.0	47.6	41.9	
1	3.00	76.7	75.0	69.8	61.5	
2		76.7	75.0	69.8	61.5	
3		65.1	55.0	47.6	41.9	
1	4.00	87.9	80.5	69.8		
2		87.9	80.5	69.8		
3		65.1	55.0	47.6		
1	5.00	95.1	80.5	69.8		
2		95.1	80.5	69.8		
3		65.1	55.0	47.6		
1	6.00	95.1	80.5			
2		95.1	80.5			
3		65.1	55.0			
1	7.00	95.1	80.5			
2		95.1	80.5			
3		65.1	55.0			
1	8.00	95.1				
2		95.1				
3		65.1				
1	9.00	95.1				
2		95.1				
3		65.1				

SPAN 10.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1	1.25	72.5	73.9	67.4	58.8
2		72.5	73.9	67.4	58.8
3		65.1	53.9	46.0	40.1
1	2.00	79.8	78.9	67.4	58.8
2		79.8	78.9	67.4	58.8
3		65.1	53.9	46.0	40.1
1	3.00	91.9	78.9	67.4	58.8
2		91.9	78.9	67.4	58.8
3		65.1	53.9	46.0	40.1
1	4.00	95.1	78.9	67.4	
2		95.1	78.9	67.4	
3		65.1	53.9	46.0	
1	5.00	95.1	78.9	67.4	
2		95.1	78.9	67.4	
3		65.1	53.9	46.0	
1	6.00	95.1	78.9		
2		95.1	78.9		
3		65.1	53.9		
1	7.00	95.1	78.9		
2		95.1	78.9		
3		65.1	53.9		
1	8.00	95.1			
2		95.1			
3		65.1			
1	9.00	95.1			
2		95.1			
3		65.1			

SPAN 9.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1	1.25	82.5	77.5	65.3	56.4
2		82.5	77.5	65.3	56.4
3		65.1	52.9	44.5	38.4
1	2.00	91.9	77.5	65.3	56.4
2		91.9	77.5	65.3	56.4
3		65.1	52.9	44.5	38.4
1	3.00	95.1	77.5	65.3	
2		95.1	77.5	65.3	
3		65.1	52.9	44.5	
1	4.00	95.1	77.5	65.3	
2		95.1	77.5	65.3	
3		65.1	52.9	44.5	
1	5.00	95.1	77.5		
2		95.1	77.5		
3		65.1	52.9		
1	6.00	95.1	77.5		
2		95.1	77.5		
3		65.1	52.9		
1	7.00	95.1			
2		95.1			
3		65.1			
1	8.00	95.1			
2		95.1			
3		65.1			

SPAN 8.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	2.00
1	1.25	95.1	75.7	62.8	
2		95.1	75.7	62.8	
3		65.1	51.7	42.8	
1	2.00	95.1	75.7	62.8	
2		95.1	75.7	62.8	
3		65.1	51.7	42.8	
1	3.00	95.1	75.7	62.8	
2		95.1	75.7	62.8	
3		65.1	51.7	42.8	
1	4.00	95.1	75.7		
2		95.1	75.7		
3		65.1	51.7		
1	5.00	95.1	75.7		
2		95.1	75.7		
3		65.1	51.7		
1	6.00	95.1			
2		95.1			
3		65.1			
1	7.00	95.1			
2		95.1			
3		65.1			

SPAN 7.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	2.00
1	1.25	95.1	73.6	59.9	
2		95.1	73.6	59.9	
3		65.1	50.2	40.8	
1	2.00	95.1	73.6	59.9	
2		95.1	73.6	59.9	
3		65.1	50.2	40.8	
1	3.00	95.1	73.6		
2		95.1	73.6		
3		65.1	50.2		
1	4.00	95.1	73.6		
2		95.1	73.6		
3		65.1	50.2		
1	5.00	95.1			
2		95.1			
3		65.1			
1	6.00	95.1			
2		95.1			
3		65.1			

SPAN 6.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	1.00
1	1.25	95.1			70.9
2		95.1			70.9
3		65.1			48.4
1	2.00	95.1			70.9
2		95.1			70.9
3		65.1			48.4
1	3.00	95.1			70.9
2		95.1			70.9
3		65.1			48.4
1	4.00	95.1			
2		95.1			
3		65.1			
1	5.00	95.1			
2		95.1			
3		65.1			

INTERPOLATION BETWEEN TABULATED VALUES PERMISSIBLE
SEE ALSO OPERATION AND MAINTENANCE MANUAL

NOTES

DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG400 COMPONENTS WITH DL-TLG400 HEAD BEAM
- 2 No. LIFT POINTS EQUALLY LOADED PER 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-TLG400 STANDARD TRACK SECTIONS USED WITH 1.0m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 1.7m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGES 2 AND 3
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM

IF THE DL-TLG400 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



Project
DL-TLG400
TELESCOPIC LIFTING GANTRY

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

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

Original Drawing size: A3
Drawing Status
INFORMATION

Drawing No. DL-TLG400-005-01 Rev. E

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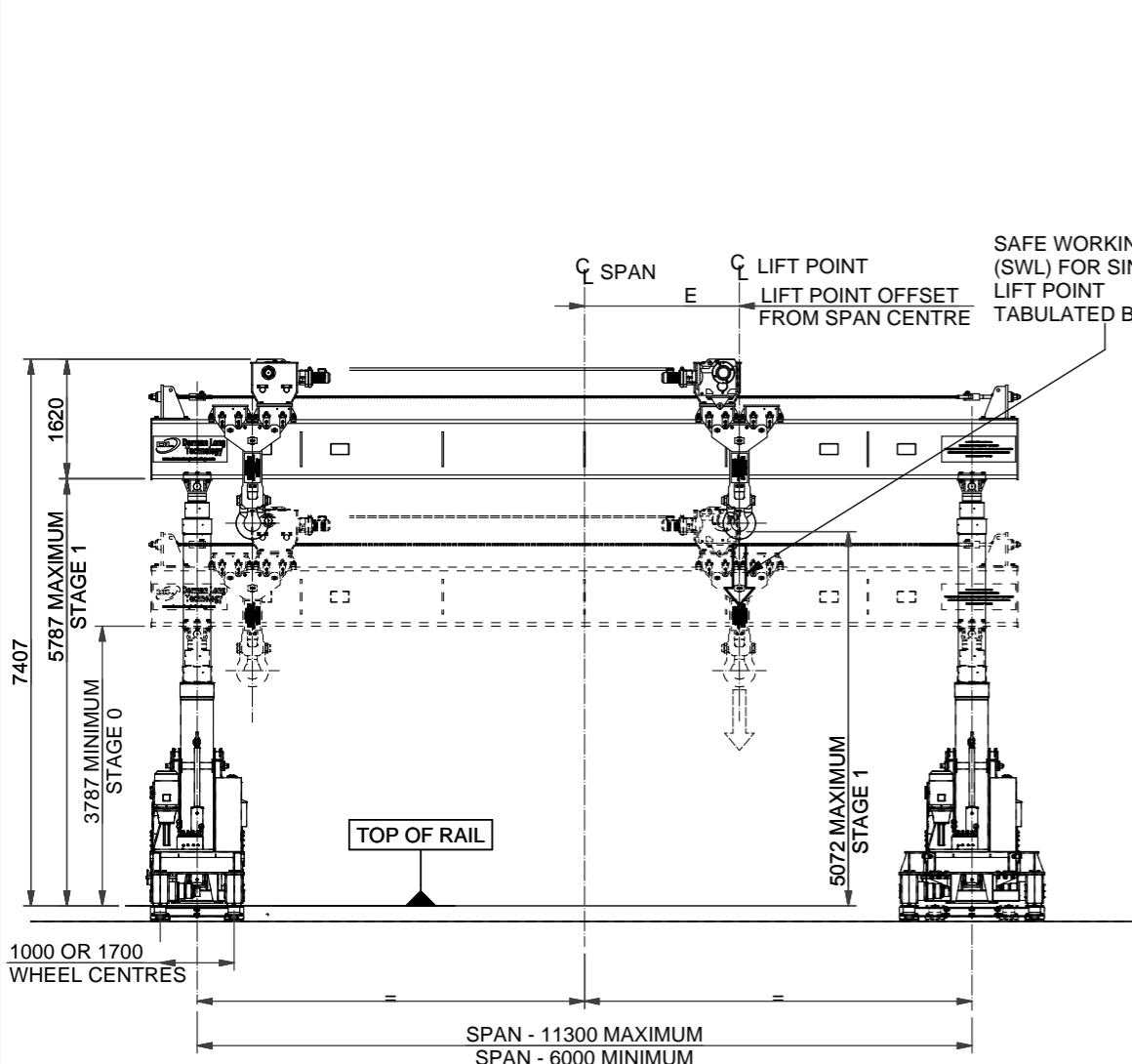
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NOTES

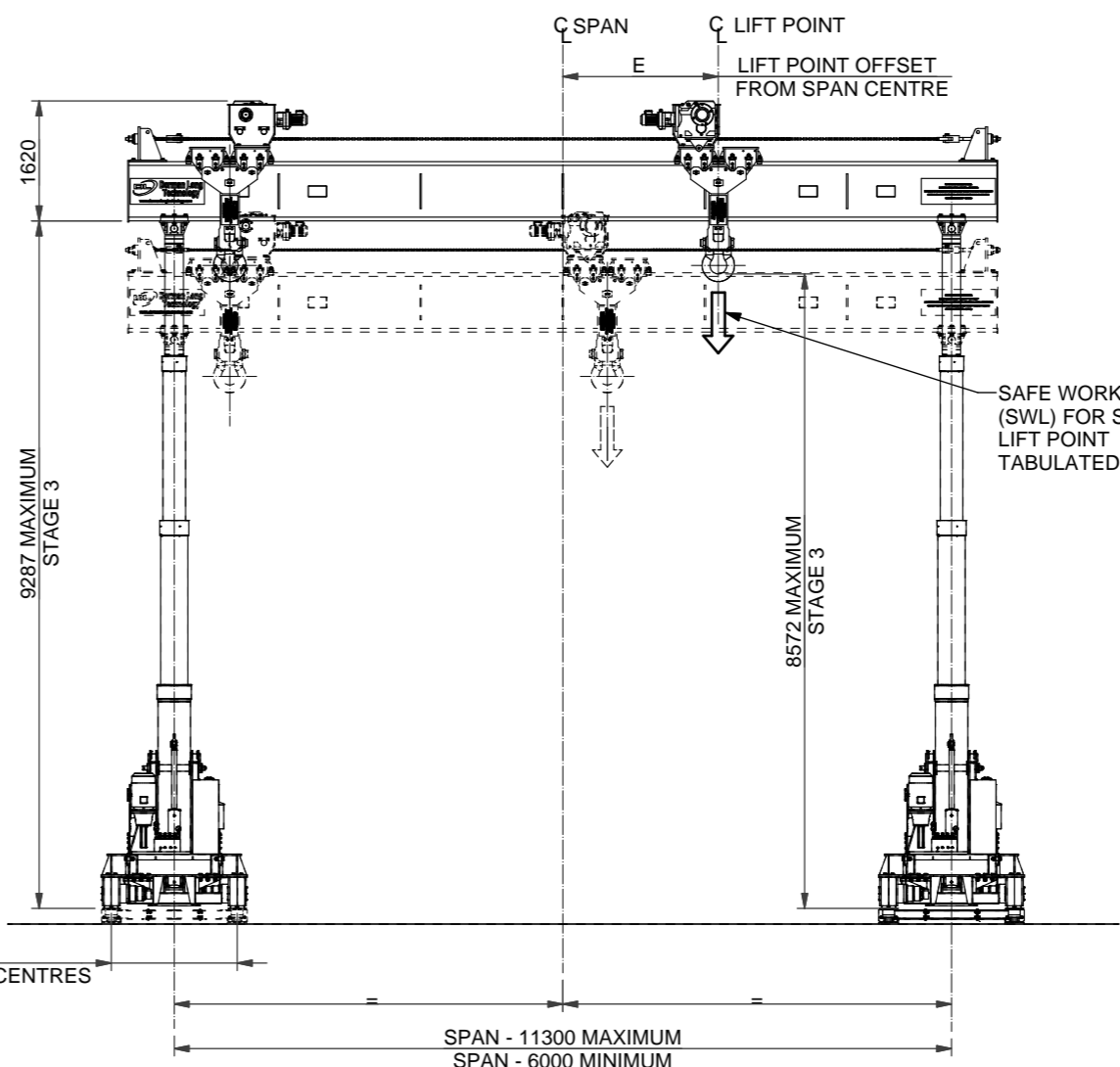
DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG400 COMPONENTS WITH DL-TLG400 HEAD BEAM
- 1 No. LIFT POINT LOADED PER 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-TLG400 STANDARD TRACK SECTIONS USED WITH 1.0m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 1.7m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGES 2 AND 3
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM

IF THE DL-TLG400 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



STAGE 1 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 3787 TO LEVEL 5787



**STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 7787
 STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 9287**

SPAN 11.30m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1 AND 2	100.0	100.0	100.0	100.0	100.0
3	100.0	100.0	94.7	83.6	76.3

SPAN 10.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1 AND 2	100.0	100.0	100.0	100.0	100.0
3	100.0	100.0	91.4	79.8	72.4

SPAN 9.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1 AND 2	100.0	100.0	100.0	100.0	100.0
3	100.0	100.0	88.6	78.3	68.9

SPAN 8.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1 AND 2	100.0	100.0	100.0	100.0
3	100.0	100.0	85.3	74.5

SPAN 7.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1 AND 2	100.0	100.0	100.0	100.0
3	100.0	99.8	83.1	70.1

SPAN 6.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED			
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE		
	0.00	1.00	2.00
1 AND 2	100.0	100.0	100.0
3	100.0	96.2	78.2

Dorman Long Technology
 The Charles Parker Building
 Midland Road, Higham Ferrers
 Northamptonshire, NN10 8DN
 United Kingdom
 Tel: +44 (0) 1933 319133
 Fax: +44 (0) 1933 319135
 www.dormanlongtechnology.com

Project
 DL-TLG400
 TELESCOPIC LIFTING GANTRY

Drawing Title
 LIFTING ARRANGEMENT AND DUTY CHARTS
 SINGLE LIFT POINT LOADED PER HEAD BEAM

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

Scales (At A3) NTS
 Drawing Status
INFORMATION

Original Drawing size: A3
 Drawing No. Rev.
DL-TLG400-005-02 **E**

INTERPOLATION BETWEEN TABULATED VALUES PERMISSIBLE
 SEE ALSO OPERATION AND MAINTENANCE MANUAL