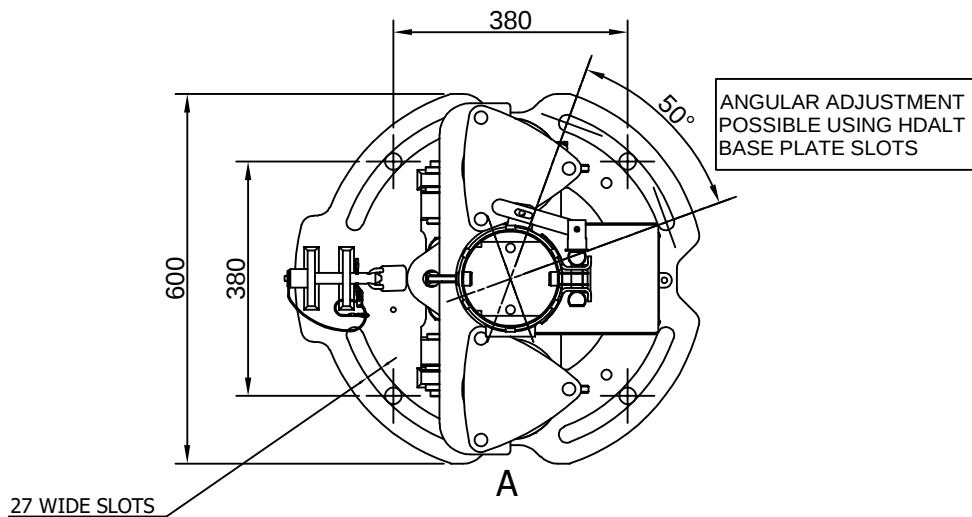
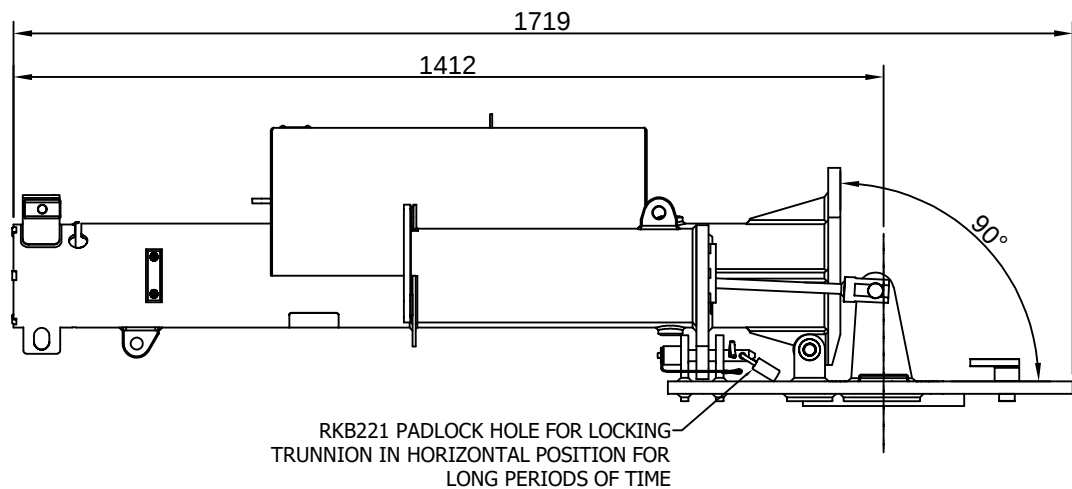
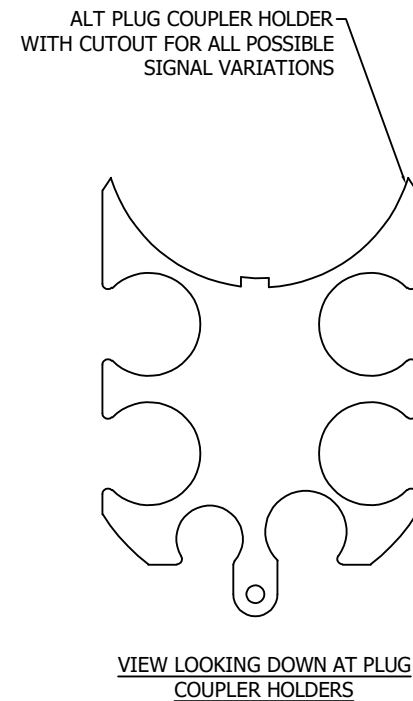
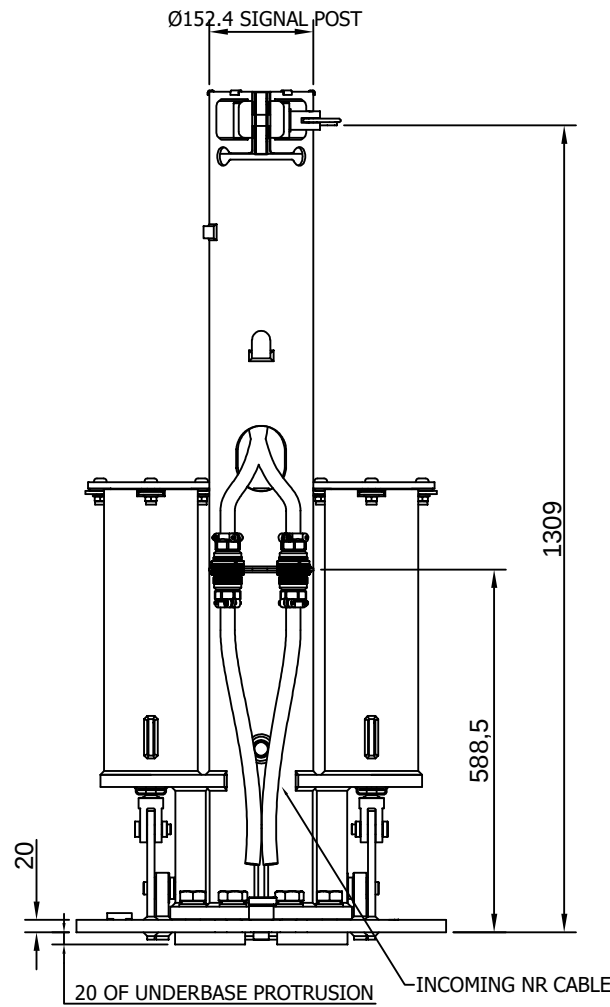
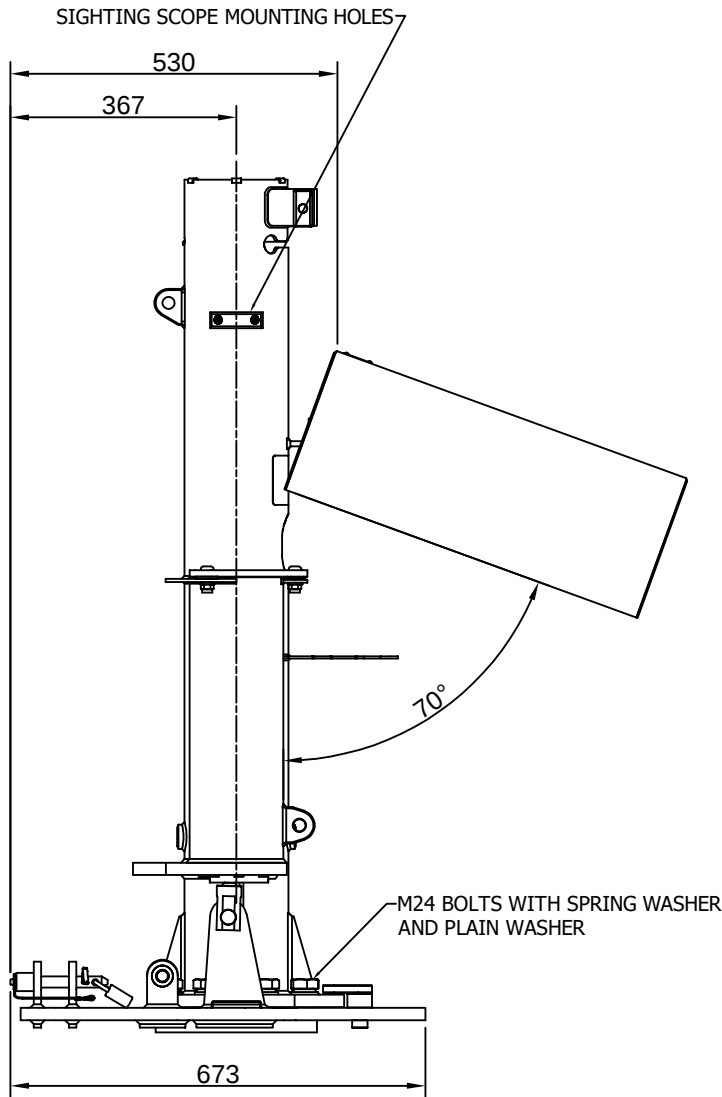
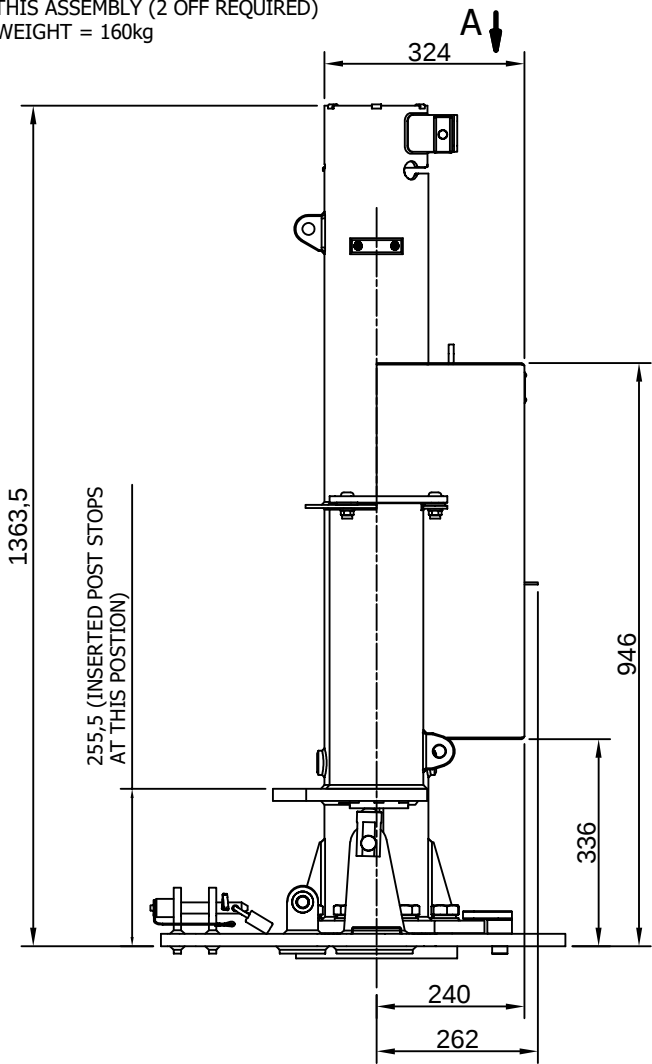


NOTE:
1. ALL FASTENERS - STAINLESS STEEL
2. TRUNNION MATERIAL - MILD STEEL
3. HOT DIP GALVANIZE IN ACCORDANCE WITH BS EN ISO 1461:2009 AND NR/GN/CIV/002, MEAN COATING THICKNESS IS TO BE 80µm.
4. RKB BRASS PADLOCKS, PADS NO 086/029220 ARE NOT SUPPLIED WITH THIS ASSEMBLY (2 OFF REQUIRED)
5. WEIGHT = 160kg



CHECKED BY.				
2	19/08/21	MD	SEE ECN3781_0	AD
1	08/04/21	MD	SEE ECN3620_0	AD
0	29/07/20	AD	ORIGINAL ECN 3354_0	
ISS	DATE	INI	ALTERATIONS	

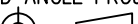
UNIPART DORMAN

UNIPART DORMAN
WENNINGTON ROAD, SOUTHPORT. PR9 7TN.

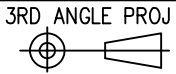
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DRAWING / PART No.

0094/019441

<u>DORMAN REF No.</u>		<u>TITLE</u> HD ALT PRODUCT CONFIGURATION				<u>PROJECT No.</u> 146		
<u>CUST REF NO.</u>		<u>MATERIAL</u>	<u>TOLERANCES</u>			<u>DRAWN</u> A DREWETT		
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED. DO NOT SCALE			X	+	/	-	0,25	CHECKED MD AUTH. PB
			X,0	+	/	-	0,10	DATE 29/07/2020
			X,00	+	/	-	0,05	SCALE NTS
			X,000	+	/	-	0,025	SHEET 1 OF 6 SHEETS
		ANGULAR	+	/	-	0.25°		
3RD ANGLE PROJ 								

ALL DIMENSIONS IN MM
UNLESS OTHERWISE STATED.
DO NOT SCALE

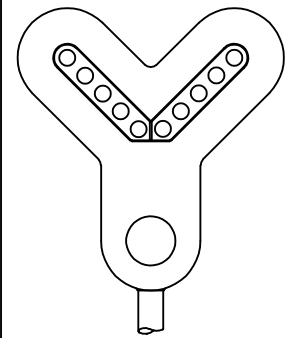
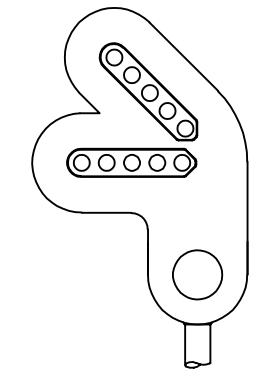
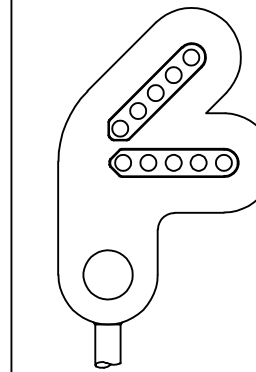
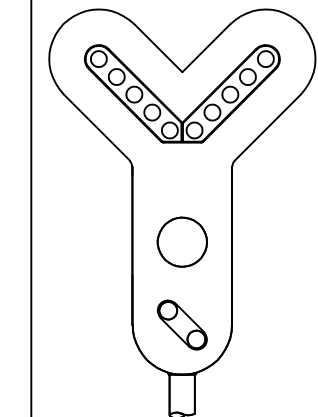
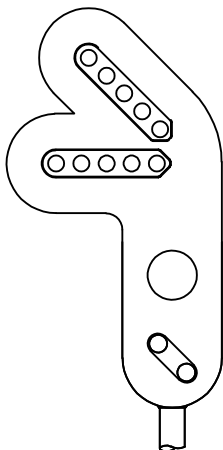
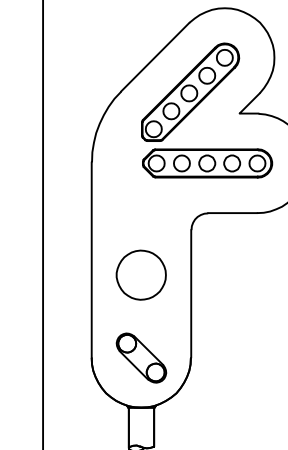
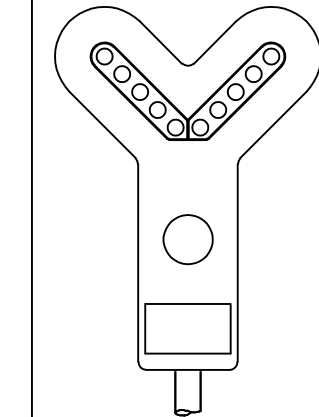
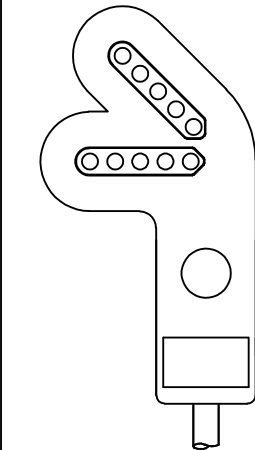
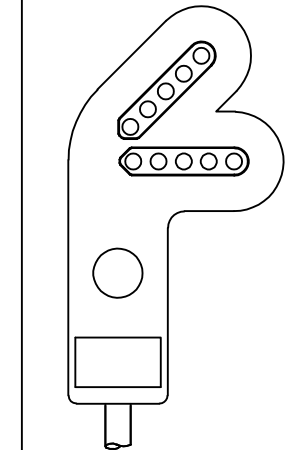
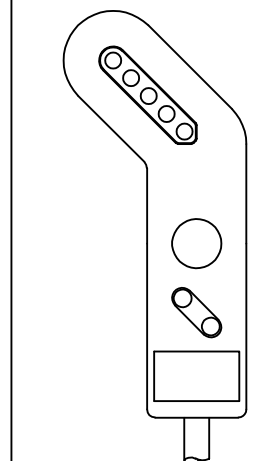
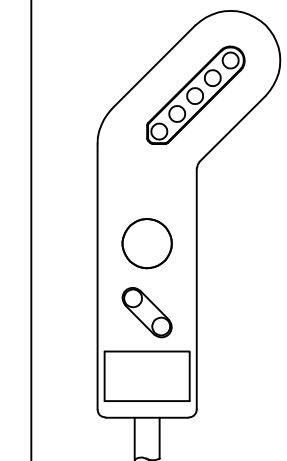
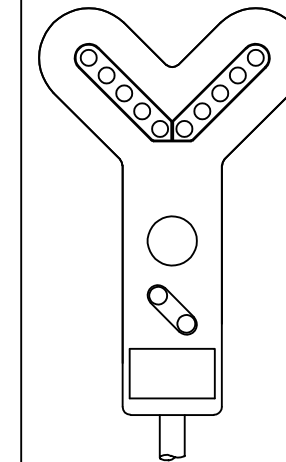
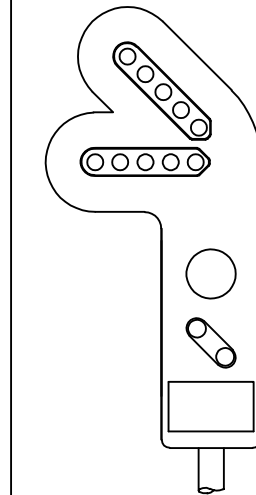
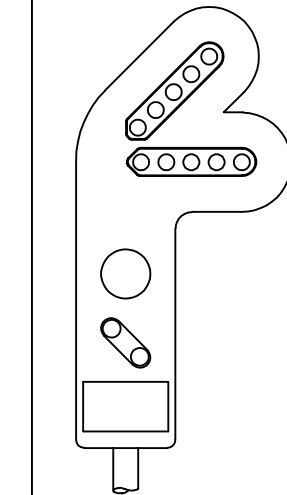
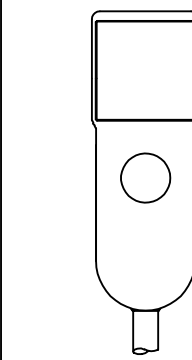
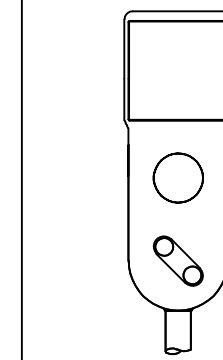
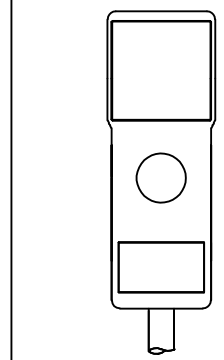
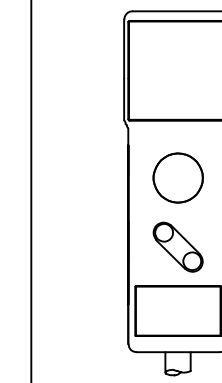
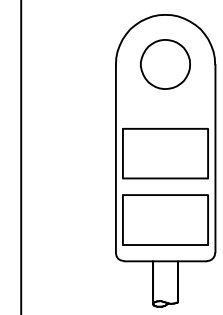
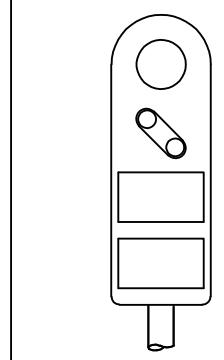
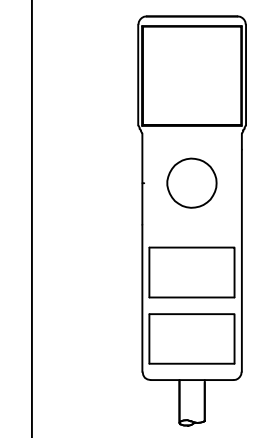


PART NUMBER BARCODE



* 0 0 9 4 / 0 1 9 4 4 1 *

SIGNAL HEAD VARIATIONS AVAILABLE FOR THE HEAVY DUTY ASSISTED LIFT TRUNNION (HDALT)

HDAL04 PADS No. 0094/019442 	HDAL05 PADS No. 0094/019443 	HDAL06 PADS No. 0094/019444 	HDAL13 PADS No. 0094/019445 	HDAL14 PADS No. 0094/019446 	HDAL15 PADS No. 0094/019447 	HDAL22 PADS No. 0094/019448 
HDAL23 PADS No. 0094/019449 	HDAL24 PADS No. 0094/019450 	HDAL29 PADS No. 0094/019451 	HDAL30 PADS No. 0094/019452 	HDAL31 PADS No. 0094/019453 	HDAL32 PADS No. 0094/019454 	HDAL33 PADS No. 0094/019455 
HDAL37 PADS No. 0094/019456 	HDAL38 PADS No. 0094/019457 	HDAL39 PADS No. 0094/019458 	HDAL40 PADS No. 0094/019459 	HDAL41 PADS No. 0094/019460 	HDAL42 PADS No. 0094/019461 	HDAL43 PADS No. 0094/019462 

				CHECKED BY:
2	19/08/21	MD	SEE ECN3781_0	AD
1	08/04/21	MD	SEE ECN3620_0	AD
0	29/07/20	AD	ORIGINAL ECN 3354_0	
ISS	DATE	INI	ALTERATIONS	
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DORMAN REF No.		TITLE HD ALT PRODUCT CONFIGURATION			PROJECT No. 146	
CUST REF NO.		MATERIAL		TOLERANCES		
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED. DO NOT SCALE		3RD ANGLE PROJ		X X,0 X,00 X,000 ANGULAR		
				+ / - + / - + / - + / - + / - 0,25 0,10 0,05 0,025 0,25		
				DRAWN A DREWETT CHECKED MD AUTH. PB DATE 29/07/2020 SCALE NTS SHEET 3 OF 6 SHEETS		

PART NUMBER BARCODE



* 0 0 9 4 / 0 1 9 4 4 1 *

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SIGNAL HEAD VARIATIONS AVAILABLE FOR THE HEAVY DUTY ASSISTED LIFT TRUNNION (HDALT)																																																																																											
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<table><tr><td colspan="2">HDAL44 PADS No. 0094/019463</td><td colspan="2">HDAL53 PADS No. 0094/019464</td><td colspan="2">HDAL54 PADS No. 0094/019465</td><td colspan="2">HDAL55 PADS No. 0094/019466</td><td colspan="2">HDAL60 PADS No. 0094/019467</td><td colspan="2">HDAL61 PADS No. 0094/019468</td><td colspan="2">HDAL62 PADS No. 0094/019469</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">HDAL63 PADS No. 0094/019470</td><td colspan="2">HDAL64 PADS No. 0094/019471</td><td colspan="2">HDAL69 PADS No. 0094/019472</td><td colspan="2">HDAL70 PADS No. 0094/019473</td><td colspan="2">HDAL71 PADS No. 0094/019474</td><td colspan="2">HDAL72 PADS No. 0094/019475</td><td colspan="2">HDAL73 PADS No. 0094/019476</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">HDAL77 PADS No. 0094/019477</td><td colspan="2">HDAL78 PADS No. 0094/019478</td><td colspan="2">HDAL79 PADS No. 0094/019479</td><td colspan="2">HDAL80 PADS No. 0094/019480</td><td colspan="2">HDAL81 PADS No. 0094/019481</td><td colspan="2">HDAL82 PADS No. 0094/019482</td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr></table>								HDAL44 PADS No. 0094/019463		HDAL53 PADS No. 0094/019464		HDAL54 PADS No. 0094/019465		HDAL55 PADS No. 0094/019466		HDAL60 PADS No. 0094/019467		HDAL61 PADS No. 0094/019468		HDAL62 PADS No. 0094/019469																HDAL63 PADS No. 0094/019470		HDAL64 PADS No. 0094/019471		HDAL69 PADS No. 0094/019472		HDAL70 PADS No. 0094/019473		HDAL71 PADS No. 0094/019474		HDAL72 PADS No. 0094/019475		HDAL73 PADS No. 0094/019476																HDAL77 PADS No. 0094/019477		HDAL78 PADS No. 0094/019478		HDAL79 PADS No. 0094/019479		HDAL80 PADS No. 0094/019480		HDAL81 PADS No. 0094/019481		HDAL82 PADS No. 0094/019482																	
HDAL44 PADS No. 0094/019463		HDAL53 PADS No. 0094/019464		HDAL54 PADS No. 0094/019465		HDAL55 PADS No. 0094/019466		HDAL60 PADS No. 0094/019467		HDAL61 PADS No. 0094/019468		HDAL62 PADS No. 0094/019469																																																																															
HDAL63 PADS No. 0094/019470		HDAL64 PADS No. 0094/019471		HDAL69 PADS No. 0094/019472		HDAL70 PADS No. 0094/019473		HDAL71 PADS No. 0094/019474		HDAL72 PADS No. 0094/019475		HDAL73 PADS No. 0094/019476																																																																															
HDAL77 PADS No. 0094/019477		HDAL78 PADS No. 0094/019478		HDAL79 PADS No. 0094/019479		HDAL80 PADS No. 0094/019480		HDAL81 PADS No. 0094/019481		HDAL82 PADS No. 0094/019482																																																																																	
<table><tr><td colspan="2">PART NUMBER BARCODE</td><td colspan="2">DORMAN REF No.</td><td colspan="2">TITLE</td><td colspan="2">PROJECT No.</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">HD ALT PRODUCT CONFIGURATION</td><td colspan="2">146</td></tr><tr><td colspan="2"></td><td colspan="2">CUST REF NO.</td><td colspan="2">MATERIAL</td><td colspan="2">TOLERANCES</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">X + / - 0,25</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">X,0 + / - 0,10</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">X,00 + / - 0,05</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">X,000 + / - 0,025</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">ANGULAR + / - 0,25°</td></tr><tr><td colspan="2"></td><td colspan="2">ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED. DO NOT SCALE</td><td colspan="2">3RD ANGLE PROJ</td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr></table>								PART NUMBER BARCODE		DORMAN REF No.		TITLE		PROJECT No.						HD ALT PRODUCT CONFIGURATION		146				CUST REF NO.		MATERIAL		TOLERANCES								X + / - 0,25								X,0 + / - 0,10								X,00 + / - 0,05								X,000 + / - 0,025								ANGULAR + / - 0,25°				ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED. DO NOT SCALE		3RD ANGLE PROJ															
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<table><tr><td colspan="2">UNIPART DORMAN</td><td colspan="2">UNIPART DORMAN</td><td colspan="2">UNIPART DORMAN</td><td colspan="2">UNIPART DORMAN</td></tr><tr><td colspan="2">WENNINGTON ROAD, SOUTHPORT. PR9 7TN.</td><td colspan="2">WENNINGTON ROAD, SOUTHPORT. PR9 7TN.</td><td colspan="2">WENNINGTON ROAD, SOUTHPORT. PR9 7TN.</td><td colspan="2">WENNINGTON ROAD, SOUTHPORT. PR9 7TN.</td></tr><tr><td colspan="2">© Unipart Rail Limited 2020</td><td colspan="2">© Unipart Rail Limited 2020</td><td colspan="2">© Unipart Rail Limited 2020</td><td colspan="2">© Unipart Rail Limited 2020</td></tr><tr><td colspan="2">THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION</td><td colspan="2">THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION</td><td colspan="2">THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION</td><td colspan="2">THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION</td></tr><tr><td colspan="2">DRAWING / PART No.</td><td colspan="2">DRAWING / PART No.</td><td colspan="2">DRAWING / PART No.</td><td colspan="2">DRAWING / PART No.</td></tr><tr><td colspan="2">0094/019441</td><td colspan="2">0094/019441</td><td colspan="2">0094/019441</td><td colspan="2">0094/019441</td></tr></table>								UNIPART DORMAN		UNIPART DORMAN		UNIPART DORMAN		UNIPART DORMAN		WENNINGTON ROAD, SOUTHPORT. PR9 7TN.		WENNINGTON ROAD, SOUTHPORT. PR9 7TN.		WENNINGTON ROAD, SOUTHPORT. PR9 7TN.		WENNINGTON ROAD, SOUTHPORT. PR9 7TN.		© Unipart Rail Limited 2020		© Unipart Rail Limited 2020		© Unipart Rail Limited 2020		© Unipart Rail Limited 2020		THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION		THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION		THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION		THIS DOCUMENT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND MAY NOT BE USED OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION		DRAWING / PART No.		DRAWING / PART No.		DRAWING / PART No.		DRAWING / PART No.		0094/019441		0094/019441		0094/019441		0094/019441																																					
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SIGNAL HEAD VARIATIONS AVAILABLE FOR THE
HEAVY DUTY ASSISTED LIFT TRUNNION (HDALT)

HDAL86 PADS No. 0094/019483	HDAL87 PADS No. 0094/019484	HDAL88 PADS No. 0094/019485	HDAL89 PADS No. 0094/019486
HDAL90 PADS No. 0094/019487	HDAL91 PADS No. 0094/019488	HDAL92 PADS No. 0094/019489	HDAL93 PADS No. 0094/019490

				CHECKED BY.
2	19/08/21	MD	SEE ECN3781_0	AD
1	08/04/21	MD	SEE ECN3620_0	AD
0	29/07/20	AD	ORIGINAL ECN 3354_0	
ISS	DATE	INI	ALTERATIONS	
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DORMAN REF No.	TITLE HD ALT PRODUCT CONFIGURATION	PROJECT No. 146
CUST REF NO.	MATERIAL	TOLERANCES X + / - 0,25 X,0 + / - 0,10 X,00 + / - 0,05 X,000 + / - 0,025 ANGULAR + / - 0.25°
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED. DO NOT SCALE	3RD ANGLE PROJ	DRAWN A DREWETT CHECKED MD AUTH. PB DATE 29/07/2020 SCALE NTS SHEET 5 OF 6 SHEETS



1	2	3	4	5	6	7	8	
A								A
B								B
C								C
D								D
E								E
F								F

HEAD TYPE	MIN RED ASPECT TO RAIL DISTANCE (FOUNDATION LEVEL WITH RAIL)
HDAL04	2052mm
HDAL05	2052mm
HDAL06	2052mm
HDAL53	2052mm
HDAL54	2052mm
HDAL55	2052mm
HDAL86	2052mm
HDAL13	2552mm
HDAL14	2552mm
HDAL15	2552mm
HDAL37	2552mm
HDAL38	2552mm
HDAL60	2552mm
HDAL61	2552mm
HDAL62	2552mm
HDAL63	2552mm
HDAL64	2552mm

HEAD TYPE	MIN RED ASPECT TO RAIL DISTANCE (FOUNDATION LEVEL WITH RAIL)
HDAL22	2540mm
HDAL23	2540mm
HDAL24	2540mm
HDAL39	2540mm
HDAL69	2540mm
HDAL70	2540mm
HDAL71	2540mm
HDAL72	2540mm
HDAL73	2540mm
HDAL88	2540mm
HDAL41	2940mm
HDAL43	2940mm
HDAL90	2940mm
HDAL92	2940mm
HDAL42	3202mm
HDAL44	3202mm
HDAL91	3202mm
HDAL93	3202mm

HEAD TYPE	MIN RED ASPECT TO RAIL DISTANCE (FOUNDATION LEVEL WITH RAIL)
HDAL29	2802mm
HDAL30	2802mm
HDAL31	2802mm
HDAL32	2802mm
HDAL33	2802mm
HDAL40	2802mm
HDAL77	2802mm
HDAL78	2802mm
HDAL79	2802mm
HDAL80	2802mm
HDAL81	2802mm
HDAL82	2802mm
HDAL89	2802mm

IF FOUNDATION IS ABOVE THE RAIL, THIS WILL RESULT IN INSUFFICIENT SPACE TO FIT SIGNAL IN TRUNNION.

PLEASE CONTACT UNIPART DORMAN FOR SPECIALIST ADVICE.

PART NUMBER BARCODE		DORMAN REF No.		TITLE		PROJECT No.	
		CUST REF NO.		HD ALT PRODUCT CONFIGURATION		146	
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED. DO NOT SCALE		3RD ANGLE PROJ		MATERIAL		DRAWN A DREWETT	
				X + / - 0,25		CHECKED MD AUTH. PB	
				X,0 + / - 0,10		DATE 29/07/2020	
				X,00 + / - 0,05		SCALE NTS	
				X,000 + / - 0,025		SHEET 6 OF 6 SHEETS	
				ANGULAR + / - 0,25			

2	19/08/21	MD	SEE ECN3781_0	AD
1	08/04/21	MD	SEE ECN3620_0	AD
0	29/07/20	AD	ORIGINAL ECN 3354_0	
ISS	DATE	INI	ALTERATIONS	

UNIPART
DORMAN

UNIPART DORMAN
WENNINGTON ROAD, SOUTHPORT. PR9 7TN.

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DRAWING / PART No.
0094/019441