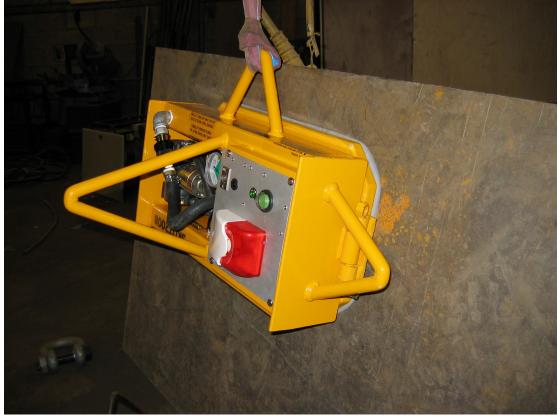
THE VACUUM LIFTING COMPANY LTD

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CUSTOMER: A MINI CRANE HIRE COMPANY



CONTENTS: **1 GENERAL** 1.1 LIFTING SPECIFICATION 1.1.1 LOAD SPECIFICATION 1.1.2 CONDITIONS 1.2 SAFETY GUIDELINES

2 INSTALLATION INSTRUCTIONS 2.1 FITTING BATLIFT 2.2. SUCTION PADS

3 DIRECTIONS FOR USE

3.1 GENERAL3.2 OPERATING PROCEDURE3.3 DISCONNECTING

4 MAINTENANCE 4.1 DAILY 4.2 WEEKLY 4.3 MONTHLY

5 TROUBLE SHOOTING

5.1 VACUUM SYSTEM5.2 ELECTRICAL SYSTEM

ENCLOSURES - SPECIFICATION SHEETS - VACUUM PUMP PARTS - TEST CERTIFICATE - CE CERT

1. GENERAL

PLEASE NOTE THAT THE MANUFACTURER DISCLAIMS ANY RESPONSIBILITY FOR MATERIAL DAMAGE OR PERSONAL INJURY CAUSED BY IMPROPER USE OF THIS BATLIFT. THE OPERATOR MUST READ THIS MANUAL BEFORE USING THE DEVICE.

1.1. LIFTING SPECIFICATION

THE VACUUM LIFTING DEVICE IN COMBINATION WITH THE SUPPLIED SUCTIONPADS IS ONLY SPECIFIED FOR LIFTING OF THE MATERIALS SPECIFIED BELOW. THE LIFTER IS NOT SUITABLE FOR USE WITHIN HAZARDOUS/EXPLOSIVE ATMOSPHERES.

1.1.1 LOAD SPECIFICATION

A 577 KG CAPACITY BATLIFT SYSTEM TO LIFT CONCRETE/STONE SLABS OR STEEL PLATES / SECTIONS WITH CRANE OR MINI-DIGGER: LENGTH : MIN 600 MM WIDTH : MIN 4000 MM THICKNESS: VARIABLE MAX WEIGHT: 577/385 KG SIDELIFT

SURFACE : FREE FROM DETRITUS THAT COULD IMPEDE EFFECTIVE SEALING, NO EXTREME IRREGULARITIES, GREASE OIL OR ANY CONTAMINANTS. OPERATING TEMPERATURE : -20 TO 60 DEG. C MAX. LIFT INCLINATION: TO 90 DEG. FROM HORIZONTAL

1.1.2 CONDITIONS

AMBIENT TEMP.: UP TO 40 DEG. C. HOIST ACCELERATION : MAX 1 MS-2 LIFTING OR LOWERING

1.2 OPERATING SAFETY GUIDELINES

1.2.1 TRAINING

ENSURE THAT THE MACHINE IS ONLY OPERATED BY PERSONNEL WHO HAVE BEEN SATISFACTORILY TRAINED IN THE USE OF THE MACHINE AND FULLY UNDERSTAND THE OPERATING SAFETY GUIDELINES PRESENTED BELOW.

1.2.2 ALARM SYSTEM

THE MACHINE IS FITTED WITH AN AUDIBLE AND VISUAL ALARM INDICATION SYSTEM WHICH COMPRISES:

1 RED INDICATOR LAMP - VISUAL INDICATION OF VACUUM LEVEL BELOW 60%

1 AUDIBLE ENUNCIATOR - AUDIBLE INDICATION OF VACUUM LEVEL BELOW 60%

WITH THE MACHINE SWITCHED ON THE ALARM SYSTEM WILL ANNUNCIATE A LOW VACUUM ALARM CONDITION IF THE VACUUM LEVEL IS INITIALLY BELOW 60% OR SHOULD DROP BELOW 60%

TO TEST THE ALARM SYSTEM, ENSURE THAT THE STORED VACUUM RESERVOIR IS REDUCED TO ZERO - SWITCH ON THE MACHINE, THE ALARM SYSTEM WILL OPERATE UNTIL THE VACUUM LEVEL ACHIEVED IS ABOVE 60% - AT THIS POINT THE ALARM ANNUNCIATION WILL STOP AND THE SYSTEMS O.K. INDICATOR LAMP WILL ILLUMINATE. IF THE ALARM SYSTEM DOES NOT OPERATE AS DESCRIBED DO NOT USE THE MACHINE AND REPORT THE DEFECT IMMEDIATELY.

THE ALARM SYSTEM IS TO BE TESTED ON A DAILY BASIS BEFORE THE COMMENCEMENT OF LIFTING OPERATIONS.

DO NOT ATTEMPT TO LIFT A LOAD WITHOUT THE MACHINE SWITCHED ON IT IS DANGEROUS TO ATTEMPT TO LIFT A LOAD USING RESIDUAL VACUUM HELD WITHIN THE VACUUM RESERVOIR.

1.2.4 VACUUM GAUGE

THE MACHINE IS FITTED WITH A VACUUM GAUGE WHICH INDICATED THE LEVEL OF VACUUM ACHIEVED, THE GAUGE IS CALIBRATED FROM 0-100%. THE SCALING ON THE GAUGE HAS A SECTOR COLOURED GREEN FROM 60 - 80%, THIS INDICATES THE VACUUM LEVEL REQUIRED TO LIFT A MAXIMUM PERMISSIBLE LOAD OF 577 KGS.

WHEN OPERATING THE VACUUM UNIT THE OPERATOR MUST HAVE A CLEAR VIEW OF THE VACUUM GAUGE AS THIS WILL GIVE AN EARLY INDICATION IN THE EVENT OF AN ABNORMAL DECREASE IN THE VACUUM LEVEL. 1.2.5 LIFTING OPERATIONS

DURING NORMAL OPERATION THE MACHINE MAY BE USED TO LIFT LOADS OF UP TO 577 KG WHEN THE MACHINE HAS ACHIEVED A VACUUM LEVEL OF 60% OR ABOVE AS INDICATED BY THE VACUUM GAUGE. THE OPERATOR MUST HAVE CLEAR UNOBSTRUCTED VIEW OF THE VACUUM GAUGE TOGETHER WITH THE RED AND GREEN LAMPS. DO NOT ATTEMPT TO LIFT A LOAD OF 630 KGS IF THE VACUUM GAUGE INDICATES LESS THAN 60%, OR IF AN ALARM CONDITION IS ANNUNCIATED

IF, WHIST LIFTING LOAD THE VACUUM LEVEL DROPS BELOW 60% OR AN ALARM CONDITION IS ANNUNCIATED , LOWER THE LOAD TO A SAFE POSITION IMMEDIATELY.

1.2.6 S.W.L.

THE MAXIMUM LIFTING CAPACITY IS INDICATED ON THE LIFTING DEVICE. ON THE SUCTION PADS THE MAXIMUM LIFTING CAPACITY IS ALSO INDICATED. THE MINIMUM S.W.L. VALUE SHOWN IS THE MAXIMUM S.W.L. FOR THIS UNIT.

THE A-WEIGHTED TIME AVERAGED EMISSION SOUND PRESSURE (LEQ) MEASURED AT A HORIZONTAL DISTANCE OF 1 M FROM THE CENTRE OF THE UNIT DOES NOT EXCEED 70 DB(A)

IT IS FORBIDDEN TO BE UNDER OR IN PROXIMITY OF THE LOAD!!!

PLEASE ENSURE THAT LIFTED LOAD IS NOT CARRIED OVER PERSONNEL!!!

2. INSTALLATION INSTRUCTIONS SEE ILLUSTRATION OF LIFTER

2.1 FITTING BATLIFT

THE UNIT IS FITTED WITH TOPLIFTPOINT/SHACKLE - PLS. NOTE THE FOLLOWING; THE HOOK SIZE SHOULD MATCH THE LIFTING TACKLE THE LIFTING CAPACITY OF THE GANTRY CRANE SHOULD BE SUFFICIENT FOR THE SUM LOADING OF LIFTER AND LOAD 40 + 577 KGS = 410 KGS.

IF THE CAPACITY OF THE LIFTING GEAR IS MUCH HIGHER THAN LIFTER CAPACITY OF THE LIFTER THEN CARE SHOULD BE TAKEN THAT ACCELERATION TIME DOES NOT EXCEED 1 METRE/SEC2.

2.2. SUCTION PADS

THE DEVICE IS SUPPLIED WITH 1 OFF 600 X 400 MM MM STEEL SUCTIONPAD - WITH A CAPACITY OF 577 KGS @ MIN VACUUM 60%.

3. DIRECTIONS FOR USE

3.1 GENERAL

THE UNIT IS SUPPLIED WITH A MANUALLY OPERATED CONTROL VALVE SEE UNIT ILLUSTRATION. UNIT IS FITTED WITH AUTOSHUT OFF SWITCH TO SAVE BATTERIES

3.2 OPERATING THE UNIT

SWITCH UNIT ON BY PRESSING THE GREEN SWITCH OFF/ON AS **ILLUSTRATED - THE UNIT** WILL START IMMEDIATELY - ENSURE THE VALVE IS IN POSITION OFF AS SHOWN(VALVE SLID UP TO TOP POSITION) AND ALLOW VACUUM TO BUILD UP UNTIL THE ALARM STOPS AND THE GREEN LAMP FLASHES.

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SAFE LIFTING IS ONLY POSSIBLE WHEN THE

LOAD IS CORRECTLY DIVIDED OVER THE SUCTION PAD - THE UNIT SHOULD BE CENTRED ON PANEL TO BE LIFTED. UNIT IS THEN LOWERED ONTO PANEL ENSURING THAT THE PAD DOES NOT OVERLAP MATERIAL BEING LIFTED AND THAT IT IS PRESSED AGAINST PANEL.

TO ACTIVATE CONTROL VALVE - SLIDE BLUE SLIDE VALVE , VACUUMIZATION OF PAD TAKES PLACE WITHIN 1 SECOND. WHEN RELEASING PANEL/PLATE/SLAB OPERATOR MUST ENSURE THAT IT IS ADEQUATELY SUPPORTED AND HE IS WELL CLEAR OF ANY POSSIBLE MATERIAL SHIFT AFTER DEACTIVATING THE SUCTIONPADS.

BEFORE LIFTING A LOAD PLEASE NOTE THE FOLLOWING:

A) IS THE UNIT CAPACITIY ADEQUATE FOR THE LOAD?

B) IS THE LENGTH OF THE LOAD WITHIN 600 MM? AND THE WIDTH WITHIN 400 MM

C) IS THE SURFACE OF THE PANEL FREE FROM DIRT/SWARF THAT COULD AFFECT SEALING??

D) IS THE SURFACE FREE FROM FLAWS/HOLES ETC THAT COULD PREVENT THE PAD FROM SEALING

IMPORTANT - YOU ARE ONLY ALLOWED TO LIFT A 577 KGS LOAD IF THE VACUUM IS ABOVE 60% AND VKT60/40 PAD IS FITTED. MAKE SURE THAT THE VACUUM IS NOT DECREASING WHILST LIFTING - WATCH THE VACUUM GAUGE..

3.3 DISCONNECTING

3.3.1. SWITCHING OFF TURN THE ISOLATOR SWITCH TO OFF ON UNIT.

CHARGING

ENSURE THAT THE UNIT IS SWITCHED OFF!!!!. PLUG IN THE SUPPLIED CHARGER. THE UNIT IS FITTED WITH AN AUTOMATIC CHARGING SYSTEM AUTOMATICALLY TIMED TO PROVIDE THE CORRECT CHARGE PERIOD.

N.B. WE ACCEPT NO LIABILITY FOR DAMAGE TO GEL BATTERIES OR CHARGING SYSTEM THRU' MISUSE OR UNDER CHARGING. GEL BATTERIES SHOULD BE TREATED AS A CONSUMABLE ITEM AND ARE NOT COVERED BY GUARANTEE.

3.3.2. STORAGE

WHEN UNIT IS NOT BEING USED YOU ARE ADVISED TO KEEP THE SUCTION PADS OFF THE FLOOR WHEN WET.

FOR LONG TERM STORAGE THE BATTERIES SHOULD BE CHARGED ONCE A WEEK WITH ON-BOARD CHARGING SYSTEM AND THE UNIT SHOULD BE STORED IN A DRY ROOM.

4. MAINTENANCE

CHECK RUBBER SEALS FOR LOCALIZED DAMAGE & WEAR. BADLY WORN & DAMAGED SEALS SHOULD BE REPLACED PRIOR TO USE. NEW SEALS CAN BE INSERTED INTO SEAL PROFILE USING INSERT BAR AT AN ANGLE OF 45 DEG.

CHECK THAT ALARM SYSTEM IS OPERATING CORRECTLY(IF FITTED) -WARNING SIREN SHOULD STOP AFTER 60% REACHED IN RESERVOIR(VACUUM GAUGE). IF ALARM IS NOT WORKING IT SHOULD BE REPAIRED IMMEDIATELY.

CHECK THE SUSPENSION POINTS FOR DAMAGE. 4.2 WEEKLY CHECKS

CHECK FILTER ELEMENT ON FILTER BETWEEN RESERVOIR & VALVE IS CLEAN - IF FITTED -IF NECESSARY CLEAN OR RENEW. PARTICULARLY MOIST OR DUSTY ATMOSPHERES WILL REQUIRE MORE FREQUENT ATTENTION. CHECK INTEGRITY OF AIR FILTER HOUSING. CHECK LEGIBILITY OF ALL WARNING & INFORMATION LABELS. CHECK VACUUM RESERVOIR FOR WATER - REMOVE GAUGE AND TURN UPSIDE DOWN. CHECK FILTER ELEMENT ON VACUUM PUMP(IF FITTED) - IF DIRTY, CLEAN OR EXCHANGE. CHECK INTEGRITY OF AIR FILTER HOUSING

CHECK LEGIBILITY OF ALL WARNING & INFORMATION LABELS.

4.3. MONTHLY MAINTENANCE

INSPECT SHACKLES & SUSPENSION POINTS EVERY MONTH. WHEN THE CROSS SECTION IS REDUCED BY OVER 10% - THE PARTS SHOULD BE REPLACED IMMEDIATELY

5. TROUBLE SHOOTING

5.1. VACUUM SYSTEM A. VACUUM PERCENTAGE IS BELOW 60% CAUSE: LEAKAGE IN THE VACUUM HOSES OR BADLY APPLIED HOSE CLIPS; THE SEALS IN THE SUCTION PADS HAVE BEEN DAMAGED; THE FILTER IS DIRTY: THE THREE-WAY VALVE DOES NOT SEAL PROPERLY: REMEDY: CHANGE THE VACUUM HOSES OR CLIPS: CHANGE THE SEAL IN THE SUCTION PADS: CLEAN THE FILTERS: DEMOUNT THE THREE-WAY VALVE, CLEAN, GREASE, AND THEN REMOUNT IT;

C. THE VACUUM PUMPS ARE TOO HOT OVER 120 C CAUSE: FILTHY COOLING RIBS IN VACUUM PUMP: **REMEDY: CLEAN THE COOLING RIBS:**

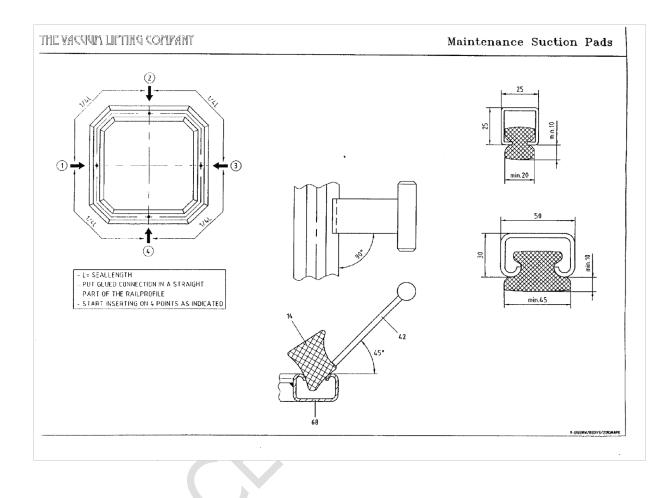
B. THE ALARM SYSTEM IS NOT SWITCHED OFF WHEN THE VACUUM PERCENTAGE IS OVER 60% CAUSE; THE VACUUM SWITCH HAS BEEN DAMAGED: REMEDY; CHANGE THE VACUUM SWITCH.

5.2. ELECTRICAL SYSTEM A. THE ELECTRIC MOTORS CANNOT BE STARTED CAUSE: THE MCB FUSES HAVE TRIPPED OFF: REMEDY: FIND SHORT CIRCUIT AND CHANGE FUSES: FIND CAUSE AND RESET THERMAL RELAY.

B. THE ALARM SYSTEM IS NOT SWITCHED OFF AND THE GREEN SYSTEM O.K. LAMP IS NOT ILLUMINATED IF THE VACUUM PERCENTAGE IS OVER 60%

CAUSE: THE VACUUM SWITCH REQUIRES ADJUSTMENT OR HAS BEEN DAMAGED:

REMEDY: ADJUST AS BELOW OR CHANGE THE VACUUM SWITCH.



SUCTION PAD SEAL – CHECK SEAL FOR WEAR AND DAMAGE DAILY USE SEAL INSERT TOOL TO REPLACE IF REQUIRED

PARTS LIST					
ITEM	QTY	PART No			
	Q				
FUSEHOLDER current unit	1 OFF	236-5731			
PLUG XLR	1 OFF	405-590			
SOCKET XLR	1 OFF	405-629			
ON/OFF SW PUSH	1 OFF	319-348			
BUTTON CAP GREEN	1 OFF	319-382			
SPLASHPROOF COVER	1 OFF	266-1887			
TERMINAL BLOCK 3 WAY	1 OFF	425-077			
RED LEAD	1 OFF	356-1839			
BLACK LEAD	1 OFF	356-1845			
CONVUM	1 OFF	1/8"			
RELAY 10A SPCO	1 OFF				
OMRON G2R 1 T12DC	1 OFF	211-1269			
SIREN/STROBE 12Vdc	1 OFF	217-8953			
LED GREEN	1 OFF	577-128			
PUMP	1 OFF	DDVLC			
BATTERY	1	12AH YUASA SEALED			
HOSE CONNECTOR FOR 1/2" HOSE	1	795433			
VACUUM GAUGE	1 OFF	63VLC			
SUCTION PADS					
	КТ60/40				
QUANTITY : 1					
DIMENSIONS : 600 X 400 MM					
SEAL TYPE : 40 X 25 MM CODE 088005					
SEAL LENGTH : 1840 MM LIFTING CAPACITY : 577 KG @ 60%					
SIDELIFTING CAPACITY : 385 KG @ 60%					
SIDELIFIING CAFACITE : 305 KG (00%					



TEST CERTIFICATE LIFT EQUIPMENT

DEVICE TYPE :	SKDT600B S	AFE WORKING LOAD: 57	7 KGS	/385KG SIDELIFT
PROOF LOAD:	1154 KGS/	770 KGS SIDELIFT		
SERIAL NO :	03661	PLANT NO: N/A		
SUCTIONPAD	: VKT60/40	SAFE WORKING LOAD	:	577 KGS
QUANTITY	: 1 OFF	PROOF LOAD	:	1154 KGS
DEAD WEIGHT :40KG (INCL) YEAR OF CONSTRUCTION:20.02.24				

INDICATED MAXIMUM LOAD	
DIMENSIONS OF SUCTIONPADS ACC. TO SP	EC GOOD
MAXIMUM VACUUM %	75%
MAXIMUM VACUUM% (UNDER SUCTION)	75%
VACUUM PERCENTAGE AT SUCTION ACTIVATE	60%
S.W.L. VACUUM LEVEL	60%
SAFETY FACTOR @ S.W.L. VACUUM LEVEL	2
TIMED VACUUM DROP FROM 75%- 30%	
WITH 607 KG LOAD :	BETTER THAN 6 HOURS

TRIAL WITH PROOF LOADPAD

N/A

ABOVE POINTS COPIED CORRECTLY FROM INSPECTION SHEET: DATE: 20.02.24 PAUL WATSON M.D.

Creeke

EC-DECLARATION OF CONFORMITY FOR MACHINERY (DIRECTIVE 2006/42/EC)

MANUFACTURER: THE VACUUM LIFTING COMPANY LTD LOW TODHILL ROWALLAN KILMARNOCK KA3 2LW HEREWITH DECLARES THAT THE VACUUM LIFTING DEVICE TYPE SKDT600B SERIAL NO: SN:03661 - IS IN CONFORMITY WITH THE PROVISIONS OF DIRECTIVE 2014/30/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 17 MAY 2006 ON MACHINERY.

PAUL WATSONPAUL WATSON

MANAGING DIRECTOR

HEREWITH DECLARES THAT THE VACUUM LIFTING DEVICE TYPE SKDT600B SERIAL NO: SN:03661 - IS IN CONFORMITY WITH THE PROVISIONS OF THE LOW VOLTAGE DIRECTIVE (LVD) 2014/35 EC AND THE EMC DIRECTIVE 2014/30/EC , AND WITH NATIONAL IMPLEMENTING LEGISLATION:

TN 69

jshn craig

TECHNICAL MANAGER

