



Four Post Surface Lift

SM40/AR40/SM55/AR55/AR55W

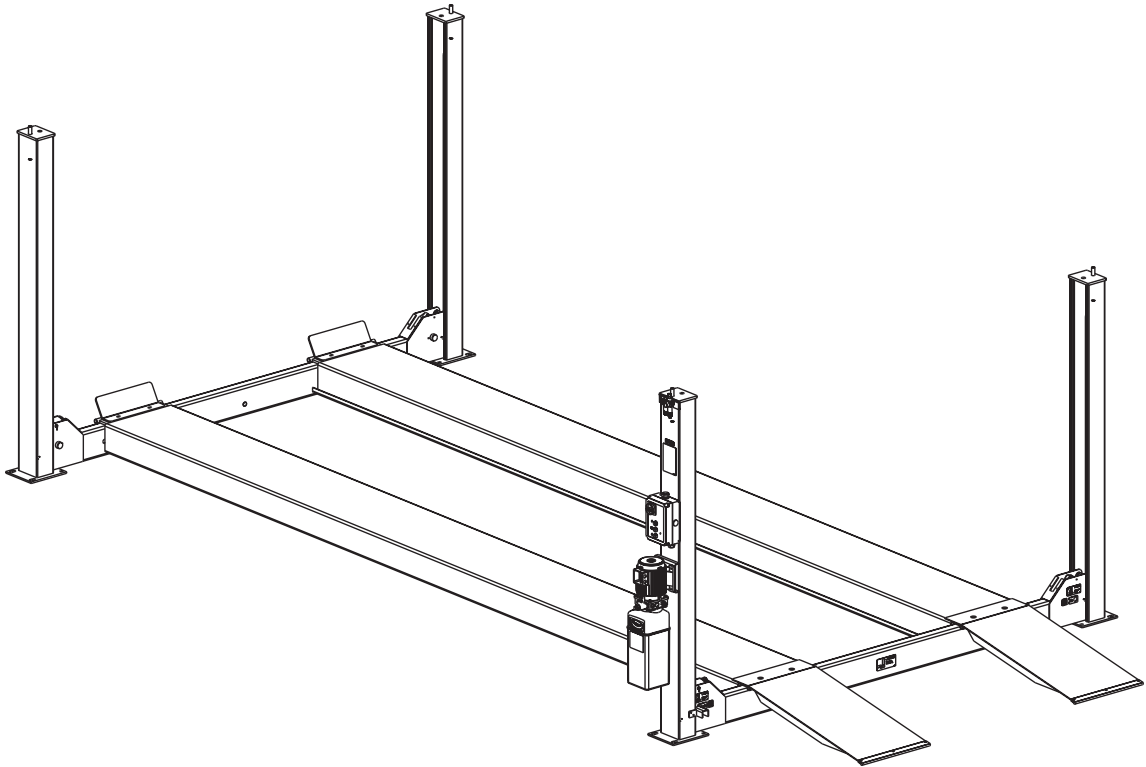


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LP20100

Only those technicians who have been properly trained in the usage and care of the lift should be allowed to operate the lift.

Local regulations MAY require that the operator be at least 18 years of age and be supervised by a trained operator while:

- A. Positioning the vehicle in the service bay,**
- B. Actuating the lift controls.**

The lift is to be used indoors for raising unoccupied motor vehicles ONLY!

ONLY lift vehicles which have an individual axle weight that does not exceed one-half the lift capacity. See load capacity table below.

MODEL	LOAD CAPACITY
SM40	4000kg
AR40	4000kg
SM55	5500kg
AR55	5500kg
AR55W	5500kg

Lift Controls

- ① Turning Disconnect to the right provides electricity to the motor.
- ② Pushing button starts the motor and raises the runways.
- ③ Pushing button lowers to locks.
- ④ Pushing button raises lift, retracts locks and lowers runways to 200mm from floor.
- ⑤ Pushing button lowers lift from 200mm until runways are lowered to the floor.
- ⑥ Remove cap to fill or add fluid to power unit tank.

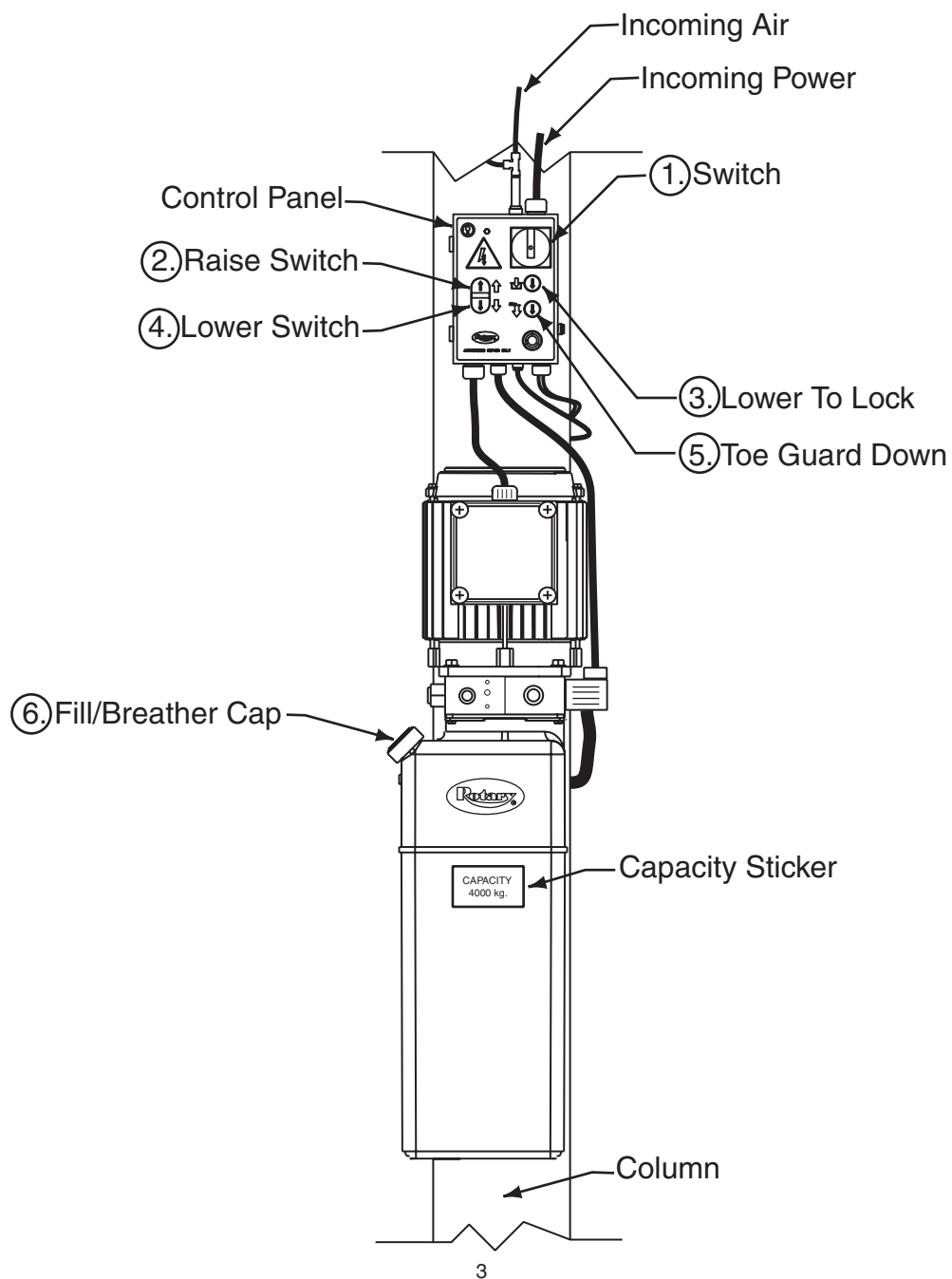


Fig. 1

OPERATING INSTRUCTIONS

Surface Mounted Wheel Engaging Lifts



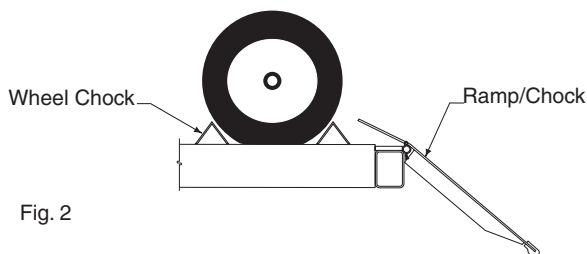
To avoid personal injury and/or property damage, permit only trained personnel to operate lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift.

1. Before Loading:

- Inspect Lift - See "Operator Maintenance" on page 6. Never operate if lift malfunctions or has broken or damaged parts.
- Lift must be fully lowered and service bay clear of all personnel before the vehicle is positioned onto lift.
- Assure area around lift is free of tools, debris, grease, and oil.
- If lift is equipped with rolling jacks, jacks must be fully lowered and the rear jack pushed toward center of lift to provide under car clearance.
- Do Not allow unauthorized persons in shop area while lift is in use.
- Do Not use any part of the lift as a crane or as a support for another lifting mechanism. (i.e.: block & tackle, etc.)

2. Loading:

- The operator of the lift is required to be at least 18 years of age, and must have been instructed by a trained operator.
- Do Not allow unauthorized or untrained persons to position vehicle or operate lift.
- Do Not overload lift. See capacity label on lift.
- Drive vehicle onto lift and stop vehicle when it is centered on runway. At all times, be sure rear wheels are forward of the ramp/chocks and the ramp/chocks will clear tires when the lift is raised, Fig. 2.
- Put vehicle in park, engage parking brake and place triangular wheel chocks on each side of one of the rear tires, Fig. 2.



3. To Raise Lift:

- Do Not permit anyone on lift or inside vehicle when it is being raised (or lowered).
- Maintain visual contact with lift & vehicle throughout the motion of the lift while remaining clear of lift.
- Push RAISE switch on power unit, Fig. 1.

Note: Allow 2 seconds between motor starts. Failure to comply may cause motor burnout.

- Continue to raise to desired height.
 - Lower lift onto locks after desired height is reached.
- ### 4. While Using Lift:
- Always use safety stands as needed for stability when removing or installing heavy components. (i.e.: engines, transmissions, etc.) Use 4 safety stands.
 - Raise safety stands to meet vehicle, do not lower vehicle onto stands.
 - Avoid accidental touching of exposed exhaust system on raised vehicles. Watch for air hoses and electrical cords which may be tripped over.
 - Wear safety glasses while working under vehicle.
- ### 5. Before Lowering Lift:
- Remove all tools or other objects from lift area.
 - Assure personnel are not in lift area.
- ### 6. To Lower Lift:
- Remain clear of lift when lowering vehicle. Keep Feet Clear!
 - Push LOWER switch to lower, Fig. 1.
- ### 7. Unloading:
- Fully lower lift.
 - Remove triangular wheel chocks.
 - Assure Exit area is clear of objects and personnel before removing vehicle from lift.
 - Carefully drive vehicle off lift.
- ### 8. Power Off:
- Turn switch to "OFF" position while lift is not in use.
- ### 9. Trouble Shooting:
- See page 7.
- ### 10. Maintenance:
- See page 7.

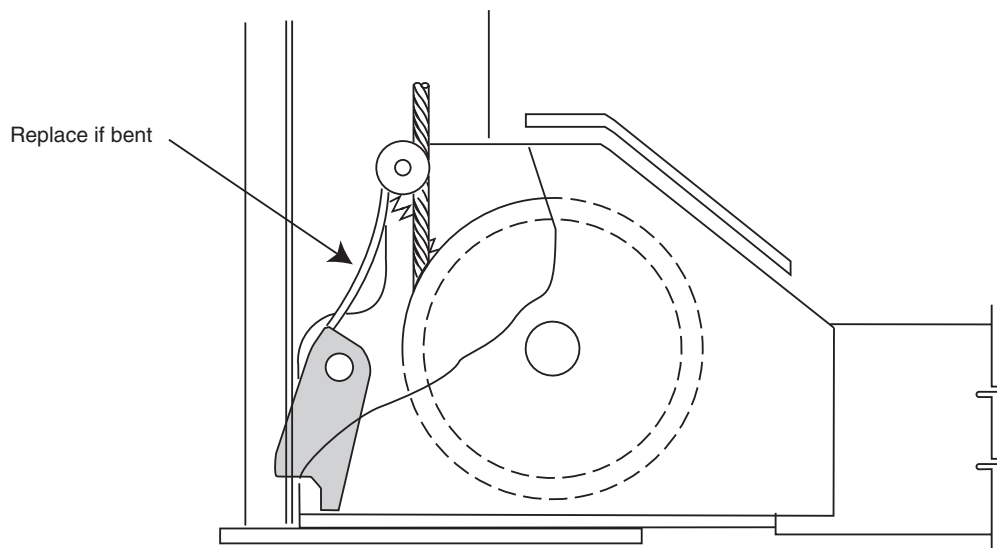
RESIDUAL RISKS

- Assure cargo does not cause either individual axle weight to exceed two thirds lift capacity.

OPERATOR INSPECTION & MAINTENANCE

(MAINTENANCE AUTHORIZED BY OPERATOR)

- **Always** keep bolts tight. Check periodically.
- **Always** raise lift when cleaning floor area with solvents and/or cleaning compounds.
- **Always** keep lift components clean.
- **Always**, if fluid leakage is observed, call local service representative.
- **Daily:** Check cables and sheaves for wear. If parts are damaged or worn, call local service representative to replace.
- **Daily:** Inspect front wheel stops and ramp/chocks for damage or excessive wear. If parts are damaged or worn, call local service representative to replace.
- **Daily:** Check locking latch operation and reset. If not operating properly, call local service representative.
- **Daily:** Check for permanent deformation of slack cable arms (see below). If present, call local service representative to replace parts.
- **Monthly:** Check slack cable switches for function.
- **Every 3 Months:** Check anchor bolts for tightness. Anchors should be torqued to 61 N - m.
- **Every 6 months:** Check fluid level of lift power unit and refill to proper level in level indicator with lift fully lowered.
- **Replace** all decals on the lift if unable to read or missing. Reorder labels from Rotary Lift.



NOTE: LIFT SHOULD RAISE LEVEL. IF LIFT IS NOT RAISING LEVEL, CHECK CABLES FOR STRETCH. CABLES MAY NEED ADJUSTMENT (BY AUTHORIZED PERSONNEL). MOST CABLE STRETCH OCCURS DURING THE FIRST 30 - 90 DAYS OF LIFT USE.

TROUBLE SHOOTING (for OPERATORS)

Trouble	Cause	Remedy
Motor does not run.	Blown fuse or circuit breaker.	<ol style="list-style-type: none"> 1. Replace blown fuse or reset circuit breaker. 2. Contact service representative for further assistance.
Motor runs but will not raise lift.	Low fluid level.	<ol style="list-style-type: none"> 1. Fill tank with Dexron III ATF or equivalent. 2. Contact service representative for further assistance.
Motor runs—raises unloaded lift but will not raise vehicle.	Overloading lift.	<ol style="list-style-type: none"> 1. Check vehicle weight and/or balance vehicle weight on lift. 2. Contact service representative for further assistance.
Lift slowly settles down.	See Remedy	Contact service representative for further assistance.
Slow lifting speed or fluid blowing out filler breather cap.	See Remedy	Contact service representative for further assistance.
Lift going up unlevel.	See Remedy	Contact service representative for further assistance.
Anchors will not stay tight.	See Remedy	Contact service representative for further assistance.
Locking latches do not engage.	See Remedy	Contact service representative for further assistance.
Locking latches do not disengage.	See Remedy	Contact service representative for further assistance.

REPAIR MAINTENANCE

(MAINTENANCE AUTHORIZED BY QUALIFIED SERVICE REPRESENTATIVE ONLY)

- **Lockout** any energy sources before beginning any repairs.
- **DO NOT** modify the lift in any manner without the prior written consent of the manufacturer.
- If electrical problems develop, make repairs according to local electrical codes. Use genuine Rotary Lift parts when replacement is necessary.
- **Replace** worn parts as required with genuine Rotary parts.
- **Cable** adjustment should be checked by a Rotary Authorized Installer after the first 50 loaded lift cycles and after 300 loaded lift cycles.
- **Adjust** cable tension per lift installation instructions.
- **Monthly:** Lubricate locking latch shafts. Activate latches several times for oil to penetrate joints.

Annual Inspection (performed by Authorized Personnel)

Aside from the routine checks that are stated under "Operator Maintenance", the following annual inspection is to be performed and a record of this inspection permanently retained on site. All deficiencies are to be corrected by the proper authorized personnel.

Inspection Points

- Check accessibility of the operating procedures.
- Check accessibility and readability of all labels.
- Check the rated load capacity of the lift.
- Examine all structural components including welds.
- Check electrical cords for insulation damage.
- Check fluid level.
- Check the lift controls for function.
- Check all fastening devices for tightness including floor anchor bolts.
- Check exposed surfaces and edges.
- Operate the lift and check the operation of the positive stop and the lift safety latches.
- With a representative vehicle on the lift, check the lowering speed (not to exceed 0.15 m/s).
- With a representative vehicle on the lift, check cable tension adjustment.
- Check the function of slack cable switches.
- Check all accessible piping, tubing, hose, valves and fittings. Review lift fluid consumption records.
- Operate lift through full excursion and observe.
- * With lift loaded, stop the lift at midpoint of travel and observe for drifting down and hydraulic leaks.
- Check with operator to ascertain any unusual operating characteristics.

* Perform check with and without a vehicle representative load.

TROUBLE SHOOTING

(FOR AUTHORIZED MAINTENANCE PERSONNEL)

Trouble	Cause	Remedy
Motor does not run.	<ol style="list-style-type: none"> 1. Incorrect voltage to motor. 2. Bad wiring connections. 3. Motor up switch fault. 4. Overhead limit switch fault. 5. Motor windings burned out. 	<ol style="list-style-type: none"> 1. Supply correct voltage to motor. 2. Repair and insulate all connections. 3. Check switch. 4. Check switch. 5. Replace motor.
Motor runs but will not raise lift.	<ol style="list-style-type: none"> 1. Open lowering valve. 2. Pump sucking air. 3. Suction tube off pump. 	<ol style="list-style-type: none"> 1. Repair or replace lowering valve. 2. Tighten all suction line fittings. 3. Replace suction tube.
Motor runs—raises unloaded lift but will not raise vehicle.	<ol style="list-style-type: none"> 1. Motor running on low voltage. 2. Debris in lowering valve. 3. Improper relief valve adjustment. 	<ol style="list-style-type: none"> 1. Supply correct voltage to motor. 2. Clean lowering valve. 3. Adjust relief valve.
Lift slowly settles down.	<ol style="list-style-type: none"> 1. Debris in check valve seat. 2. Debris in lowering valve seat. 3. External fluid leaks. 	<ol style="list-style-type: none"> 1. Clean check valve. 2. Clean lowering valve. 3. Repair external leaks.
Slow lifting speed or fluid blowing out filler breather cap.	<ol style="list-style-type: none"> 1. Air mixed with fluid. 2. Air mixed with fluid suction. 3. Fluid return tube loose. 	<ol style="list-style-type: none"> 1. Change fluid to Dexron III ATF or equivalent. 2. Tighten all suction line fittings. 3. Reinstall fluid return tube.
Lift going up unlevel.	<ol style="list-style-type: none"> 1. Equalizer cables out of adjustment. 2. Lift installed on unlevel floor. 	<ol style="list-style-type: none"> 1. Adjust equalizer cables to correct tension. 2. Shim lift to level columns (Not to exceed 12.7 mm). If over 12.7mm. Break out floor and level per lift installation instructions.
Anchors will not stay tight.	<ol style="list-style-type: none"> 1. Holes drilled oversize. 2. Concrete floor thickness or holding strength not sufficient. 	<ol style="list-style-type: none"> 1. Relocate lift using a new bit to drill holes. 2. Break out old concrete and repour new pads for lift per lift installation instruction.
If Lift stops short of full rise or chatters.	Fluid level may be low.	Check fluid level and bleed both cylinders per lift installation instructions.
Lift will not lower.	<ol style="list-style-type: none"> 1. Insufficient air supply to lift. 2. Latches out of adjustment. 	<ol style="list-style-type: none"> 1. Check air pressure. Air supply should be 6.2 - 8.3 bar. Check air lines for leaks or crimps. 2. Check latches.

EG-Konformitätserklärung
EC Declaration of Conformity

im Sinne der EG-Richtlinie 2006/42/EG über Maschinen (Anhang II A)
according to EC directive 2006/42/EC on machinery (Annex II A)

Name und Anschrift des Herstellers
Name and address of the manufacturer:

Name und Anschrift seines in der EU
niedergelassenen Bevollmächtigten
his authorised representative in EU

Rotary Lift
2700 Lanier Drive
Madison, IN, 47250 USA

BlitzRotary GmbH
Hüfinger Str.55
78199 Bräunlingen, Germany

Diese Erklärung bezieht sich nur auf die Maschine in dem Zustand, in dem sie in Verkehr gebracht wurde; vom Endnutzer nachträglich angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt. Die Erklärung verliert ihre Gültigkeit, wenn das Produkt ohne Zustimmung umgebaut oder verändert wird.

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user. The declaration is no more valid, if the product is modified without agreement.

Hiermit erklären wir, dass die nachstehend beschriebene Maschine

Herewith we declare, that the machinery described below

Produktbezeichnung / product denomination:

Serien- / Typenbezeichnung / *model / type:*

4-Säulen-Hebebühne / 4-post vehicle lift

SM55

Tragfähigkeit 5500 kg / capacity 5500 kg

AR55

Tragfähigkeit 5500 kg / capacity 5500 kg

AR43

Tragfähigkeit 4000 kg / capacity 4000 kg

Maschinen-/Seriennummer / *machinery / serial number:*

.....

Baujahr / *Year of manufacture:*

20...

allen einschlägigen Bestimmungen der Maschinenrichtlinie 2006/42/EG entspricht.

Die Maschine entspricht zusätzlich den Bestimmungen der Richtlinien 2004/108/EG über elektromagnetische Verträglichkeit und 2006/95/EG über elektrische Betriebsmittel (*Schutzziele wurden gemäß Anhang I, Nr. 1.5.1 der Maschinenrichtlinie 2006/42/EG eingehalten*).

is complying with all essential requirements of the Machinery Directive 2006/42/EC.

In addition the partly completed machinery is in conformity with the EC Directives 2004/108/EC relating to electromagnetic compatibility and 2006/95/EC relating to electrical equipment (Protection objectives have been met in accordance with Annex I No. 1.5.1 of the Machinery Directive 2006/42/EC).

Angewandte harmonisierte Normen / Harmonised Standards used

EN 1493:1998+A1:2008	Fahrzeug-Hebebühnen / Vehicle lifts
EN ISO 12100-1 : 2003	Sicherheit von Maschinen - Grundbegriffe / <i>Safety of Machinery- Basic concepts</i>
EN ISO 12100-2 : 2003	Sicherheit von Maschinen - Grundbegriffe / <i>Safety of Machinery- Basic concepts</i>
EN 60204-1:2006+7/2007	Elektrische Ausrüstung von Maschinen / <i>Electrical equipment of machines</i>
EN 349:1993+A1:2008	Sicherheit von Maschinen-Mindestabstände / <i>Safety of machinery - Minimum gaps</i>
EN ISO 13850:2008	Sicherheit von Maschinen-Not-Halt / <i>Safety of machinery - Emergency stop</i>
EN ISO 14121-1:2007	Sicherheit von Maschinen-Risikobeurteilung / <i>Safety of machinery - Risk assessment</i>

Angewandte sonstige technische Normen und Spezifikationen

Other technical standards and specifications used:

BGG 945	Prüfung von Hebebühnen / inspection of vehicle lifts
BGR 500	Betreiben von Arbeitsmitteln / management of working appliances
BGV A3	Unfallverhütungsvorschrift elektrische Anlagen und Betriebsmittel / law accident prevention regulation of electric facilities and equipment

Bevollmächtigter für die Zusammenstellung der relevanten technischen Unterlagen:

The person authorised to compile the relevant technical documentation:

Herr Pohl; Hüfinger Str. 55; 78199 Bräunlingen

Ort / *Place* : Bräunlingen

Datum / *Date* : 21.12.2009



Carsten Rohde
Geschäftsführer / Managing Director



EC –Declaration of conformity
for EC – Machine Guide Lines 98 / 37 / EC, Appendix II A
for Machine Types listed in Appendix IV

Manufacturer: Rotary Lift/ Dover Corporation
Address: 2700 Lanier Drive
Madison (IN), 47250 USA

Representative: BlitzRotary GmbH/ Dover Corporation

Address: Hüfingerringstraße 55
78199 Bräunlingen, Germany

We declare herewith that the vehicle lift of the following detail has been designed, built and installed conforming to the current basic safety and health requirements as stated in the EC – Regulations. If any alterations of the vehicle lift are made which we have not agreed to, this declaration loses its validity.

Description of the vehicle lift: 4-post vehicle lift

Vehicle lift type: AR40-44 capacity 4000 kg
AR40-901 capacity 4000 kg
AR40-902 capacity 4000 kg

Machine - no.:

Year of construction:

Current EC - Regulations: EC – Machine Guide Lines 98 / 37 / EC
EC – Guide Lines EMV 2004/108 EC

Applied mutually agreed Standards: EN 1493+A1
EN 12100-1 u. -2; EN ISO 13857; EN 349+A1;
EN 60204-1; EN ISO 13850; EN14121-1

Applied national standards and Technical Specifications: BGG945/BGR500;
BGV A3
DIN 31001-1

Certificate Number: H 9A AA3887101

Approval Body: DEKRA Certifications GmbH, Handwerkstr.15, 70565 Stuttgart
(Notified under No.0124 to the EC Comm.)

Place: Bräunlingen, Germany

Date: 2009-11-03

Signature: Carsten Rohde
Managing Director

Trained Operators and Regular Maintenance Ensures
Satisfactory Performance of Your Rotary Lift.

Replacement Parts: See installers package for parts breakdown sheet.
Order Genuine Rotary replacement parts from your nearest Authorized Parts Distributor.

Maintenance Assistance: Contact your local Rotary distributor.

Should further assistance be required, contact Rotary Lift, at one of the phone numbers listed below.

Rotary World Headquarters

2700 Lanier Drive
Madison, IN 47250, USA
www.rotarylif.com

North America Contact Information

Tech. Support:
p 800.445.5438
f 800.578.5438
e userlink@rotarylif.com
Sales:
p 800.640.5438
f 800.578.5438
e userlink@rotarylif.com

World Wide Contact Information

World Headquarters/USA: 1.812.273.1622
Canada: 1.905.812.9920
European Headquarters/Germany: +49.771.9233.0
United Kingdom: +44.178.747.7711
Australasia: +60.3.7660.0285
Latin America / Caribbean: +54.3488.431.608
Middle East / Northern Africa: +49.771.9233.0

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