**FLUSH MOUNTED INSTALLATION WITH MANUALLY COVERED ROLLING JACK LOWERING POCKET**

This configuration is most often used for fleet maintenance applications that involve a moderate ratio of tire, wheel or brake services.

The front of the lift unit is placed to the front of the lift trench. For this installation, the lift unit will translate to the rear as it articulates upward, allow approximately 60 inches at the rear of the lift for this motion.

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DETAIL A

TWO LAYERS OF 6 x 6 10/10 WWF

#4 Ø 12 DOWELS

8 - #6

#4 Ø 12 TIES

SECTION A-A

UNITS = INCHES (MM)

40-35-F
PAGE 3 of 8
### Lift Data Table

**Manufacturer:** Mohawk Resources, Ltd  
**Model:** Parallelogram Lift Model 40-35-Flush

<table>
<thead>
<tr>
<th>Lift Unit Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Load Capacity (lbs)</td>
<td>40,000</td>
</tr>
<tr>
<td>Anchorage</td>
<td>--</td>
</tr>
<tr>
<td>Anchor Bolt Diameter (in.)</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>Total Number of Anchor Bolts</td>
<td>8</td>
</tr>
<tr>
<td>Bolt Pattern</td>
<td>See Anchor Details</td>
</tr>
<tr>
<td>Anchor Bolt Setting Torque</td>
<td>N/A-- See Anchor Details</td>
</tr>
<tr>
<td>Minimum Embedment Length (in.)</td>
<td>8.00</td>
</tr>
<tr>
<td>Minimum Concrete Thickness (in.)</td>
<td>See Pit Drawings</td>
</tr>
<tr>
<td>Hydraulics</td>
<td>--</td>
</tr>
<tr>
<td>Reservoir Capacity (gal)</td>
<td>30 Total</td>
</tr>
<tr>
<td>Oil Type</td>
<td>DEXRON III (ATF)</td>
</tr>
</tbody>
</table>

**Electrical**

<table>
<thead>
<tr>
<th>Item</th>
<th>QTY</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Horsepower</td>
<td>20</td>
<td>--</td>
</tr>
<tr>
<td>Motor 208/230 V 3 Ph</td>
<td>60 Amperes</td>
<td></td>
</tr>
<tr>
<td>460 V 3 PH</td>
<td>30 Amperes</td>
<td></td>
</tr>
<tr>
<td>Control Circuit Transformer 1000 VA</td>
<td></td>
<td>7.89 AMP</td>
</tr>
<tr>
<td>24VDC Power Supply</td>
<td>4.8 AMP</td>
<td></td>
</tr>
<tr>
<td>Light Fixtures (Optional Lighting Kit)</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Shop Air</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>Air Pressure (PSI)</td>
<td>85 to 100</td>
<td></td>
</tr>
<tr>
<td>Air Volume - Lift (GPM)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Air Volume - Optional Rolling Jack (CFM)</td>
<td>25 Each</td>
<td></td>
</tr>
<tr>
<td>Air Volume - Optional Shop Air Kit (CFM)</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Air Volume - Total Req'd Capacity (CFM)</td>
<td>30 Minimum</td>
<td></td>
</tr>
<tr>
<td>Air Volume - Total Req'd Capacity (CFM)</td>
<td>50 Suggested</td>
<td></td>
</tr>
</tbody>
</table>

### Required Material List

Materials shown on this list shall be used without substitution unless specifically approved in writing by Mohawk Resources, Ltd.

<table>
<thead>
<tr>
<th>Item</th>
<th>QTY</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lockout/Tagout Disconnect Box</td>
<td>12</td>
<td>Per Local Electrical Codes</td>
</tr>
<tr>
<td>Leveling Shims</td>
<td>11*</td>
<td>1/16&quot;, 1/8&quot;, 1/4&quot; Thick</td>
</tr>
<tr>
<td>Anchor Bolt Assembly</td>
<td>10&quot;</td>
<td>3/4&quot; x 2</td>
</tr>
<tr>
<td>Seal Barrier</td>
<td>9</td>
<td>CROUSE -- HINDS EY53</td>
</tr>
<tr>
<td>Reducer Bushing</td>
<td>4</td>
<td>CROUSE -- HINDS RB2</td>
</tr>
<tr>
<td>SCH 40-90 Deg Elbow</td>
<td>7</td>
<td>CROUSE -- HINDS EL4</td>
</tr>
<tr>
<td>Junction Box (in Console)</td>
<td>6*</td>
<td>STEEL</td>
</tr>
<tr>
<td>Sealite Flexible Conduit</td>
<td>5</td>
<td>METAL CORE</td>
</tr>
<tr>
<td>1&quot; Rigid Conduit</td>
<td>4</td>
<td>STEEL</td>
</tr>
<tr>
<td>Filter Lubricator/Regulator, Dryer Shutoff</td>
<td>3</td>
<td>Steel or PVC</td>
</tr>
<tr>
<td>SCH 40 Street Elbow</td>
<td>2</td>
<td>Steel or PVC</td>
</tr>
<tr>
<td>SCH 40 Pipe</td>
<td>1</td>
<td>Steel or PVC</td>
</tr>
</tbody>
</table>

*Items supplied by Mohawk with the lift unit.
TOP VIEW OF CONSOLE FRAME

1 3/4 TYP (44)

UNITS = INCH (mm)

10 5/8 (270)

BACK OF CONSOLE

32 1/2
(826)

36 (914)

CONDUCT SIZES & APPLICATION:
A: 1" (25.4) (MIN) SCHED 40 STEEL PIPE – INCOMING POWER CUSTOMER
B: 1" (25.4) (MIN) SCHED 40 STEEL PIPE – INCOMING AIRLINE OPTIONAL
C,D: 4" (101) SCHED 40 PVC PIPE – HYDRAULIC & AIR TO LIFT
E,F,G,H: 1" (25.4) (MIN) SCHED 40 STEEL PIPE – ELECTRICAL TO LIFT

* NOTE: USE SMOOTH ELECTRICAL 90’S IN CONDUITS, NOT PLUMBING 90’S!!

CONTROL CONSOLE & STUB-UP DETAILS
ANCHOR DETAILS & SHIMMING

UNITs = INCH (mm) = POUND (kg)

CONCRETE THICKNESS
SET GENERAL NOTES

LEVELING SHIM
ANCHOR BOLT

3/8" KEY (9.5)

3/8" PLATE THICKNESS (13)
TOP OF FLOOR ELEVATION

ANCHOR BOLT LOCATION DIMENSIONS AND DETAILS

1" (25.4) MAXIMUM LEVELING SHIM THICKNESS
SET NOTE 10

TYPICAL ANCHOR BOLT

THE MAXIMUM THICKNESS OF ANY STACK OF SHIMS IS 1" (25.4)
SEE NOTES 8 & 10

LEVELING SHIMS ARE AVAILABLE
IN RANGES OF THICKNESS FROM 1/16" (1.6), 1/8" (3.2), & 1/4" (6.3)

PLACEMENT OF LEVELING SHIM DETAIL

LEVELING SHIM DETAIL

REPRESENTATIVE TIGHTENING SEQUENCE FOR ANCHOR BOLTS
TIGHTENING FROM CENTER OF BASE OUTWARD

APPROVED ANCHOR BOLTS PROVIDED BY MOHAWK LIFT

ANCHOR BOLTS ARE MANUFACTURED BY
WEI-IT FASTENING SYSTEMS
2415 extending PLAZA
TULSA, OKLAHOMA 74104
PHONE 918-744-7444
OR 800-643-1284
WEB SITE WWW.WEI-IT.COM

ANCHORS SPECIFIED ARE: "THE ORIGINAL WEI-IT" EXPANSION ANCHORS, 3/4" (19mm) DIL

CATALOG NUMBER
3480
3482
3484
3410

LENGTH
8" (203)
8 1/2" (216)
10" (254)

NO OTHER ANCHOR BOLT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM MOHAWK RESOURCES LTD. UNDER CERTAIN CIRCUMSTANCES (POCKET ORBITED THREADED RODS), ANCHORAGE MAY BE USED BUT ANY USE OF SUCH RESOURCES WITHOUT WRITTEN APPROVAL OF MOHAWK RESOURCES LTD. ANY OTHER UNAPPROVED ANCHOR BOLT PRODUCT MAY NOT HAVE THE DOCUMENTED STRENGTH TO MEET THE CERTIFICATION REQUIREMENTS OF THE AUTOMOTIVE LIFT INSTITUTE AND MAY AFFECT THE CERTIFICATION OF THE INSTALLATION.

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MOHAWK RESOURCES LTD.

WASHINGTON METRO AREA

ANCHOR DETAILS & SHIMMING

1/4" THICKNESS (6.4)
MACHINE FASTENER (100) WHERE IT IS POSSIBLE GREATER FASTENER PROVIDES ADDITIONAL ANCHORING STRENGTH

INSTALLATION INSTRUCTIONS
1. DRILL THE HOLE PERPENDICULAR TO THE IRON SURFACE. TO ASSURE FULL HOLDING POWER, DO NOT BEAT THE HOLE OR ALLOW THE DRILL TO WIGGLE.
2. DRILL THE HOLE DEEPLY THAN THE WIDTH DIMENSION OF THE ANCHOR, BUT NOT CLOSER THAN TWO ANCHOR DIAMETERS TO THE BOTTOM (OPPOSITE) SURFACE OF THE CONCRETE.
3. CLEAN THE HOLE USING COMPRRESSED AIR AND A NYLON BRUSH.
5. TAP ANCHOR INTO HOLE WITH A 1 1/2 LBS (1.1 KG) HAMMER UNTIL WASHER RESTS SMOOTHLY AGAINST FIXTURE.
6. TIGHTEN THE NUT TO 60 FT-LBS (80 N-M) MAXIMUM TORQUE AND NOT LESS THAN 3 FULL TURNS, BUT NOT MORE THAN 5 FULL TURNS FROM THE HAND TIGHT POSITION. USE OF AN IMPACT WRENCH FOR INSTALLATION OF ANCHORS IS NOT RECOMMENDED.
GENERAL NOTES

NOTE 1
Concrete used for the base and the side walls of each trench and any other new concrete which is used for this installation may have a minimum strength of f’c = 2,500 psi, a strength of f’c = 4,000 psi is recommended where possible.

NOTE 2
Concrete used for the base and sidewalls of the trench areas shall reach its full 28 day f’c strength before the lift and the anchor bolts are installed.

NOTE 3
Concrete reinforcement sizes and reinforcement specification for the base of each trench shall be determined by an engineer or architect (at the expense of the purchaser) and should be determined considering the local soil conditions and the applied loading. As a minimum, grade 60 reinforcement of the size and spacing shown on the drawings shall be used.

NOTE 4
Concrete reinforcement specifications for the floor area around the trenches shall be determined by an engineer or architect (at the expense of the purchaser) and should be determined considering the local soil conditions and the applied loading. As a minimum, two layers of grade 60, 10/10 welded wire fabric should be used in the vicinity of the lift unit and between the trenches.

NOTE 5
The reinforcing steel used in the base of the trenches shall be installed so as not to interfere with the anchor bolts used to attach the lift unit.

NOTE 6
Welded fastening systems, at wedge anchors are provided with the lift for anchoring the lift unit to the floor system. The number and the size of anchor bolts specified in the drawing must be used to attach the lift unit. Anchor bolts of full length must be used in all locations provided on the base of the lift unit.

NOTE 7
Cables must be taken to ensure that the side walls of the trench are parallel and straight. Approximately 1 1/2 of clearance is provided along the sides of the runways.

NOTE 8
Slope the bottom of the trench 1/16 inch per foot toward the drainage channel. Slope the drainage channel 1/16 inch per foot toward the catch basin.

NOTE 9
Cables must be taken to ensure that the base of the trench areas are at the proper elevation. A maximum of one inch adjustment (shimming) is permitted for installation leveling.

NOTE 10
Where more than 3/4 inch of shim leveling is required, full support plate contact shims are available at additional cost. The full contact shim plates shall then be accurately leveled using individual anchor bolt shims. Individual anchor bolt shims are available in a range of thicknesses from 1/16 inch to 1/4 inch.

NOTE 11
No embedded plumbing, tubes, conduits or other items, except the lift unit service leg conduits shall be closer than 18 inches from any anchor bolt. Also, the service leg conduits shall be installed accurately in the locations shown in the plan and detail views to minimize the effect on the anchorage.

NOTE 12
Provide two, 4 inch SCH 40 PVC pipe as a hydraulic-pneumatic service supply conduit running from the power unit to each service leg.

NOTE 13
Provide 4, 1 inch SCH 40 steel conduits as electrical service supply running from the power unit to the service legs. These conduits shall be installed as shown on the section views and must be installed according to applicable electrical codes.

NOTE 14
One 4 inch SCH 40 PVC drain pipe should be provided to carry drainage from the catch basins to an oil-water separator. This pipe should slope a minimum of 1/16 inch per foot toward the destination.

NOTE 15
Provide temporary caps for all conduits and embedded pipes. It is recommended to leave pull ropes in conduits for ease of lift installation.

NOTE 16
The control console must be located in the vicinity of the lift. It should be placed far enough away from the lift to allow for activities around the lift. The enclosed drawings show the console in a standard position. The control console may be located on either side and anywhere along the length of the lift, but any deviations from the enclosed drawings may require longer cables, hoses, conduit, etc. At additional expense to the purchaser.

NOTE 17
The lift unit requires clean dry compressed air at the pressure and volume shown on the lift unit data plate. A filter/lubricator/regulated is supplied with the lift unit for the locking system only. A filter/lubricator/regulated, air dryer and shutoff valve must be provided for the lift unit to operate the optional accessories. The required volume of air shown in the lift unit data plate recognizes that not more than one auxiliary air consumer will be used simultaneously.

NOTE 18
Provide one, 1 inch SCH 40 rigid steel conduit as a compressed air supply. This conduit is shown underground, alternatively it may be brought to the control panel overhead depending on customer preference. If brought overhead, provide flex conduit connecting the terminal end of the conduit to the control console.

NOTE 19
The lift unit requires a 90MM voltage power source. A lockout/tagout electrical disconnect box must be provided for the power source. The lockout/tagout disconnect box must be installed according to applicable electrical codes. This electrical disconnect is to be provided by others.

NOTE 20
Provide one, 1 inch SCH 40 rigid steel conduit as electrical service supply running from the building power source to the control console. This conduit is shown underground, alternatively it may be brought to the control panel overhead depending on customer preference. Provide a lockout/tagout electrical disconnect box within sight and close to the control console as practical. This electrical supply conduit and dit not.

NOTE 21
ITE slab that is on grade (supported by soil).

Any other type of installation involving a slab not on grade (i.e.—slab supported by pilons, second story slab, etc.) must be reviewed & analyzed for suitability by the building architect, at the expense of others.