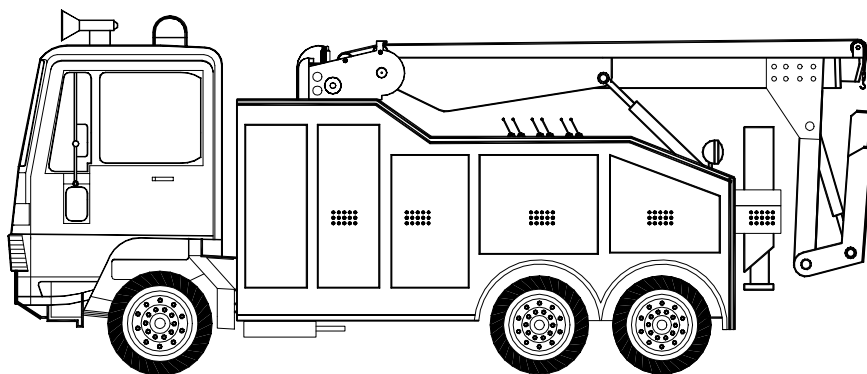


# Heavy Recovery

# HR 10



- Heavy-duty recovery truck for use with busses with delicate front and long front over hang.
- This is also used to recover loaded trucks of 77,500 Ib. GVW.

## 1. Body structure:

- Body is made on frame to increase strength.
- Certain points are reinforced providing exceptional recovery capability.
- Straight sides and 90° angles to increase strength.
- Low profile design to improve visibility.
- Large surface area.
- Body structure allows sharp angle turning without damaging the towed car.
- Low center of gravity.
- Siren and light bar operation will be in the cab.
- Mud flaps.

## 2. Boom:

- Lanyard control and lever control power extension, retractions, lift and tilt.
- Extended lift rating 20,000 Ib.
- Retracted distance 49”.
- Reach 86”.
- Reach with extension 98”.
- App. Reach, center of axles to forks 141”.
- Distance from tailboard when stored 10”.
- Upward tilt 22°, maximum lifting height 62”.
- Tilt below ground 8° with depth 11”.
- Downstroke on lift cylinder weight 17”.
- Weight 2,402 Ib.
- Extra mechanical lock against hydraulic failure (according to the Egyptian military standards).
- Boom is governed by guide for protection against transversal forces.
- All hinges pivots are conservatively designed with lubrication inputs.
- Hydraulic boom telescopic extension.
- Boom height adjustment via 1 double action hydraulic piston.
- Conservatively designed.

## 3. Front push bumper (Optional):

- Suitable for pushing the cars in case of use by police.
- 551.15 Ib. dead weight for better balancing.
- To avoid backward tilting of the truck when lifting heavy cars.

## 4. Control:

- On both sides of the body.
- Reliable mechanisms to ensure trouble free operation.
- Modular construction easy to disassemble.
- The valve could be manually operated from behind the boom.
- Light bar operation will be in the cab.
- Remote control 30’ away (Optional).

## 5. Lighting:

- Light bar elevated higher than the cab (Option).
- The rear lights are embedded inside of the body to minimize accidental damage.
- Optional tool compartment.
- Rear lighting to allow night operation switched from cab.
- The taillights are the same taillights of the chassis.

## 6. Outriggers:

- Outriggers can be installed at the rear or the sides of the truck at 45° for support in case of heavy loads.

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<p><b>7. Hydraulic:</b></p> <ul style="list-style-type: none"> <li>•Cylinders are reliable.</li> <li>•Valve block is installed on top of the bed behind the boom to simplify service.</li> <li>•Counter balance to ensure safety in case of sudden hydraulic pressure drop.</li> <li>•Hydraulic tank is equipped with valve in the O/P to simplify service.</li> <li>•Strainer in the hydraulic tank cover.</li> <li>•The hydraulic circuit is operated via a hydraulic gear pump.</li> <li>•Hydraulic cylinders for extension and retraction.</li> <li>•Oil level indicator.</li> <li>•Hydraulic load holding valves.</li> </ul>	<ul style="list-style-type: none"> <li>•Oil temperature gauge.</li> <li>•Oil pressure gauge (Option).</li> <li>•Pressure relief valve.</li> <li>•Alarm for high pressure (Option).</li> <li>•The pressure maximum limit is conservatively designed 2200 PSI to ensure long service life.</li> <li>•Optional hydraulic manual pump.</li> <li>•The PTO unit is controlled from inside the cab.</li> <li>•O/P in both sides to operate Hydraulic tools (Option).</li> <li>•2 hydraulic cylinders for lifting.</li> <li>•The valve could be manually operated from behind the boom.</li> </ul>
<p><b>8. Lighting:</b></p> <ul style="list-style-type: none"> <li>•Light bar elevated higher than the cab (Option).</li> <li>•The rear lights are embedded inside of the body to minimize accidental damage.</li> <li>•Optional tool compartment.</li> </ul>	<ul style="list-style-type: none"> <li>•Rear lighting to allow night operation switched from cab.</li> <li>•The taillights are the same taillights of the chassis.</li> </ul>
<p><b>9. Winch:</b></p> <ul style="list-style-type: none"> <li>•Free spool running via a clutch to save time (Optional).</li> <li>•Winch mounting platform (Optional).</li> <li>•Winch mounted on the boom to avoid adjusting wire in case of boom movements.</li> <li>•An extra winch can be installed.</li> </ul>	<ul style="list-style-type: none"> <li>•Driven by Hydraulic motor with capacity depending on customers request.</li> <li>•Automatic mechanical brake</li> <li>•3/8" or 1/2 or 3/4 x 50' heavy-duty cable.</li> <li>•Cable guide for auxiliary winch (Optional).</li> <li>•Extra length of wire (Optional).</li> </ul>
<p><b>10. Extra accessories:</b></p> <ul style="list-style-type: none"> <li>•Air hose to inflate the tires (Option).</li> <li>•Extra tool compartments (Option).</li> <li>•Engage and disengages the brakes pneumatically (Option).</li> <li>•Cable remote control unit (Option).</li> <li>•Battery recharging cable (Option).</li> <li>•Trailer/fifth wheel hitch (Option).</li> </ul>	<ul style="list-style-type: none"> <li>•No-charge for 12/24 volt pump power pack.</li> <li>•18' wires 11,023 or 22,046 Ib. capability (Option).</li> <li>•18' chains 11,023 or 22,046 Ib.capability (Option).</li> <li>•Hydraulic hoses to operate the hydraulic tools (Option).</li> <li>•Set of chains to protect the towed vehicle (Option).</li> <li>•Air shift PTO/pump (Optional).</li> </ul>
<p><b>11. Low Wheel lifter (Option):</b></p> <ul style="list-style-type: none"> <li>•Allows pulling another truck.</li> <li>•Low wheel lifter to ensure lifting delicate cars, Busses with fiberglass front (Option).</li> </ul>	<ul style="list-style-type: none"> <li>•It is preferable to install a lower hydraulically extending mechanism to lift the buses from the front axle (Option).</li> <li>•Suitable for vehicles having fiberglass bumpers.</li> </ul>
<p><b>12. Reliability:</b></p> <ul style="list-style-type: none"> <li>•Very reliable like our ancient pyramids.</li> <li>•This product proved reliability in the warm and dusty weather of Egypt.</li> <li>•This product withstands rough treatment by unskilled persons.</li> </ul>	<ul style="list-style-type: none"> <li>•We use American made hydraulics.</li> <li>•Cylinders and rods by <b>SCOTT</b>.</li> <li>•Electric hydraulic valve by <b>PRINCE</b>.</li> <li>•Seals of the cylinders by <b>PARKER</b>.</li> <li>•PTO from <b>MISSIE</b> (if we supply).</li> <li>•Pump from <b>MISSIE</b> (if we supply).</li> </ul>
<p><b>13. Paint:</b></p> <ul style="list-style-type: none"> <li>•Primary after sand blasting.</li> <li>•2 Layers of paint according to customer colors.</li> </ul>	<p><b>14. Service:</b></p> <ul style="list-style-type: none"> <li>•Parts are available through our dealers.</li> <li>•Very rarely we are asked for spares.</li> </ul>

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