Mobile fall protection work stations

RJ 200, RJ 500, RS 300
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Mobile fall protection work stations

RJ500
RJ200
RJ200-B
An excellent structural stability is ensured by inertial mass comprising concrete blocks.

Mobile anchor rail RJ500 is a complete fall protection system. An excellent structural stability is ensured by inertial mass comprising concrete blocks, so it is not necessary to provide stable foundation or any support structure. RJ500 is a modular device which can be interconnected to create any number of configurations and lengths as needed. Standard length of the rail is 6 running metres providing ample for horizontal travel of trolleys being anchor points for protected users. The rail is placed at 1.80m. RJ500 is a devise that will suit perfectly i.e. when servicing tanks, on railway siding and repair stations and whenever it is necessary to move safely on horizontal surfaces at a height.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Material:</th>
<th>galvanized steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of concrete unit weights - 4 pcs.:</td>
<td>410 kg</td>
</tr>
<tr>
<td>Weight of structure:</td>
<td>1420 kg</td>
</tr>
<tr>
<td>Length of rail of single segment:</td>
<td>6 m</td>
</tr>
<tr>
<td>Maximum number of areas:</td>
<td>3</td>
</tr>
</tbody>
</table>
Dimensions
Elements of RJ500 kit

1. FRAME + 4 CONCRETE UNIT WEIGHTS
   RJ500 KIT

2. CONCRETE UNIT WEIGHT
   1000,0 KG +/- 20,0 KG
   RJ200 10 000

3. RETRACTABLE TYPE FALL ARRESTER
   CR 250V 10

4. GUARD FOR RETRACTABLE TYPE FALL ARRESTER
   OS 010

5. SNAP HOOK
   AZ 011

6. FULL BODY HARNESS
   P30
Device RJ 200 is designed for safe work when loading and unloading of vehicles and levellers. Anchor point for retractable type fall arrester is at 6.25m and enables operation at 5.00m from the “zero” level and within a 3.50m radius from the device arm rotation.

For operation with RJ 200 device it is recommended to use retractable type fall arrester CR25AV/10m by PROTECT. Retractable type fall arrester is installed on rotary arm. User attaches connector of retractable type fall arrester to full body harness (e.g. P30 by PROTECT). The device RJ200 complies with EN 795:2012 for Class B devices.

**USE:**
- construction works on steel structures, works on facades based on steel structures,
- works at height.

**PARAMETERS**

**Method 1**

- **Material:** powder coated steel.
- **Weight:**
  - Base: 5000 kg +/- 200 kg
  - Socket: 700 kg
  - Concrete unit weight: 2000 kg +/- 200 kg
- **Temperature range:** -30°C + 50°C
- **Static strength:** no less than 120 kN

**Method 2**

- **Material:** powder coated steel.
- **Weight:**
  - Base: 5000 kg +/- 200 kg
  - Socket: 700 kg
  - Concrete unit weight: 2000 kg +/- 200 kg
- **Temperature range:** -30°C + 50°C
- **Static strength:** no less than 120 kN
**RJ200 – variants**

**Method 3**

**RJ 200 for embedding in concrete elements**

Socket is embedded in a concrete structure, and arm can be moved between sockets.

**NOTE:**
Minimum depth for embedding the socket in concrete is 1.0 m.

**USE:**
- construction works on construction site or boarding works,
- works at a height.

**PARAMETERS Method 3**

<table>
<thead>
<tr>
<th>Material</th>
<th>powder coated steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight: Socket</td>
<td>76.4 kg</td>
</tr>
<tr>
<td>Weight: Rotary arm</td>
<td>50.0 kg</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-30°C / +50°C</td>
</tr>
<tr>
<td>Static strength</td>
<td>no less than 12 MN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>RJ 200</th>
</tr>
</thead>
</table>

**Method 4**

**RJ 200 for mounting on steel structures**

Device RJ 200 can be used as an anchor point for mounting on steel structures using special side seat and retaining plate and screws or threaded rods M16. Seat with retaining plate forms a 'clamp' around steel structure without interfering with its framework.

**USE:**
- construction works on steel structures, works on facades based on steel structures,
- works at a height.

**PARAMETERS Method 4**

<table>
<thead>
<tr>
<th>Material</th>
<th>powder coated steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight: Socket</td>
<td>76.4 kg</td>
</tr>
<tr>
<td>Weight: Rotary arm</td>
<td>50.0 kg</td>
</tr>
<tr>
<td>Side-seal</td>
<td>250 kg</td>
</tr>
<tr>
<td>Plate</td>
<td>12.6 kg</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-30°C / +50°C</td>
</tr>
<tr>
<td>Static strength</td>
<td>no less than 12 MN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>RJ 200</th>
</tr>
</thead>
</table>

**Method 5**

**RJ 200 for mounting on steel or concrete structures**

Device RJ 200 can be used as an anchor point for mounting on steel or concrete structures using special side seat and screws or threaded rods M16. It is required to prepare bore holes in the structure.

**USE:**
- construction works on steel or reinforced-concrete structures, works on facades based on steel or reinforced-concrete structures,
- works at a height.

**PARAMETERS Method 5**

<table>
<thead>
<tr>
<th>Material</th>
<th>powder coated steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight: Socket</td>
<td>76.4 kg</td>
</tr>
<tr>
<td>Weight: Rotary arm</td>
<td>50.0 kg</td>
</tr>
<tr>
<td>Side-seal</td>
<td>250 kg</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-30°C / +50°C</td>
</tr>
<tr>
<td>Static strength</td>
<td>no less than 12 MN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>RJ 200</th>
</tr>
</thead>
</table>

**Price list of components for RJ 200**

![Price list image](image-url)
Elements of RJ200 kit

1. ROTARY ARM
   RJ200.06.000

2. SOCKET
   RJ200.05.000

3. BASKET
   RJ200

4. CONCRETE UNIT WEIGHT
   1000.0 KG +/- 20.0 KG
   RJ200.10.000

5. SIDE SOCKET + PLATE
   RJ200.11.000 + RJ200.11.002

6. LARGE SIDE SOCKET + LARGE PLATE
   RJ200.11.100 + RJ200.11.102

7. RETRACTABLE TYPE FALL ARRESTER
   CR 250V 10

8. GUARD FOR RETRACTABLE TYPE FALL ARRESTER
   OS 010

9. SNAP HOOK
   AZ 011

10. FULL BODY HARNESS
    P30
Rotary arm is made of steel S235 protected against corrosion by coating. To facilitate transport the arm can be folded.

1) ROTARY ARM RJ200.05.0.000-B
Rotary arm is made of steel S235 protected against corrosion by coating. To facilitate transport the arm can be folded.

2) HOUSING TUBE RJ200.05.0.000-B
Housing tube RJ200.05.0.000-B is designed for embedding arm RJ200.05.0.000-B in concrete structure. The tube is embedded during concrete/casting of concrete structural element and remains within until completion of works. After works are completed the tube can be filled with concrete and filled with an element. Minimum depth for embedding the socket is 830 mm. When embedding the tube the upper (upper) part should be plugged temporarily to enable the inside of the tube to be filled with the concrete.

3) TRANSPORT SLING (SM) WS085.02
Transporting sling is used to assist embedding of rotary arm in the socket and its removal using crane. It is an extension enabling detachment of crane hook from a level where the user remains.

4) RETRACTABLE TYPE FALL ARRESTER (SM) OR 250 HV 06
Retractable type fall arrester OR 250 HV 06 is a certified (in accordance with EN 287-1, ISO 14120, EN 362) retractable type fall arrester for use in both the vertical and the horizontal, in plastic cover with separable steel cable and the cover integral steel sleeve. The device has an integral system for absorbing the energy transferred at the hook. It is designed for works requiring significant mobility in respect to attachment point. There is no need to use either an energy absorber or a line AZ 010 for work in the horizontal.

5) GUARD FOR RETRACTABLE TYPE FALL ARRESTER OS 010
Guard OS 010 is used to protect retractable type fall arrester against weather and rain or snow, in particular.

6) SNAP-HOOK AZ011
Snap-hook AZ 011 is certified (in accordance with EN 362) connector to connect retractable type fall arrester, through the guard OS 010, to rotary arm RJ200.05.000-B. When using the snap hook, please refer to its instruction manual.

7) FULL BODY HARNESS PS0
Full body harness is certified (according to EN 361) personal protective equipment which should be at hand to use the kit. The user must wear full body harness in accordance with its instruction manual. Full body harness should be equipped with an integral removable “extension” allowing for independent connection of the user to retractable type fall arrester.

SPECIAL FEATURES

PROTECTION FOR 1 USER
PARAMETERS

| Material: | powder coated steel |
| Weight: | 2.215 kg |
| Temperature range: | -30°C to +50°C |
| Static strength: | >10 kN |

(ISO 14120 2 Class I)
Maximum distance between sockets:

Socket can be embedded in tubes of min. 300 x 300 mm. Maximum tolerance for shifting of socket from its axis is 50 mm.

Area and radius of work when using FL 200 E kit:

Area of work is 227 m², and radius is 8.5 m.
Rotary arm is made of steel S235 protected against corrosion by coating.
Elements of RJ200-B kit

1. ROTARY ARM
   RJ200.06.000-B

2. HOUSING TUBE
   RJ200.05.000-B

3. TRANSPORT SLING (2M)
   WS 005 02

4. RETRACTABLE TYPE FALL ARRESTER
   CR 250HV 06

5. GUARD FOR RETRACTABLE TYPE FALL ARRESTER
   GS 010

6. SNAP HOOK
   AZ 011

7. FULL BODY HARNESS
   P30
RS 300

**Safety basket**
Made from aluminium tube with standard corner, welded.

**Railing**
Steel protected against corrosion, painted in yellow.

**Extension ladder**
Aluminium, special side surface profiles, ant-slip rungs.

**Anti-slip rungs**

**Hatch platform**
Provides a fast access to the tank.

**Mechanism for platform stability**

**Work rope**
Steel wire rope, galvanized.

**Sliding ladder position lock**
Used for locking position of extension ladder against fixed ladder.

**Fixed ladder**
Aluminium, special side surface profiles, ant-slip rungs.

**Self-locking rescue lifting device**
RUP-402

**Wheels**
Rubber wheels, capacity 650kg each.

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Movable tank platform RS 300 F has been designed to enable safe access to loading hatches on tank trucks or container ships. The platform allows worker servicing the tank truck to get on its tank and carry out all the required works in a safe manner. The extension ladder of the platform enables working height adjustment to the desired height (tank truck height). The extension ladder foldable in segments is fixed on the fixed ladder and is locked after working height is adjusted. This provides for additional protection against falling of the ladder. The hatch platform provides problem-free access from the ladder onto the tank truck. The compact structure is supported on six rubber wheels, and can be moved easily to other hatches and taken away from the truck when the work is completed.

The structure has an aluminium work platform railing. Additional frame equipped with anchor point for personal fall protection equipment (e.g., retractable type fall arrestor WMTCO) provides additional protection when ascending and descending the ladder, and working within the platform. Height of the railing provides protection against falls after tripping or slipping.

The platform ladder is equipped with handrails for safe ascending and descending. The platform is made of high-durability aluminium alloy of special shape, and stable chassis is made of steel protected against the adverse weather conditions. The ladder rungs are made from textured stainless steel sheet preventing user's slippage.

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**PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions when folded</td>
<td>3.35 m x 2.65 m x 4.30 m</td>
</tr>
<tr>
<td>Dimensions when unfolded</td>
<td>3.95 m x 2.65 m x 5.00 m</td>
</tr>
<tr>
<td>Working height</td>
<td>2.95 m to 3.05 m</td>
</tr>
<tr>
<td>Maximum load</td>
<td>120 kg (1 user)</td>
</tr>
<tr>
<td>Weight</td>
<td>100 kg</td>
</tr>
</tbody>
</table>

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**REF. No.**
RS 300
RS 300F

Movable tank platform RS 300 F has been designed to enable safe access to loading hatches on tank trucks or container ships. The platform allows easier servicing of the tank truck, to get on its tank and carry out all the required works in a safe manner.

The extension ladder of the platform enables working height adjustment to the desired height (tank truck height). The extension ladder motion is plain white if a fixed ladder is locked after working height is adjusted. This provides for additional protection against falling of the ladder. The hatch platform provides problem-free access from the ladder onto the tank truck. Compact structure is supported on six rubber wheels, and can be moved easily to other hatches and taken away from the truck when the work is completed. The structure has an aluminium work place railing. Additional frame equipped with anchor point for personal fall protection equipment (e.g. retractable type fall arrester WRT 090) provides additional protection when ascending and descending the ladder and working within the platform. Height of the railing provides protection against falls after tripping or slipping. The platform ladder is equipped with handrails for safe ascending and descending. The platform is made of high-quality aluminium alloy of special shapes and stable chassis as made of steel protected against the adverse weather conditions. The ladder rungs are made from texturized stainless steel sheet preventing user's slippage.

**PARAMETERS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions when folded</td>
<td>4.60 x 2.65 x 3.03 m</td>
</tr>
<tr>
<td>Dimensions when unfolded</td>
<td>6.33 x 2.65 x 3.93 m</td>
</tr>
<tr>
<td>Working height</td>
<td>2.95 m to 4.35 m</td>
</tr>
<tr>
<td>Maximum load</td>
<td>140 kg (1 user)</td>
</tr>
<tr>
<td>Weight</td>
<td>240 kg</td>
</tr>
</tbody>
</table>

**REF NO:**
RS 300F
RS 300K

Safety basket
Made from aluminum tube with rounded corners, welded.

Railing
Steel protected against corrosion, painted in yellow.

Extension ladder
Aluminum, special side surface profiles, anti-slip rungs.

Hatch platform
Provides access down to the tank.

Anti-slip rungs

Work rope
Stainless steel, galvanized.

Fixed ladder
Aluminum, special side surface profiles, anti-slip rungs.

Sliding ladder position lock
Used for locking position of extension ladder against fixed ladder.

Self-locking rescue lifting device
RUP-602
Spring-loaded mechanism, its parts are protected against corrosion (galvanization), adjustment with hand crank.

Wheels
Rubber wheels, capacity 695 kg each.

Possibility of platform customization upon Customer's request.

PARAMETERS

Dimensions when folded:
- 3.95 m x 2.65 m x 3.55 m

Dimensions when folded:
- 5.40 m x 2.65 m x 3.95 m

Working height:
- 2.65 m to 4.20 m

Maximum load:
- 120 kg (1 user)

Weight:
- 100 kg

REF. NO.: RS 300K
RS 300S

Safety basket
- Made from aluminum tube
- With rounded corners, welded

Hatch platform
- Provides safe access to the tank

Railing
- Steel protected against corrosion, painted in yellow

Extension ladder
- Aluminum, special side surface profiles, anti-slip range

Anti-slip rungs

Fixed ladder
- Steel 6 mm cable, galvanized

Self-locking rescue lifting device
- RUP-82
- Appointed mechanism, its parts are protected against corrosion (galvanization), adjustment with hand crank

Sliding ladder position lock
- Used for locking position of extension ladder against fixed ladder

Wheels
- Rubber wheels, capacity 600 kg each

Parameters
- Dimensions when folded: 4.05 m x 2.65 m x 3.35 m
- Dimensions when unfolded: 5.90 m x 2.65 m x 3.95 m
- Working height: 3.22 m to 4.05 m
- Maximum load: 120 kg (1 user)
- Weight: ~ 179 kg

REF. NO.: RS 300S
RS 300VC

**Frame with anchor point**
For attachment of personal fall protection equipment.

**Extension ladder**
Aluminum, special anti-slip surface profiles, anti-slip rungs.

**Slicing ladder position lock**
Used for locking position of extension ladder against fixed ladder.

**Anti-slip rungs**

**Platform**
Provides safe working above object.

**Safety basket**
Made from steel with rounded corners, welded.

**Opened barrier**
Possible activity of opening only after locking against tank cylinder.

**Work rope**
Steel wire rope, galvanized.

**Self-locking rescue lifting device**
RUP-602

**Wheels**
Rubber wheels, capacity 650 kg each.
- 2 fixed
- 4 x swivel wheels with brake.

**Parameters**

- **Dimensions when folded:** 3.47 x 2.61 x 4.20 m
- **Dimensions when unfolded:** 3.74 x 2.61 x 5.65 m
- **Working height:** 2.25 m to 3.70 m
- **Maximum load:** 120 kg (1 user)
- **Weight:** 345 kg

**Ref. No.:**
RS 300VC

**Possibility of platform customization upon Customer’s request.**