The hydrodemolition robot with the highest capacity for large scale horizontal concrete removal

Conjet Technology removes concrete without causing cracks or damaging the reinforcement, resulting in a good bonding surface. The diesel powered Conjet Robot 437 is ideal for removing concrete from large, horizontal surfaces such as bridge decks, quay slabs and parking decks. It has been developed according to the same principles found in all Conjet products, including productivity, reliability, profitability and safety.

Well protected

The specially designed shroud, made from special hardened Hardox® steel sheet, is integrated in the feed beam for maximum protection against flying debris. Secondary protection is mounted on top of the feed beam. This enables the operator to walk around the cover while the robot is working to monitor the progress. The side hatches of the feed beam protection are detachable for working close to walls.

Another valuable feature is the feed beam’s side movement and tipping, which is shown on the back page.

Maneuverability

The Robot 437 has three wheels and is exceptionally maneuverable. It can almost turn on the spot, making it ideal for working in areas where space is limited, such as parking decks, as well as large open areas.

Notable features:

- Highest concrete removal rate on the market (for a standard hydrodemolition robot)
- Handles reaction forces up to 4000 N (1500 HP)
- Diesel powered
- Exceptional maneuverability
- Multiple tools
- The multi-layered protective hood keeps debris inside exceptionally well

Do not forget!

With Conjet technology, it is always possible to choose our patented wireless control of the powerpack for improved worksite safety and easier operation.

Conjet Technology

Conjet Robot 437

Conjet ONE

Robot 327 features the Conjet ONE system, which utilizes an extremely easy to use radio remote control box. All operations can be configured from the control box or the display on the robot, which results in shorter startup time and higher efficiency.

Notable features:

- Bridge decks
- Quay slabs
- Parking decks

Primary protection

Secondary protection

A big protective splash guard covers the cutting tool

Conjet ONE display

Conjet ONE control box

Conjet ONE

Wireless communication between robot and powerpack

Two lights help illumine the work area

The water hose is mounted in a special holder which keeps it from getting in the robot’s way

The work area is very well concealed by the two covers

Three of the tools available for the 437: lance, twin lance and rotor

Safety first

Anything can happen on a worksite! We are well aware of this after years of experience. That is one of the reasons for our thorough safety thinking and features concerning the Robot 437.

Ensuring robot supervision

When the robot is working in automatic mode it needs to be supervised by the operator. To ensure this, the automatic mode requires reactivation in a set time interval to continue. The reactivation is also connected to the powerpack, and a reactivation failure brings the high pressure pump to idle and stops the robot. Ensuring supervision of the robot increases worksite safety.

Multiple tools

Lance – Twin Lance – Rotor

The Conjet Robot 437 can be equipped with several different tools, including one or two single lances, a twin lance or a hydraulically driven rotor. A single lance, fed by two pumps connected in tandem, is the best option for deep removal. Two lances, each connected to a single pump, will result in high removal rates for low to medium removal depths, while the rotor is mainly used for cleaning applications or scarifying surfaces. The robot can also be fitted with a ship cleaning device. Since the feed beam protection can be tilted 90°, the tool can be changed without lifting the robot.

World wide experience

Robot 437 has been successfully working with a wide range of projects throughout the world, from long bridges to wide highways. We use our experience to help you with your project.
ROBOT 437 DATA SHEET

Configurations

- Heavy duty (standard)
- Rotor
- Ship cleaning / Surface preparation
- Custom

Cover chart
- Standard configuration

Suggested powerpacks:
Do not forget the powerpack supplying the robot with high pressure water!
Suitable powerpacks for Robot 437 range in power from 500 kW to 1100kW (670 - 1470 hp), depending on the application. Further information concerning powerpacks can be found in the powerpack brochure and the product overview brochure.

Technical Data
- Standard configuration

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Wheel width</td>
<td>1800 mm (5 ft 11 in)</td>
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<tr>
<td>Width - transportation</td>
<td>2220 mm (7 ft 3 in)</td>
</tr>
<tr>
<td>Width - during operation</td>
<td>2 660 mm (8 ft 9 in)</td>
</tr>
<tr>
<td>Cutting width</td>
<td>2 200 mm (7 ft 2 in)</td>
</tr>
<tr>
<td>Length</td>
<td>3 500 mm (11 ft 6 in)</td>
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<tr>
<td>Height - transportation</td>
<td>1 500 mm (4 ft 9 in)</td>
</tr>
<tr>
<td>Height with hose holder</td>
<td>2 000 mm (6 ft 7 in)</td>
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<tr>
<td>Weight, total</td>
<td>2 500 kg (5500 lb)</td>
</tr>
<tr>
<td>Maximum reaction force</td>
<td>4 000 N</td>
</tr>
<tr>
<td>Fuel consumption</td>
<td>2-7 l/h (0,53 - 1,85 US gal/h)</td>
</tr>
</tbody>
</table>

CE, EMC certified

Pictures are illustrative only and do not necessarily show the configuration of the products on the market at the given point in time. These products must be used in conformity with safe practice and applicable statues, regulations, codes and ordinances.
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