

**REEDYK**

**promax**  
intelligent powered access and lifting

COMPACT  
CRANE  
C3412

➤ C3412  
**LIFTING POWER**  
WHERE YOU NEED IT

# REEDYK

**promax**  
intelligent powered access and lifting



Dirk Reedijk, director

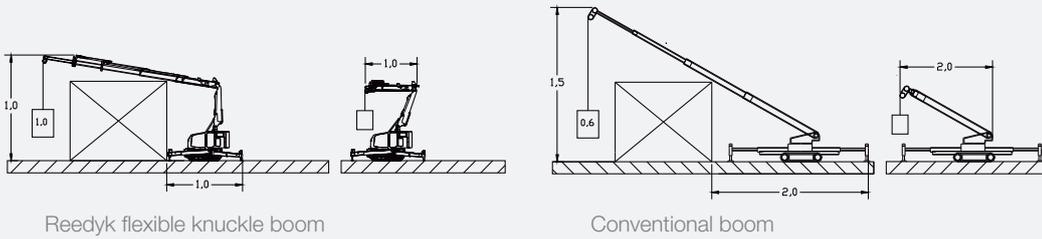
**Lifting heavy loads in cramped space. Always difficult. For example, retooling of production installations, fitting a motor, repair or installation of a new machine. Use of an A-frame and chain hoists is labour-intensive and the use of a forklift entails certain risks. A job is quickly and safely accomplished with the Reedyk C3412: the compact mini crane with a flexible folding arm.**



## MADE FOR VERSATILITY

Reedyk conceptualise, design, build and service Intelligent Power Machinery: the smartest and strongest machines for special applications. In the development of the new generation of compact cranes we have started completely at zero. So the C3412 is not an improved or a scaled-down version of existing crane models, but a unique mini crane, specially developed for flexible application in cramped spaces.

- › 42% shorter and 32% narrower
- › Flexible, stepless extendable legs
- › Load Torque Safety with stability control
- › Flexible knuckle boom
- › Electrical and Hybrid drive system
- › Hydraulic Jib
- › Radio remote control
- › Display on remote control
- › CAN bus system
- › Storage compartment for (lifting) accessories
- › Available in all colours
- › Direct support from the manufacturer



### FLEXIBLE FOLDING ARM FOR GREATER OPERATING RANGE

A single telescopic crane arm is often cumbersome during use, particularly if you want to lift something from behind an obstacle or in a machine. Therefore, Reedyk compact cranes come equipped with the flexible folding arm. When the first part is in a vertical position, the second part gains additional room to move, for example over a machine or scaffold and under a roof. The illustration shows this. Please note the minimal leg space, thanks to the counter weight.

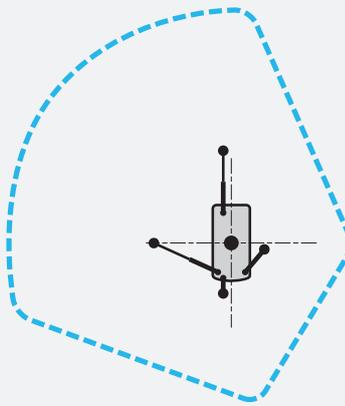




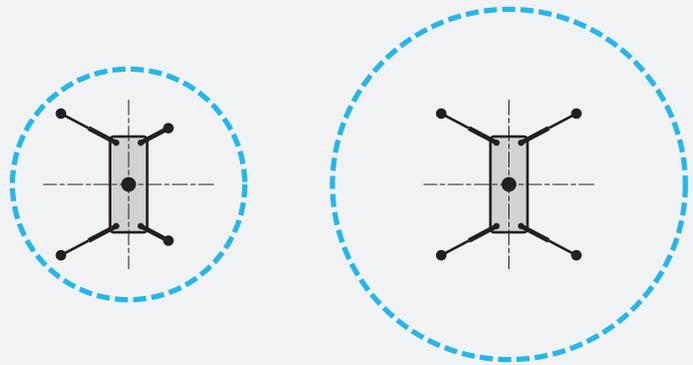
**HYDRAULIC LEGS WITH A MINIMUM LEG SPACE**

Proper placement of the legs is crucial for the safety of the load, the bystanders and the crane itself. For this reason we gave the hydraulic legs stepless extendability and a swivel feature. You can put them exactly where they provide the best effect for the lifting position. You can put the legs where there is space instead of the other way round. The drawing shows the resulting advantage compared to traditional extendable crane legs.

*Reedyk Stability control:  
Free stabiliser configuration*



*Conventional programme:  
min/max extended*

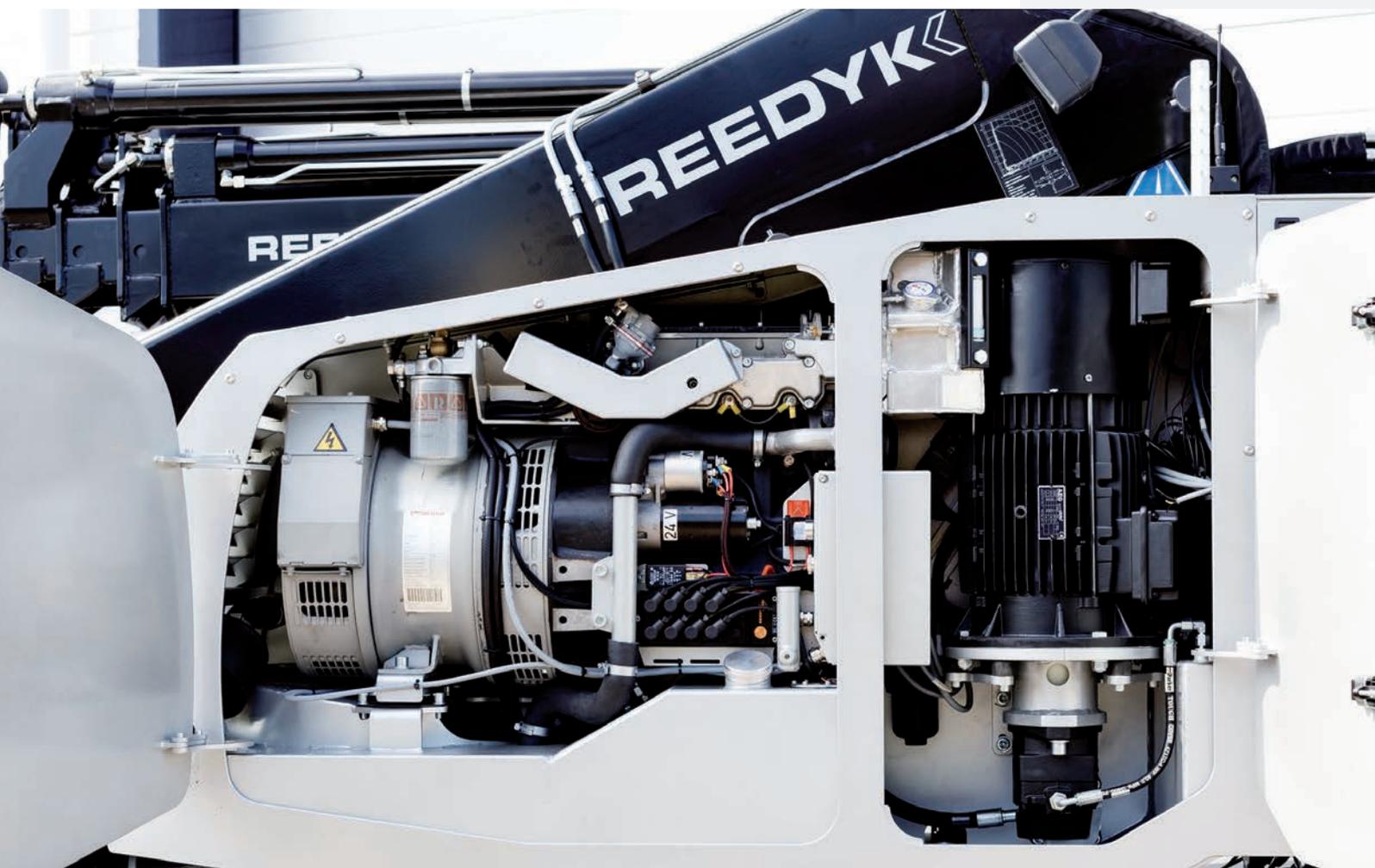


**ADDITIONAL SAFETY WITH LOAD TORQUE LIMITATION**

Cranes of a less intelligent design calculate lifting capacity over the total lifting range, based on the shortest leg. Yet Reedyk build 'intelligent machines' for a reason. In the C3412 each leg comes equipped with its own sensors. Based on the information from the legs, the crane continuously calculates the maximum lifting capacity for any position of the crane arm. Interactive limitation makes it impossible to move an overly heavy load over a leg that is too short. Conversely, loads of a greater weight can be lifted further over a leg that is more extended. Variable leg positions - for example with an extended leg in a space between two obstacles - offering you more lifting capacity without safety concessions.

### A REEDYK COMPACT CRANE: DEPLOYABLE ANYWHERE

The Reedyk C3412 measures merely 298 x 202 x 96 cm. Thanks to the strong non-marking rubber tracks, it rotates on its axis. Travel is controlled by a wireless remote, so even a 1 metre wide gap is sufficient for manoeuvring. Hence, the compact crane reaches places where other cranes cannot go.



### ELECTRICAL DRIVE SYSTEM, OPTIONAL HYBRID DRIVE SYSTEM

When you use the compact crane mainly inside, where a 16A/400v outlet is available, the purely electrical version will be strong enough for your purposes. The C3412 comes equipped with a hydraulic pump with power control, enabling it to be fast at low load and strong at high load. Thanks to this feature, an electrically powered Reedyk crane operates just as fast as a diesel-powered crane. The hydraulic pump adjusts itself to the movement speed for an even more accurate control. Do you want a crane able to move autonomously, even without mains power? Then the hybrid version is the best choice since it comes equipped with its own diesel power generator.



## MULTIFUNCTIONAL REMOTE CONTROL WITH A DISPLAY

With the supplied wireless remote control you are able to control all functions of the compact crane: travel, leg movement, and lifting. The display on the remote control provides you with current information on the weight of the load, the load on the lifting cylinder and winch, the stability of the crane and the sensitivity setting of the control handles.



## OPERATION WITH CAN BUS SYSTEM

All compact crane components communicate with the controller via a CAN bus system, as applied in modern cars. This robust system results in additional reliability for the crane's operation.

## OPTION: A HYDRAULIC JIB FOR 22 METRES

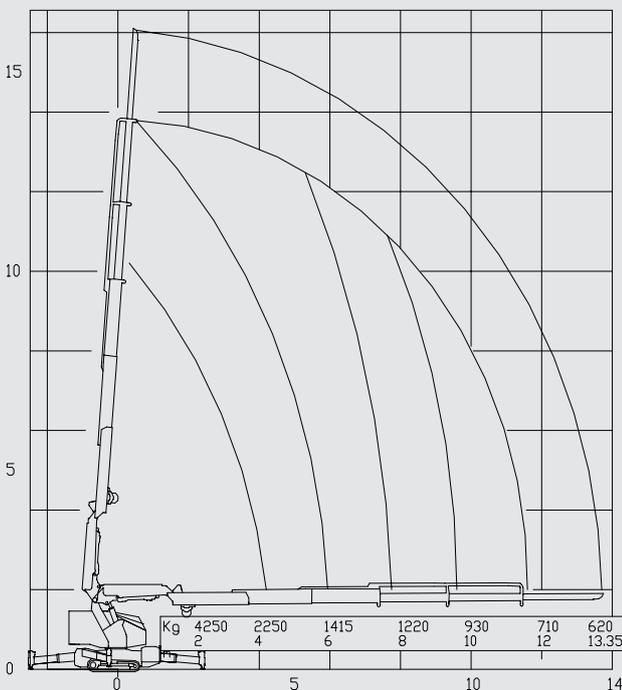
The C3412 may easily be equipped with many additional features for special applications. This includes the quick-connect hydraulic 5 t/m jib able to fold 200 degrees and extend four times. This brings the total lifting height to approx. 22 m with a range of 19.5 m. Folded, the jib does not take up any additional space so the compact crane may still easily manoeuvre in cramped spaces.

## OPTION: STORAGE SPACE FOR (LIFTING) TOOLS

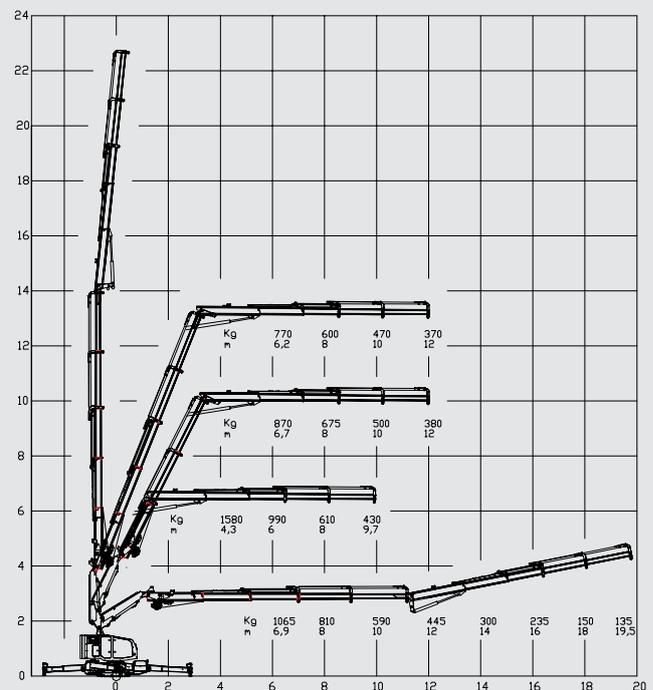
Another convenient extra is the lockable storage space for additional tools, filled with top quality slings, shackles, lifting tools along with a tool kit. All you need to get started with your job immediately.

## ROBUST, MODULAR DESIGN

The steel plating is 5 mm thick, without protruding parts. The engine space has large service doors and the cover can be removed for easier service. This is made even easier by the compact crane's modular design.



Loadchart Reedyk C3412: Fully extended



Loadchart optional hydraulic: JIB fully extended

## ADDITIONALLY

In this brochure we are not able to let you experience all of the advantages of the C3412 crane, which are best experienced in practice. We like to mention that it has a central lifting eye, so the mini crane can easily be positioned, for example on a higher floor. Moreover the units come equipped with non-marking rubber tracks and the GPS/GSM module. The module provides current information on your mini crane's location and allows logging on from a distance. And what do you think of an automatic levelling feature, a convenient information display on the crane and pick & carry capacity of up to 1,000 kg? We have it.

## PURCHASING YOUR REEDYK CRANE

You can purchase the Reedyk Compact Crane C3412 in any RAL colour you want. We are also able to accommodate your specific wishes.





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## TECHNICAL DATA C3412

### Dimensions and weights

Crane lifting torque	11.8 tons / meter
Rotation	405 degrees
Max. height	Approx. 16.00 m. 1,000 kg.
Max. outreach	Approx. 13.35 m. 620 kg.
Max. lift capacity	Approx. 2.20 m. 4,250 kg.
Machine weight	Approx. 6,250 kg.
Width	96 cm
Height	202 cm
Length	290 cm

### Hydraulic pump

Electric motor	7,5 kW/400 V
Type of connection	CE 16A/400 V
Pump type	Piston pump
Max. system pressure	400 bar

### Hydraulic valves

- > 7-way proportional electro hydraulic
- > All crane functions simultaneously controllable
- > All valves electrically and manually operational

### Built-in generator

Diesel engine	Lombardini FOCS LDW 1003, water-cooled 3-cylinder diesel engine
Generator	Stamford generator, power 9 kVA
Voltage	400 V 3 phase, 3x230 V power outlets

### Remote control

Type	Wireless remote control
Brand/type	Hetronic Nova xl, all functions fully proportional
Design	Lever, display, selection switches, lockable storage space for remote control

### Control system

PLC	Mobile controller
Display	5.7 inch monochrome display
Communication	CAN-bus
Voltage	24 VDC

### Drive system

Drive motor	Hydraulic
Tracks	Non-marking rubber tracks (standard)
Drive unit	18 steel track rollers
Tensioning system	Grease tensioner

### Crane arm

Configuration	Foldable
Telescopic part	4x hydraulic extensions, 1x manually extension, cable winch and fixed hook

### Lifting winch

Brand / type	Rotzler Titan TH1
Lifting cable	8 mm, length 47 m.
Lifting load	1,000 kg, single fall, 2,000 kg, double fall
Max. lifting speed	25 m./ min.
Safety	Torque limiter on drum, 3-loop safety

### Legs

Extension	Wireless / hydraulic stepless
Swivelling	Wireless / hydraulic, stepless variable placement, max. leg length from centre: max. 2.9 m.
Setup	Automatic
Storage	Storage space for and including rigger pads 300 mm

### Safety features

- > Lift load safety on winch cable
- > Load monitoring on lift cylinder
- > Leg pressure measurement
- > Leg position measurement
- > Lifting end switch for winches and extension
- > PLC-controlled stability monitoring system
- > Electronic level
- > PLC-controlled level positioning

## OPTIONS

### Extra hydraulic function

- > 8th proportional valve with flexible cable/hoses on the telescopic arm
- > CAN-bus connection to telescopic arm e.g. suitable for hydraulic jib

### Hydraulic jib 5 tons/metre

- > Foldable 180 degrees + 20 degrees
- > 4x hydraulic extensions, 1x manually extension
- > Connectable to telescopic arm
- > CAN bus control and power measurement
- > Operating height 22 metres 500 kg.
- > Radius 19.5 m. 135 kg.
- > Own weight 395 kg.

### Storage space

- > Lockable drawer for lifting tools
- > Tool kit with tools

### Maintenance features

- > GSM-/GPS module
- > Read-out from a distance of position
- > Remote fault diagnostics through GPS/GSM
- > 5,7 inch intercolor display

### Synthetic cover

- > Synthetic cover for protection during transport or storage

Reedyk reserves the right to changes in models, technical specification, visual presentations or any other information.