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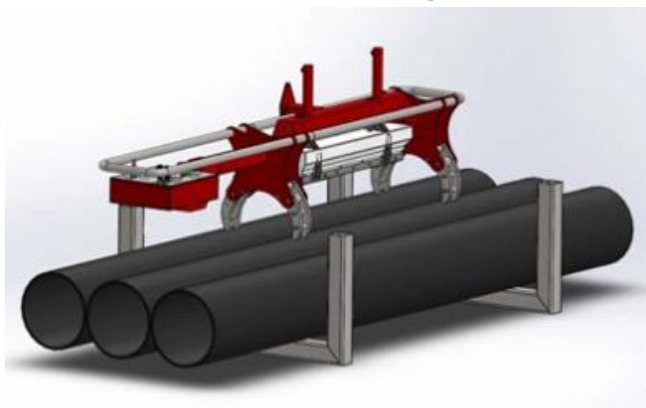
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## ManipAll Rod & Casing Handler



The Royal Eijkelkamp ManipAll Rod and Casing handler gives your team the absolute head start. The ManipAll magnetic rod loading arm is available in three different types: 200, 250 and 250 RC available. The ManipAll technology exceeds all safety and ergonomic expectations.

- Increase productivity
- Safer working environment
- Large diversity of casing possible
- All tools handled by 1 person
- Extensive magnetic force

## Description

Besides the fact that you can work faster with the ManipAll rod and casing handler, you also work a lot safer as it does the heavy lifting for you. The ManipAll lifts casing by magnet, and once lifted hydraulic grippers hold the pipe. It allows you to place drill rods at an angle for use with angled drills.

The ManipAll 200 is suitable for the SRS and the CRS drilling rigs. The ManipAll 250 and the remote-controlled 250 RC are suitable for the CRS, MRS XL and the larger drilling rigs of Royal Eijkelkamp.

The ManipAll 200, 250 and 250 RC are built to fit Royal Eijkelkamp drilling rigs. For other manufacturers, a customized installation package may apply.

A large diversity of housings is possible for the ManipAll, and it is provided with a large magnetic force. All tools are manageable by one person, which proves how easy it is to use. For all specifications, please download the specifications sheet or contact a specialist.

## Available variations

- **03.00.04.2** ManipAll 200
- **03.00.04.1** ManipAll 250
- **03.00.06.8** ManipAll 250 Remote control

Safety is not expensive, it is priceless.

## Specifications

### ManipAll Rod & Casing Handler

Hydraulic pressure	210 bar / 3,000 psi
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Hydraulic flow	10 l/min / 2.6 gpm
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## Break-Out Clamps

The break-out clamp of Royal Eijkelpkamp ensures that you can do your work even more safely and easily. The break-out clamp is mounted on the base part of a casing rod and ensures that breaking out casing or rod connections is done quickly, safely, securely and is ergonomically responsible.

- Rotation is perfectly guided by a double thrust block
- Top and bottom clamps can be mounted at various distances to comply with any casing thread type
- The unscrewing part can be separated from the clamping part
- All components are separately replaceable
- Grip bit inserts (hardened at 58 Hrc) replaceable in only a few minutes
- Clamping and untwisting parts can be done independently

## Description

The break-out clamp of Royal Eijkelpkamp ensures that you can do your work even more safely and easily. Two types are available: The lighter type allows 2-7.9 in (50-200 mm) casing to be clamped; this type is intended for CompactSonic rigs (not for SonicMast CRS-T or CRS-P). The heavier type 2-7.9 in (50-200 mm) is intended for MidRotoSonic and LargeRotoSonic. Of course, you can screw them to any rig that uses casing or rods of these dimensions.

These are heavy-duty clamps, equipped with oversized bearings and hydraulic components. The construction is based on many years of experience and intensive use. All parts are interchangeable. Grip bit inserts can be changed on site within minutes.

Different types of Break-Out Clamps are available. For complete details contact one of our specialists.

### Available variations

- **30.12.26** Allows clamping 2-7.9 in (50-200 mm) casing
- **32.12.26** Allows clamping 2-7.9 in (50-200 mm) casing

## Specifications

## Break-Out Clamps

Grip bits

Exchangeable

Operation

Clock- or anti-clockwise

## Monitoring Well Consumables



Royal Eijkelpkamp Monitoring Well Consumables are pre-packed and offer drilling equipment that sets the standard on best drilling speed available in the market. The installation of monitoring wells used to be a time-consuming part of a drilling project, with our pre-packed monitoring well consumables this is a thing of the past.

- Save time and money with quick and guaranteed installations
- Well sealing according to ISO, EPA and ASTM standards
- Clean working method
- HDPE monitoring well material does not affect the sample as PVC can
- Minimal development and rinsing water generated for sampling, resulting in less time needed and less cost for disposal
- Pre-packaged bentonite according to KIWA certification

## Description

To speed up the installation process, Royal Eijkelpkamp now offer the successful pre-packaged monitoring well products. With a pre-packed monitoring well pipe, the filter sand is packed around the slotted filter pipe. In this way, impermeable layers can be sealed off. The sand trap protects the monitoring well in the time after installation and full expansion of the bentonite seal.

The small diameter of the monitoring well requires less water for a representative sample. Our Pre-packed monitoring products perfectly fit on our Sonic tooling and bentonite are compliant with KIWA certification.

Royal Eijkelpkamp offers three sizes of pre-packed monitoring well pipes.

**Available well sizes (ID/OD of well pipe):**

- 0.59x0.79in (15x20mm) pre-packed well, largest OD of bentonite 1.4in (35mm)
- 0.98x1.26in (25x32mm) pre-packed well, largest OD of bentonite = 2.36in or 2.76in (60mm or 70mm)
- 2x2.5in (51x63mm) pre-packed well, largest OD of bentonite = 3.9in (100mm)

## **WELL-GUARD® Casing Lubrication**

### **Specifically designed for critical monitor well**

Royal Eijkelpkamp Casing Lubrication is a grease that reduces friction and conduct heat from the highest friction spots to cooler parts of the threading. Use Well Guard® for monitoring and drinking water well drilling.

- Hydrocarbon resistant
- Corrosion resistant
- Vegetable & synthetic base
- Nontoxic
- Chemically stable
- Pumpable

### **Description**

- WELL-GUARD is a high-performance thread compound specifically designed for critical monitor well and other environmentally sensitive drilling applications requiring the use of a petroleum hydrocarbon-free product. WELL-GUARD is formulated from a synergistic blend of synthetic fluids and non-metallic, inorganic, EP and anti-wear additives. WELL-GUARD provides maximum protection against galling, seizing, and damage to threads while maintaining monitor well integrity.
- WELL-GUARD is an all-weather product and is completely brushable from -9.4°F to 199°F (-23°C to 93°C) while retaining its buttery texture at temperatures exceeding 400°F (204°C). Is in full compliance with all current Environmental Protection Agency (EPA) specification limits as detailed in tests completed by 3rd party test labs in the USA. Test results available on request.
- Purely organic greases will loose their proper lubrication properties at temperatures exceeding 320-356°F (160-180 °C). The greases we recommend for casing connections contain organic carriers in combination with minerals for increased heat resistance.

### **Specifications**

#### **WELL-GUARD® Casing Lubrication**

Color

Beige Paste

## **SEAL-GUARD ECF™ Casing Lubrication**

### **Ideal for use on high-chrome connections**

Royal Eijkelpkamp Casing Lubrication helps reduce friction to avoid scoring and rapid degradation of the threading, by conducting heat from the highest friction (hot) spots to cooler parts of the threading. Use Seal Guard™ for general applications.

- Environmentally accepted biodegradability
- Metal free
- Hydrocarbon resistant
- Corrosion resistant
- Pumpable

- Vegetable & synthetic base

## Description

This grease has been specifically formulated to meet the performance requirements of proprietary, metal-to-metal seal and high-interference connection designs utilizing today's high-performance materials, which include "super" chrome and high-alloy steels like we use for our Sonic casing.

Environmentally accepted biodegradability: Meets or exceeds Ospar Commission-HOCNF (Harmonized Offshore Chemical Notification Format) CLASSIFICATION: "Yellow" rating for Norway CLASSIFICATION: "E" for The United Kingdom & The Netherlands.

## AquaLock Piston Sampler



The patented Aqualock piston sampler enables you to easily and quickly collect high-quality soil samples under various conditions. Even loose sand and saturated sediments can be sampled with the Aqualock piston sampler, allowing you to collect samples that are usually difficult to collect with standard techniques.

- Improved sample quality and recovery in unconsolidated alluvial soils
- Reduce the costs per sample meter
- Fast and accurate
- No waste
- No casing needed
- Off shore sampling

## Description

The patented AquaLock is a soil sampler with absolutely unique features. The AquaLock is vibrated down directly to sampling depth where it takes a long and practically undisturbed sample. It combines the advantages of the very rapid, smooth and powerful Sonic drilling technique with the advantages of a piston type core sampler. It can be used for continuous sampling or discrete sampling.

The Aqualock Piston Sampler is available in three different sizes:

- Aqualock 50
- Aqualock 70
- Aqualock 100

## Specifications

### AquaLock Piston Sampler

## AquaLock Piston Sampler

AquaLock Piston Sampler sizes	1.97in / 2.76in / 3.94in (50mm / 70mm / 100mm)
Material type	Stainless steel
Liners available	Yes
Core catchers available	Synthetic and Stainless steel

## SingleWall CoreBarrel Samplers



The SingleWall CoreBarrel sampler is designed to take high quality samples in a broad spectrum of formations. The SingleWall CoreBarrel sampler is easy to use, fast, and accurate.

- Improve sample quality
- Sample without the use of water
- Fast and accurate

## Description

The SingleWall CoreBarrel sampler is designed to take high quality samples in a broad spectrum of formations. It will work best in harder alluvial and mixed formations. It can even handle small boulders and hard layers. Sampling is performed dry. A casing makes sure that the borehole does not collapse when retracting the sampler. Cores can be sampled straight in the core barrel or directly into a liner. The sample can be extruded into polyethylene foil tube, plastic gutters, or a core box.

The SingleWall CoreBarrel Samplers is now available in different diameters and lengths. You can get the following sizes from us:

- SingleWall CoreBarrel sampler **55** = 2.1 in x 78.7 in (53 mm x 2.000 mm)
- SingleWall CoreBarrel sampler **105** = 3.94 in x 118.1 in (100 mm x 3.000 mm)
- SingleWall CoreBarrel sampler **130** = 4.92 in x 118.1 in (125 mm x 3.000 mm)

For all specifications, please download the specification sheet or contact our expert.

## Specifications

### SingleWall CoreBarrel Samplers

Sizes available	CoreBarrel 55 / 105 / 130
Max. depth	No limit
Core catcher possible	yes
Material	Steel

### Dual Wall CoreBarrel Samplers

The Dual Wall CoreBarrel sampler is designed to take high quality samples in formations that are normally very difficult. It works best in formations containing harder layers or boulders. It can even handle very soft alluvial formations that transition into hard material.

- Improve sample quality and recovery in harder and mixed formations
- Do not flush away the fine material in a sample
- Never miss any layer
- A monitoring well can be installed directly after sampling through the casing
- No deviation in formations with boulders and hard layers
- Very accurate sample of overburden intersection going over into hard bedrock

### Description

The Dual Wall CoreBarrel Sampler has an annular space in the barrel that allows a medium to be used without washing away the fine material.

A front or side outlet is available for the choice of ring bits; the frontal version is used in homogeneous hard formations, while the side outlet version is intended for mixed formations and prevents fine material from being washed away. A casing prevents the borehole from collapsing when the sampler is emptied. The cores are sampled directly in the core barrel. The sample can be extruded in polyethylene foil tube, plastic gutters or core box.

The Dual Wall CoreBarrel Samplers is now available in different diameters and lengths. You can get the following sizes from us:

- Dual Wall CoreBarrel Samplers **55** = 2.1 in x 78.7 in (53 mm x 2.000 mm)
- Dual Wall CoreBarrel Samplers **105** = 3.94 in x 118.1 in (100 mm x 3.000 mm)
- Dual Wall CoreBarrel Samplers **130** = 4.92 in x 118.1 in (125 mm x 3.000 mm)

For all specifications please download the specification sheet or contact our expert.

## Specifications

### Dual Wall CoreBarrel Samplers

## Dual Wall CoreBarrel Samplers

Available in different sizes	CoreBarrel 55 / 105 / 130
Max. depth	No limit
Core catcher possible	Yes
Material used	Steel

### *Casings, Bits and Adapters*



Our casing, bits and lost cones are used in situations varying from arctic Siberia down to tropical Nigeria and have proven to always perform well. To enable the stunning drilling speeds and the large variety of formations to drill in, all tooling must be able to cope with the high energy level involved

- Specially friction-welded
- Zones are hardened after welding with a high-tech induction technique
- Covers in various diameters
- Break-out bars are oversized to withstand years of intensive casing linking and uncoupling
- Box joints and break-out bars are machined from solid steel instead of being welded to the casing tube center section.

### *Description*

To enable the amazing drilling speeds and the wide variety of formations in which drilling can take place, all tooling must be able to cope with the high energy level. Royal Eijkelpomp has years of experience with sonic casing. We have the knowledge that is required to produce quality tooling. We and you can keep track of the performance and results of improvements because every part is provided with a unique number.

### **Product details**

The casings are provided with special threads on conical shaped connectors. This ensures the longest service life under the special sonic vibration conditions. The joints of the casing tubes are specially friction welded. No additives are needed at all. Friction welding results in absolute straightness of the casing tubes. The welding zones are hardened after welding with a high-tech induction technique. Box joints and break-out bars are machined from solid steel instead of being

welded to the casing tube center section. This prevents stresses and fatigue due to welding and prolonged use.

### Available variations

- **GP63 and GP88** flush inside female and male ends
- **GP88** flush inside female and male ends
- **GP88 and GP100** flush outside
- **GP114, GP146, GP168 and GP219** flush outside casing for handling and safety reasons the couplers have a little oversize

### *Injection Lance*



The Royal Eijkelpomp Injection Lance is fitted with a chisel type cone in which a spring retained large valve is mounted. The valve is kept closed by a spring and by the pressure of the groundwater surrounding the chisel. The valve will only open when pressure is applied larger than the pressure of spring, groundwater and (liquefied) soil together.

- Applicable for several purposes
- Higher working speed
- Perfect combination with a drilling rig

### *Description*

Sonic vibrations allow, in many cases, a very rapid penetration of formations. This lets you install many wells or sensors in only a short period of time. When you need to inject a liquid on a site, an even higher working speed is applicable since there is nothing to install! When an even distribution of the liquid in the penetrated formation is essential, many drillings per hectare are needed. That is a perfect task for a Sonic drilling rig in combination with this Injection Lance.

### Application examples

- Remediation projects: Injection of liquids that initiate or stimulate remediation processes.
- General drilling jobs: Filling up of a borehole with a bentonite grout after soil sampling.
- Geoconstruction.

### available products:

- **SD2000209** Injection Lance
- **SD2000210** Injection Lance spare part set

## Specifications

### Injection Lance

With of the valve-fitted chisel	3.15 in (80 mm)
Available for casing	GP63 (O.D.x I.D.= 2.76x1.57 in (70x40 mm))

### Railway gravel sampler



Royal Eijkelpkamp has developed a state-of-the-art drilling system to extract core samples from the coarse granite from railway beds and the soil below. There is a need to know more about this material. Higher train speeds, heavier loads and a growing interest in the dangers of pollution, make sampling necessary.

- Unique Royal Eijkelpkamp drilling system for railway maintenance and deployment
- Can take samples of large and hard granulates of 1.18-3.94in (30-100mm)
- A highly mobile and cost-efficient drilling system

- **Description**

- Taking samples of the large and hard granulates of 1.18-3.94in (30-100mm) present in railway tracks is very difficult. Royal Eijkelpkamp has developed a sampling technique that gives you a reliable core and a high recovery rate for this material.
- The heart of this specialized system is our sonic drill head. Two eccenters, driven by high-speed hydraulic-motors generate a high-frequency (~180 Hz) vibration. This vibration facilitates the intrusion of the sampler into the coarse granite material. The vigorous but hardly visible vibration produces a strongly reduced friction. Inertia effects care for a near 100% recovery rate of the sampled material.

- **Specifications**

### Railway gravel sampler

Samples	1.18-3.94in (30-100mm)
Max. Frequency	180 Hz

## *Lost Cone Installations*



Seismic drills are designed to limit the impact of exploration work, Royal Eijkelpkamp developed a much neater technique based on lost cones.

- Limits the impact of exploration work
- Different sizes available
- Safer than other techniques

## *Description*

Royal Eijkelpkamp has developed a seismic drilling technique based on a lost cone, which is hammered or vibrated into place with a small diameter casing. It is now the standard solution for boreholes.

### **The problem with installing seismic explosives**

In the past, installing seismic explosives led to cutting piles and disturbed soil surfaces left in the field and, even worse, the penetration of impermeable layers allowing leakage and mixing of salt or contaminated water with clean aquifers or even flow to the surface.

### **Safety**

The seismic shothole tools and procedures are designed to prevent pulling up the explosive when extracting the drill casing. First, there is the geometry of the lost cone, assuring a minimum of friction when going down and a maximum of friction when the casing is pulled up, optimizing the chance that the cone stays down.

Second, the weight of the full length of bentonite plugs and water column pushing on the lost cone during extraction, plus the anchor mechanism on the explosive hold the charge in place. The vigorous sonic vibrations, only used during pulling up of the first section of casing, reduce the risk of a blocked cone to zero.

For seismic research we supply three sizes of casings.

### **Available variations**

- GP63 mm (2.48 in)

- GP88 (3.46)
- GP100 (3.94)

All with lost cones.

## Specifications

### Lost Cone Installations

Three sizes of casings	GP63 mm (2.48 in), GP88 (3.46) and GP100 (3.94)
Lost cones	Plugs casing until retrieval
Anchors for explosives	Folds out during retrieval of casing; also preventing theft
Bentonite plugs	Swells after adding water, repairing penetrated impermeable soil layers
Loading rods for explosives	Can be used to position explosive in open borehole (or casing)

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