



# WOLTMAN

## WOLTMAN 90DRe

### WHAT?

- ZERO-EMISSION
- DRILLING RIG
- FIRST IN ITS CLASS

### HOW?

- 200 + 1000 MWH BATTERY
- 2 PM-MOTORS
- ELECTRIC-HYDRAULIC POWERMANAGEMENT
- HIGHEST SAFETY STANDARD

The Woltman 90DRe is the first zero-emission Drilling Rig in its class for building sites with the most stringent emission regulations.

This drilling rig was developed after intensive market research and a unique starting point here is electrification based on capacity demand. The varying energy requirements have been optimized using two electric PM-motors, in combination with two battery units. As a result, the Woltman 90DRe is energy efficient and extremely powerful when needed.

### ABOUT THE RIG

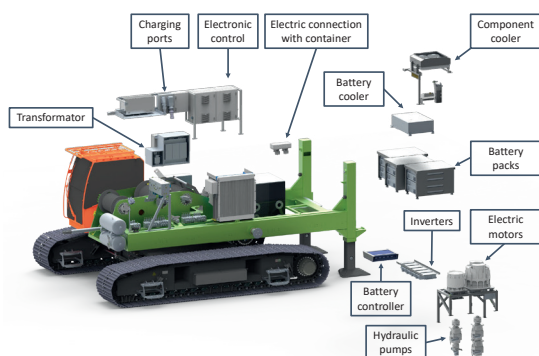
With a focus on Dieseko Group's strategy of supplying zero emission equipment and in consultation with users and market-leading parties, Woltman developed an electric drive, control and power supply for its first electric powered Drilling Rig. The 90DRe is 100% electrically powered. With its electric-hydraulic power management this 613kW Drilling Rig is 100% emission-free.

### BATTERY CAPACITY

Woltman investigated the required capacity based on logged data at construction sites. The result is a profile with 600kW power and 1.200kWh battery capacity. This capacity is sufficient for a full working day. Grid connection is only necessary during the heaviest working conditions for charging in idle time and to supply peak power. Overnight charging is sufficient for a full working day.

### FEATURES

- Heavy duty, multi-functional Drilling Rig with very low noise levels
- 1200kWh (200kWh + 1000kWh) battery capacity for a full working day
- Charging time >90% ca. 10hrs
- Energy savings due to two-motor electric/hydraulic power system
- Simultaneous charging/discharging > distribution between batteries
- Working temperature -10°C - +40°C
- Highest standard in safety, components and certification (TüV, Aboma)
- Load/unload and leader-erection without external battery/grid
- Saves about 80 tons of CO2 emission per year
- Based on the proven and robust 90DR





## SPECIFICATIONS

<b>Recommended rotary head RH:</b>	40-45-50	500	<b>Weights:</b>		
<b>Max. torque on leader</b>	500	kNM	Transport weight excl. rotary head	90	tonnes
<b>Leader length standard (max.)</b>	30/33/36	m	Transport weight without battery pack	75	tonnes
<b>Max. drill depth</b>	26/29/32	m	Weight without tracks & battery pack	57	tonnes
<b>Max. diameter</b>	1500	mm	Weight per track drive	9	tonnes
<b>Pull-up force</b>	100	tonnes	Weight battery pack	15	tonnes
<b>Pull-down force</b>	30	tonnes	Total weight	102	tonnes
<b>Auxiliary winch</b>	12	tonnes	<b>Electric specifications:</b>		
<b>Max. oil flow</b>	800	l/min	Total battery capacity	1200	kWh
<b>Max pressure</b>	350	bar	Electrical power	613	kW
<b>Engine</b>	2x PM-motor		Battery life time (estimated)	20	years



"This unique emission-free high power Drilling Rig provides a real USP when bidding in foundation projects with most stringent emission regulations"

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