

# VIBRATION HEADS



X-SERIES



VIBRATION HEADS



CORING HEADS



DOUBLE HEAD DRILLING SYSTEMS



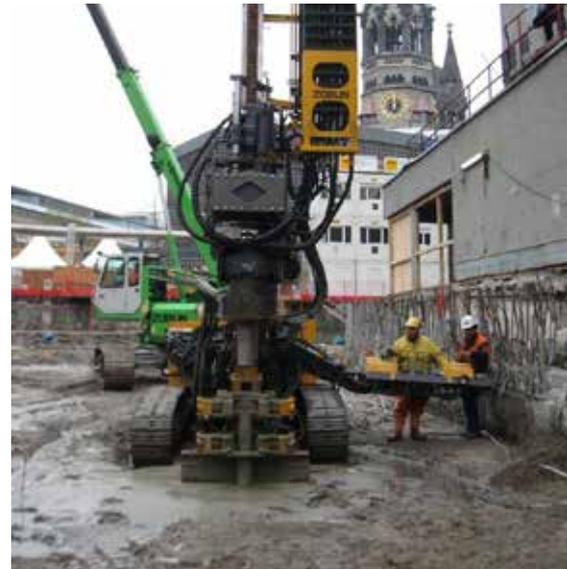
ROTARY HEADS FOR PILE RIGS



DRILLING ACCESSORIES







## Vibration Heads

Eurodrill Vibration Heads provide an ultimate drilling capacity with comparatively low power consumption. The modular design allows both a compact as well as a weight saving solution. Besides, the modern design enables a high productivity for most different requirements and operation conditions.

### Advantages

#### Drilling capacity

##### Drilling depth

- > 70 m in sand / clay
- > Overburden technique

##### Drilling diameter

- > 220 mm in slope rubble with bolders

#### Flushing

If it is not allowed to flush with air

- > In or close to power plants
- > In inner-city locations

#### Cost per meter

If drilling performance and profit optimization are a decisive factor

##### Extension of the drill string

Wear-free pulling of the drill string

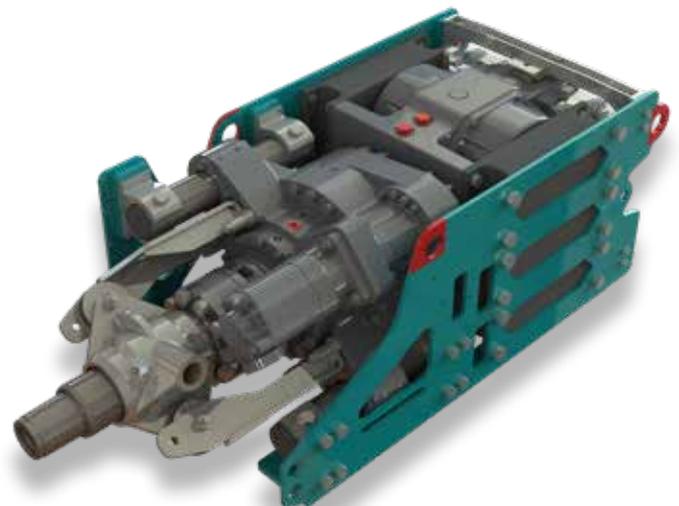
##### Additional Equipment

Cost reduction by saving additional equipment

#### Noise Emission

If the construction project has to be carried out in a noise-sensitive area e.g. Anchorages in inner city locations

RHV 1500





A Vibration Rotary Head basically consists of 2 main components:

**Rotation**

The rotary mechanism ensures the simultaneous or even independent rotational movement.

**Vibrator**

The percussion unit converts the power supplied by the carrier into kinetic energy.

**Vibration Drilling in Loose soil**

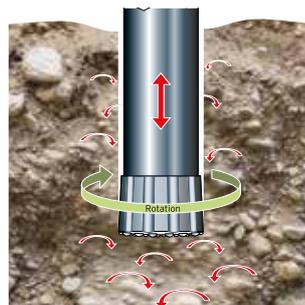
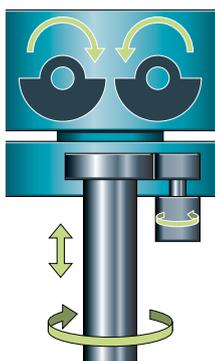
Axial movement in drilling and opposite direction

- > The vibrating drill string moves the surrounding ground into motion
- > The drill bit displaces the soil
- > Cuttings are discharged by suitable flushing

**Vibration Drilling in hard formation**

Axial movement in drilling and opposite direction

- > The drill bit is smashing the rock
- > The drill bit is actively lifted after every impact
- > Cuttings are discharged by suitable flushing





Option  
**Patented  
 VMS System**

**RHV 1500**

<b>Torque max.</b>	kNm	<b>15</b>
<b>Rotation max.</b>	min <sup>-1</sup>	<b>100</b>
<b>Centrifugal force max.</b>	kN	<b>140</b>
<b>Frequency</b>	Hz	<b>70</b>

750 kg Weight · 120 kN max. allowed traction

**RHV 2400**

<b>Torque max.</b>	kNm	<b>24</b>
<b>Rotation max.</b>	min <sup>-1</sup>	<b>132</b>
<b>Centrifugal force max.</b>	kN	<b>160</b>
<b>Frequency</b>	Hz	<b>60</b>

1480 kg Weight · 160 kN max. allowed traction

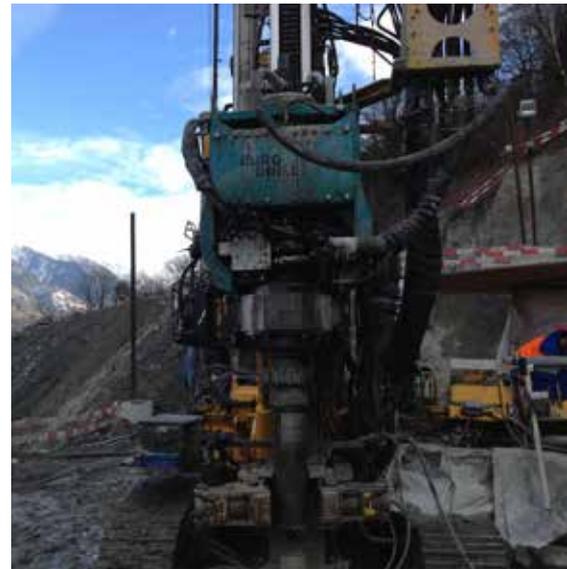
**DHV 24**

		<b>ROTARY HEAD 1</b>	<b>ROTARY HEAD 2</b>
<b>Torque max.</b>	kNm	<b>24</b>	<b>11</b>
<b>Rotation max.</b>	min <sup>-1</sup>	<b>132</b>	<b>214</b>

1880 kg Weight · 160 kN max. allowed traction







## VMS System

With the VMS system patented by Eurodrill the inner rod of an overburden equipment can be separated in axial direction at the vibration - rotary heads. Consequently the full vibration energy will be transmitted to the casing only, so a down-the-hole-hammer can be operated simultaneously.

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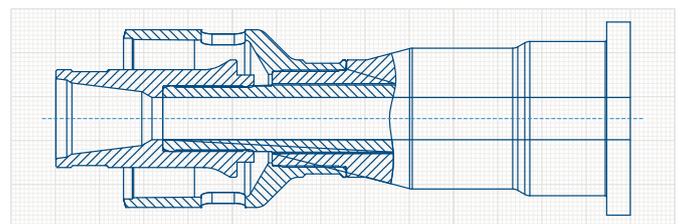
### Advantages of the system

**Extension of the application possibilities with larger drilling diameters, drilling depths and/or shortened processing time**

**Enormous saving potential on fuel by reduction of the processing time**

**Simplification of the drilling system by saving cost-intensive DTH bits to retract the casing**

**Facilitation when removing the casing by reduction of the friction with vibration when removing, as it is continuously approved**



One of  
**10.000**  
inhouse developed  
+ designed parts



## Philosophy

### Ideas and knowledge create the future

Careful listening to the wishes of our customers enable us to find the best solution for their demands and builds-up the basis of contentment and success of all our clients. It is our task and our challenge to query the existing, to realize the requirement intime and by constant improvement we are able to work out innovative solutions for the future.

Due to his individual skills and due to his motivation each employee is important for having content customers and for the successful operation of the whole company.

Technical Specifications are subject to modifications without prior notice and incurring responsibility for machines previously sold. The shown machines may have optional equipment. Technical data do not consider power losses. Error misprints reserved.