

# **Compact BWE KR400Nk Belt Wagon PV400Np**

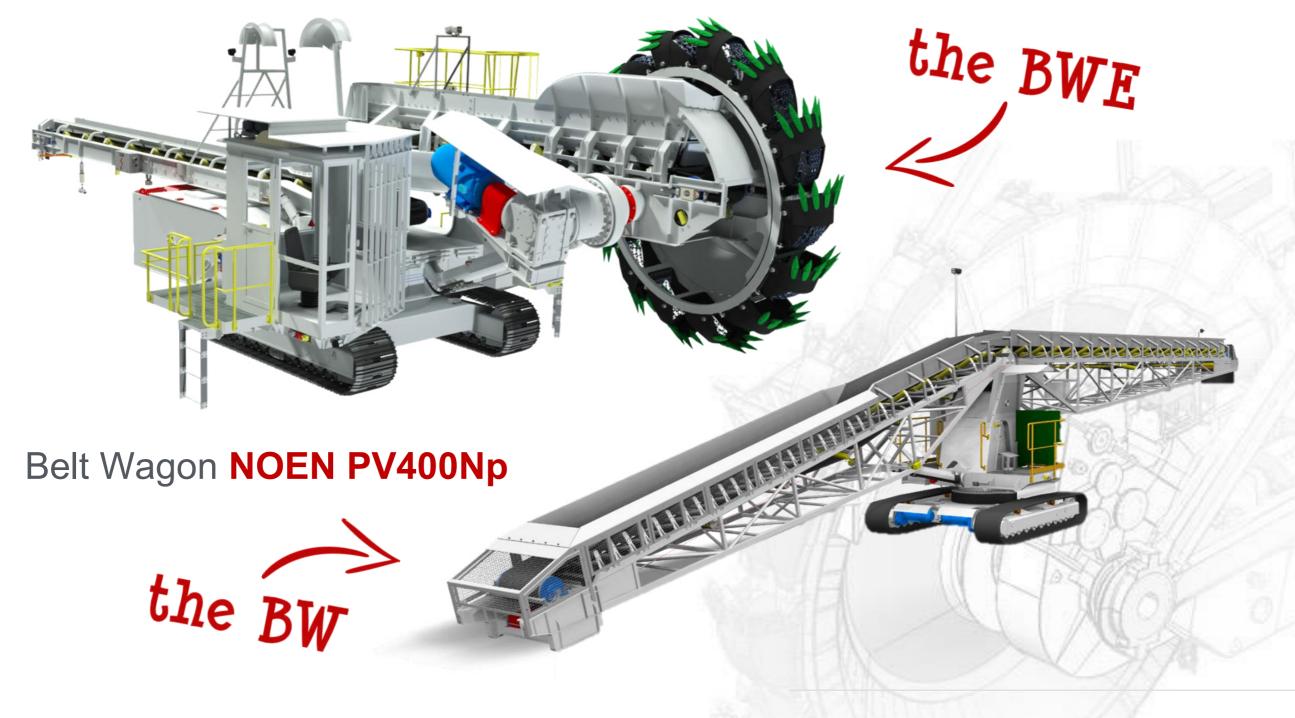
### NOEN, a.s.

Ing. Pavel Snášel Sales & Business Development Manager



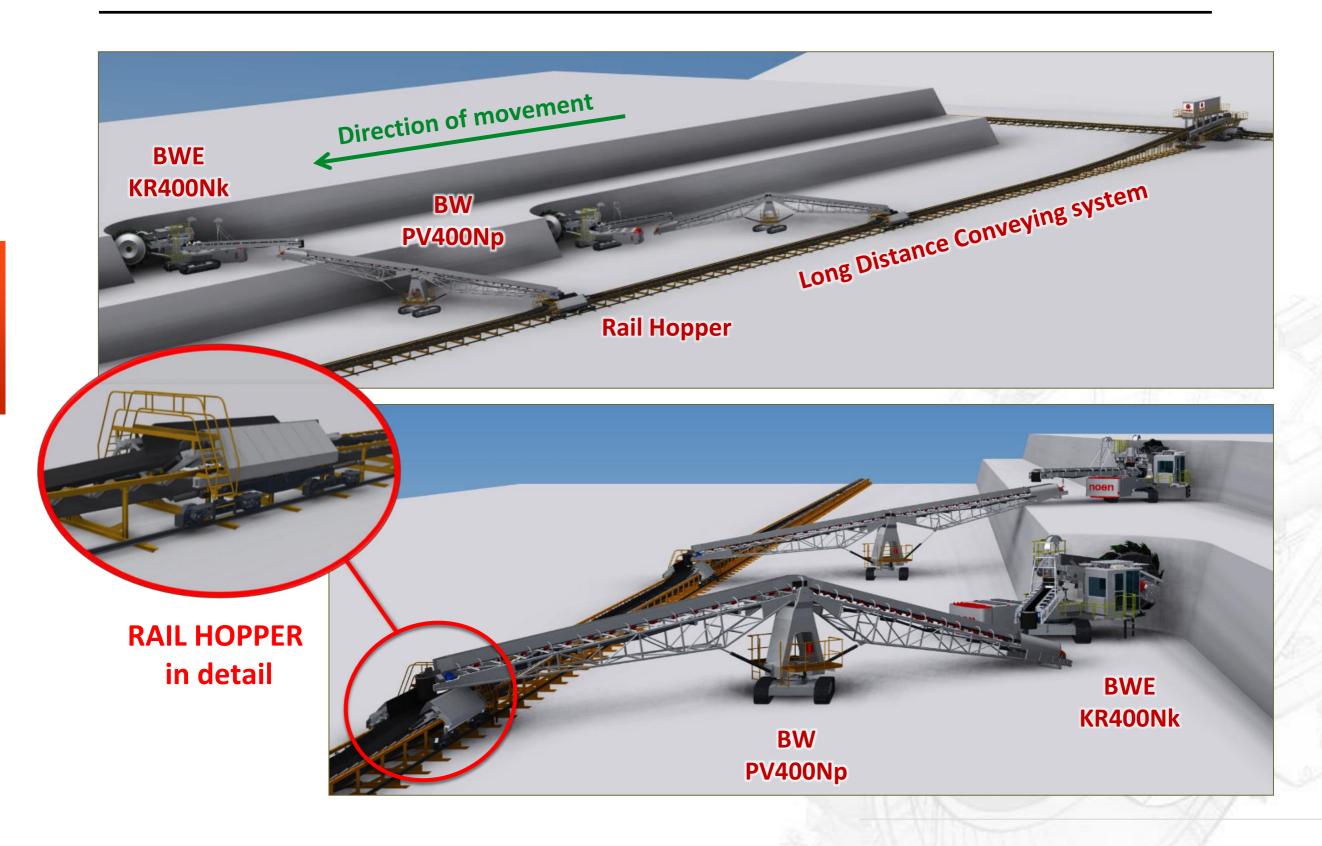
### Introduction

Compact Bucket Wheel Excavator NOEN KR400Nk



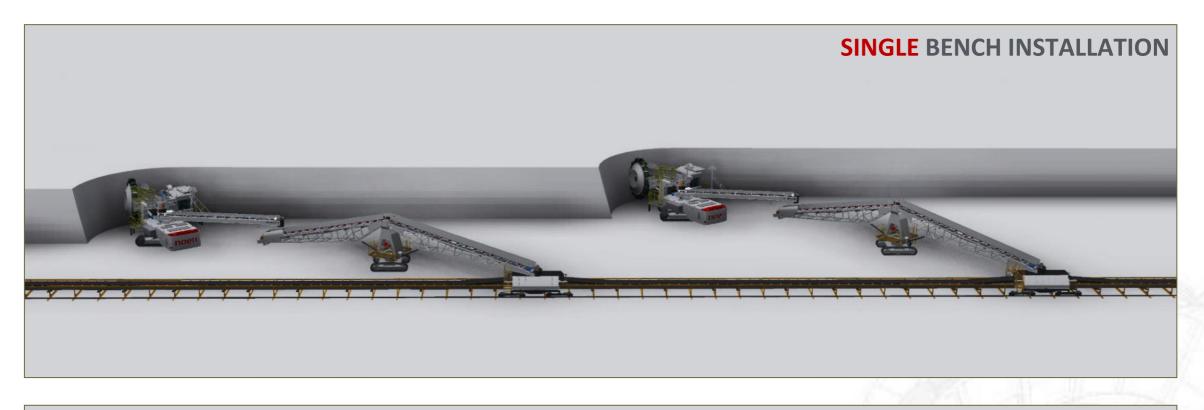


## Installation and system of excavating

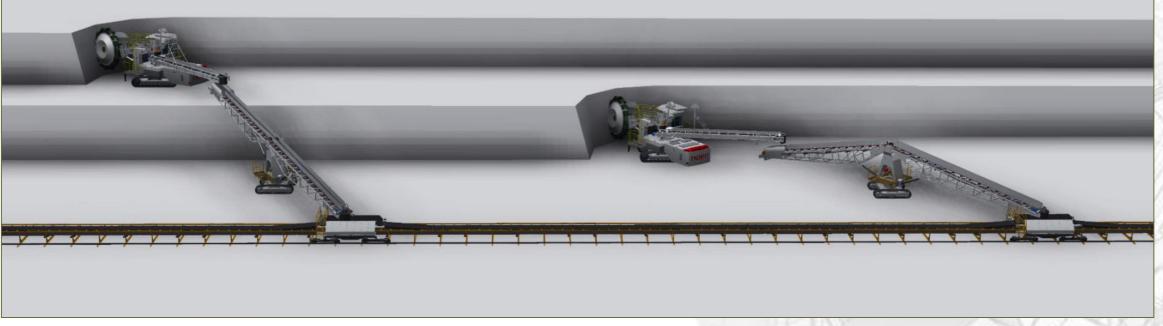




## Installation and system of excavating



#### **DOUBLE BENCH INSTALLATION**





### Compact Bucket Wheel Excavator NOEN KR400Nk

- Low energy consumption
- Good cost effectiveness
- Low time consumption for operating movements
- Low grain size of output material
- Transportability in one piece low onsite assembly time
- Belt Conveyor components identical with Belt Wagon



## BWE NOEN KR400Nk



The BWE is designed for specific parameters of open pit mines.

#### The excavated material

Chalk, Overburden, Coal, Metal Ores, Gravel, etc.

#### The way of work

The material is excavated by bucket wheel driven by electro-mechanical drive. The excavated material goes on the belt conveyor through the bucket wheel boom and transfer point to the discharge boom where exits the bucket wheel excavator and continues to the subsequent conveyor belt, Belt Wagon of long-distance transport.

#### **Main features**

The whole machine sits on crawler undercarriage with the ability of 360° slewing.

The hoisting system for bucket wheel boom as well as for discharge boom is hydraulic.

There is a central lubrication system which is automatically lubricating the main parts (slewing bearing, gears, shaft bearings, etc.)

The BWE can be transported as a whole without necessity of major dismantling.

hoer



BWE identification	NOEN KR400Nk	-
Bucket volume	100	dm³
Conveyor belt width	800	mm
Theoretical output	100 to 400	m³/h
Effective output	50 to 200	bm³/h
Service mass	74	t
Output grain size	0 to 300	mm
Input Voltage	400	V
Bucket wheel diameter	4 300	mm
Bucket wheel drive type	Electro-mechanical	-
Bucket wheel drive power	75 to 90	kW
Electric power installed	190	kW
Length of bucket wheel boom	6 000	mm
Length of discharge boom	11 000	mm





## BWE NOEN KR400Nk



Digging Element - Bucket with Teeth



Tailor made **teeth arrangement** according to excavated material

### Self-emptying system

designed according to stickiness of excavated material





### **Transportability** in one piece - low onsite assembly time



# BWE NOEN KR400Nk – Main Parts & Features

### Ergonomic and comfortable **Operator's Cab** - Inside

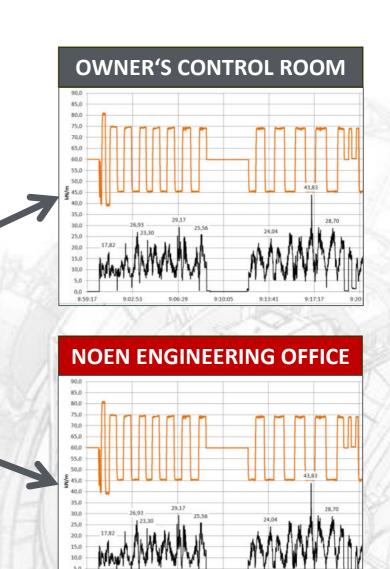




BWE NOEN KR400Nk – Main Parts & Features

- Logging of various data from PLC and FC on IPC
- Supervision of machine in warranty period
- Possible failure cause investigation
- Feedback data for engineers
- Remote help and settings





noen

DATAFLOW

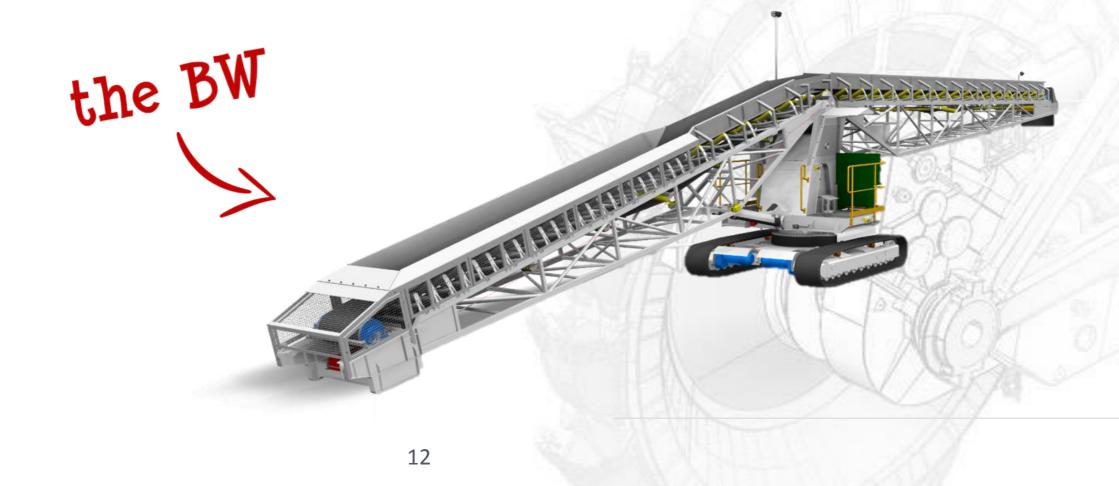
REMOTE HELP

DATA FLOW

## BW NOEN PV400Np

### Belt Wagon NOEN PV400Np

- Maximally extends operating distance of BWE and improves its mobility
- Low energy demand
- Good cost effectiveness
- Transportability in one piece low onsite assembly time
- Maximally identical spare parts with the BWE



## BW NOEN PV400Np



The Belt Wagon is designed for increase mobility of the Bucket Wheel Excavator.

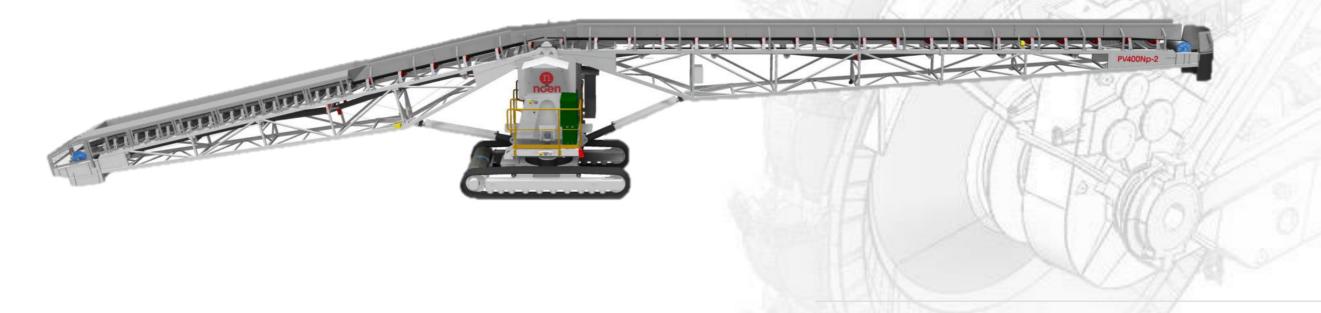
#### The transported material

Chalk, Overburden, Coal, Metal Ores, Gravel, etc.

#### The way of work

The material excavated by a BWE is loaded to a hopper of the Belt Wagon. Material is transported on a belt conveyor of the Belt Wagon to a desired point (e.g. Following BW, a hopper of long-distance belt conveyor, etc.).

Is it possible to transport a material onto same or different mine levels (benches).



BW identification	NOEN PV400Np	_
Bwidentification	NOEN PV400Np	-
Chassis	Crawler with electro- mechanical drives	-
Conveyor belt width	800	mm
Theoretical output	100 to 400	m³/h
Service mass	25	t
Transport speed of empty PV	0÷12	m/min
Maximum slope of empty PV	1:10	-
Max. ground pressure of empty PV	0,55	Kg/cm <sup>2</sup>
Input Voltage	400	V
Belt conveyor drive power	37	kW
Electric power installed	55	kW
Length	31 900	mm
Length of inlet boom	14 000	mm
Length of discharge boom	18 000	mm
Range of head pulley height	0÷8	m
Crawler width	3 500	mm
Slewing angle of upper part	320	o







**Transportability** in one piece – no need of conveyor belt splicing onsite and overall low assembly time



# BW NOEN PV400Np – Main Parts & Features

### Ergonomic Control panel and Remote control



noen

PV400Nr





### **Registered office of NOEN**, a. s.

Václavské nám. 772/2 110 00 Praha 1 Czech Republic

E-mail: noen@noen.cz snasel@noen.cz

### www.noen.cz