



Description:

Roadheading machine is designed for ripping of drift-way, recovering and enlarging of drift-way and for loading stones to mining wagon or to other kind of transportation equipment or can be used for breaking of rock by hydraulic hammer.

Roadheading machine moves after crawler belts. Separate drive is electrohydraulic, incoming supply of electric motor is going from the hall contactor through the trailing cable. Machine service operator sitting at work on the seat of attendant's place in the middle part of the machine. It can be supplied in various modifications to the voltage, and it 500V, 660V, 1000V and 1140V.

Roadheading machine consist of these principal construction totalities:

- crawler underbody with electric equipment (by special order it possible deliver underbody with amplified conveyor belt)
- mechanism of loading shovel, dinting shovel or mechanism of hammerlock (mechanism of dinting shovel and mechanism of hammerlock can be delivered with classic or telescopic arm with two kinds of cramping shovel or hammerlock and its classical or quick chucking).
- covering
- accessories for lagging and filling places between mining stones and steel reinforcement.

Roadheading machine may be used in all environments involving hazards of methane explosion according to ČSN EN 1127-2. It may be used at collieries which are sufferer by the coal-mining or the mines which are prone to blow-out in environments involving hazards of methane and coal dust explosion to degree SNM2 according to § 232 decree ČBÚ No. 22/1989 Sb. In wording to later regulations. According to the degree of the government No. NV 23/2003 (direction of European parliament and Council EU 94/9/ES) machinery is arranged in group I and category M2. The Roadheading machine mathech the requirement NV 176/2008 Sb. (direction of European parliament and Council EU 2006/42/ES).

Technical parameters:

Basic parameters

Weight with dinting shovel arm	7700 kg
Weight with dinting shovel and telescopic arm	8170 kg
Weight with loading shovel	8000 kg
Weight with hammerlock and with classic arm	7170 kg
Weight with hammerlock and with telescopic arm	7690 kg
Machine length with dinting shovel and with classic arm	7700 mm
Machine length with dinting shovel and with telescopic arm	from 7623 to 8223 mm
Machine length with loading shovel	7200 mm



UNIVERSAL ROADHEADING MACHINE PSU9000

KL-PSU9000-EN

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Machine length with hammerlock and with classic arm	7840 mm
Machine length with hammerlock and with telescopic arm	from 8150 to 8750 mm
Machine width (classic / beaded version BVP)	1160 mm / 1370 mm
Machine height (classic/ beaded version BVP)	1210 mm / 1300 mm
Under cart headroom	210 mm
Electric motor power	55kW
Special pressure on the subsoil	8,7 N/cm ²
Traversing rate	0,7 m/s
Transverse force	72000 N (at the vertical direction)
Cant of working at the ripping	-16°/+16°
Maximum lateral cant of working	-5°/+5°
Size of hydraulic reservoir	350 l
Cooling	oil / air
Rated operational pressure	19 MPa

Maximum range of dinting shovel with classic arm from one set-up :

Lower edge of shovel during max. arm upthrow	2600 mm
Top edge of shovel during max. arm upthrow and horizontally shovel	3295 mm
Max. digging height of shovel, max. upheaval of outrigger	3185 mm
Lateral range of shovel	2x 2225 mm
Maximum range beneath dignity of floor dinting	210 mm
Maximum angle of outrigger turning	2x 27°
Maximum angle of shovel turning	2x 30°
Shovel size	350 l
Shovel width	840 mm

Maximum range of dinting shovel with telescopic arm from one set-up:

Lower edge of shovel during max. arm upthrow	3185 mm
Top edge of shovel during max. arm upthrow and horizontally shovel	3806 mm
Max. digging height of shovel, max. upheaval of outrigger	4306 mm
Lateral range of shovel	2x 2276 mm
Maximum range beneath dignity of floor dinting	210 mm
Maximum angle of outrigger turning	2x 27°
Maximum angle of shovel turning	2x 30°
Shovel size	350 l
Shovel width	840 mm

Maximum range of loading shovel from one set-up :

Shovel high of lower edge at the maximum upheaval outrigger	2250 mm
Shovel maximum high of top edge at the tilt	4000 mm
Shovel maximum angle of tilt	50°
Shovel maximum angle of banking	65°
Maximum angle of outrigger turning	2x 27°
Shovel width	1400 mm
Shovel size	600 l

Maximum range of hamer with classic arm from one set-up:

Bit of hammerlock during horizontal position of the arm	7840 mm
Lateral range of hammer	2x 1643 mm
Max. range beneath dignity of floor dinting	660 mm
Maximum angle of hammer turning	2x 27°



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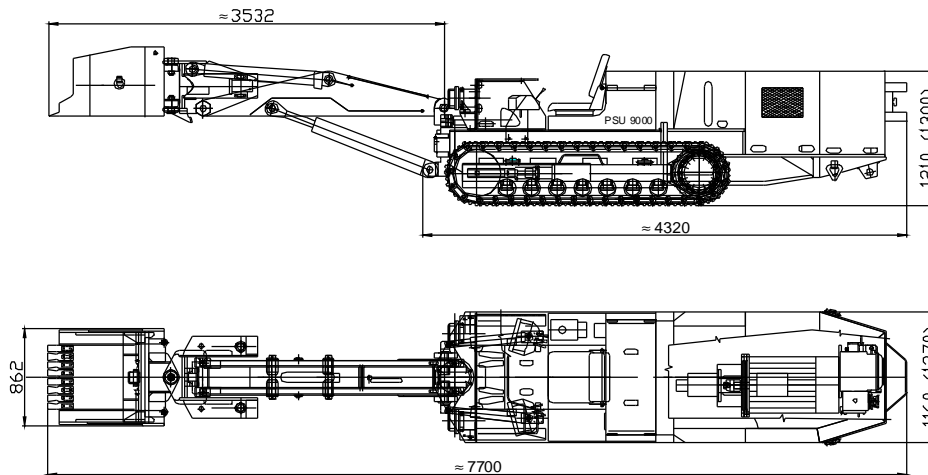
Maximum range of hamer with telescopic arm from one set-up:

Bit of hammerlock during horizontal position of the arm	from 8150 to 8750 mm
Lateral range of hammer	from 2x 1774mm to 2x 2054 mm
Max. range beneath dignity of floor dinting	880 mm
Maximum angle of hammer turning	2x 27°

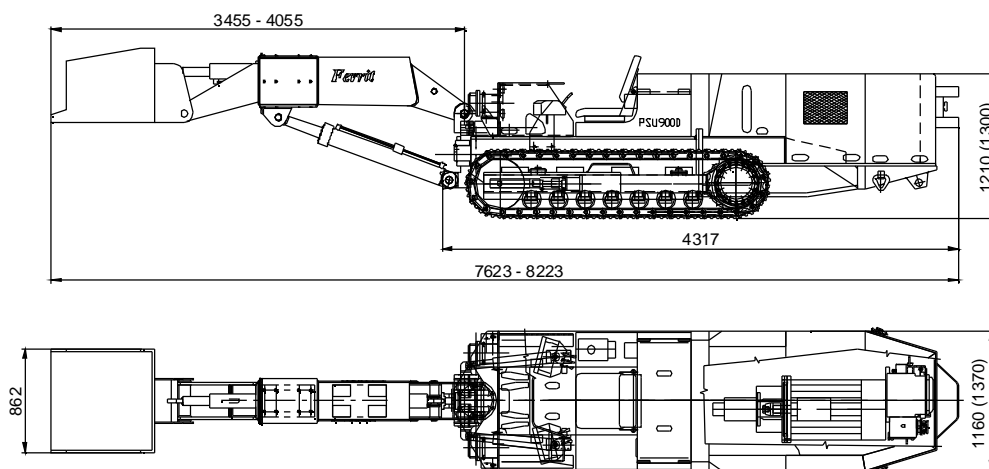
Certificate ATEX : FTZÚ 02 ATEX 0318 (electric motor type line dS*g *** *4-E)

Dimensional drawings:

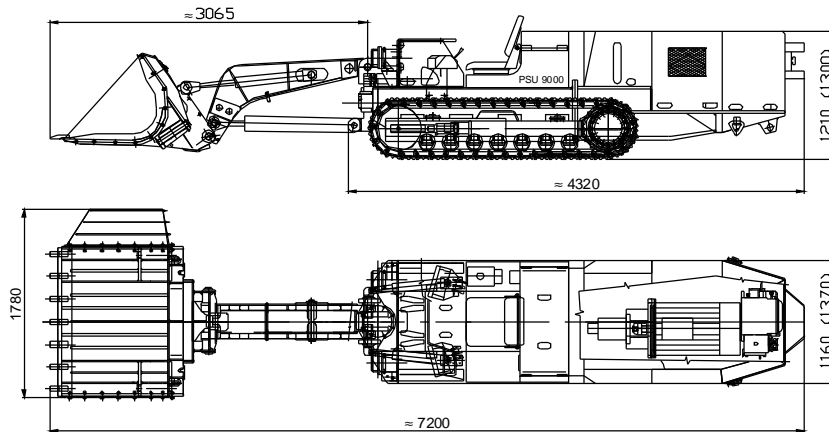
Dimensional drawing of roadheading machine with dinting shovel and classic arm



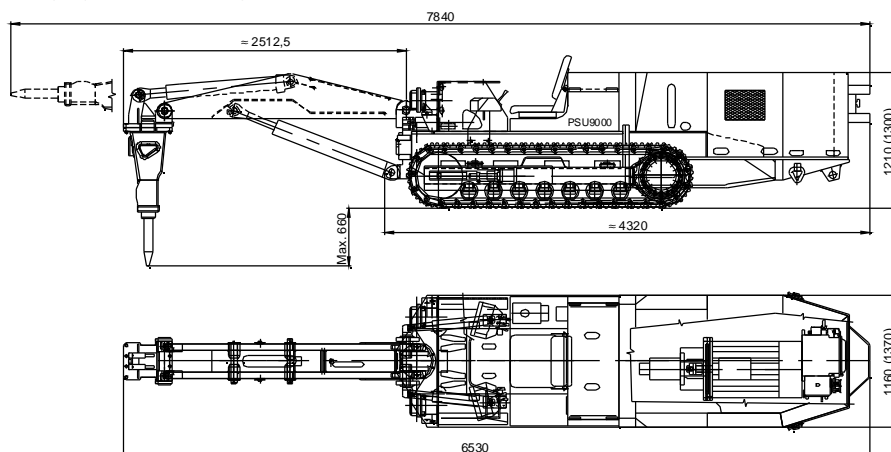
Dimensional drawing of roadheading machine with dinting shovel and telescopic arm



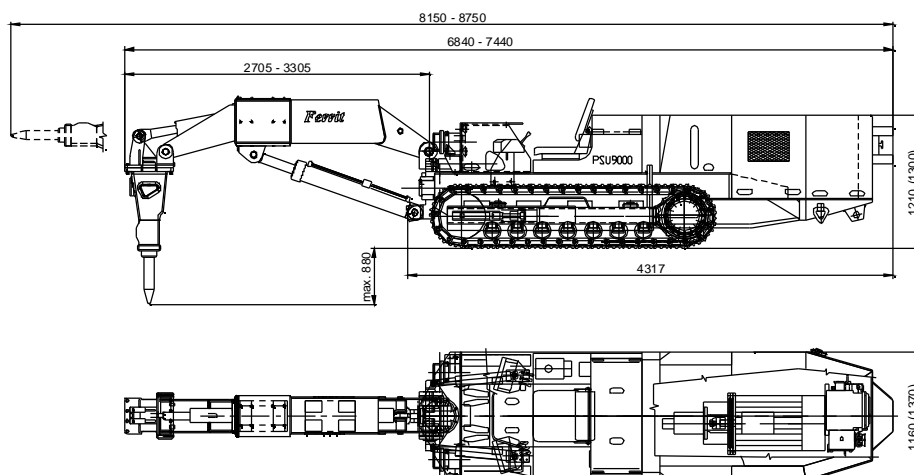
Dimensional drawing of roadheading machine with loading shovel



Dimensional drawing of roadheading machine with hammer and classic arm



Dimensional drawing of roadheading machine with hammer and telescopic arm





UNIVERSAL ROADHEADING MACHINE PSU9000

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Ordering:

In the order please state the type of the machinery you ask for, supply number, number of units, number of asked sets accompanying documentation (Direction for use, Catalogue ND, etc. – usually we enclose 2 sets of this documentation).

Ordering key:

ORDERING No.	VERSION
151-00-00000-9-34	with dinting mechanism and classic arm
151-00-00000-9-93	with dinting mechanism and telescopic arm
151-00-00000-9-44	with loading mechanism
151-00-00000-9-24	with mechanism with hammer and classic arm
151-00-00000-9-54	with mechanism with hammer and telescopic arm
151-00-00000-9-64	beaded version BVP with dinting mechanism and classic arm
151-00-00000-9-97	beaded version BVP with dinting mechanism and telescopic arm
151-00-00000-9-74	beaded version BVP with loading mechanism
151-00-00000-9-84	beaded version BVP with mechanism with hammer and classic arm
151-00-00000-9-99	beaded version BVP with mechanism with hammer and telescopic arm
151-51-00000-9-01	Mechanism of dinting shovel (classic arm, adaptor, shovel + hydr. connection)
151-51-00000-9-51	Mechanism of dinting shovel (telescopic arm, adaptor, shovel + hydr. connection)
151-52-00000-9-01	Mechanism of loading shovel (arm, adaptor, shovel + hydr. connection)
151-53-00000-9-01	Mechanism with hammer (classic arm, adaptor, hammer + hydr. connection)
151-53-00000-9-11	Mechanism with hammer (telescopic arm, adaptor, hammer + hydr. connection)
153-00-00000-9-04	with dinting mechanism and classic arm and with quick chucking unit
153-00-00000-9-14	with dinting mechanism and telescopic arm and with quick chucking unit
153-00-00000-9-24	with mechanism with hammer and classic arm and with quick chucking unit
153-00-00000-9-54	with mechanism with hammer and telescopic arm and with quick chucking unit
153-00-00000-9-34	beaded version BVP with dinting mechanism and classic arm and with quick chucking unit
153-00-00000-9-64	beaded version BVP with dinting mechanism and telescopic arm and with quick chucking unit
153-00-00000-9-44	beaded version BVP with mechanism with hammer and classic arm and with quick chucking unit
153-00-00000-9-74	beaded version BVP with mechanism with hammer and telescopic arm and with quick chucking unit
153-51-00000-9-01	Mech. of dinting shovel (classic arm, adaptor, hammer + hydr. connection) and with quick chucking unit
153-51-00000-9-11	Mech. of dinting shovel (tel. arm, adaptor, hammer + hydr. connection) and with quick chucking unit
153-53-00000-9-01	Mech. with hammer (classic arm, adaptor, hammer + hydr. connection) and with quick chucking unit
153-53-00000-9-11	Mech. with hammer (telescopic arm, adaptor, hammer + hydr. connection) and with quick chucking unit

Note:

General purpose of roadheading machine PSU9000 it is possible to supply at the modifications for other tension 500V, 660V, 1000V and 1140V. Required tense name in your order extra.

Example of ordering:

An order of one roadheading machine PSU9000 with under cart BVP for tense 1000 V with loading mechanism with a delivery 3 sets of accompanying document.

TYPE	ORDERING No.	PIEZE	ACCOMP. DOCUMENTATION	SPEC. REQUIREMENTS
PSU9000	151-00-00000-9-74	1	3 SADY	660 V

Delivery date: 30 weeks from confirmation the definite order

Customs classification: 8429 51 10 00, single mechanisms: 8431 49 80 00



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