

HLH – Long Hole Drilling Machine

Mining experience around the world

HAZEMAG & EPR GmbH can look back on more than 175 years of history and, with a workforce numbering around 450 worldwide, the company is operating successfully on all 5 continents. With HAZEMAG MINING, the company has a highly specialised supplier of mining products. HAZEMAG is a competent, reliable and customer-oriented partner of the global mining industry. Decades of experience in combination with continuous innovation are the basis of the HAZEMAG product range for the mining industry.

The entire HAZEMAG mining portfolio represents durability, high operational availability and efficiency. Quality is the basis of our sustainable success. Economic coal mining can only be ensured by modern and reliable machines backed by expert service – HAZEMAG provides its customers with this basis for success.

HAZEMAG is solution provider for surface and underground mining. Especially for coal, salt and narrow vein ore mining.

Reliable and economic drilling technology becomes more and more important in the production processes of the raw materials production.

Drill rigs of the TURMAG type series HLH 50 to HLH 300 may be applied for a multitude of drilling tasks in coal mining, such as core drillings, exploration and degasification drillings.

The drills comprise the drill rig, the electro-hydraulic power pack and the control panel. By means of the powerful drill rig boring into all directions is possible. The compact design of the hydraulic units and operator panels also allows the application in narrow space conditions.

Together with the drill rods and bits, which are tailored to the drill carriages as well as to the purposes, a high operating efficiency is guaranteed. A wide range of accessories such as for the erection of the drill rig enlarges the fields of application.

Technical Data

1. Drill carriage	HLH 50	HLH 120	HLH 165	HLH 300
Torque drill drive	630 Nm	1,200 Nm	1,650 Nm	3,600 Nm
Rotational speed (infinitely variable)	0 - 360 min. ⁻¹	0 - 320 min. ⁻¹	0 - 950 min. ⁻¹	0 - 200 min. ⁻¹
Service pressure	180 bar	200 bar	250 bar	150 bar
Hollow shaft diameter	–	–	–	94 mm
Clamping range	–	–	–	33.5 - 88.9 mm
Flushing pressure, max.	25 bar	25 bar	25 bar	25 bar
Feed force	25 kN	50 kN	60 kN	60 kN
Retraction force	25 kN	50 kN	100 kN	100 kN
Feed rate, max.	–	12 m/min	16 m/min	14 m/min
Length of drill rod (other lengths are available)	1,000 mm	1,000 mm	1,500 mm	1,500 mm
Diameter of drill rod, min. – max.	50 – 120 mm	50 – 95 mm	80 – 160 mm	56 – 200 mm

2. Dimensions	HLH 50	HLH 120	HLH 165	HLH 300
Length	2,326 mm	2,400 mm	3,280 mm	3,325 mm
Width	500 mm	500 mm	900 mm	1,313 mm
Height	385 mm	500 mm	680 mm	727 mm
Weight	285 kg	430 kg	1,450 kg	2,300 kg

3. Hydraulic unit	HLH 50	HLH 120	HLH 165	HLH 300
Drive capacity (electric)	30 kW	45 kW	63 kW	63 kW
Service pressure	230 bar	260 bar	250 bar	250 bar
Tank capacity	170 l	150 l	310 l	310 l
Hydraulic fluid	HLP 46	HLP 46	HLP 46	HLP 46
Fire-resistant hydraulic fluid	HFC-E 46	HFC-E 46	HFC-E 46	HFC-E 46
Oil cooling water/airx				
Length	2,850 mm	2,900 mm	2,200 mm	2,000 mm
Width	700 mm	800 mm	1,200 mm	1,200 mm
Height	700 mm	840 mm	1,500 mm	1,880 mm
Weight (without hydraulic fluid)	1,100 kg	1,500 kg	2,500 kg	3,000 kg

4. Control panel	HLH 50	HLH 120	HLH 165	HLH 300
Length	600 mm	600 mm	600 mm	1,000 mm
Width	500 mm	500 mm	500 mm	1,080 mm
Height (adjustable) min. – max.	685 – 1,085 mm	680 – 1,080 mm	685 – 1,085 mm	1,374 mm
Weight	100 kg	100 kg	100 kg	300 kg

5. Optional accessories
Electric equipment in flame proof design
Drill rod loosening device
Erection frame with hydraulic slewing-gear drive
Flushing pumps