

HBT Plow Systems

Facts & Figures

Highest Performance in Low Coal

The removal rate achieved by plows compared to shearers has continued to increase over the years. For seams with an average height under 1.8 m (70 in), plows are now the system of choice for longwall mining. Automated HBT plow systems allow access to extended reserves in low coal seams to achieve a higher percentage of reserve recovery.

www.hbt-group.com



84
Years
...of experience with plowing technology. HBT invented the plow and is looking back on a long history in designing and building longwall plow systems. The first plow was built in 1941.

**10,000–
20,000**
Tonnes/Day
...or 1,103 – 22,046 short tons can be extracted from a high performance plow longwall under normal geological conditions.

1.8
Meter
...seam height. HBT plow systems are the safest, most cost-efficient and most environmentally friendly way to extract coal in seams with a thickness of less than 1.8 meters (70.87 inches).



32,411
Tonnes/24 Hour Shift
...or 35,724 short tons is the actual production record of a low-seam HBT plow system in a seam height of just 1.4 m (56 in).
Pocahontas No. 3 Seam,
West Virginia, USA

60
Degree
...of seam inclination can be coped with using HBT plow systems.

0.75
Meter
...or 30 inches is the minimum coal seam height which can be mined with a plow system – regardless of the incline of a seam and the hardness of the coal.

3.6
Meter/Second
.....or 720 feet per minute is the maximum cutting speed of an HBT plow system. This very fast mining-speed enables high area rates of advance allowing high productivity even in very low seams.

0
Operators
are required at the coal face as a HBT plow system can be controlled from a secure place underground or from a control room at the surface.

1,600
kW
...with 2 x 800 kW is the highest total installed power of an HBT plow system.

4
Product Models
...are offered by HBT. The GH1600, GH800, GH800B, and the RHH800 represent the HBT plow systems for mining seam heights from 0.75 (30 in) to 2.30 (98 in).

400
Meter
...or 1,312 feet – this is the face length in which modern plow longwalls can be operated. Longer faces mean higher production rates and less expenditure for gateroad development.

