The Eickhoff SL 300 was first introduced back in 1995 as the shearer loader for low to mid seam applications. At that time the machine was originally equipped with two 220 kW cutter motors and two 35 kW DC haulage motors.

Nowadays the Eickhoff SL 300 is equipped with two 480 kW cutter and two 90 kW AC haulage motors due to Eickhoff’s consequent product development.

Even though the cutter and haulage motor power has meanwhile been more than doubled, the original basic machine concept remained unchanged. This is due to latest technology of manufacturing for Eickhoff gears and the availability of smaller electrical components specially designed and ruggedized for mining applications.

The Eickhoff SL 300 has achieved production outputs of 600,000 t/month in high demand operations in the USA and Australia.
Experience has no substitute

Shearer Loader SL 500

The Eickhoff SL 500 is an outstanding example of German engineering, for it has been a peak performer in international longwall systems for nearly two decades.

Introduced to the mining world in 1994, the machine was originally designed with a total installed power of 1,130 kW. Although impressive production levels were achieved, improving of the technology never stops. It is Eickhoff's philosophy to push the limits of practical technology ever forward. That's why the Eickhoff SL 500 has earned a reputation as workhorse with high availability and minimum downtimes. Nowadays the SL 500 is equipped with 1,915 kW and far from being “old fashioned” even for today's most demanding underground conditions.

Operating in mid to high seam installations, monthly production rates of up to 1 million tons are well-known results. Owed to its remarkably high reliability, the Eickhoff SL 500 continues to be the number one choice for longwall specialists in Russia and China. Operators praise the characteristic Eickhoff underframe concept while owners appreciate its profitability.

Eickhoff SL 500: Defining the requirements for modern high performance mining for 20 years!

Technical Details

<table>
<thead>
<tr>
<th>Operating Range</th>
<th>2.3 - 6.0 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage / Frequency</td>
<td>3300 V / 50 Hz</td>
</tr>
<tr>
<td>Total Installed Power</td>
<td>1915 kW</td>
</tr>
<tr>
<td>Cutting Drum Speed</td>
<td>23 - 32 rpm</td>
</tr>
<tr>
<td>Max. Haulage Speed</td>
<td>31.8 m/min</td>
</tr>
<tr>
<td>Total Weight</td>
<td>100 - 105 t</td>
</tr>
</tbody>
</table>
Shearer Loader SL 750

The record production rates mined with Eickhoff SL 300 and SL 500 shearer loaders consequently made the world’s high performance coal mines demand a shearer loader combining the SL 500 power with the slim SL 300 machine body.

The all-new Eickhoff SL 750, with a machine body just slightly higher than that known from the SL 300, features a cutter motor power which was formerly only available with the SL 500.

The positive feedback from the first installations of the Eickhoff SL 750 at high performance mines in the USA back in 2006 and since in other major coal producing countries have fulfilled all expectations.

The SL 750 achieves higher production rates more economically.

Technical Details

<table>
<thead>
<tr>
<th>Operating Range</th>
<th>1.8 - 4.5 m</th>
<th>Voltage / Frequency</th>
<th>3300 V / 50 Hz</th>
<th>Total Installed Power</th>
<th>1894 kW</th>
<th>Cutting Drum Speed</th>
<th>32 - 50 rpm</th>
<th>Max. Haulage Speed</th>
<th>50 m/min</th>
<th>Total Weight</th>
<th>70 - 80 t</th>
</tr>
</thead>
</table>

experience has no substitute
The new Eickhoff SL 900 – increasing your long-wall production to the “shear maximum”. With this machine the next step is made in the evolution of high production shearsers.

In a nutshell, the Eickhoff SL 900 uniquely combines the compact dimensions of the SL 750 with the staggering power of the SL 1000.

The decision to take the best of the two worlds and combine them in one machine was just a logical consequence and only possible through the implementation of state of the art design and production techniques.

The high variability of the SL 900 allows for an application in a wide range of seams ranging from 2,4 to over 5,5 meters – all this at an overall installed power of over 2300 kW.

It therefore delivers a huge range of cutting heights combined with more than enough power to deliver high production potential.

Now, for the first time one machine allows for its application in a wide spectrum of different coal fields all over the world.

### Technical Details

<table>
<thead>
<tr>
<th>Operating Range</th>
<th>2,4 - 5,5 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage / Frequency</td>
<td>3300 V / 50 Hz</td>
</tr>
<tr>
<td>Total Installed Power</td>
<td>2354 kW</td>
</tr>
<tr>
<td>Cutting Drum Speed</td>
<td>29 - 41 rpm</td>
</tr>
<tr>
<td>Max. Haulage Speed</td>
<td>40 m/min</td>
</tr>
<tr>
<td>Total Weight</td>
<td>90 - 105 t</td>
</tr>
</tbody>
</table>
Shearer Loader SL 1000

The world’s most powerful shearer loader, the Eickhoff SL 1000, is specifically designed to enable peak performance at coal mines with the extraction of seams with a height of up to 7,2 m.

But also customers with seams as low as 3,0 m can profit from this machine due to its modular principle of design, since and by just changing some minor components the exceptional cutting power can be installed in the lower seams as well.

Furthermore the Eickhoff SL 1000 features maximum tunnel clearance underneath the machine body allowing even the biggest lumps to pass smoothly.

Early in 2007 the SL 1000 was introduced to the world market with its first installation at Shenhua Energy/China.

The long experiences gained with the SL 500 under Shenhua’s hard cutting conditions were consequently implemented into the new design of the SL 1000 for cutting heights up to 7,2 m.

Thus further remarkable production rate increases were achieved with the Eickhoff SL 1000 in operation.

Technical Details

<table>
<thead>
<tr>
<th>Operating Range</th>
<th>3,0 - 7,2 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage / Frequency</td>
<td>3300 V / 50 Hz</td>
</tr>
<tr>
<td>Total Installed Power</td>
<td>2800 kW</td>
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<tr>
<td>Cutting Drum Speed</td>
<td>29 - 41 rpm</td>
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<tr>
<td>Maxi. Haulage Speed</td>
<td>40 m/min</td>
</tr>
<tr>
<td>Total Weight</td>
<td>110 - 155 t</td>
</tr>
</tbody>
</table>
experience has no substitute

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