



Minegrid® Longwall Recovery System

Increased Productivity and Safer Longwall Relocations

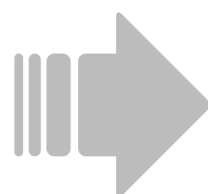
 **HUESKER**
Ideen. Ingenieure. Innovationen.

Get Back on Coal Faster

with our Unique Longwall Recovery System and Services

Benefit from our Experience!

HUESKER **pioneered the system** in 1993 and we are the **market leader** with over 1200 successfully supplied and executed relocations **globally.**

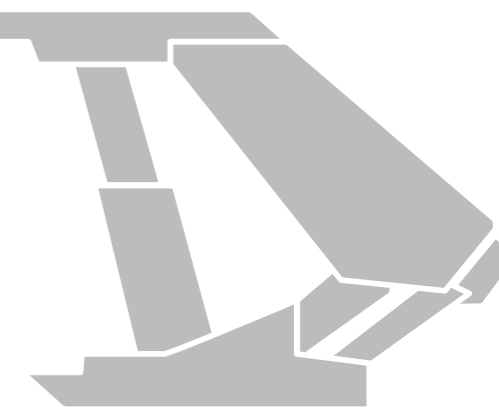


Quick installation

utilizing our practical and **proprietary installation accessories.**

Reduce time

to recover shields and **save money** during longwall relocations.



Increases Earnings

Every second saved
by \$ 3,333.00 per minute
\$ 200,000.00 per hour
\$1,600,000.00 per shift*



* 2000 tons per hour on average across the industry, coal price on average US\$ 100.00 per ton, 8 hour shift, 24 hours per day.

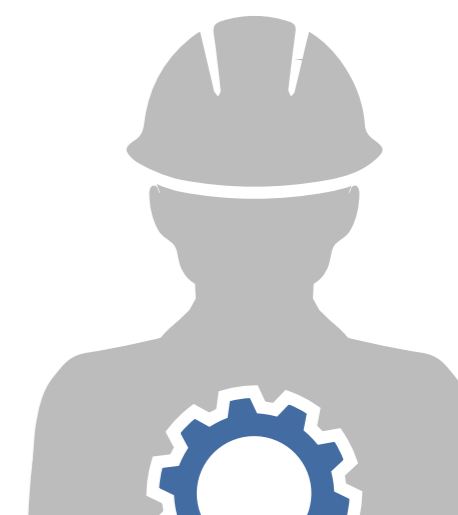


Strongest mining grid in the world

with a tensile strength up to 1000 kN/m, guarantees **maximum safety** for personnel and machinery.

Holistic Service

from design to post install audits with mine specific customization, risk assessment assistance and operational audit.



LONGWALL RECOVERY

Challenges

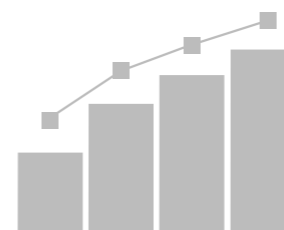
Safety

Reduction of risk



Productivity

Save time and Increase earnings



Reliability

Repeated proven performance



Economics

Decreasing all-in costs



HUESKER

Performance

- Minegrid **contains** small debris and large blocks of goaf material
- Minegrid able to **absorb** very irregular forces from large material
- **Stop Goaf flushing** into working environment
- **Faster support** recovery times
- **More up time** on coal
- **Increased Revenues**
- System **proven** for over 25 years globally
- Over **1200 successful installations** worldwide
- Minegrid ISO9001 **certified**
- Faster install + quicker recovery = **Process optimisation**
- **Higher shareholder value**

Application Examples



Powered Roof Supports (PRS) in Final position with Dozer preparing to safely remove PRS from face.



PRS in Final position prior to safe removal.



Longwall Recovery System crated for transport underground.



PRS in final position ready for safe removal.



HUESKER Longwall Recovery Services

We provide professional and close collaboration from conceptual design to after installation audit for faster and safer recoveries. Services for miners, by miners!



Superior Design

HUESKER performs detailed evaluations and analysis of underground geotechnical coal seam and mining conditions, which are incorporated into every recovery system supplied.



Risk Assessment Assistance

Pre-longwall move and pre-system install risk assessment assistance and procedural documentation

- Action Assignment
- Compliance Adherent
- Realistic Action Timeframe Agreement
- Document Review Assistance



Operational Audit

After the system install / longwall move we do an operational audit to ensure that everything that was done during the move/install was done properly

- Photo Evidence
- LW Face & Installation Positioning
- Design Drawings Audit
- Accessories Compatibility to PRS and Design Product Improvement



Mine Specific Customization

If the team found there is anything that can be done better with the next move/install we work together on the preparation of the mine specific operational move/install methodologies and procedural documentation.

Operational documents:

- Review/Improvement
- Agreeance
- Implementation
- Feedback

Minegrid® is a registered trademark of HUESKER Synthetic GmbH.

HUESKER Synthetic is certified to ISO 9001 and ISO 50001.



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