

Engineering plastics replacing metals



CONSTRUCTION and MINING MACHINES

Polikim Plastics

EFALON[®], KESTAMID[®], KESTOIL[®], KESTLUB[®], ULPOLEN[®]

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SUPPORT BASES



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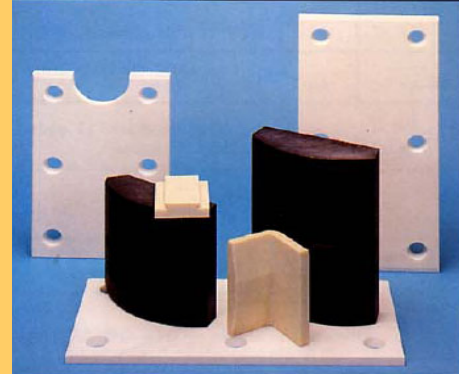


Kestamid® (Cast Polyamide) Support Bases

- Are lightweight.
- Have high impact resistance and are solid.
- Reduce operating costs.
- Can be assembled and carried easily.
- Create a solid platform resistant to wear.
- Can be stocked easily.
- Can be custom cast according to customer requirements.
- Are not broken.
- Do not require painting and maintenance.
- Are cheap and economical.



GUIDES, PADS



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Kestlub[®], Kestoil[®] Guides, Pads

- Kestlub[®] and Kestoil[®] have low coefficients of friction.
- Do not require lubrication.
- Prevent sticking.
- Have perfect wear resistance and very high load bearing capacity.
- Reduce time spent for assembly and maintenance.
- Increase operating efficiency of machines, reduce fuel consumption.



Application Areas

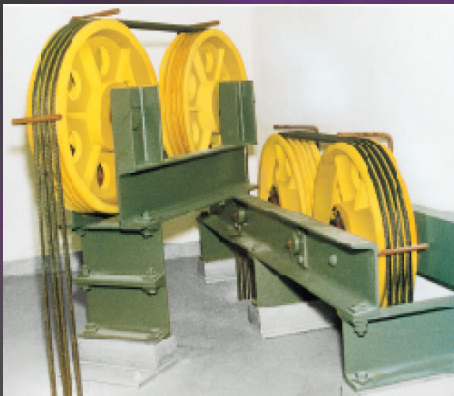
- Remote control booms
- Telescopic cranes
- Stabilizing feet
- Loaders and excavators
- Overhead work platforms
- Extended drilling booms
- Container carriers



PULLEYS, SHEAVES



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Kestamid® Pulleys and Sheaves

- Lengthen operating life of steel ropes.
- Are lightweight, can be carried easily.
- Increase friction surface, bear more load.
- Have very good wear resistance.
- Are solid, have high impact resistance.
- Reduce boom weight. As their weight is 1/7th of cast pulleys, they increase lift capacity of cranes.



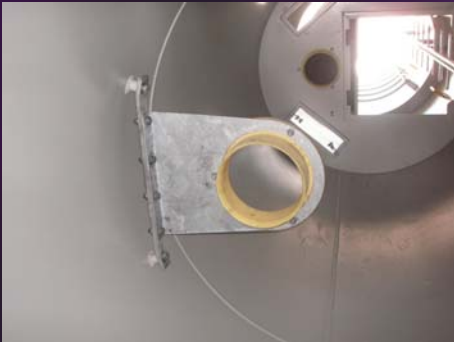
Application Areas

- Mobile cranes
- Cranes loaded onto trucks
- Railway cranes
- Overhead cranes
- Railway hose sheaves
- Vehicle lifts
- Cable driven conveyors
- Steel rope pulleys in elevators

BEARINGS, BUSHES, ROLLERS



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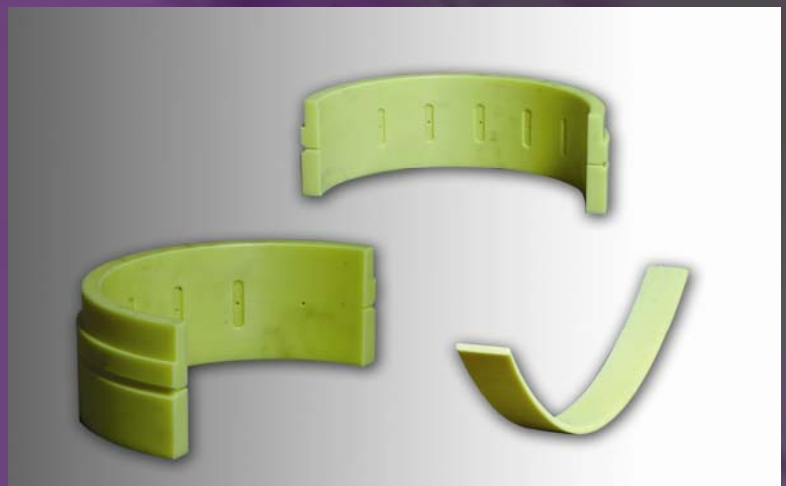
Kestoil®, Kestlub® Bearings, Bushes

- Do not require lubrication.
- Provide silent and smooth operation.
- Low coefficient of friction increases efficiency, decreases fuel consumption.
- Are not subject to corrosion.
- Do not wear out the axles and the shaft they work together.
- Bear heavy loads.
- Have high impact resistance. Reduce adverse effects of impacts.
- Easy to assemble and disassemble.
- Are cheap and economical.



Kestamid® Rollers

- Do not wear out metal axles.
- Prevent noise.
- Are lightweight. Weight is 1/7th of steel.
- Have high load bearing capacity.
- Reduce waste of effort and energy, provide saving.



LININGS



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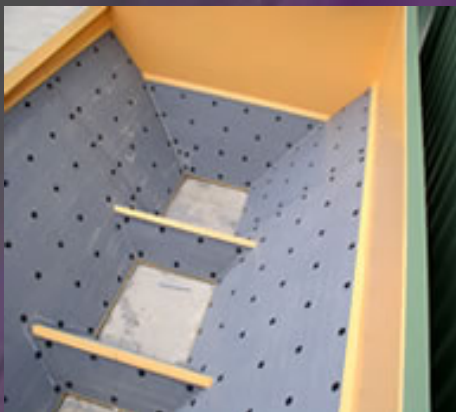


Dump Trucks and Buckets Lined with Ulpolen[®]

- Excavation volume doubles where clay, mud and humidity pose problems.
- Fast outflow of material with minimum dump bed inclination.
- Nothing sticks onto the surface of Ulpolen[®].
- Ulpolen[®] does not wear out. Is unaffected by environmental and weather conditions.
- Is easy to clean. Low maintenance.



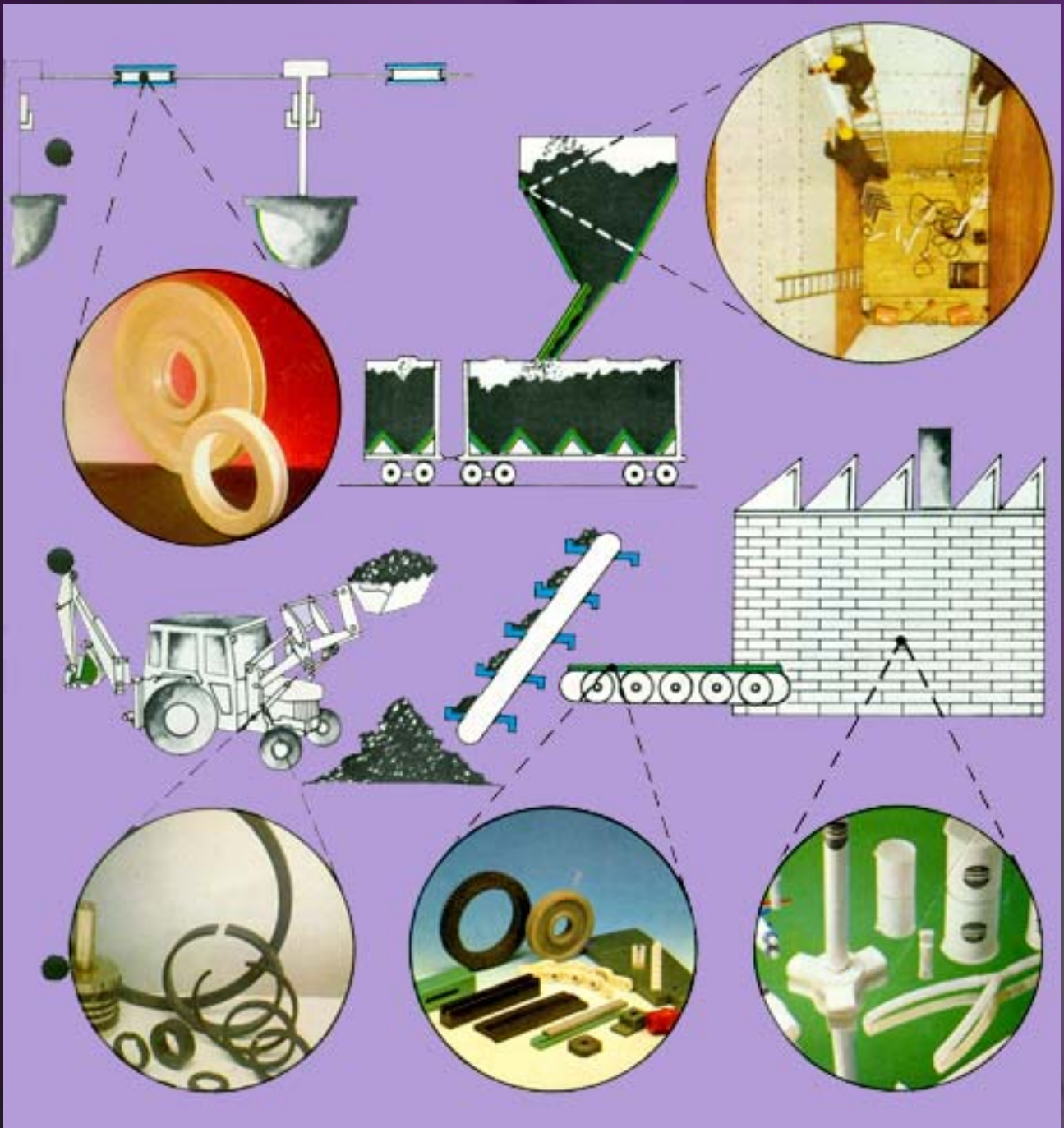
By lining your dump trucks and buckets with Ulpolen[®], you can speed up your excavation time and decrease your fuel consumption. Due to the low coefficient of friction of Ulpolen[®], you can empty the truck bed with a 30% less inclination. It helps improve equipment life as shaking the bed to remove remainders becomes unnecessary.



MINING INDUSTRY



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Leader in engineering plastics production since 1971

EFALON®

KESTAMID®

ULPOLEN®

WE FIND SOLUTIONS TO YOUR PROBLEMS

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EFALON®, PTFE T-100



EFALON® is Polikim's PTFE material.

It has superior properties that can't be found in combination in any other material. It is resistant to all chemicals used in manufacturing and can be used between -260°C and +270°C. Nothing sticks onto its surface and is more slippery than ice.

KESTAMID®, PA6G Standard



With its outstanding mechanical, physical and chemical properties, **KESTAMID®** is one of the most commonly used engineering plastics. **KESTAMID®** has good impact and wear resistance and fatigue strength. It is an engineering plastic replacing metals.

ULPOLEN®, UHMWPE 1000



ULPOLEN® is a type of polyethylene with very high molecular weight. Its density and water absorption are low. **ULPOLEN®** has very different properties than HDPE. It has utmost impact and wear resistance. Its coefficient of friction is low. Its chemical resistance and electrical properties are good.



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