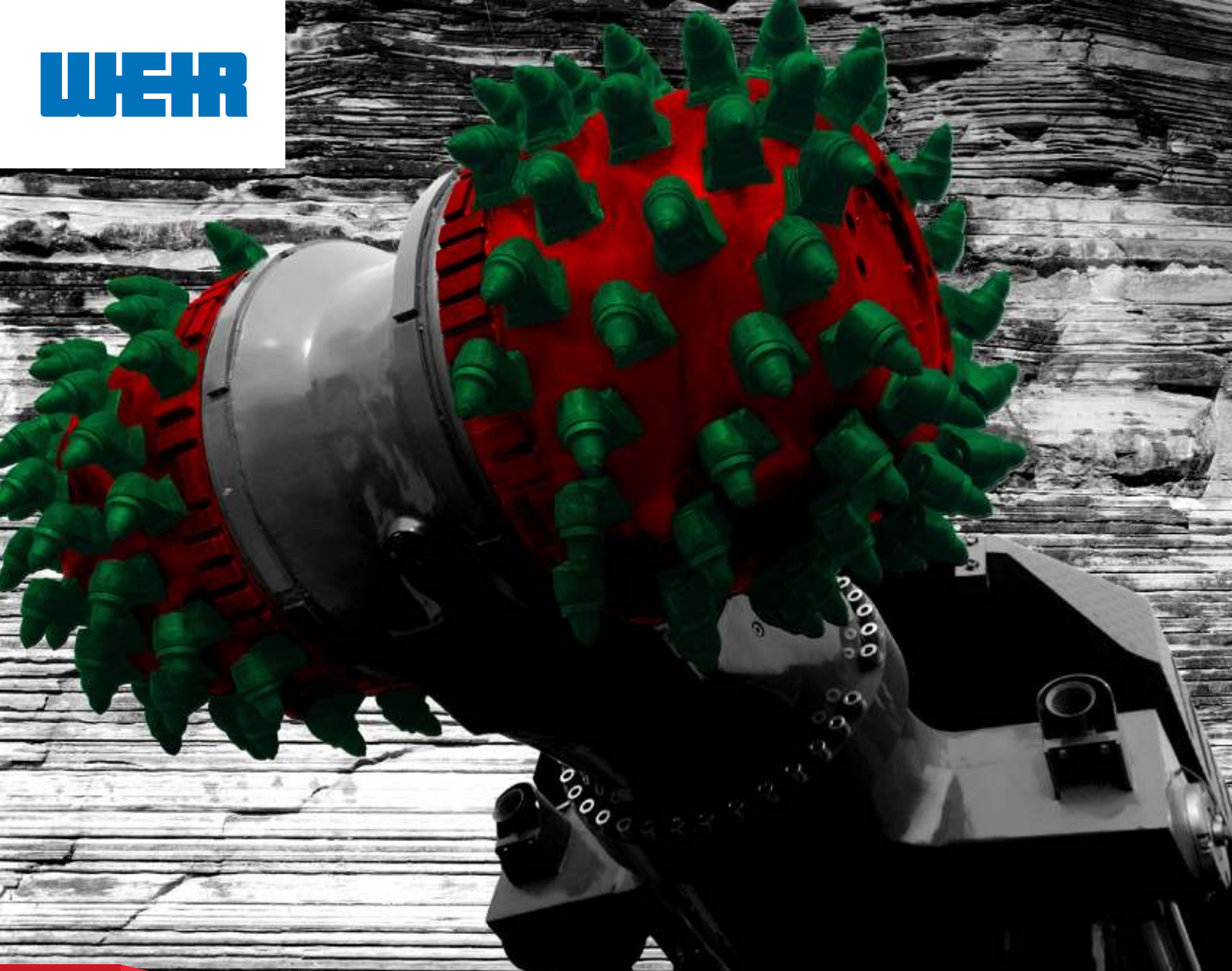


WEIR



ESCO[®]
A Weir Group Division

**ESCO Cutting and
Trenching Equipment**

ESCO Cutting Heads



Custom Engineered for Optimum Performance.

ESCO cutting heads have gained a global reputation for solving production difficulties. Whether it is dust, frictional ignitions, geological problems or low production rates, ESCO cutting heads address performance issues.

All our cutting heads are custom-engineered to match each application for optimum cutting performance and meet the demands of today's high production operations. ESCO cutting heads are made from premium materials and are precision-assembled to ensure top performance.

Features and Benefits

Greater safety

- Water spray suppresses dust and spark ignition
- Simplified locking for easier replacement

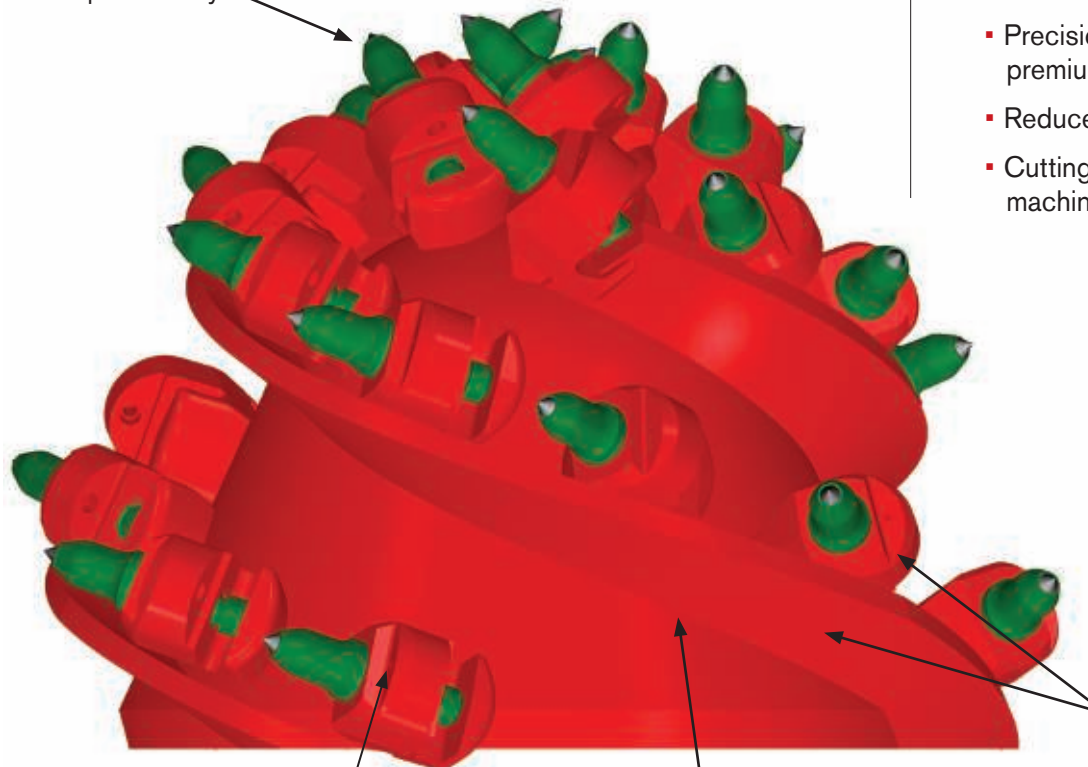
Increased production

- Design optimizes machine output
- Precision-manufactured with premium materials
- Simplified pick replacement and durability reduces downtime
- Improved production rates

Improved reliability

- Highly engineered to reduce stress
- Precision-manufactured with premium materials
- Reduced tool holder wear
- Cutting efficiency minimizes machine wear

Pick options to optimize productivity

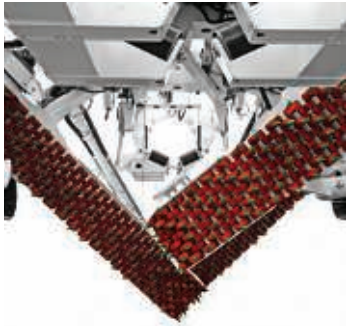


Integrated water spray for controlling dust

Precision-welded for increased durability

Premium materials throughout

Cutting and Trenching Chain



Custom Engineered for Optimum Performance

ESCO cutting chains have gained a global reputation for solving production difficulties. Whether it's low production rates, ESCO cutting chains address performance issues.

All our cutting equipment is custom engineered to match each application for optimum cutting performance and meet the demands of today's high production operations. ESCO cutting chains are made from premium materials and are precision-assembled to ensure top performance.

Features and Benefits

Greater safety

- Simplified locking for easier replacement

Increased production

- Design optimizes machine output
- Simplified pick replacement and durability reduces downtime
- Optimized lacing patterns to improved production rates

Improved reliability

- Highly engineered to reduce stress
- Precision-manufactured with premium materials
- Reduced tool holder wear
- Cutting efficiency minimizes machine wear

Superior forged alloy steel links



Carburized steel alloy hinge pins

Various cutting systems available to suit cutting conditions



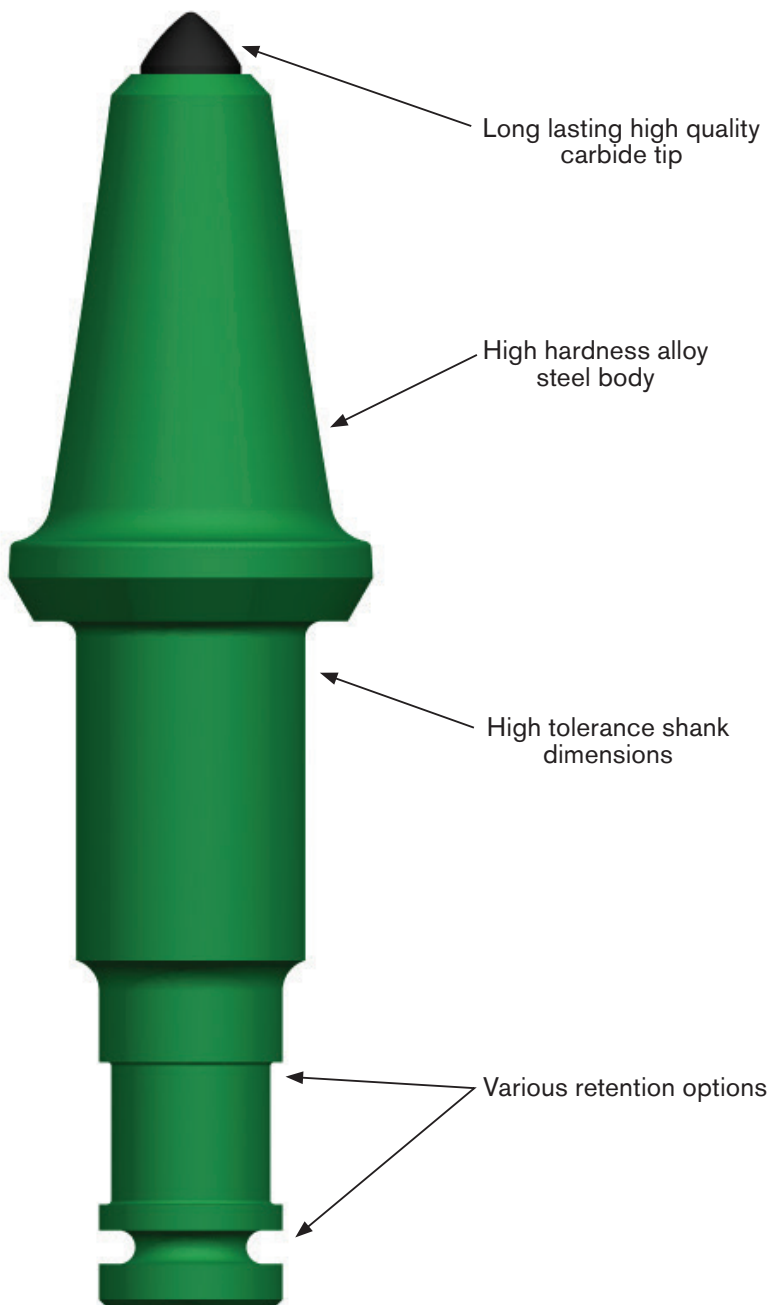
Hardened liner bushings

Various Chain Base Types Available To Suit Application

ESCO® Conical Picks



ESCO's conical picks provide excellent wear life. Forged in superior alloy steel ESCO picks are an effective solution decrease down time and improve productivity.



Features and Benefits

High quality forgings

- Superior forged alloy steel bodies provide excellent strength and toughness to improve pick life

High quality carbide tips

- Various carbide tip geometries, sizes, and grades to address specific cutting conditions

Easy to handle and install

- Minimal work required for installation

Versatile

- Different profiles and sizes are available to suit a variety of customer needs
- ESCO works with customers to provide improvements and advantages of existing products.

Note: Please contact your ESCO sales representative for detailed dimensional information and size recommendations.



Conical Pick System Options

Conical picks are available in a variety of shank diameters and lengths, reach and tip profiles to match production requirements. Custom lengths and profiles are available for special applications or conditions. Contact your ESCO representative for additional details or to discuss your requirements.



Conical picks



Press-fit toolholder



HRS toolholder



Hexbore toolholder

ESCO toolholders are forged out of high quality alloy steel. Toolholders are available in both dry and wet configurations. Toolholder bore machining can be varied to accommodate an assortment of sleeves. Optional hard-facing can be applied to any toolholder.



Press-fit sleeve



HRS sleeve



Hexbore sleeve

ESCO sleeves are engineered to provide longer toolholder life. Sleeves are available in both dry and wet configurations. Sleeves can either be press-fit (non-rotating) or slip-fit (rotating or non-rotating). Sleeve bore machining can be varied to accommodate an assortment of picks. Optional hard-facing can be applied to any sleeve.

Pick Installation and Removal Tools

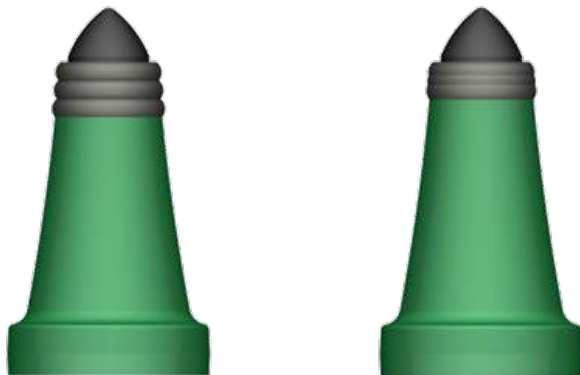
As a service to our customers ESCO provides a variety of tools for installation and removal of cutting picks. Our engineering staff analyze available tool options to ensure it meets customer needs for fast and safer pick replacement during machine maintenance cycles.



Conical Pick System Options

Overlay Options

ESCO overlay is available in various patterns that range from standard to heavy duty. The pattern and thickness of overlay can be customized to individual cutting conditions to increase the life of picks, sleeves, and toolholders.



Standard

Heavy Duty



Sleeve with overlay



Pick with overlay



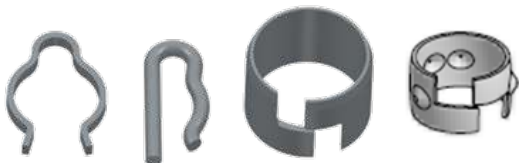
Toolholder with overlay

Tip Options



ESCO picks can be manufactured with a range of carbide tip geometries. Tip wear life and pick body wear life should be matched to ensure optimized pick utilization. ESCO is available to work with mine site personnel to discuss improving pick performance.

Clip Styles



ESCO picks are available with various retention methods. Clip styles include: hairpin clips, r-clips, friction clips and dimple clips.

Note: If your retention method is not listed ESCO can configure pick shanks to work with any retention method.





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