



WEIR

ESCO

ProFill® Dragline Buckets

ProFill® – increased payloads, faster cycle times, best in class



Improved performance

ESCO products are trusted at mines worldwide for improved productivity and safety, and our ProFill dragline buckets are no exception. A proven performer, ProFill buckets are providing increased productivity and cost savings for customers on multiple continents. Over 90 years of dragline experience has culminated in ESCO's most innovative dragline bucket ever. A bucket that fills faster, uses less drag energy and delivers exceptional productivity – even in challenging above tub applications.

More of what you need to succeed

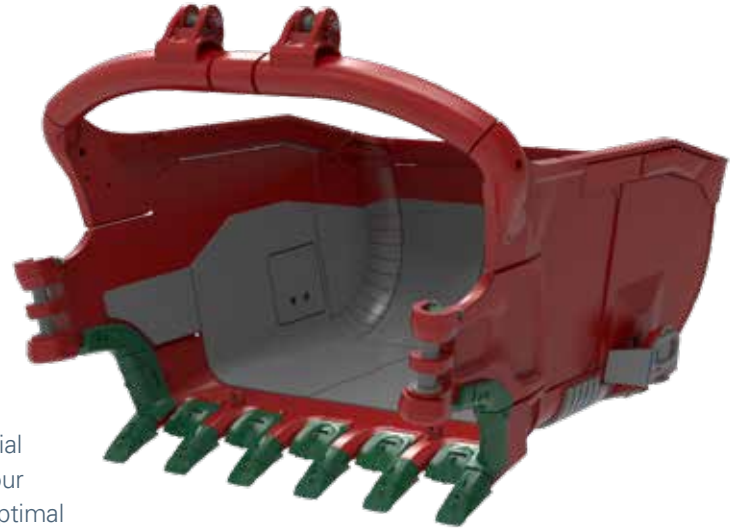
Contact us today to learn more about ESCO's custom engineering process, technical support and maintenance services – all focused on maximizing your dragline operation's productivity and reducing your total cost of production.





.25"

ProFill® – A bucket that fills faster, uses less drag energy and delivers exceptional productivity, even in challenging above-tub applications.



Detailed assessment leads to optimal performance

Custom engineered for your mine site

ESCO partners with you to engineer the most efficient bucket geometry and rigging arrangement for your specific application.

We start by conducting a detailed assessment of your site's material characteristics, machine and mine plan. Utilizing this information, our engineering team then tailors your bucket's geometry to provide optimal performance and maximize the bucket capacity according to your site's material density.

Increased productivity

- Up to 10% faster cycle times
- 7% higher fill factors on average
- Consistently higher payloads

Greater versatility

- Custom engineered for your mine site
- Up to 27% more productive in above tub applications
- Increased productivity in below tub applications

Reduced maintenance

- Up to 67% increase in operating time between required refurbishing
- Requires 18% less drag energy than the ESCO RPM™ II, extending drag rope life and reducing loads on drag motors
- Longer-lasting ESCO cast components for less maintenance

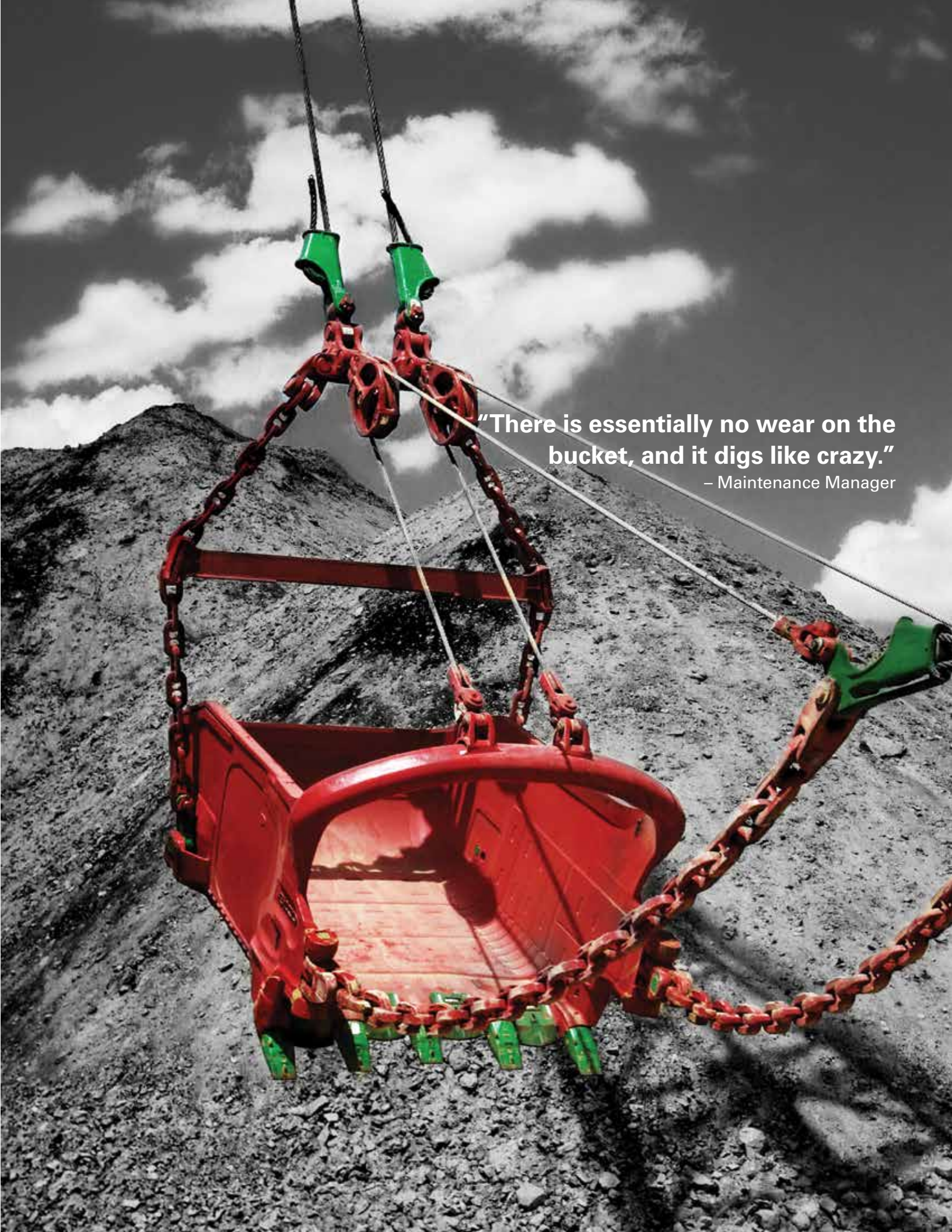
Improved safety

- Safer, quick-change hammerless G.E.T.

Superior quality

- Over 90 years of dragline bucket experience
- Premium ESCO alloys
- More cast components than competitor offerings





"There is essentially no wear on the bucket, and it digs like crazy."

– Maintenance Manager

Configuration options

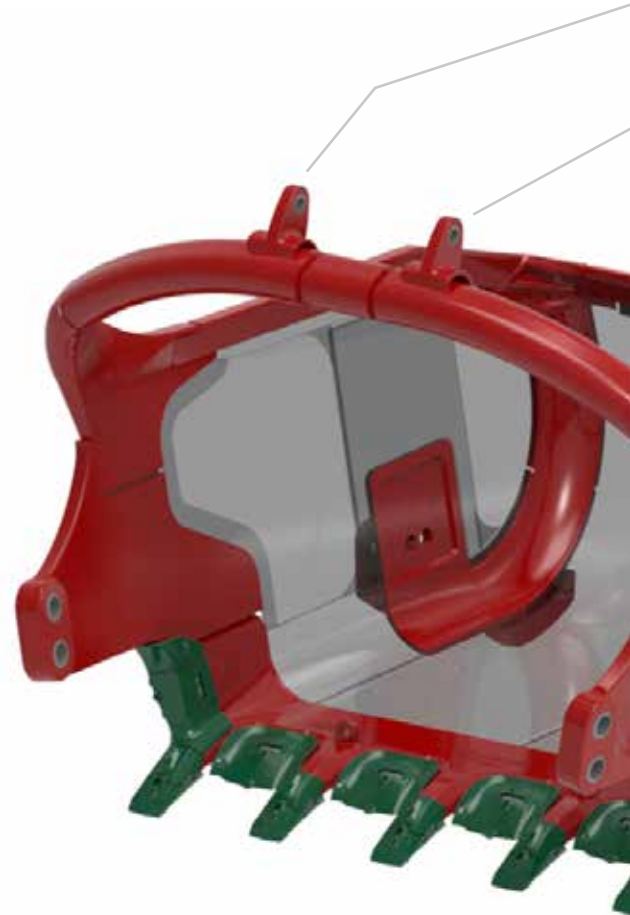
Lips



Straight lip



Reverse spade lip



ESCO reverse spade lip (RSL)

A proven ESCO innovation that provides faster fill times than conventional straight lips in hardpan digging. As the bucket lifts to engage the cut, the center teeth are pulled out of the material so the full digging force of the bucket is concentrated on the outer teeth to help stabilize the bucket and provide maximum penetration and digging efficiency.

Arch anchor brackets



Male arch anchor brackets



Female arch anchor brackets

Hitch selections to optimize bucket performance

ProFill buckets feature cheek options that include horizontal hitches for improved performance in chopping, or vertical hitches for more aggressive digging performance. Each style of hitch has hitch extension options to best match the preferred drag chain connection.



Horizontal hitch components



Vertical hitch components

ESCO® dragline ground engaging tools (G.E.T.)

ESCO offers a comprehensive range of dragline-specific components, engineered for maximum digging efficiency and increased safety.

Mechanical wing shrouds reduce maintenance and eliminate stress concentration resulting from repeatedly welding wear material to the under-hitch area.



ESCO® dragline rigging

Custom rigging packages

ESCO engineers analyze your specific maintenance and productivity requirements and work with you to develop the optimum rigging configuration for your application. ESCO rigging packages offer an unmatched balance of durability, functionality and total weight.

- Optimized to reduce weight, allowing additional bucket payload
- Superior ESCO alloys have greater strength and wear resistance for longer life
- Available for medium and large class systems

ESCO® rigging components

1. Cast sockets and wedges

- Hoist, dump, and drag available

2. Upper spreader bar

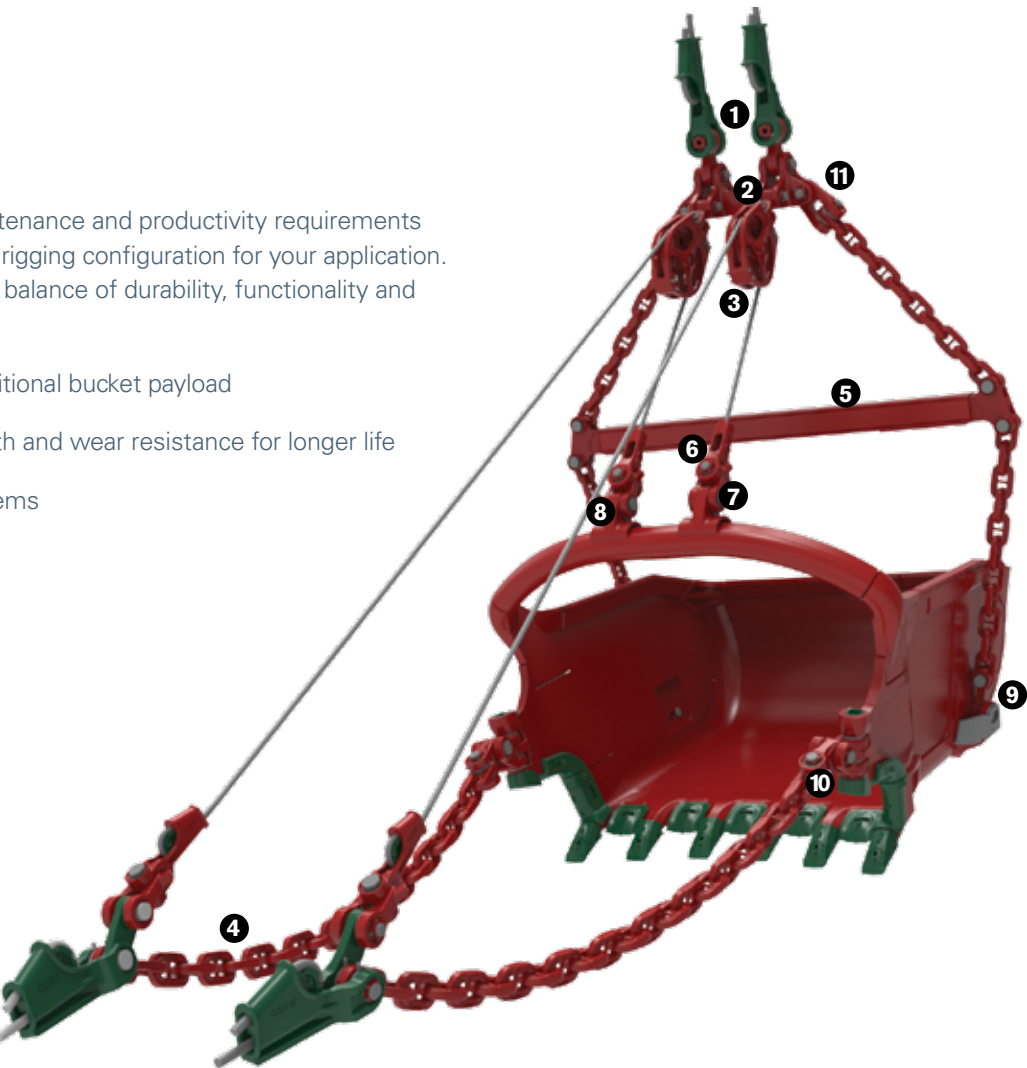
- Cast alloy construction with eccentric bushings at all positions

3. Delta® dumpblock

- Available in 40 inch and 50 inch versions

4. ProSeries chain

- Revolutionary design with more wear metal in the bite and rails
- Pear and stud end link configurations
- For use in med and large class hoist and drag applications



5. Box beam spreader bar

- Cast ends with greater strength without extra weight

6. Ferrule socket

- Safer and faster replacement

7. Anchor links

- Cast alloy construction with manganese bushings

8. Anchor brackets

- Cast alloy construction in 4.25 inch and 5.0 inch sizes

9. Trunnion links

- Opposite plane pin holes, angled out to move wear from trunnion link to easier-to-replace components

10. Hitch extensions and twisted H-links

- Cast alloy steel with replaceable manganese bushings

11. Cast Y-link

- New, light-weight design
- Hammerless Nemisys® locking technology

ESCO® wear materials

Extend your bucket's service life with customized wear protection

ESCO's wear experts can develop a customized wear protection package, based on a detailed analysis of your specific dragline application, material conditions and existing equipment's wear patterns.

Wear protection options

- ESCO abrasion resistant (AR) plate for abrasion and impact protection
- Easy-to-install Kwik-Lok® II cast runners to protect extreme wear areas
- Infinity® chrome white iron bimetallic products for high wear areas
- Infinity® E3 advanced overlay technology for increased G.E.T. service life
- Quick-change hammerless shroud options



ESCO® dragline buckets

Proven performance



ESCO® dragline buckets – improving performance for over 90 years.





ESCO Group LLC – A Weir Group Division
2141 NW 25th Ave,
Portland, OR 97210
USA

www.esco.weir

P3016MIN-ENG-L0421

Copyright © 2021, ESCO Group LLC. All rights reserved.