CONSTRUCTION ATTACHMENTS
ESCO Corporation

ESCO Corporation is an independent developer and manufacturer of highly engineered wear parts and replacement products used in mining, infrastructure development, oil and gas, and industrial applications. We have focused on product innovation throughout our 100-year history. Our expertise in metallurgy, tribology (the science of wear), design engineering, manufacturing processes and distribution are our core competencies.
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Excavator Buckets

The advanced line of ESCO buckets is a result of industry-leading expertise in metallurgy and a tradition of innovative product design. Coupled with state of the art manufacturing capabilities, computer aided design and rigorous field testing, ESCO buckets deliver top performance while reducing downtime to the absolute minimum.

Features and Benefits

Increased Productivity
- Triple taper design for faster loading and cleaner dumping
- Ultralok tooth system for excellent penetration and reliability
- Forward projecting side reinforcing plates for increased penetration

Unsurpassed Durability
- Strong beams (formed or cast) for torsion resistance
- T1 plate or cast lips provide structural integrity
- ESCO can match the correct duty class of the bucket to your application to increase bucket life and production

Reduced Maintenance
- ESCO uses the appropriate grade of steel for each bucket component to maximize strength and wear resistance
- Optional wear packages offer additional wear protection beyond the wear resistant steels used to fabricate the bucket

ESCO Service
- ESCO warrants all attachments to be free from defects in materials and workmanship for 1 year
- Engineers and field technicians with solutions for your applications
- ESCO representatives are located throughout North America to facilitate meeting customers’ needs
Ditch Cleaning Buckets (DTCH)

A light excavating bucket for loam, sand, or general purpose clean up.

Features and Benefits

• Wide, shallow basket design
• Through-hardened T1 steel lip
• Bottom wear strips for abrasion resistance
• Bolt-on auxiliary edges available as an option

Metro Excavator Buckets

A sturdy performer and an ideal choice for basement digging or trenching, whenever a completely flat bottom is desired. The Metro is an application specific bucket available in Standard (STDP) or Heavy-duty (HDP) class buckets.

Features and Benefits

• ESCO flare teeth positioned straight across the lip, eliminate the need to weld a plate to the teeth
• Ultralok point and adapter system for easy point changes and reduced downtime
• Designed for high capacity and production
• Triple tapered design offers greater productivity, less wear on bucket
**Standard-Duty Plate Lip Buckets (STDP)**

Designed for general purpose excavating in clay or sandy soil. Also useful in bailing and top-loading applications.

**Features and Benefits**

- Ultralok® tooth equipment delivers optimum digging performance
- Triple taper basket design ensures fast, full loading, and clean dumping on each pass
- One-piece side reinforcing plates provide structural integrity to the basket
- Abrasion resistant bottom wear strips provide longer wear life with less downtime
- Strong formed beam provides torsion resistance in the critical connection area

![Diagram of STDP bucket with labeled parts]

- Strong formed beam
- One-piece side reinforcing plates
- Drilled for bolt-on shrouds or side cutters
- Abrasion resistant bottom wear strips
- Ultralok tooth system
Heavy-Duty Plate Lip Buckets (HDP)

An excellent all-around performer for heavy-duty excavating in dense clay or earth with sand and gravel.

**Features and Benefits**

- Ultralok® tooth equipment delivers optimum digging performance
- Triple taper basket design ensures fast, full loading, and clean dumping on each pass
- One-piece side reinforcing plates provide structural integrity to the basket
- 400 Brinell full width bottom wear runner and corner wear protection
- Strong formed beam provides torsion resistance in the critical connection area
- Cast alloy wear shrouds protect the structural side plates of the bucket

**Illustrations**

- Strong formed beam
- One-piece side reinforcing plates
- Ultralok tooth system
- Cast alloy wear shrouds
- 400 Brinell full width bottom wear runner and corner wear protection
Extreme-Duty Plate Lip Buckets (XDP)

Designed for excavating in moderate to heavy abrasion applications such as shot rock, stratified material, and other abrasive conditions.

**Features and Benefits**

- Lip and beam gussets provide increased durability in high stress corners
- T1 steel one-piece reinforcing plates for additional side plate strength and wear resistance
- Built with heavier plate throughout for strength
- 400 Brinell bottom runner wraps under the lugs for full abrasion resistance and additional structural integrity
- 400 Brinell side plate protection
**Special Heavy-Duty Cast Lip Buckets (SHDC)**

A massive bucket designed for excavating in extremely severe and abrasive unshot rock, coral, lava, and glacial till. This is the bucket of choice where chopping or prying is required.

**Features and Benefits**

- Cast alloy ripper lip with integral noses for severe prying and chopping
- Cast alloy beam for structural integrity
- One-piece T1 side reinforcing plates provide structural integrity to the bucket
- Extra thick steel plate throughout
- Full wrap corner guards tie to the beam for wear protection and structural integrity

![Diagram of Special Heavy-Duty Cast Lip Buckets](image-url)
Excavator Buckets

Match the Bucket Model to the Digging Conditions

Key to Bucket Recommendations

<table>
<thead>
<tr>
<th>ESCO Excavator Bucket Model</th>
<th>Service Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>STDP</td>
<td>General purpose excavating and bailing in dirt, clay, or sandy soil.</td>
</tr>
<tr>
<td>HDP</td>
<td>Heavy-duty excavating in dense clay or soil and where occasional rock is encountered.</td>
</tr>
<tr>
<td>HDP or XDP</td>
<td>Heavy-duty excavating in shot rock, dense clay, or soil heavily loaded with rock.</td>
</tr>
<tr>
<td>XDP</td>
<td>Heavy-duty excavating in fragmented rock, sandstone, caliche and handling shot rock in abrasive digging conditions.</td>
</tr>
<tr>
<td>SHDC</td>
<td>Excavating in extremely severe and abrasive unshot rock conditions as well as coral, lava, and glacial till.</td>
</tr>
</tbody>
</table>

Note: This is general information only. Within each area there may be conditions that require buckets other than those recommended.
Excavator Bucket Accessories

**Ripper Attachments**
ESCO offers a full line of ripper attachments for excavators from 7 metric tons to 75 metric tons. Ripper attachments are best utilized when heavy-duty or continuous ripping is needed. ESCO ripper attachments are also an effective attachment when the excavator is equipped with a coupler.

**Features and Benefits**

**Increased production**
- Machine specific engineering for optimal digging geometry
- Ultralok® tooth system for penetration

**Reduced maintenance**
- Sturdy T1 shank for wear resistance and strength
- Cast Ultralok weld-on nose for longer nose life
- Ultralok tooth system for longer wear life and extra strength

**Tool Box Rippers**
Tool box rippers are excellent when only occasional ripping is required to augment the bucket’s penetration in rock, frozen earth and other hard to dig materials. Tool box rippers are ideal for demolition applications to loosen material and avoid potential damage to the bucket. Tool box rippers utilize a permanently mounted attachment point on the back of the bucket and a pin on ripper shank.

**Features and Benefits**

**Flexibility**
- When not ripping the shank can be pinned up out of the way of continuous digging, or removed from the attachment point (box)
- Requires no changing of attachments to accomplish both loosening of materials and excavating of material

**Increased production**
- Ultralok tooth system for longer wear life and extra strength and long wear life
- Proper positioning of the tool box ripper on the bucket will allow for ripping and digging with the ripper shank in place
ESCO PosiGrab® Hydraulic Coupler

The Next Generation Coupler from ESCO

The new ESCO PosiGrab Coupler was designed and developed to provide simplified use for the machine operator and to optimize site safety. ESCO attachments are known for productivity and safety, and the PosiGrab coupler continues that tradition.

The PosiGrab design features both front and rear locks that are mechanically engaged independently through the full working cycle— and are also independently released with hydraulics. The natural position of the coupler is locked and only opens using forced hydraulic pressure.

All operations to pick-up or release attachments are done without leaving the safety of the cab, including the visual confirmation that the front and rear locking mechanisms are properly engaged.

Greater Safety

- Natural position of the coupler is locked
- Forced hydraulic pressure required to release lock mechanisms
- Front and rear locks are visible from the cab

Improved Reliability

- Highly engineered to reduce stress
- Precision manufactured to exacting quality standards
- Premium materials used throughout

Ease of Use

- Attachment pick-up and release completed from the cab
- Excellent visibility to engage the front and rear pins
- Will pick up the attachments within the same machine weight class

Features and Benefits
Why ESCO Attachments?
Leading contractors trust ESCO attachments for performance and reliability. ESCO’s design expertise and quality manufacturing enhance the productivity of our excavator buckets, PosiGrab hydraulic couplers, and thumbs – available in rigid and hydraulic styles.

ESCO components are designed to perform with products from other manufacturers, but optimum performance is achieved by utilizing 100% ESCO attachments.

- ESCO has designed attachments for over 50 years
- ESCO innovative tooth systems and wear solutions maximize productivity
- Nearly 100 years of ESCO design, manufacturing and metallurgical expertise

ESCO attachments offer better machine performance, improved safety and simplified use.
**Scoop™ Bucket System**

Maximize your ESCO coupler with the Scoop bucket system. The system is the combination of the Scoop bucket and ESCO coupler. Scoop buckets are designed to be used exclusively with couplers and incorporate attachment pins into the bucket beam to maintain maximum excavator break out force. Scoop bucket system users receive all the benefits of a coupler with similar performance to buckets pinned directly to the excavator.

Scoop bucket system machine application information on page 16.

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**Features and Benefits**

**Increased Performance**
- Pin to point dimensions of the Scoop system are always near the OEM specification for maximum break out force.
- The Scoop profile increases bucket penetration for faster cycle times.
- The Scoop system provides maximum digging efficiency for improved production.

**Reliability**
- Scoop buckets are built to the same exacting standards as all ESCO buckets.
- The duty-class and features of Scoop buckets are closely matched to HDP buckets.

- Ultralok® tooth system
- 400 Brinell bottom runner and corner wear protection
- Wing shrouds
- One-piece side reinforcing plate
- Attachment pins built into the beam
Scoop™ System

The 4 in 1 Scoop System Design

1) Dedicated System
   Pick up Scoop buckets for maximum digging efficiency.

2) Standard System
   Pick up standard lugged buckets for the host excavator.

3) Universal System
   Pick up standard lugged buckets for other excavators within the same weight class.

4) Multi-tool System
   Pick up a variety of other attachments including grapples, compactors, hammers, and rippers.
PosiGrab®, and Scoop™ Application Guide

All coupler models within each range will pick up attachments for all machines listed within that same range. Scoop buckets will work with all ESCO couplers within a given range (weight class).

**Range 3 (7 ton class)**
- Hitachi EX80
- John Deere 80C
- Komatsu PC60-7B, PC95R
- JCB JZ70
- Case CX75SR
- Link-Belt 75SA
- Kobelco 70SR, 80CS
- Cat 307C

**Range 4 (10-12 ton class)**
- JCB JS130
- Case CX130
- Link-Belt 130LX, 135SA
- Hitachi ZX110, ZX120
- John Deere 120C
- Volvo EC140B
- Kobelco 115SRDZ, 135SRLC
- Cat 311C, 312CL
- New Holland EC130-LC, EC160-LC
- Komatsu PC120LC-6, PC128US-2

**Range 5 (15 ton class)**
- JCB JS160L
- Case CX160
- Link-Belt 160LX
- Hitachi EX160-LC
- John Deere 160C-LC
- Volvo EC160B, EW170
- New Holland EC215-LC
- Hyundai R160LC-3
- Komatsu PC150LC-6, PC160LC-7
- Kobelco SK160LC
- Cat 315CL

**Range 6 (20 ton class)**
- Komatsu PC200LC-7, PC220LC-7, PC228USLC-3, PC270LC-7
- JCB JS220
- Case CX210
- Link-Belt 210LX, 225SA
- Hitachi ZX200 LC
- John Deere 200C LC
- Volvo EC210B
- Kobelco SK210LC, 200SRLC, 235SRLC
- Hyundai R240LC-3, R290LC-3
- Cat S Family Linkage
PosiGrab® and Scoop™ Application Guide Continued

**Range 7 (25 ton class)**
- JCB JS260
- Link-Belt 240LX, 290LX
- Case CX240, CX290
- Hitachi EX230LC, ZX270
- John Deere 230C LC, 270C LC
- Volvo EC240B, EC290B
- New Holland EC240-LC, EC270-LC
- Kobelco SK250LC, SK290LC
- Hyundai R240LC-3, R290LC-3
- Cat C Family Linkage

**Range 8 (30 ton class)**
- Hitachi ZX330LC, ZX370
- John Deere 330C LC, 370C LC
- New Holland EC350-LC
- Kobelco SK330LC
- Komatsu PC300LC-7
- JCB JS330
- CASE CX330
- Link-Belt 330LX
- Hyundai R320LC-3, R360LC-3
- Cat D Family Linkage

**Range 9 (40 ton class)**
- Hitachi ZX450LC
- John Deere 450C LC
- Volvo EC330B, EC360B, EC460B
- Kobelco SK400LC-IV
- Kobelco SK480LC
- JCB JS460
- CASE CX460
- Link-Belt 460LX
- Komatsu PC400LC-6
- Cat F Family Linkage

**MAG 7 (60-70 ton class)**
- Couplers vary by machine. Call for machine specific coupler.
Thumbs for Excavators

The ESCO line of thumb products complement ESCO buckets and provides more versatility. The ESCO thumb package offers a choice of products to handle all material retention needs and makes any excavator more productive. ESCO offers both rigid and hydraulic thumbs to meet any need.

RC – Rigid Thumbs

Independent thumbs are an excellent tool for a variety of material handling applications. RC series thumbs are available for 10 to 40 metric ton class machines.

Features and Benefits

Versatility

- Three and four tine options available to mesh with more ESCO buckets
- 3 working positions: 68°, 86°, and 112°
- Large serrated teeth provide more gripping power
- Integrated design allows thumb to be stored as one unit
- Independent thumb does not interfere with bucket lugs or coupler

Lower Operating Costs

- Independent thumbs are more economical than hydraulic thumbs
- Repositioning thumb body only requires moving a single pin keeping downtime to a minimum

Reliability

- High grade T1 steel is used in all critical components for increased strength
- Heavy steel construction throughout for increased durability
Hydraulic Thumbs

Hydraulic thumbs substantially increase an excavator’s versatility. Hydraulic thumbs allow the operator to place an object in the clamp, then move precisely. ESCO hydraulic thumbs are available in non-link and linkage style to meet any clamp rotation needs. Hydraulic thumbs are designed for the specific bucket setup to assure meshing without interference through the full rotation of the thumb.

Hydraulic Thumb Styles

Non-Linkage Style – the hydraulic cylinder is pinned directly to the thumb with thumb rotation of approximately 120°

Non-Linkage Style for Couplers – thumb provides consistent 120° rotation with coupler

Linkage Style – the linkage between the cylinder and thumb gives the ESCO hydraulic thumb more complete rotation, up to 180°

Linkage Style for Couplers – the linkage between the cylinder and the thumb provides an industry best 180° of rotation and is designed for use with a coupler

Bi-Directional Hydraulic Kits for Thumbs

ESCO offers high quality machine specific hydraulic kits for excavators. ESCO hydraulic kits are designed specifically for operating thumbs. There are no unnecessary components, and thumbs will operate at full hydraulic efficiency.

Features and Benefits

Versatility

• Thumbs retract close to boom when not in use to allow digging visibility
• Hydraulic thumbs utilized with couplers are longer for the same level of material retention

Reliability

• Lubricated hardened pins and bushings not only provide more life, but also allows easy thumb rebuild
• Cylinders utilize heavy-duty rods and are cushioned at both ends for longer lasting problem-free cylinders
• High-grade T1 steel is used in critical components to increase service life and provide greater strength

ESCO Service

• Complete documentation for installation and parts list
• Full technical support available
ESCO is the leader in innovation and performance for wearparts in the earthmoving industry. Keeping with that tradition, ESCO is excited to introduce the latest breakthrough in construction tooth systems — the Ultralok Tooth system.

Ultralok is an innovative and cost-efficient tooth system that answers customers’ needs in any machine application. The revolutionary integrated locking device makes the Ultralok system two pieces — unlike the traditional three piece tooth systems of the past. The Ultralok is truly a hammerless system, not simply a hammerless locking device. Safety is increased, inventory is reduced and field replacement is simplified.

**Improved digging performance**
- Better penetration than the competitors through:
  - Lower nose height
  - Smooth point to adapter transition
  - Unique triangular nose shape
  - All new streamlined point shapes

**Easier to use**
- Lock integrated into the point
  - Reduced customer inventory items
  - No picking the wrong sized lock
  - No losing the lock in the field
- One simple tool operates the system— a pry bar
  - Locks point to adapter
  - Unlocks point from adapter
  - Aids in point removal from adapter
- Convenient lock access for operator

**Increased safety**
- Completely hammerless system
  - No hammer needed to lock point to adapter
  - No hammer needed to unlock point from adapter
  - No hammer needed to aid in point removal from adapter
- No hammer means reduced chance of injury
Ultraplok® Tooth System

Features and Benefits

Longer wear life
- Average 15% more usable wear metal than competitive systems
- Harder and tougher alloy steel than competitive systems
- Improved penetration aids in wear life increase

Better reliability
- 10% more stabilized mating flats than closest competitor
- Reduced locking device loading
- Proven lock materials and assembly process
- Lock is in reduced wear position

Reduced labor cost
- Improved wear life means less frequent change outs
- Integrated locking device
  - Mistake-proof integrated lock reduces change out errors
  - Point installation is easier with less pieces to handle
Ultralok® Tooth System

Point Shapes

Hydraulic Excavators and Face Shovels

**S** – The S is a standard point, an excellent choice for excavators and wheel loaders in general purpose applications. Designed to wear sharp for penetration, and features a center rib for greater strength.

**C** – The C is a chisel point primarily for use on excavators. The design provides good penetration and extra wear metal in tough applications. The heavy-duty rib and unique tear-drop relief in the bottom keeps the point sharp throughout its wear life.

**P** – The P is a pick point for extremely hard to penetrate materials, and is primarily designed for excavators but can be used on wheel loaders. Top and bottom ribs provide strength and ensures the point stays sharp.

**T** – The T is a twin pick point for maximum performance in hard to penetrate materials. The unique configuration minimizes the chance of rocks wedging between the tines; and is designed for use in the corner positions in conjunction with P style points to cut clearance for the buckets sides. The corner teeth can be switched to maximize wear life.

**F** – The F is a flared point for general purpose digging and continuous edge applications – an excellent choice for trench bottoms and foundation excavations. The wide blade maximizes bucket capacity.

**H** – The H is a heavy point for extremely abrasive applications and is primarily designed for excavators. Additional wear metal provides long point life. The heavy-duty rib and unique tear-drop relief in the bottom help to maintain sharpness as the point wears.

**AP** – The AP is a heavy-duty penetration point for wheel loaders with added wear metal for highly abrasive applications. The beveled tip design ensures sharpness, and the top center rib helps maintain the sharpness. An integral bottom wear shoe provides long life.

**A** – The A point is designed for optimum wear on wheel loaders working in extreme abrasion applications. The beveled tip and top contoured panel ensures excellent bucket loading. The full length bottom wear shoe provides maximum wear life and ensures a smooth floor to minimize the chance of tire damage.

Quality You Can Rely On

ESCO Corporation will replace at no charge any Ultralok point or adapter that breaks, FOB point of manufacture, due to defects in materials or workmanship, providing it is not worn out and 100% ESCO components have been used in the assembly.
Ultralok® Tooth System Applications

The Ultralok tooth system is available for a range of construction market segments.

Utility Construction Market

- For utility excavators, loaders, and other compact machines
- Sizes U20, U25 offer adapters and point shapes to fit all applications

<table>
<thead>
<tr>
<th>Size</th>
<th>U20</th>
<th>U25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excavators</td>
<td>6-10 mt</td>
<td>10-15 mt</td>
</tr>
<tr>
<td>Loaders</td>
<td>1.8 yd</td>
<td>3.0 yd</td>
</tr>
</tbody>
</table>

Construction Market

- For mid-range wheel loaders and excavators
- Sizes U30, U35, U40 offer one of the widest selections of points and adapters to service applications from general purpose to extreme service
- Wide selection of adapters for most wheel loader and excavator applications

<table>
<thead>
<tr>
<th>Size</th>
<th>U30</th>
<th>U35</th>
<th>U40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excavators</td>
<td>15-20 mt</td>
<td>20-28 mt</td>
<td>25-30 mt</td>
</tr>
<tr>
<td>Loaders</td>
<td>4.5 yd</td>
<td>6 yd</td>
<td>7 yd</td>
</tr>
</tbody>
</table>

Heavy Construction Market

- For large wheel loaders, excavators and face shovels
- Sizes U45, U55, U60 offer a complete range of adapters and points
- Designed and manufactured to perform in the toughest conditions, from pipeline work in rock to demanding quarry applications

<table>
<thead>
<tr>
<th>Size</th>
<th>U45</th>
<th>U55</th>
<th>U60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excavators</td>
<td>30-40 mt</td>
<td>40-60 mt</td>
<td>60-75 mt</td>
</tr>
<tr>
<td>Loaders</td>
<td>8 yd</td>
<td>9 yd</td>
<td>12 yd</td>
</tr>
</tbody>
</table>
Infinity™ Bimetallic Wear Products

ESCO Universal Wear Solutions is more than just a product. It is a combination of products, services and metallurgical expertise to provide superior wear protection for construction equipment and other industrial applications. A key part of this package is the Infinity Bimetallic Wear Products, a comprehensive offering of buttons, blocks, bars, runners, tiles and overlay plate to match any application.

**Infinity Buttons, Blocks, Bars and Runners**

ESCO Infinity wear buttons, blocks, bars and runners are a chrome white iron (CWI) casting on a mild steel backing plate. The CWI has a minimum hardness of 700 Brinell, and the mild steel backing allows easy attachment with minimal welding. There is a variety of shapes and sizes to protect any high wear area on mobile or stationary machinery.

Some of the many applications are buckets for shovels, draglines, loaders and excavators, and conveyor chutes liners, grizzly screens, crusher liners, or any other equipment exposed to abrasive wear.

<table>
<thead>
<tr>
<th>Features and Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reduced Maintenance</strong></td>
</tr>
<tr>
<td>• Protects any high wear area, eliminating the need for frequent rebuild or replacing wear plate</td>
</tr>
<tr>
<td>• Lasts longer than other wear protection</td>
</tr>
<tr>
<td>• Excellent alternative to hard facing which can lead to cracking of major structural components</td>
</tr>
<tr>
<td><strong>Increased production</strong></td>
</tr>
<tr>
<td>• Reduced maintenance ensures maximum machine availability</td>
</tr>
<tr>
<td>• Wide variety of shapes and sizes allows small areas to be protected, minimizing the affect on penetration and material flow</td>
</tr>
<tr>
<td><strong>Lower Operating Cost</strong></td>
</tr>
<tr>
<td>• Can be fit to flat or curved surfaces, eliminating the need to have wear plate formed to fit</td>
</tr>
<tr>
<td>• Bucket life is significantly increased, minimizing repair and new bucket orders</td>
</tr>
</tbody>
</table>
Abrasion Resistant Plate

Wear is one of the biggest challenges facing high production operations today. The application at each operation is unique so ESCO offers a variety of options to protect valuable equipment. AR plate is a premium AR product available in 400 or 500 grades. Infinity™ chromium carbide overlay plate is an alternative for extreme abrasion applications.

ESCO offers AR 400 and 500 quenched and tempered alloy plates to handle extreme wear, with optimum resistance to gouging abrasion under severe impact. AR plate has exceptional toughness, ductility, formability and hardness over T1 type abrasion grades. AR plate can be sheared, plasma cut and welded using conventional methods, and is a great choice for bucket, dozer blade, crusher, chute, and haul truck bed liners, and can also be used for fabricated ripper shanks, heel bands and mold boards.

ESCO’s Infinity Chromium Carbide Overlay Plate is an excellent choice for severe wear protection as liners for machine buckets, dozer blades, chutes, conveyors, cement plants and aggregate plants.

Features and Benefits

Reduced Maintenance
- Protects entire surfaces, eliminating the need for frequent rebuild or replacing structural components
- Formable to contoured surfaces and easy to weld

Increased production
- Custom formed kits minimize affect on penetration and material flow
- Reduced maintenance ensures maximum machine availability

Lower Operating Cost
- Equipment life is significantly increased, minimizing repair and new replacement orders
- A variety of material options allows the best choice for abrasion and impact resistance to ensure maximum uptime
**Abrasión Resistente Plate**

**AR 400**
ESCO AR 400 through-hardened plate is available in 3/16" through 4" thickness. Typical hardness is 360-444 BHN, and the typical toughness is 20 ft.-lbs. in transverse direction. AR 400 is very formable and has high wear resistance, excellent toughness and weldability.

**AR 500**
ESCO AR 500 through-hardened plate is available in 1/8" through 4" thickness. Typical hardness is 477-555 BHN, and the typical toughness is 18 ft.-lbs. in transverse direction. AR 500 is formable in cold condition and has superior wear resistance for extreme abrasion, very good toughness and weldability.

**Infinity™ Cromo Carbide Overlay Plate**
ESCO's Infinity Chromium Carbide Overlay wear protection is ideal in extreme abrasion and medium impact applications. ESCO overlay plate offers a minimum of 573 Brinell hardness. Infinity overlay plate is formable and can be ordered in custom designed kits to fit a wide variety of surface configurations.
Quality, Value and Speed

ESCO’s culture of Quality, Value and Speed (QVS) and lean manufacturing is integral to everything we do. From boardroom to break room, from office to plant floor – ESCO employees strive to reduce waste, ensure safety, drive down costs, decrease lead times, standardize production techniques, and improve continuously. The result: ESCO production output meets strict specifications and offers customers superior flexibility and value. These business practices also create sustainable economic, environmental and social benefits for our employees and in the communities where we operate.

Continuous QVS assessment of each ESCO facility worldwide is based on the following criteria:

Quality

- Metal industry expertise
- Capability to identify, eliminate and prevent defects at the source
- Operational stability
- Established culture of continuous improvement
- Production process excellence
- Total material traceability
- In-house metallurgical testing
- Foundry operations: ISO 9001 certified

Value

- Quick reaction to changes in customer demand
- Reduced cost of ownership through enhanced product performance
- Products which are easier and safer to replace than the competition’s
- Longer wear life than competitors
- Engineering expertise and product support

Speed

- Electronic link to customer order processes
- Real-time customer access to supply chain data
- Rapid prototyping capability
- Global supply chain management