Coupler Systems for Your MAXimum Advantage
Strato’s optimum manufacturing process ensures consistent dimensions for proper fit and function, longer fatigue life, and smoother surface finish to reduce the amount of stress risers and minimize crack initiation.

Specify the Best!
**AAR M-216 E-KNUCKLE**  
**AVERAGE FATIGUE LIFE REACHES MORE THAN DOUBLE THE AAR M-216 STANDARD**

Material: AAR M-201 Grade E Steel  
Fits all E and E/F Couplers  
AAR Catalog No. E50BEV

**Part #**  
E50BE-S

Approved by AAR Coupling System and Truck Casting Committee per the AAR M-216 knuckle fatigue test.

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**AAR M-216 F-KNUCKLE**  
**MEETS AAR M-216 FATIGUE LIFE CYCLE REQUIREMENTS**

Material: AAR M-201 Grade E Steel  
Fits all F Couplers  
AAR Catalog No. F51AEV

**Part #**  
F51AE-S

Approved by AAR Coupling System and Truck Casting Committee per the AAR M-216 knuckle fatigue test.

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*All products meet or exceed AAR Specifications*
E COUPLERS

AVERAGE FATIGUE LIFE EXCEEDS 1.5 MILLION CYCLES
AAR M-201 Enhanced Grade E Steel

33-1/2" E-Coupler
21-1/2" Shank, Bottom Shelf

<table>
<thead>
<tr>
<th>TYPE</th>
<th>PART #</th>
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<tbody>
<tr>
<td>BODY</td>
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<tr>
<td>ASSEMBLY</td>
<td>SBE60EE-S10</td>
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</table>

37" E-Coupler
25" Shank, Bottom Shelf

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<td>ASSEMBLY</td>
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</table>

33-1/2" E-Coupler
21-1/2" Shank, Top & Bottom Shelf

<table>
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<tr>
<th>TYPE</th>
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<tr>
<td>ASSEMBLY</td>
<td>SE60EE-S10</td>
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</table>

COUPLER BODY SHOWN, AVAILABLE AS AN ASSEMBLY
All products meet or exceed AAR Specifications
### E/F Couplers

**Average Fatigue Life Exceeds 1.5 Million Cycles**

AAR M-201 Enhanced Grade E Steel

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**43” E/F Coupler**

- **31” Shank, Bottom Shelf**
- **Overall Length 49-7/8”**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part #</th>
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</thead>
<tbody>
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<tr>
<td>Assembly</td>
<td>EF511CE-S10</td>
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</tbody>
</table>

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**60” E/F Coupler**

- **48” Shank, No Shelf**
- **Overall Length 66-7/8”**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>E69CE-S00</td>
</tr>
<tr>
<td>Assembly</td>
<td>E69CE-S10</td>
</tr>
</tbody>
</table>

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**60” E/F Coupler**

- **48” Shank, Bottom Shelf**
- **Overall Length 66-7/8”**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part #</th>
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</thead>
<tbody>
<tr>
<td>Body</td>
<td>SBE69CE-S00</td>
</tr>
<tr>
<td>Assembly</td>
<td>SBE69CE-S10</td>
</tr>
</tbody>
</table>

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All products meet or exceed AAR Specifications
F COUPLER
AVERAGE FATIGUE LIFE EXCEEDS 1.5 MILLION CYCLES
AAR M-201 Enhanced Grade E Steel

The 1st F-Knuckle to pass the AAR M-216 fatigue life cycle requirement of 600,000 cycles.

Assembly includes...

All products meet or exceed AAR Specifications
COUPLER ASSEMBLIES WITH THEIR COMPONENTS

E & E/F Coupler Assemblies Include:

- Coupler Body
- E Knuckle
- Lock
- Knuckle Thrower
- Lock-Lift Assembly
- C-10 Pin
- Cotter Pin

F Coupler Assemblies Include:

- Coupler Body
- F Knuckle
- Lock
- Knuckle Thrower
- Rotor
- Rotary Lock-Lift Assembly
- C-10 Pin
- Cotter Pin

All products meet or exceed AAR Specifications
**Manufacturing**

Manufactured for improved surface finish and tight tolerances to ensure proper coupler operation.

<table>
<thead>
<tr>
<th>PART #</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| E30A    | Knuckle Thrower                  | AAR M-201 Grade B Steel  
AAR Catalog # E30A                                                      |
| E42BE   | Reduced Slack Lock               | AAR M-201 Enhanced Grade E Steel  
for higher yield and tensile strength  
AAR Catalog # E42BE                                                      |

**Control**

Advanced dimensional control during manufacture produces a more reliable fitting and consistent interchange.

<table>
<thead>
<tr>
<th>PART #</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| E24B    | Lock-Lift Assembly, Single       | Ductile Iron  
AAR Catalog # E24B                                                      |
| C10P    | Knuckle Pin                      | Fits E & F Knuckles  
AAR M-118  
AAR Catalog # C10                                                       |

All products meet or exceed AAR Specifications
**Control**
Advanced dimensional control during manufacture produces a more reliable fitting and consistent interchange.

**Knuckle Thrower**
- **PART #** F31A
- AAR M-201 Grade B Steel
- AAR Catalog # F31A

**Lock**
- **PART #** F41AE
- AAR M-201 Enhanced Grade E Steel for higher yield and tensile strength
- AAR Catalog # F41AE

**Rotor**
- **PART #** F8A
- Material: Ductile Iron
- AAR Catalog # F8A

**Rotary Lock-Lift Assembly**
- **PART #** F7
- Material: Ductile Iron
- AAR Catalog # F7

**Manufacturing**
Manufactured for improved surface finish and tight tolerances to ensure proper coupler operation.

*All products meet or exceed AAR Specifications*
HEAVY DUTY LONG-LIFE YOKES
DESIGNED FOR INCREASED STRENGTH AND PERFORMANCE

**Wider Strap at Butt End**
26% wider at critical transition to reduce cracks and stretching.

**Easier to install and remove.**

**Shorter Nose**

**No Porosity**
Eliminates porosity problems that can cause premature failure.

**Zero Draft Angle Key Slot**
Parallel pulling faces prevent key slot damage - resulting in longer life for both the yoke and key.

Heavy Duty Long-Life E-Yoke

**PART #**
WMNY40AE

Casting and performance studies from railroads have shown conventional E-yokes, excluding premature failures, last an average of 800,000 miles; reconditioned yokes last an average of 650,000 miles.

High-stress cars, such as coal cars, average 100,000 miles per year which would require a new E-yoke every eight years. In a 40-year life, a high-stress car could require the yoke to be replaced up to five times.

When a yoke is replaced, the draft gear is almost always replaced at the same time which also increases the cost.

*Design and material changes have given Strato Yokes an increased fatigue life. The same fatigue models used to design new cars have shown an increase in the fatigue life of our E-Yoke over 10 times.*

*All products meet or exceed AAR Specifications*
The weakest points in a conventional yoke were strengthened three ways to reduce stresses, cracks and prevent failure.

Rib Design

No Porosity
Eliminates porosity problems that can cause premature failure.

Heavy Duty
Long-Life F-Yoke

PART #
Y45AE

New Material Blend
Improved metallurgy and heat treating process gives our steel a 20% increase over AAR M-201 minimums. Higher yield strengths, stronger but not more brittle, show a 20x increase in fatigue life from steel alone.

Strength Testing
Yokes tested to 1.4 million lbs. in tensile tests; 50% higher than conventional yokes.

All products meet or exceed AAR Specifications