STRATO MAX®

COUPLER SYSTEMS

Specify the Best!

for Your MAXimum Advantage

STRATO MAX
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.

MAXimum Longevity
MAXimum Interchangeability
MAXimum Performance

SUBSTANTIAL MAINTENANCE COST SAVINGS

Customer billing data validates substantial maintenance cost savings. When compared to other AAR approved knuckles, the Strato MAX knuckle design was replaced at a ratio of one to four of the others. Couplers achieved similar results at a ratio of one Strato MAX coupler design to six of the other AAR approved couplers.

AAR M-216 E & F KNUCKLES

AVERAGED OVER 1 MILLION FATIGUE LIFE CYCLES DURING TESTING

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

E - Knuckle

Material:
AAR M-201
Grade E Steel

F - Knuckle

Fits all E and E/F Couplers
AAR Catalog No. E50BEV

Part #
E50BEV-S

Available as:
12-pack: # **E50BEV-12**
24-pack: # **E50BEV-24**

Packaging surcharge may apply.

Fits all F Couplers
AAR Catalog No. F51AEV

Part #
F51AEV-S

Available as:
12-pack: # **F51AEV-12**
24-pack: # **F51AEV-24**

Packaging surcharge may apply.

The difference between AAR Requirements and StratoMAX Performance.

Function	AAR	StratoMAX Internal Performance Criteria
M-216 Knuckle Fatigue	600,000 Cycles Min	1,200,000 Cycles Average
M-216 E Knuckle Requalification	3 Years	1 Year
M-216 Coupler Fatigue	None	1,500,000 Cycles Min
M-216 Coupler Requalification	None	1 year
Metallurgical Elements Tracked	6 Elements	12 Elements
Qualification Sections - Knuckles	3	9
Qualification Sections - Couplers	8	24
Yield Strength From Casting	80,000 PSI MIN	108,000 PSI AVE
Tensile Strength From Casting	96,000 PSI MIN	127,000 PSI AVE
X-Ray Qualification	None	100% Each Cavity, 3 Heats
Flag Hole Surface Control	None	SCRATA Controlled

E COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

Refer to AAR Field Manual Rule 16 for correct coupler replacement

33-1/2" E-Coupler

21-1/2" Shank, Bottom Shelf

TYPE	PART #
BODY	SBE60EE-S00
ASSEMBLY	SBE60EE-S10

37" E-Coupler

25" Shank, Bottom Shelf

TYPE	PART #
BODY	SBE67DE-S00
ASSEMBLY	SBE67DE-S10

33-1/2" E-Coupler

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

TYPE	PART #
BODY	SE60EE-S00
ASSEMBLY	SE60EE-S10

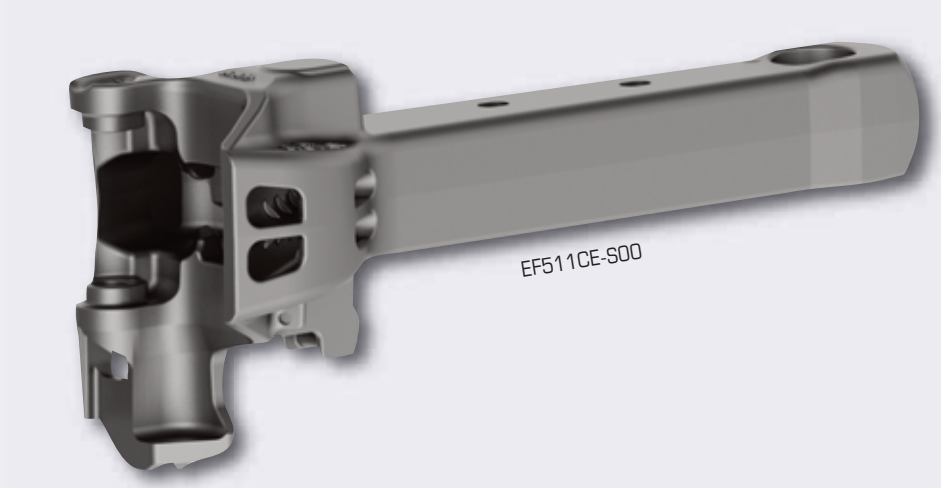
COUPLER BODY SHOWN, AVAILABLE AS AN ASSEMBLY

All products meet or exceed AAR Specifications

E/F COUPLERS

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

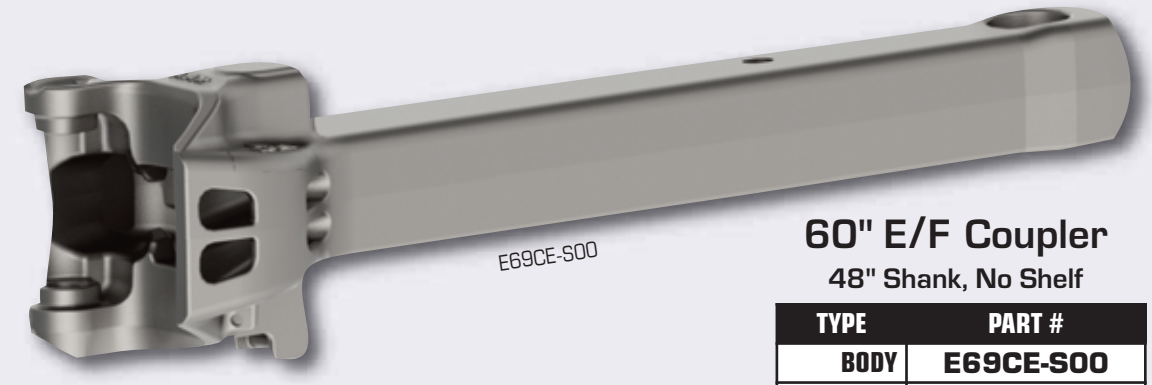
Refer to AAR Field Manual Rule 17 for correct coupler replacement



43" E/F Coupler

31" Shank, Bottom Shelf

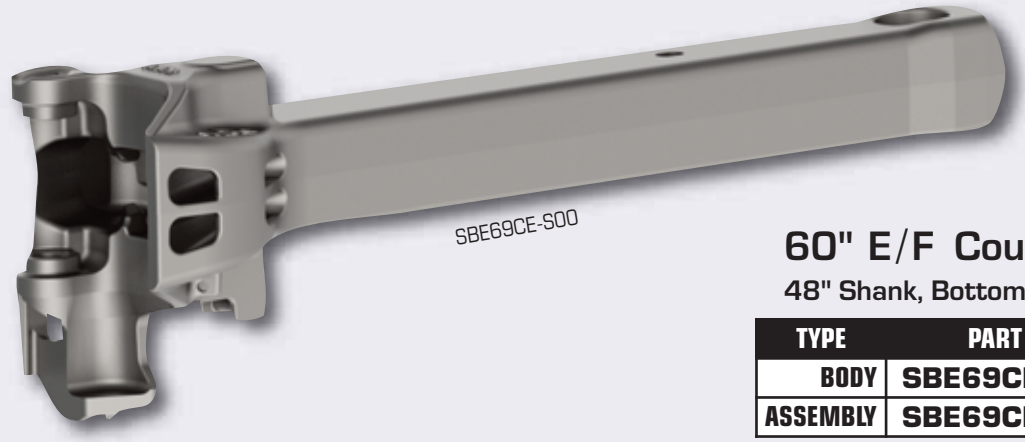
TYPE	PART #
BODY	EF511CE-S00
ASSEMBLY	EF511CE-S10



60" E/F Coupler

48" Shank, No Shelf

TYPE	PART #
BODY	E69CE-S00
ASSEMBLY	E69CE-S10



60" E/F Coupler

48" Shank, Bottom Shelf

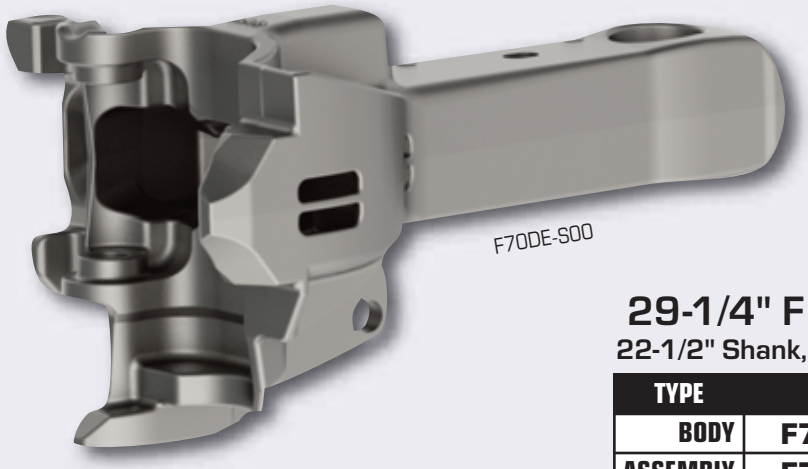
TYPE	PART #
BODY	SBE69CE-S00
ASSEMBLY	SBE69CE-S10

All products meet or exceed AAR Specifications

F COUPLER

TESTED TO EXCEED 1.5 MILLION CYCLES WITHOUT FAILURE

Refer to AAR Field Manual Rule 18 for correct coupler replacement



29-1/4" F-Coupler

22-1/2" Shank, Bottom Shelf

TYPE	PART #
BODY	F70DE-S00
ASSEMBLY	F70DE-S10

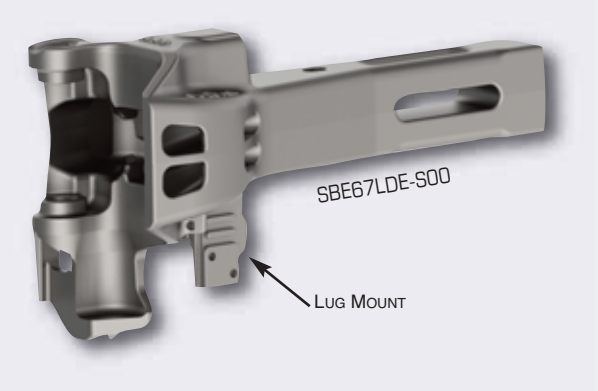
Assemblies Include:

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

All products meet or exceed AAR Specifications

COUPLERS WITH LUG MOUNT

USED WITH COUPLER LUG MOUNTED BRACKET FOR END OF CAR ARRANGEMENTS



37" E-Coupler
w/Lug Mount
25" Shank, Bottom Shelf

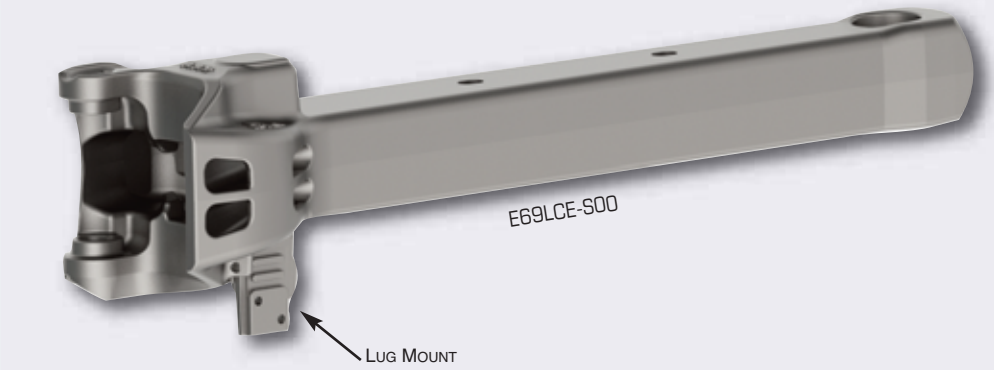
TYPE	PART #
BODY	SBE67LDE-S00
ASSEMBLY	SBE67LDE-S10

43" E/F-Coupler
w/Lug Mount
31" Shank, Bottom Shelf

TYPE	PART #
BODY	EF511LCE-S00
ASSEMBLY	EF511LCE-S10

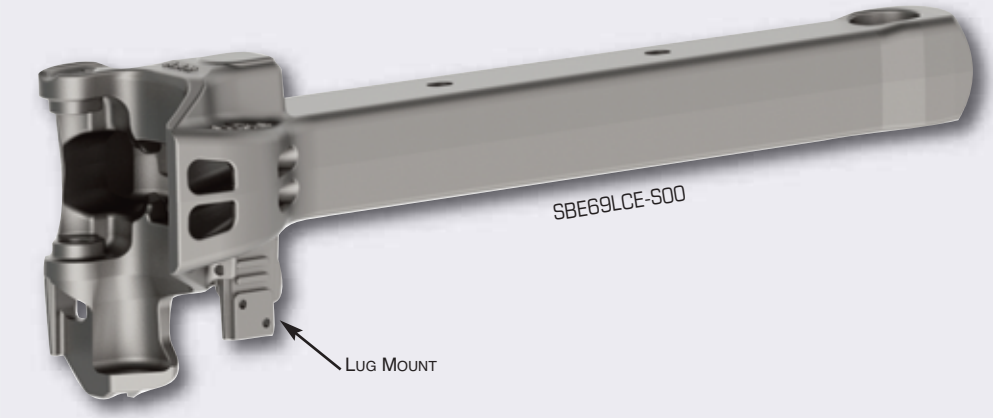
60" E/F-Coupler
w/Lug Mount
48" Shank, No Shelf

TYPE	PART #
BODY	E69LCE-S00
ASSEMBLY	E69LCE-S10



60" E/F-Coupler
w/Lug Mount
48" Shank, Bottom Shelf

TYPE	PART #
BODY	SBE69LCE-S00
ASSEMBLY	SBE69LCE-S10



All products meet or exceed AAR Specifications

COUPLER LUG MOUNTED BRACKET ASSEMBLY

FOR END OF CAR ARRANGEMENTS

The Coupler Lug Mounted Bracket may be used on couplers with a lug.
Couplers with a lug include: **EF511LCE, E69LCE, SBE67LDE and SBE69LCE.**

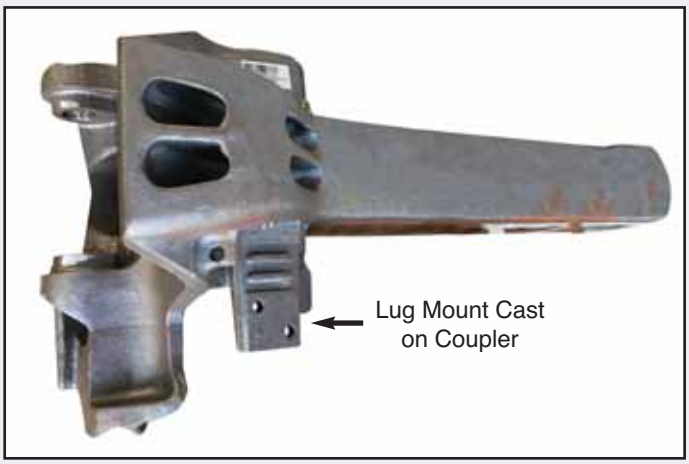
PART #
CLMBA

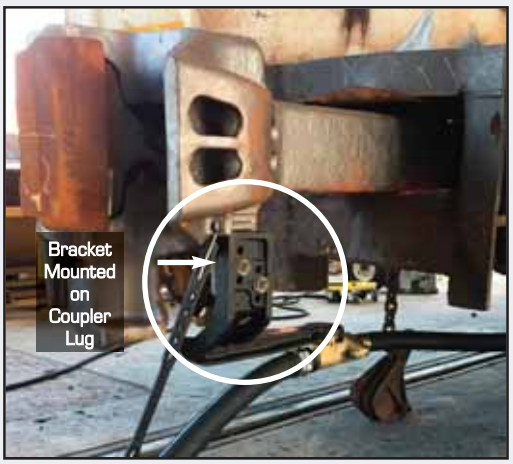
- Easy to install
- Mounts directly to the lug cast into the coupler
- Reduces the potential for car body interference
- Tested to exceed AAR S-4021 requirements
- Approved by Brake Systems Committee

PATENTED

Assembly includes bracket, installation hardware and trainline support casting.

FOR USE ON CUSHIONED CARS





All products meet or exceed AAR Specifications

COUPLER COMPONENTS

FITS E, E/F & F COUPLERS

E-Coupler
Knuckle Thrower

PART #
E30A

AAR M-201 Grade B Steel
AAR Catalog # E30A

E-Coupler Lock-Lift
Assembly, Single

PART #
E24B

Ductile Iron
AAR Catalog # E24B

E-Coupler
Reduced Slack Lock

PART #
E42BE

AAR M-201 Enhanced Grade E Steel
for higher yield and tensile strength
AAR Catalog # E42BE

AAR S-123
Knuckle Pin
Fits E & F Knuckles

PART #
C10P

AAR Catalog # C10

Control

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

Manufacturing

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

F-Coupler Lock

PART #
F41AE

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

F-Coupler
Knuckle Thrower

PART #
F31A

AAR M-201 Grade B Steel
AAR Catalog # F31A

F-Coupler Rotor

PART #
F8A

Material: Ductile Iron
AAR Catalog # F8A

F-Coupler
Rotary Lock

PART #
F400AE

AAR M-201 Enhanced Grade E Steel
for higher yield and tensile strength

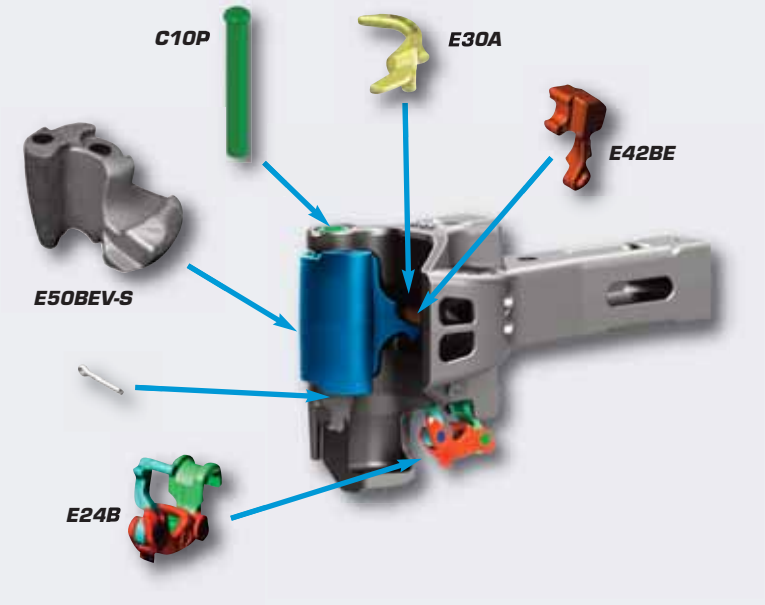
F-Coupler
Rotary Lock-Lift
Assembly

PART #
F7

Material: Ductile Iron
AAR Catalog # F7

All products meet or exceed AAR Specifications

COUPLER ASSEMBLIES
WITH THEIR COMPONENTS

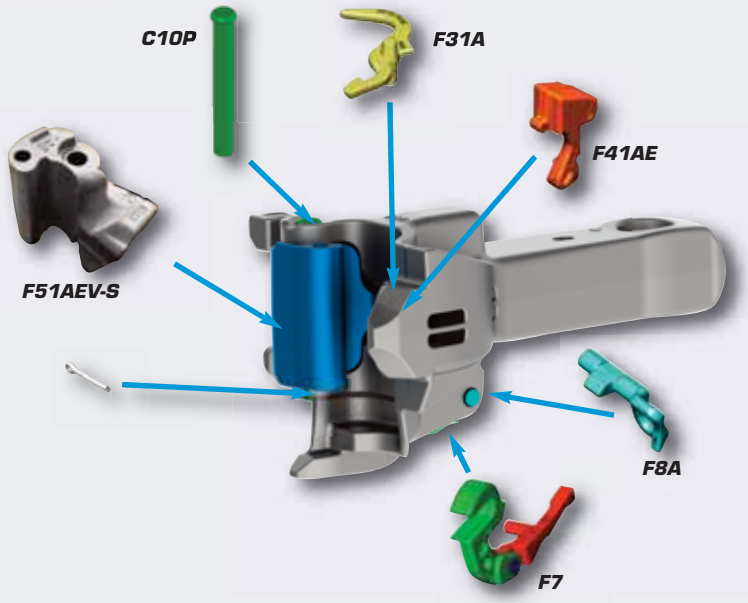


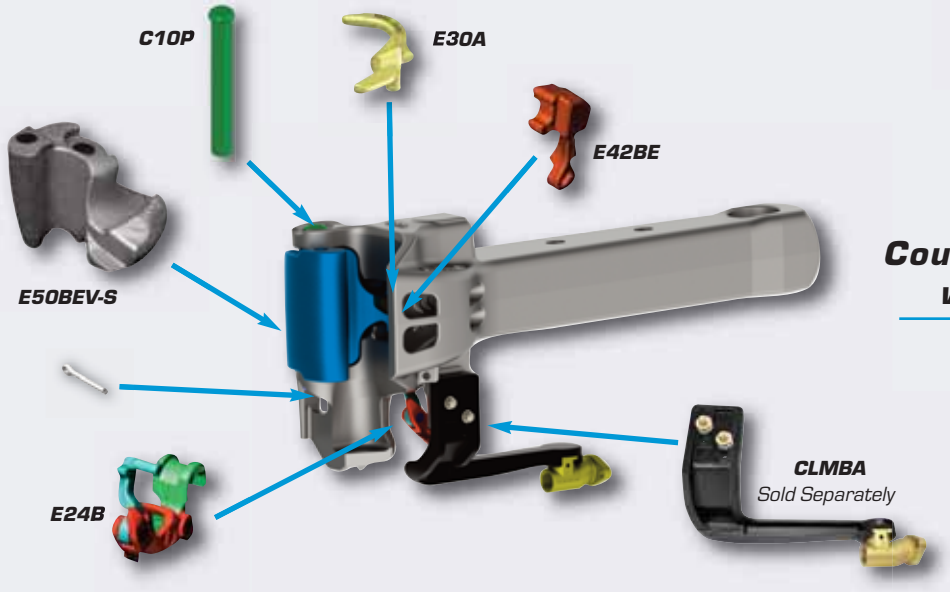
E & E/F Coupler Assemblies Include:

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





Coupler Assemblies with Lug Include:

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

All products meet or exceed AAR Specifications

E & F YOKES

DESIGNED FOR INCREASED STRENGTH AND PERFORMANCE

Standard E - Yoke

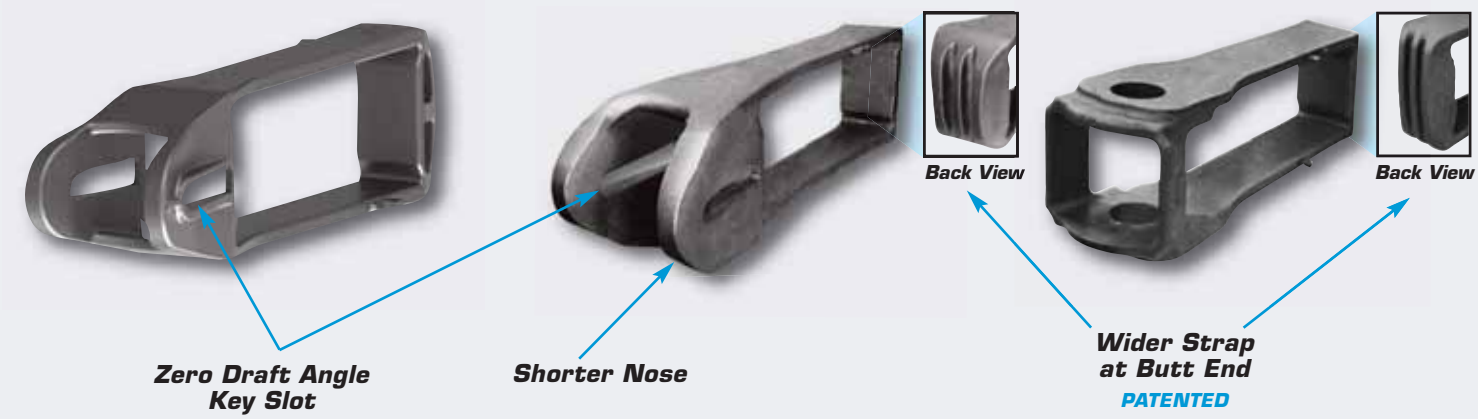
PART #
SY40AE

Heavy Duty E - Yoke

PART #
WMNY40AE

Heavy Duty F - Yoke

PART #
Y45AE



STRATO YOKES FEATURES & BENEFITS	STANDARD E - Yoke	HEAVY DUTY E - Yoke	HEAVY DUTY F - Yoke
Improved Alloy Material Improved metallurgy and heat treating process gives our steel a 20% increase over M-201 minimums. Higher yield strengths, stronger yet ductile, increases yoke fatigue resistance. Modeling shows a 20x increase in fatigue life from steel alone.	✓	✓	✓
Investment Casting Reduces chance of porosity that may cause premature failure.	✓	✓	✓
Smooth Surface - No Parting Line Eliminates stress risers that can lead to cracks and eliminates grinding that can cause surface discontinuities.	✓	✓	✓
Tighter Tolerances Better fit with no grinding.	✓	✓	✓
Strength Testing Tested to 1.4 million lbs. in tensile tests; 50% higher than conventional yokes.		✓	✓
Zero Draft Angle Key Slot Parallel pulling faces prevent key slot damage - resulting in longer life for both the yoke and key.	✓	✓	N/A
Rib Design Weakest points in a conventional yoke were strengthened three ways to reduce stresses, cracks, and prevent failure.		✓	✓
Wider Strap 26% wider at critical transition to reduce cracks and stretching.		✓	✓
Shorter Nose Easier to install and remove.		✓	N/A

Customer Service

Phone: (800)792-0500
Fax: (800)378-7286
customerservice@stratoinc.com
100 New England Avenue, Piscataway, NJ 08854
www.stratoinc.com/stratomax

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