PRODUCT CATALOG

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CM01-104/001  T-BAR CLAMP (WELDED ASSEMBLY)

CM01-104/001 - 30"-40K T-BAR CLAMP (LESS LINERS AND SCREWS)

1. CM01-312 (GRADE 8) 1/2-20 x 2.25 LG. BOLT (8 REQUIRED)
2. CM01-313 (GRADE 8) WASHER (8 REQUIRED)
3. CM01-305 TIE DOWN BRACKET
4. CM01-318 TIE DOWN BOLT HINGE (8 REQUIRED)
5. CM01-101 T-HANDLE
6. CM01-307 HINGE PIN (2 REQUIRED)
7. CM01-314 COTTER PIN (4 REQUIRED)
8. CM01-315 6-32 S.S. FLAT HEAD SCREW (8 REQUIRED)
9. CM01-311 LINER (SET)
10. PULL TEST AND CERTIFY

NOTES:
1. SWL = 20,000 LBS
2. SF = 2
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED
LINERS AND SCREWS

1. CM01-315 6-32 SS SCREW

2. CM116-307 LINER SET
CM116-307A 3/16" LINER SET
CM116-307B 7/32" LINER SET
CM116-307C 1/4" LINER SET
CM116-307D 9/32" LINER SET
CM116-307E 5/16" LINER SET
CM116-307F 11/32" LINER SET
CM116-307G 3/8" LINER SET
CM116-307H 7/16" LINER SET
CM116-307I 15/32" LINER SET
CM116-307J 1/2" LINER SET
CM116-307K 17/32" LINER SET
CM116-307L 9/16" LINER SET

3. CM115-307 LINER SET
CM115-307A 3/16" LINER SET
CM115-307B 7/32" LINER SET
CM115-307C 1/4" LINER SET
CM115-307D 9/32" LINER SET
CM115-307E 5/16" LINER SET
CM115-307F 11/32" LINER SET
CM115-307G 3/8" LINER SET
CM115-307H 7/16" LINER SET
CM115-307I 15/32" LINER SET
CM115-307J 1/2" LINER SET
CM115-307K 17/32" LINER SET
CM115-307L 9/16" LINER SET

4. CM01-311 LINER SET
CM01-311A 3/16" LINER SET
CM01-311B 7/32" LINER SET
CM01-311C 1/4" LINER SET
CM01-311D 9/32" LINER SET
CM01-311E 5/16" LINER SET
CM01-311F 11/32" LINER SET
CM01-311G 3/8" LINER SET
CM01-311H 7/16" LINER SET
CM01-311I 15/32" LINER SET
CM01-311J 1/2" LINER SET
CM01-311K 17/32" LINER SET
CM01-311L 9/16" LINER SET

5. CM117-307 LINER SET
CM117-307A 3/16" LINER SET
CM117-307B 7/32" LINER SET
CM117-307C 1/4" LINER SET
CM117-307D 9/32" LINER SET
CM117-307E 5/16" LINER SET
CM117-307F 11/32" LINER SET
CM117-307G 3/8" LINER SET
CM117-307H 7/16" LINER SET
CM117-307I 15/32" LINER SET
CM117-307J 1/2" LINER SET
CM117-307K 17/32" LINER SET
CM117-307L 9/16" LINER SET

6. CM117-303 10-32 BUTTON HEAD SCREW

PAGE A2
CM117-100 - 30"-40K T-BAR CLAMP (LESS SCREWS&LINERS)
1. CM01-320 (GRADE 8) 1/2-20 x 2.25 LG. BOLT (8 REQUIRED)
2. CM01-321 (GRADE 8) WASHER (8 REQUIRED)
3. CM117-301 TIE DOWN BRACKET
4. CM01-318 TIE DOWN BOLT HINGE (8 REQUIRED)
5. CM112-304 HANDLE SET SCREW
6. CM117-300 BODY
7. CM111-302 24" HANDLE *
8. CM01-307 PIN,TIE DOWN CABLE HANGER (PIVOT HINGE) (2 REQ)
9. CM01-314 COTTER PIN (4 REQUIRED)
10. CM117-303 10-32 S.S. BUTTON HEAD SCREW (8 REQ)(REF PG A2)
11. CM117-302 LINER(REF PAGE A2)
12. PULL TEST AND CERTIFY (CERTS INCLUDED)

NOTE:
* CUSTOM LENGTHS AVAILABLE UPON REQUEST
1. SWL=20,000LBS.
2. SF=2
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED
CM111-100 - 18"-40K T-BAR CLAMP (LESS SCREWS & LINERS)

1. CM01-312 (GRADE 8) 1/2-20 x 2.25 LG. BOLT (8 REQUIRED)
2. CM01-313 (GRADE 8) WASHER (8 REQUIRED)
3. CM111-301 TIE DOWN BRACKET
4. CM01-318 TIE DOWN BOLT HINGE (8 REQUIRED)
5. CM112-304 HANDLE SET SCREW
6. CM111-300 BODY
7. CM111-302 15° HANDLE *
8. CM01-307 TIE DOWN PIN (2 REQUIRED)
9. CM01-314 COTTER PIN (4 REQUIRED)
10. CM01-315 6-32 S.S. FLAT HEAD SCREW (8 REQUIRED)
11. CM01-311 LINER
12. PULL TEST AND CERTIFY

NOTE
* CUSTOM LENGTHS AVAILABLE UPON REQUEST
1. SWL=20,000lbs.
2. SF=2
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED
30K SOLID 15" T-BAR CLAMP

CM112-100 - 15"-30K T-BAR CLAMP (LESS SCREWS&LINERS)
1. CM01-312 (GRADE 8) 1/2-20 x 2.25 LG. BOLT (8 REQUIRED)
2. CM01-313 (GRADE 8) WASHER (8 REQUIRED)
3. CM112-301 TIE DOWN BRACKET
4. CM01-318 TIE DOWN BOLT HINGE (8 REQUIRED)
5. CM112-304 HANDLE SET SCREW
6. CM112-300 BODY
7. CM112-302 12" HANDLE *
8. CM01-307 TIE DOWN PIN (2 REQUIRED)
9. CM01-314 COTTER PIN (4 REQUIRED)
10. CM01-315 6-32 S.S. FLAT HEAD SCREW (8 REQUIRED)
11. CM01-311 LINER
12. PULL TEST AND CERTIFY

NOTE:
*CUSTOM LENGTHS AVAILABLE UPON REQUEST
1.SWL=15,000 LBS
2.SF=2
3.MATERIAL CERTS PROVIDED
4.MPI CERTS PROVIDED
5.PULL TEST CERTS PROVIDED
25K SOLID 13" T-BAR CLAMP

CM113-100 - 12-7/8"-25K T-BAR CLAMP (LESS SCREWS&LINERS)
1. CM01-312 (GRADE 8) 1/2-20 x 2.25 LG. BOLT (8 REQUIRED)
2. CM01-313 (GRADE 8) WASHER (8 REQUIRED)
3. CM113-301 TIE DOWN BRACKET
4. CM01-318 TIE DOWN BOLT HINGE (8 REQUIRED)
5. CM112-304 HANDLE SET SCREW
6. CM113-300 BODY
7. CM113-302 12" HANDLE *
8. CM01-307 TIE DOWN PIN (2 REQUIRED)
9. CM01-314 COTTER PIN (4 REQUIRED)
10. CM01-315 6-32 S.S. FLAT HEAD SCREW (8 REQUIRED)
11. CM01-311 LINER
12. PULL TEST AND CERTIFY

NOTE:
* CUSTOM LENGTHS AVAILABLE UPON REQUEST
1. SWL = 12,500 LBS.
2. SF=2
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED UPON REQUEST

PAGE A6
CM238-100B LOAD CELL PULLER
1. CM238-302 ARM (2 REQUIRED)
2. CM238-301 BODY
3. CM238-303 PIN
4. CM238-304 NUT
5. CM238-305 WASHER (2 REQUIRED)
6. CM238-306 COTTER PIN
7. CM238-307 CAP SCREW (2 REQUIRED)
8. PULL TEST & CERTIFY

NOTE:
1. SWL = 40,000 LBS.
2. SF = 4
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED
25K C-PLATE CLAMP

CM116-100 - 25K WIRE CLAMP ASSEMBLY

1. CM116-300 - 25K CLAMP BODY
2. CM116-305 - 25K TIE DOWN BAR
3. CM01-318 - BOLT HINGE (4 REQUIRED)
4. CM01-320 - 1/2"-20 GRADE 8 BOLT (4 REQUIRED)
5. CM01-321 - GRADE 8 FLAT WASHER (4 REQUIRED)
6. CM116-306 - BODY BOLTS (2 REQUIRED)
7. CM114-308 - C-PLATE (DIAMETERS OPTIONAL)
8. CM116-307 - LINER (SET)
9. CM01-315 - 6-32 S.S. FLAT HEAD SCREW (4 REQUIRED)
10. CM114-309 - 3/8"-16 x 1-1/4" SOCKET HEAD CAP SCREWS (2 REQUIRED)
11. CM116-308 - 7/8" SHACKLE (SWL=13K SF=6)
12. PULL TEST CERTIFY

NOTES:
1. SWL = 12,500 LBS
2. SF = 2
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED
30K C-PLATE CLAMP

CM115-100 - 30K WIRE CLAMP ASSEMBLY
1. CM115-300 - 30K CLAMP BODY
2. CM115-305 - 30K TIE DOWN BAR
3. CM01-318 - BOLT HINGE (6 REQUIRED)
4. CM01-320 - 1/2"-20 GRADE 8 BOLT (6 REQUIRED)
5. CM01-321 - GRADE 8 FLAT WASHER (6 REQUIRED)
6. CM115-306 - BODY BOLTS (2 REQUIRED)
7. CM114-308 - C-PLATE (DIAMETERS OPTIONAL)
8. CM115-307 - LINER (SET)
9. CM01-315 - 6-32 S.S. FLAT HEAD SCREW (6 REQUIRED)
10. CM114-309 - 3/8"-16 x 1-1/4" SOCKET HEAD CAP SCREWS (2 REQUIRED)
11. CM115-308 - 1" SHACKLE (SWL=17K SF=6)
12. PULL TEST CERTIFY

NOTES:
1. SWL = 15,000 LBS
2. SF = 2
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED
CM42-500 - 2-1/8" WIRELINE STRIPPING ASSEMBLY

1. CM72-101U - UPPER ROPE SOCKET
2. CM71-100U - KNUCKEL SWIVEL
3. CM42-302 - ADAPTER (2 REQUIRED)
4. CM42-100 - FLEXIBLE SINKER BAR
5. CM71-100L - KNUCKEL SWIVEL
6. CM65-100 - OVERSHOT
7. CM65-310 - 2-3/4" OVERSIZED GUIDE
8. CM65-311 - 3-1/4" OVERSIZED GUIDE
9. CM65-308 - SPEARHEAD SUB
10. CM12-321 - 4-1/2" I.F. HANG OFF PLATE (SEE NOTE 1)
11. CM72-100L - LOWER ROPE SOCKET
12. PULL TEST AND CERTIFY

NOTES:
1. OTHER SIZES AVAILABLE
2. SWL = 25,000 LBS
3. SF = 3
4. MATERIAL CERTS PROVIDED
5. MPI CERTS PROVIDED
6. PULL TEST CERTS PROVIDED
2-1/8" UPPER ROPE SOCKET

CM72-101-U 2-1/8" UPPER ROPE SOCKET ASSEMBLY

1. CM72-302 NOSE CONE
2. CM72-301 ROPE SOCKET BODY
3. CM72-304 (17/32" WIRE) (STANDARD) (RANGE .470-.531)
   CM72-305 (15/32" WIRE) SLIP ASSEMBLY (OPTIONAL) (RANGE .392-.468)
4. JAW ASSEMBLY (INCLUDED IN SLIP ASSEMBLY)
5. JAW ASSEMBLY SPRING (INCLUDED IN SLIP ASSEMBLY)
2-1/8" UPPER KNUCKLE SWIVEL

CM109-100-U 2-1/8" KNUCKLE SWIVEL ASSEMBLY

1. CM71-313 SLOTTED SPRING PIN
2. CM71-310 BOTTOM SUB
3. CM71-301 BODY
4. CN71-306 BEARING CUP (2 REQUIRED)
5. CM109-303 LOWER BEARING CONE
6. CM71-312 BALL BEARING
7. CM71-307 LOWER BEARING RACE
8. CM109-305 BEARING PIN
9. CM109-306 UPPER BEARING RACE
10. CM109-310 3/16" BALL BEARING
11. CM109-307 UPPER BEARING CONE
12. CM71-311 CREST TO CREST SPRING
13. CM71-304 UPPER SUB
14. CM71-314 GREASE FITTING

NOTE:
1. SWL = 25,000
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
2-1/8" SINKER BAR ADAPTER

CM42-302 ADAPTER (2 REQUIRED)

NOTES:
1. SWL = 25,000 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
2-1/8" FLEXIBLE SINKER BAR

CM42-100 2-1/8" FLEXIBLE SINKER BAR ASSEMBLY, 26' 5.5" STD. *

NOTE:
* CUSTOM LENGTHS AVAILABLE UPON REQUEST
1. ASSEMBLY REQUIRES TWO CRIMPED SOCKETS CM42-301
   NEW CRIMPED SOCKET INSTALLATION AVAILABLE
2. PULL TEST CERTS PROVIDED
3. SWL = 25,000 LBS.
4. SF = 3
5. MPI CERTS PROVIDED
CM109-100-L  2-1/8" KNUCKLE SWIVEL ASSEMBLY

1. CM71-313  SLOTTED SPRING PIN
2. CM71-302  BOTTOM SUB
3. CM71-301  BODY
4. CN71-306  BEARING CUP (2 REQUIRED)
5. CM109-303  LOWER BEARING CONE
6. CM71-312  BALL BEARING
7. CM71-307  LOWER BEARING RACE
8. CM109-305  BEARING PIN
9. CM109-306  UPPER BEARING RACE
10. CM109-310  3/16" BALL BEARING
11. CM109-307  UPPER BEARING CONE
12. CM71-311  CREST TO CREST SPRING
13. CM71-304  UPPER SUB
14. CM71-314  GREASE FITTING

NOTE:
1. SWL = 25,000
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
2-1/8" OVERSHOT

CM65-100 2-1/8" OVERSHOT ASSEMBLY

1. CM65-312 TEFILON LOCK NUT
2. CM65-313 WASHER
3. CM65-304 RELEASE SPRING
4. CM65-301 OVERSHOT BODY
5. CM65-306 STOP PIN
6. CM65-305 PIVOT PIN
7. CM65-303 RELEASE ARM
8. CM65-307 LATCH SPRING
9. CM65-302 OVERSHOT JAW (SET OF 2)

NOTE:
1. SWL = 25,000
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
OVERSIZE GUIDE FOR 2-1/8" OVERSHOT

CM65-310  2 1/8" OVERSIZED GUIDE (2 3/4" O.D.)

1. CM65-311  2 1/8" OVERSIZED GUIDE (3 1/4" O.D.)

2. CM65-315  2 1/8" OVERSIZED GUIDE PIN

NOTE:
1. MATERIAL CERTS PROVIDED
2. MPI CERTS PROVIDED
2-1/8" SPEARHEAD SUB

CM65-308 2-1/8" SPEAR HEAD SUB

NOTE:
1. SWL = 25,000
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
NO-GO SUB 2-3/8\" O. D.

1. CM72-309  2-1/8\" GO-NOGO SUB

NOTES:
1. SWL = 25,000 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
2-1/8" LOWER ROPE SOCKET

CM72-101-L 2-1/8" LOWER ROPE SOCKET ASSEMBLY

1. CM72-302 NOSE CONE
2. CM72-301 ROPE SOCKET BODY
3. CM72-304 (17/32" WIRE) (STD.) (RANGE .470-.531)
4. CM72-305 (15/32" WIRE) SLIP ASSEMBLY (OPTIONAL) (RANGE .392-.468)
5. JAW ASSEMBLY (INCLUDED IN SLIP ASSEMBLY)
6. JAW ASSEMBLY SPRING (INCLUDED IN SLIP ASSEMBLY)
7. CM72-303 HANG OFF SUB
8. CM72-309 2-1/8" NO-GO SUB (OPTIONAL)

NOTE:
1. MATERIAL CERTS PROVIDED
2. MPI CERTS PROVIDED
2-1/8" KNUCKLE JOINT

CM94-100 2-1/8" KNUCKLE JOINT ASSEMBLY
1. CM94-305 SLOTTED SPRING PIN
2. CM94-302 BOTTOM SUB
3. CM94-301 BODY
4. CN94-303 KNUCKLE PIN
5. CM94-304 UPPER SUB
6. CM94-307 GREASE FITTING

NOTE:
1. SWL = 25,000 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
2-1/8" UPPER SINKER BAR SWIVEL

CM101-100-U 2-1/8" SINKER BAR SWIVEL ASSEMBLY

1. CM71-313 SLOTTED SPRING PIN
2. CM101-305 BOTTOM SUB
3. CM101-307 CANNED WIPER
4. CM101-308 BEARING RACE (4 REQUIRED)
5. CN101-309 BALL BEARING (2 REQUIRED)
6. CM101-301 BODY
7. CM101-303 BEARING PIN
8. CM101-304 UPPER SUB
9. CM71-314 GREASE FITTING

NOTE:
1. SWL = 25,000 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
2-1/8" LOWER SINKER BAR SWIVEL

CM101-100-L 2-1/8" SINKER BAR SWIVEL ASSEMBLY

1. CM71-313 SLOTTED SPRING PIN
2. CM101-302 BOTTOM SUB
3. CM101-307 CANNED WIPER
4. CN101-306 BEARING RACE (4 REQUIRED)
5. CM101-309 BALL BEARING (2 REQUIRED)
6. CM101-301 BODY
7. CM101-303 BEARING PIN
8. CM101-304 UPPER SUB
9. CM71-314 GREASE FITTING

NOTE:
1. SWL = 25,000 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
CM97-500  1-11/16" WIRELINE STRIPPING ASSEMBLY

1. CM12-104U - UPPER ROPE SOCKET
2. CM98-100 - SINKER BAR SWIVEL (2 REQUIRED)
3. CM93-100 - KNUCKLE JOINT (2 REQUIRED)
4. CM97-302 - ADAPTER (2 REQUIRED)
5. CM97-100 - FLEXIBLE SINKER BAR
6. CM76-100 - OVERSHOT
7. CM76-310 - 2-1/8" OVERSIZED GUIDE
8. CM76-311 - 2-3/4" OVERSIZED GUIDE
9. CM12-305 - SPEARHEAD SUB
10. CM12-321 - 4-1/2” I.F. HANG OFF PLATE (SEE NOTE 1.)
11. CM12-102L - LOWER ROPE SOCKET
12. PULL TEST AND CERTIFY

NOTES:
1. OTHER SIZES AVAILABLE
2. SWL = 17,500 LBS
3. SF = 3
4. MATERIAL CERTS PROVIDED
5. MPI CERTS PROVIDED
6. PULL TEST CERTS PROVIDED
1-11/16" UPPER ROPE SOCKET

CM12-104-U 1-11/16" UPPER ROPE SOCKET ASSEMBLY

1. CM12-301 NOSE CONE
2. CM12-304 ROPE SOCKET BODY
3. CM12-313 (17/32" WIRE)(STD.) (RANGE .470-.531)
   CM12-309 (15/32" WIRE)(OPTIONAL) (RANGE .392-.468)
   CM12-311 (3/8" WIRE) (OPTIONAL) (RANGE .325-.392)
   CM12-312 (5/16" WIRE) (OPTIONAL) (RANGE .270-.315)
4. JAW ASSEMBLY (INCLUDED IN SLIP ASSEMBLY)
5. JAW ASSEMBLY SPRING (INCLUDED IN SLIP ASSEMBLY)
6. CM12-306 UPPER CROSSOVER SUB
7. CM12-324 UPPER CROSSOVER SUB W/BOX (OPTIONAL)

NOTE:
1. MATERIAL CERTS PROVIDED
2. MPI CERTS PROVIDED
1-11/16" SINKER BAR SWIVEL

CM98-100 1-11/16" SINKER BAR SWIVEL ASSEMBLY

1. CM98-307 SLOTTED SPRING PIN
2. CM98-302 BOTTOM SUB
3. CM98-305 BEARING RACE (4 REQUIRED)
4. CN98-301 BODY
5. CM98-306 BALL BEARING (2 REQUIRED)
6. CM98-303 BEARING PIN
7. CM98-304 UPPER SUB
8. CM98-309 GREASE FITTING
9. CM98-308 SET SCREW (INSTALL AFTER GREASING)

NOTE:
1. SWL = 17,500
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
1-11/16" KNUCKLE JOINT

CM93-100 1-11/16" KNUCKLE JOINT ASSEMBLY
1. CM93-305 SLOTTED SPRING PIN
2. CM93-302 BOTTOM SUB
3. CM93-301 BODY
4. CN93-303 KNUCKLE PIN
5. CM93-304 UPPER SUB
6. CM93-307 GREASE FITTING
7. CM93-306 SET SCREW (INSTALL AFTER GREASING)

NOTE:
1. SWL = 17,500 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
1-11/16" SINKER BAR ADAPTER

1. CM97-302 ADAPTER
NOTE:
* CUSTOM LENGTHS AVAILABLE UPON REQUEST
1. ASSEMBLY REQUIRES TWO CRIMPED SOCKETS
   CM97-301 $566.00 EA. NEW CRIMPED SOCKET
   INSTALLATION AVAILABLE.
2. PULL TEST CERTS PROVIDED
3. SWL = 17,500 LBS.
4. SF = 3
5. MATERIAL CERTS PROVIDED
6. MPI CERTS PROVIDED
1-11/16" OVERSHOT

CM76-100 1-11/16" OVERSHOT ASSEMBLY
1. CM76-312 TEFLO Lock Nut
2. CM76-313 WASHER
3. CM76-304 RELEASE SPRING
4. CM76-301 OVERSHOT BODY
5. CM76-306 STOP PIN
6. CM76-305 PIVOT PIN
7. CM76-303 RELEASE ARM
8. CM76-307 LATCH SPRING
9. CM76-302 OVERSHOT JAW (SET OF 2)

NOTE:
1. SWL = 17,500 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED

PAGE C7
OVERSIZE GUIDE FOR 1-11/16" OVERSHOT

CM76-310  1-11/16" OVERSIZED GUIDE (2-1/8" O.D.)
1. CM76-311  1-11/16" OVERSIZED GUIDE (2-3/4" O.D.)
2. CM76-315  1-11/16" OVERSIZED GUIDE PIN

NOTE:
1. MATERIAL CERTS PROVIDED
2. MPI CERTS PROVIDED
1-11/16" SPEAR HEAD SUB

NOTE:
1. SWL = 17,500 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
2-1/8" & 1-11/16" C-PLATES

CM12-318  2-7/8" I. F. C-PLATE
CM12-319  3-1/2" I. F. C-PLATE
CM12-320  4" F.H. C-PLATE
CM12-321  4-1/2" I. F. C-PLATE
CM12-322  4-1/2" X H. C-PLATE
CM12-323  HT55,XT57,5-1/2" F.H. C-PLATE
CM12-325  2-7/8" P.A.C. C-PLATE
CM12-327  2-3/8" I. F. C-PLATE
CM12-328  6-5/8" F.H. C-PLATE

NOTE:
1. MATERIAL CERTS PROVIDED
1-11/16" LOWER ROPE SOCKET

CM12-102-L 1-11/16" LOWER ROPE SOCKET ASSEMBLY

1. CM12-301 NOSE CONE
2. CM12-304 ROPE SOCKET BODY
3. CM12-313 (17/32" WIRE) (STANDARD) (RANGE .470-.531)
   CM12-311 (3/8" WIRE) (OPTIONAL) (RANGE .325-.392)
   CM12-312 (5/16" WIRE) (OPTIONAL) (RANGE .270-.315)
   CM12-309 (15/32" WIRE) (OPTIONAL) (RANGE .392-.468)
4. JAW ASSEMBLY (INCLUDED IN SLIP ASSEMBLY)
5. JAW ASSEMBLY SPRING (INCLUDED IN SLIP ASSEMBLY)
6. CM12-302 LOWER CROSSOVER SUB

CM12-309 (15/32" WIRE) (OPTIONAL) (RANGE .392-.468)
3. CM12-313 (17/32" WIRE) (STANDARD) (RANGE .470-.531)

NOTE:
1. MATERIAL CERTS PROVIDED
CM45-500 1-3/8" WIRELINE STRIPPING ASSEMBLY

1. CM49-101U - UPPER ROPE SOCKET
2. CM47-100 - SINKER BAR SWIVEL (2 REQUIRED)
3. CM92-100 - KNUCKLE JOINT (2 REQUIRED)
4. CM45-302 - ADAPTER (2 REQUIRED)
5. CM45-100 - FLEXIBLE SINKER BAR
6. CM48-100 - OVERSHOT
7. CM48-308 - SPEAR HEAD SUB
8. CM48-321 - 4-1/2" I.F. HANG OFF PLATE (SEE NOTE 1.)
9. CM49-101L - LOWER ROPE SOCKET
10. PULL TEST AND CERTIFY

NOTES:
1. OTHER SIZES AVAILABLE
2. SWL = 12,500 LBS
3. SF = 3
4. MATERIAL CERTS PROVIDED
5. MPI CERTS PROVIDED
6. PULL TEST CERTS PROVIDED
1-3/8" UPPER ROPE SOCKET

CM49-101-U 1-3/8" UPPER ROPE SOCKET ASSEMBLY

1. CM49-302 NOSE CONE
2. CM49-306 ROPE SOCKET BODY
3. CM49-307 (17/32" WIRE) SLIP ASSEMBLY (STD) (RANGE .470-.531)
   CM49-308 (15/32" WIRE) SLIP ASSEMBLY (OPT) (RANGE .392-.468)
4. JAW ASSEMBLY (INCLUDED IN SLIP ASSEMBLY)
5. JAW ASSEMBLY SPRING (INCLUDED IN SLIP ASSEMBLY)
6. CM49-303 UPPER CROSSOVER SUB

NOTE:
1. MATERIAL CERTS PROVIDED
CM47-100 1-3/8" SINKER BAR SWIVEL ASSEMBLY

1. CM47-307 SLOTTED SPRING PIN
2. CM47-302 BOTTOM SUB
3. CM47-305 BEARING RACE (4 REQUIRED)
4. CM47-301 BODY
5. CM47-306 BALL BEARING (2 REQUIRED)
6. CM47-303 BEARING PIN
7. CM47-304 UPPER SUB
8. CM47-309 GREASE FITTING
9. CM47-308 SET SCREW (INSTALL AFTER GREASING)

NOTE:
1. SWL = 12,500 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
1-3/8" KNUCKLE JOINT

CM92-100 1-3/8" KNUCKLE JOINT ASSEMBLY

1. CM92-305 SLOTTED SPRING PIN
2. CM92-302 BOTTOM SUB
3. CM92-301 BODY
4. CM92-303 KNUCKLE PIN
5. CM92-304 UPPER SUB
6. CM92-307 GREASE FITTING
7. CM92-306 SET SCREW (INSTALL AFTER GREASING)

NOTE:
1. SWL = 12,500 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
1-3/8" SINKER BAR ADAPTER

NOTE:
1. SWL = 12,500
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
1-3/8" FLEXIBLE SINKER BAR

CM45-100 1-3/8" FLEXIBLE SINKER BAR ASSEMBLY, 24" STD. *

NOTE:
* CUSTOM LENGTHS AVAILABLE UPON REQUEST
1. ASSEMBLY REQUIRES TWO CRIMP SOCKETS CM45-301.
   NEW CRIMPED SOCKET INSTALLATION AVAILABLE
2. PULL TEST CERTS PROVIDED
3. SWL = 12,500 LBS.
4. SF = 3
5. MPI CERTS PROVIDED
1-3/8" OVERSHOT

CM48-100 1-3/8" OVERSHOT ASSEMBLY
1. CM48-310 TEFLO LOCK NUT
2. CM48-311 WASHER
3. CM48-304 RELEASE SPRING
4. CM48-301 OVERSHOT BODY
5. CM48-306 STOP PIN
6. CM48-305 PIVOT PIN
7. CM48-303 RELEASE ARM
8. CM48-307 LATCH SPRING
9. CM48-302 OVERSHOT JAW (SET OF 2)

NOTE:
1. SWL = 12,500 LBS.
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED

PAGE D7
1-3/8" SPEARHEAD SUB

NOTE:
1. SWL = 12,500
2. SF = 3
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
1-3/8" C-PLATE

CM49-318  2-7/8" I. F. C-PLATE
CM49-319  3-1/2" I. F. C-PLATE
CM49-320  4" F. H. C-PLATE
CM49-321  4-1/2" I. F. C-PLATE
CM49-322  4-1/2" X H. C-PLATE
CM49-323  HT55,XT57,5-1/2" F.H. C-PLATE
CM49-325  2-7/8" P.A.C. C-PLATE
CM49-327  2-3/8" I. F. C-PLATE
CM49-328  8-5/8" F.H. C-PLATE

NOTE:
1. MATERIAL CERTS PROVIDED
1-3/8" LOWER ROPE SOCKET

CM49-101-L  1-3/8" LOWER ROPE SOCKET ASSEMBLY

1. CM49-302 NOSE CONE
2. CM49-306 ROPE SOCKET BODY
3. CM49-307(17/32" WIRE) SLIP ASSEMBLY (RANGE .470-.531)
   CM49-308(15/32" WIRE) SLIP ASSEMBLY (RANGE .392-.468)
4. JAW ASSEMBLY (INCLUDED IN SLIP ASSEMBLY)
5. JAW ASSEMBLY SPRING (INCLUDED IN SLIP ASSEMBLY)
6. CM49-309 LOWER CROSSOVER SUB

NOTE:
1. MATERIAL CERTS PROVIDED
# CIRCULATING SUBS

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<td>2. CM30-301</td>
<td>3. CM30-303</td>
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NOTE:

Fig. 1 illustrates the special insert and hang off sub configuration. Fig. 2 illustrates the standard insert and hang off sub configuration. The special insert and hang off sub were designed and built for special circumstances which involved the safety or TIW valve having had the pin connection recut, causing the distance to the ball valve to be shortened, and the spearhead obstructing the closing of the valve.
## BILL OF MATERIALS

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### STANDARD 4-11/16" SERIES 150 DOWNHOLE STRIPPING KIT

CM206-1000
**BILL OF MATERIALS**

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<td>CMA7029/116</td>
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**STANDARD 5-9/16" SERIES 150 DOWNHOLE STRIPPING KIT**

CM207-1000
# Crossover Subs

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**NOTE:**
1. MATERIAL CERTS PROVIDED
## PUMP OUT SUBS

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</table>

![Diagram of pump out subs](image-url)

*PAGE G4*
SERIES 150 OVERSHOT TOP SUBS

1. CM206-301  4-11/16" SERIES 150 OVERSHOT TOP SUB W/ 2-1/4" NOGO I.D. X 3-1/2" IF BOX
2. CM207-301  5-9/16" SERIES 150 OVERSHOT TOP SUB W/ 2-1/4" NOGO I.D. X 3-1/2" IF BOX
1. CM206-305 4-11/16" SERIES 150 OVERSHOT EXTENSION 36" LONG
2. CM207-305 5-9/16" SERIES 150 OVERSHOT EXTENSION 36" LONG
1. CMA2019 4-11/16" SERIES 150 OVERSHOT BOWL
2. CMA4019 3-3/8" TYPE A PACKER
   CMA4019-116 3-5/8" TYPE A PACKER
3. CMA5019/108 STD. SPIRAL GRAPPLE
   CMA5019NIT/108 3-3/8" NIT. SPIRAL GRAPPLE
   CMA5019/116 3-5/8" STD. SPIRAL GRAPPLE
   CMA5019NIT/116 3-5/8" NIT. SPIRAL GRAPPLE
   CMA6019 SPIRAL GRAPPLE CONTROL
5-9/16" SERIES 150 OVERSHOT ASSY.

1. CMA2029 5-9/16" SERIES 150 OVERSHOT BOWL
2. CMA7029/108 3-3/8" STD. BASKET GRAPPLE
   CMA7029/108 3-3/8" NIT. BASKET GRAPPLE
   CMA7029/116 3-5/8" STD. BASKET GRAPPLE
   CMA7029/116 3-5/8" NIT. BASKET GRAPPLE
3. CMA9029/108 3-3/8" PLAIN CONTROL PACKER
   CMA9029/116 3-5/8" PLAIN CONTROL PACKER
SERIES 150 OVERSHOT GUIDES

1. CM206-302 4-11/16" OS FLUSH GUIDE
2. CM206-303 4-11/16" OS 5-1/2" O.D. BELL GUIDE
3. CM206-304 4-11/16" OS 8" O.D. BELL GUIDE
4. CM207-302 5-9/16" OS FLUSH GUIDE
5. CM207-303 5-9/16" OS 6" O.D. BELL GUIDE
6. CM207-304 5-9/16" OS 8" O.D. BELL GUIDE
25K C-PLATE CLAMP

CM116-100 - 25K WIRE CLAMP ASSEMBLY
1. CM116-300 - 25K CLAMP BODY $2210.72
2. CM116-305 - 25K TIE DOWN BAR $720.00
3. CM01-318 - BOLT HINGE (4 REQUIRED) $333.24
4. CM01-312 - 1/2"-20 GRADE 8 BOLT (4 REQUIRED) $94.00
5. CM01-313 - GRADE 8 FLAT WASHER (4 REQUIRED) $3.00
6. CM116-306 - BODY BOLTS (2 REQUIRED) $1.65
7. CM114-308 - C-PLATE (DIAMETERS OPTIONAL) $25.00
8. CM116-307 - LINER (SET) $275.00
9. CM01-315 - 6-32 S.S. FLAT HEAD SCREW (4 REQUIRED) $95.00
10. CM114-309 - 3/8"-16 x 1-1/4" SOCKET HEAD CAP SCREWS (2 REQUIRED) $7.20
11. CM116-308 - 7/8" SHACKLE $5.00
12. PULL TEST CERTIFY $80.00

NOTES:
1. SWL = 12,500 LBS $250.00
2. SF = 2 $250.00
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED
30K C-PLATE CLAMP

CM115-100 - 25K WIRE CLAMP ASSEMBLY $2666.22
1. CM115-300 - 30K CLAMP BODY $850.00
2. CM115-305 - 30K TIE DOWN BAR $435.24
3. CM01-318 - BOLT HINGE (6 REQUIRED) $94.00
4. CM01-312 - 1/2"-20 GRADE 8 BOLT (6 REQUIRED) $3.00
5. CM01-313 - GRADE 8 FLAT WASHER (6 REQUIRED) $1.65
6. CM115-306 - BODY BOLTS (2 REQUIRED) $25.00
7. CM114-308 - C-PLATE (DIAMETERS OPTIONAL) $275.00
8. CM115-307 - LINER (SET) $105.00
9. CM01-315 - 6-32 S.S. FLAT HEAD SCREW (6 REQUIRED) $.72
10. CM114-309 - 3/8"-16 X 1-1/4" SOCKET HEAD CAP SCREWS (2 REQUIRED) $5.00
11. CM115-308 - 1" SHACKLE $95.00
12. PULL TEST CERTIFY $250.00

NOTES:
1. SWL = 12,500 LBS
2. SF = 2
3. MATERIAL CERTS PROVIDED
4. MPI CERTS PROVIDED
5. PULL TEST CERTS PROVIDED