

M760 TOWER CRANES ERECTION

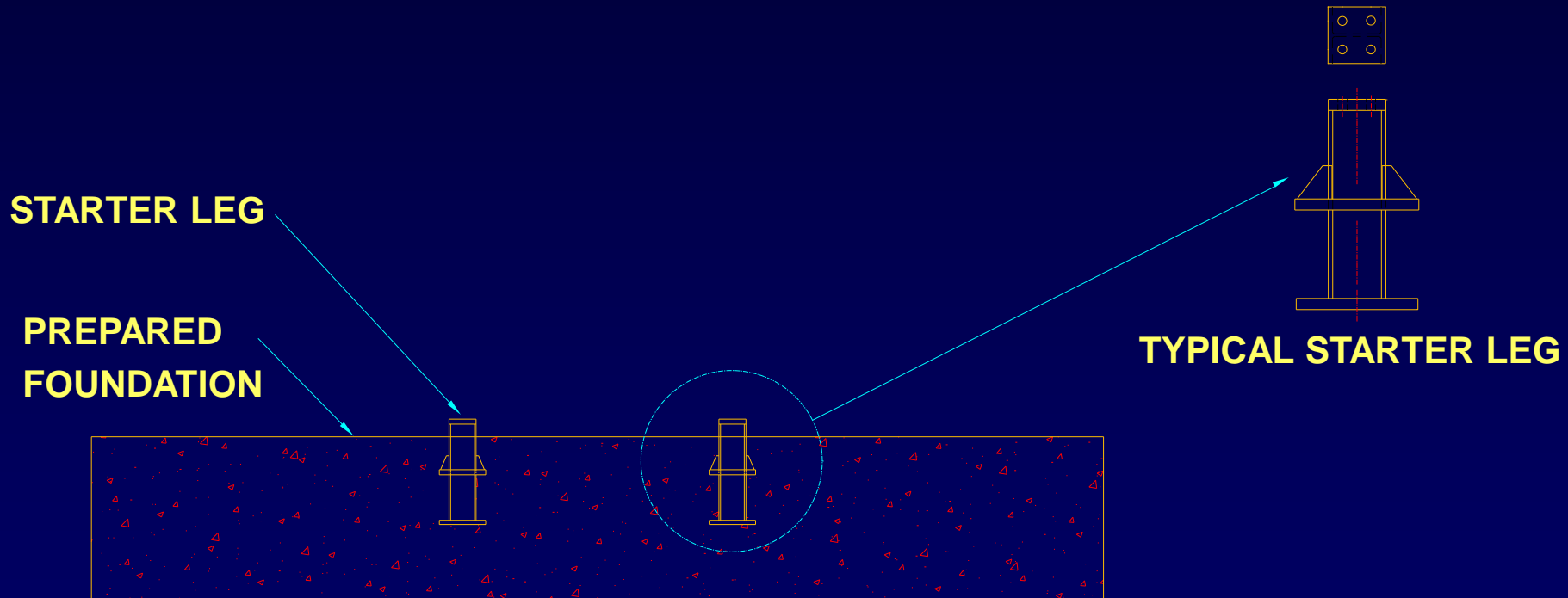
Presented By:

FAVELLE FAVCO CRANES (USA) INC.

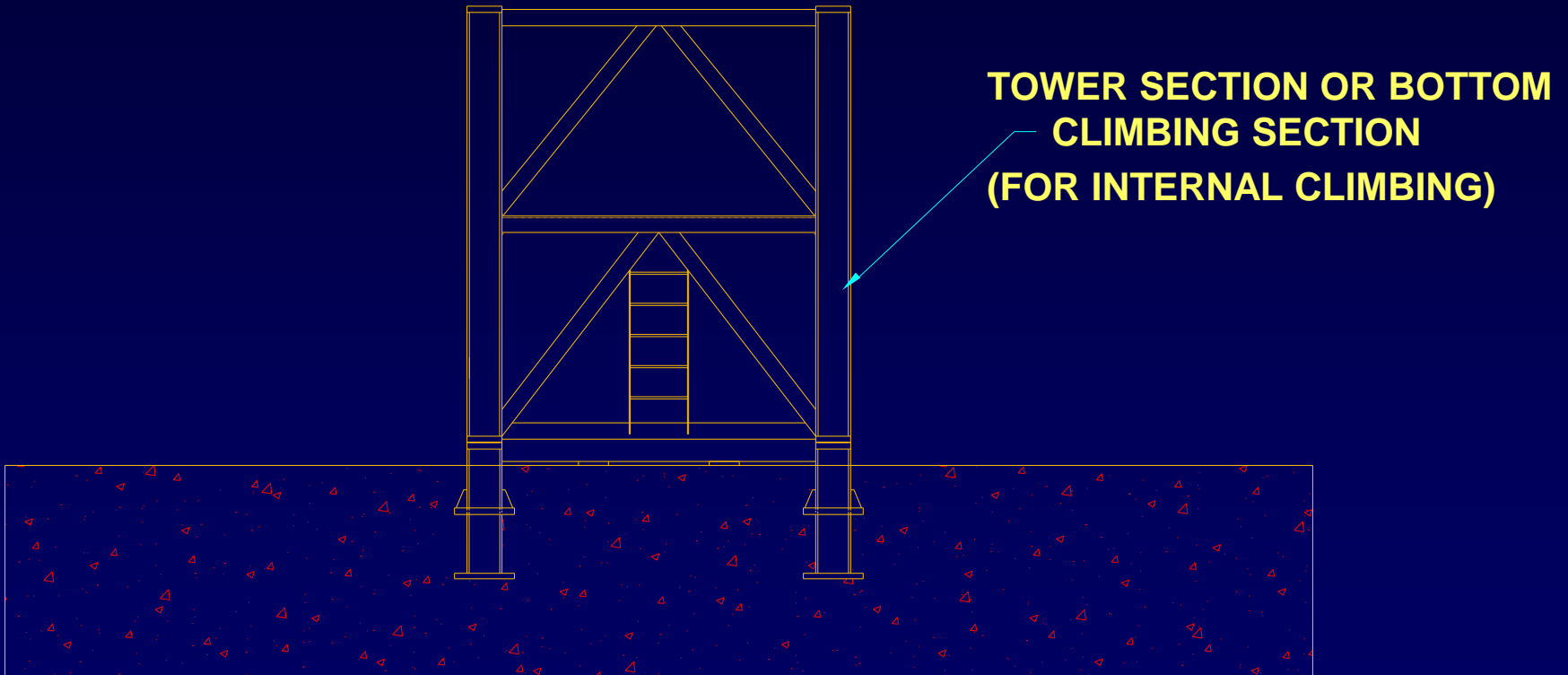
2006



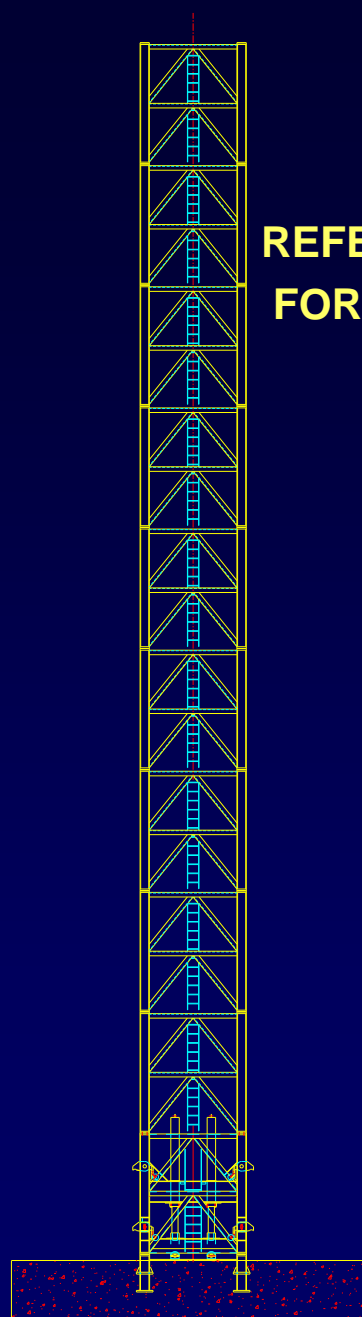
OPERATING PROCEDURES



STEP 1: Starter Legs casted into prepared foundation.



STEP 2: Bottom Climbing section connected to starter legs.



**REFER TO MANUFACTURER
FOR TOWER HEIGHT**

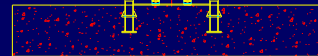
STEP 3: Tower put up to the required height

MACHINERY DECK BACK
8,650 kg (19,070 LB)

CONTROL CABIN & SUPPORT
1,434 kg (3,161 lb)

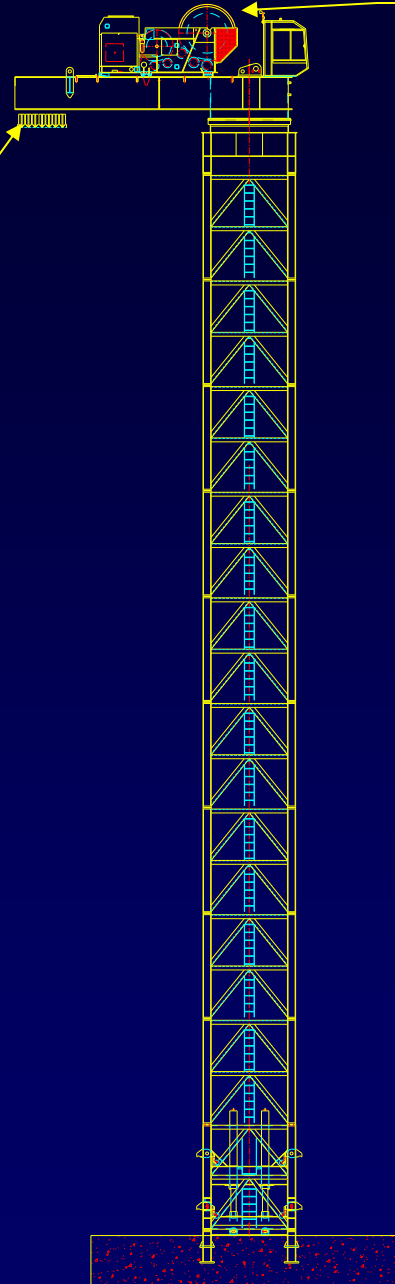
**MACHINERY DECK FRONT,
SLEW RING & SLEW DRIVE**
10,200 kg (22,487 lb)

SLEW MOUNT
5,310 kg (11,706 lb)



STEP 4: Installation of the crane upper section

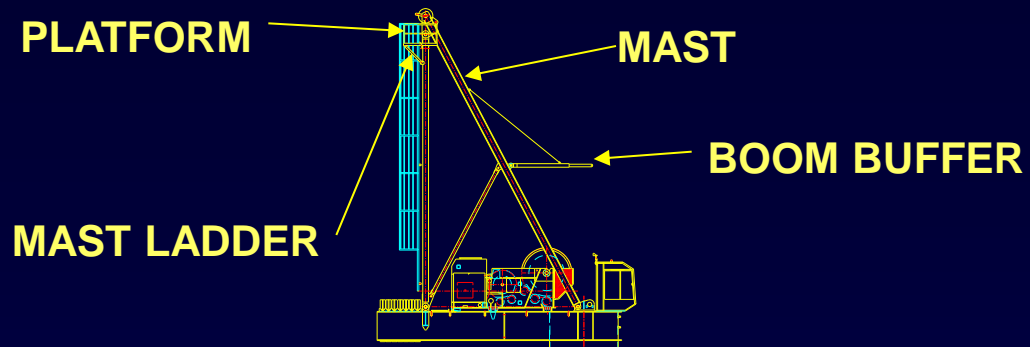
COUNTERWEIGHTS
65,000 kg (143,300 lb)



1). WINCH & POWERPACK
24,495 kg (54,000 lb)

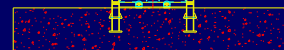
FLY WINCH ASSEMBLY
5,019 kg (11,064 lb)

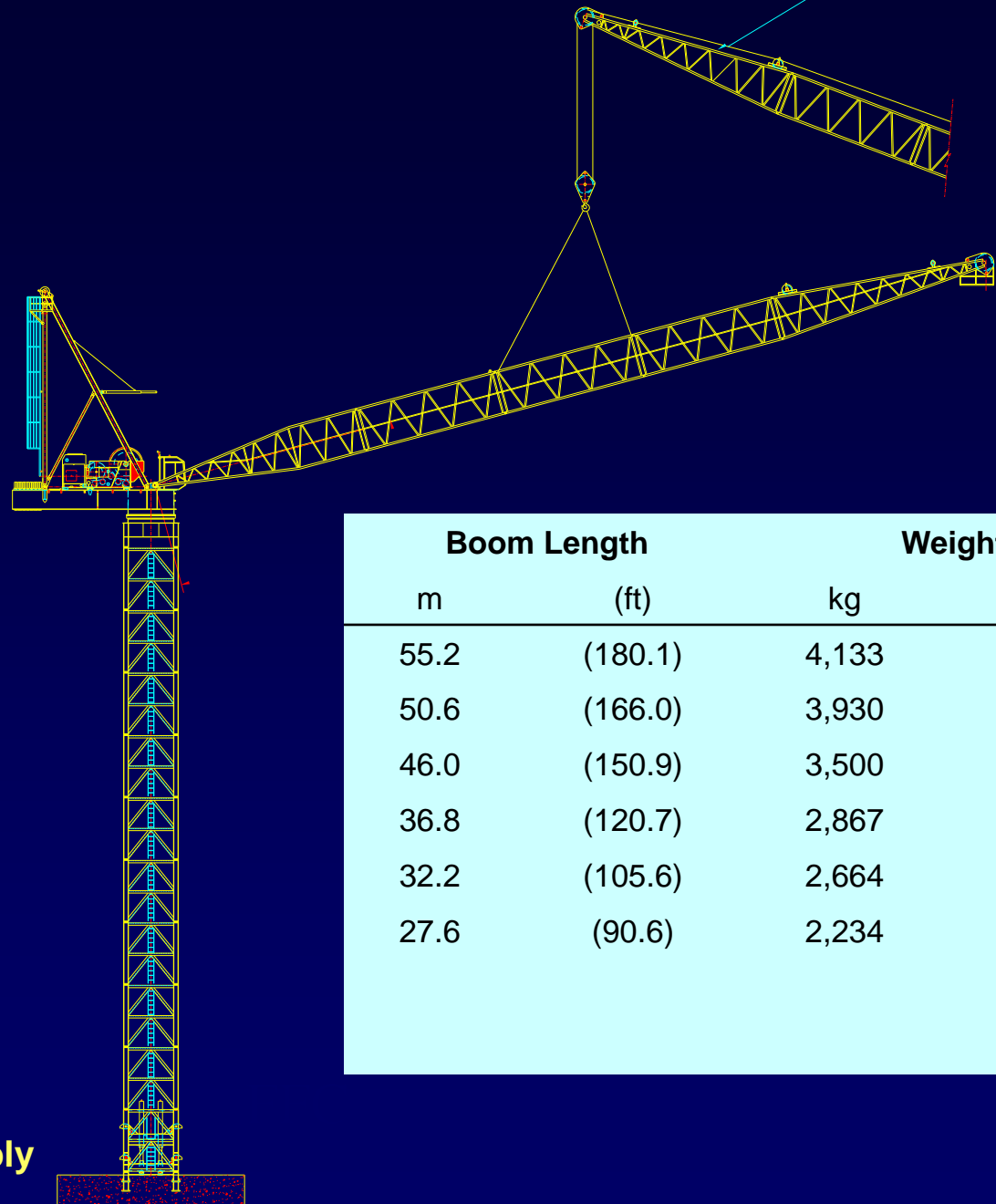
STEP 5: Assemble Winch, Powerpack & Counterweights



MAST ASSEMBLY
Total Weight
8,842 kg (19,493 lb)

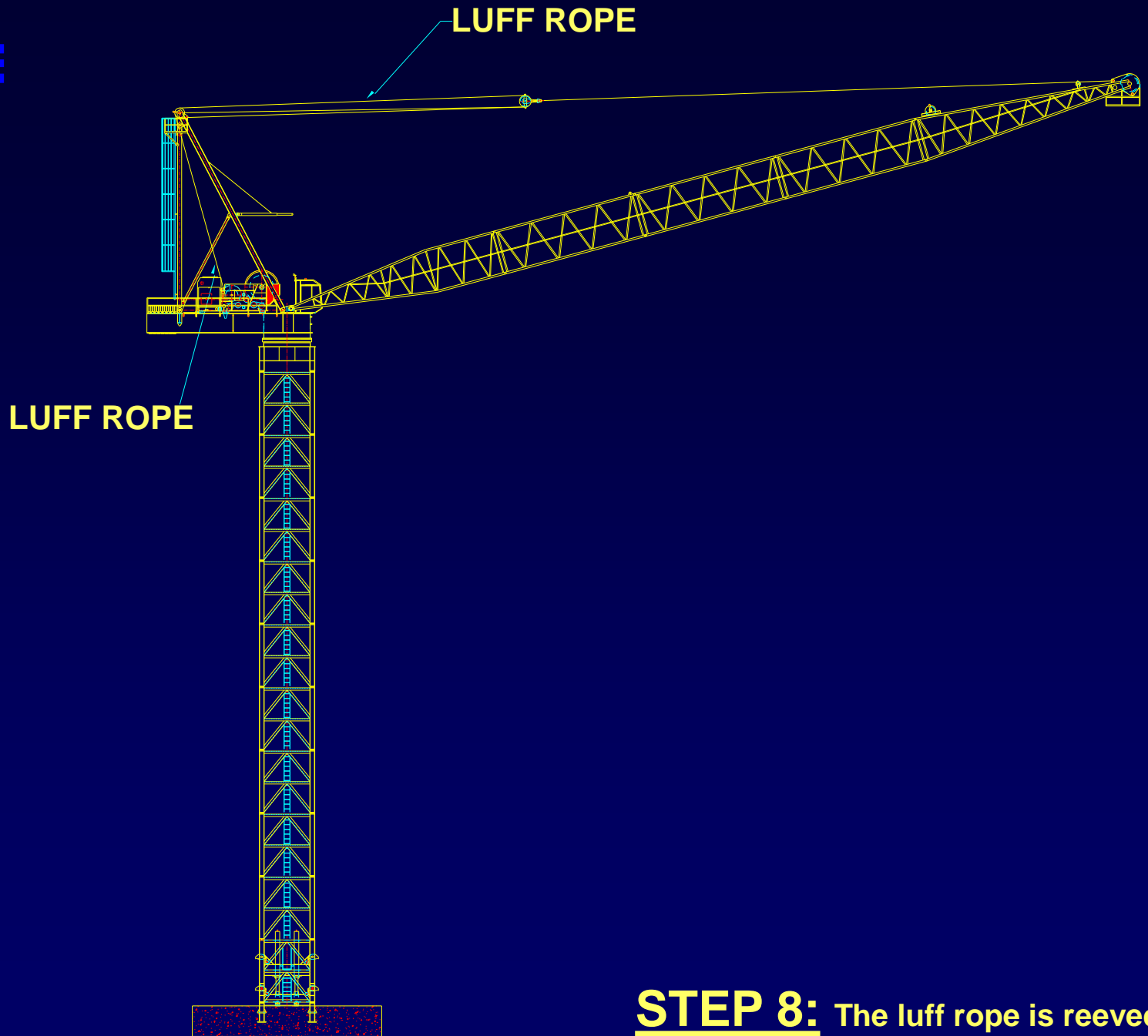
STEP 6: Assembly of the Mast



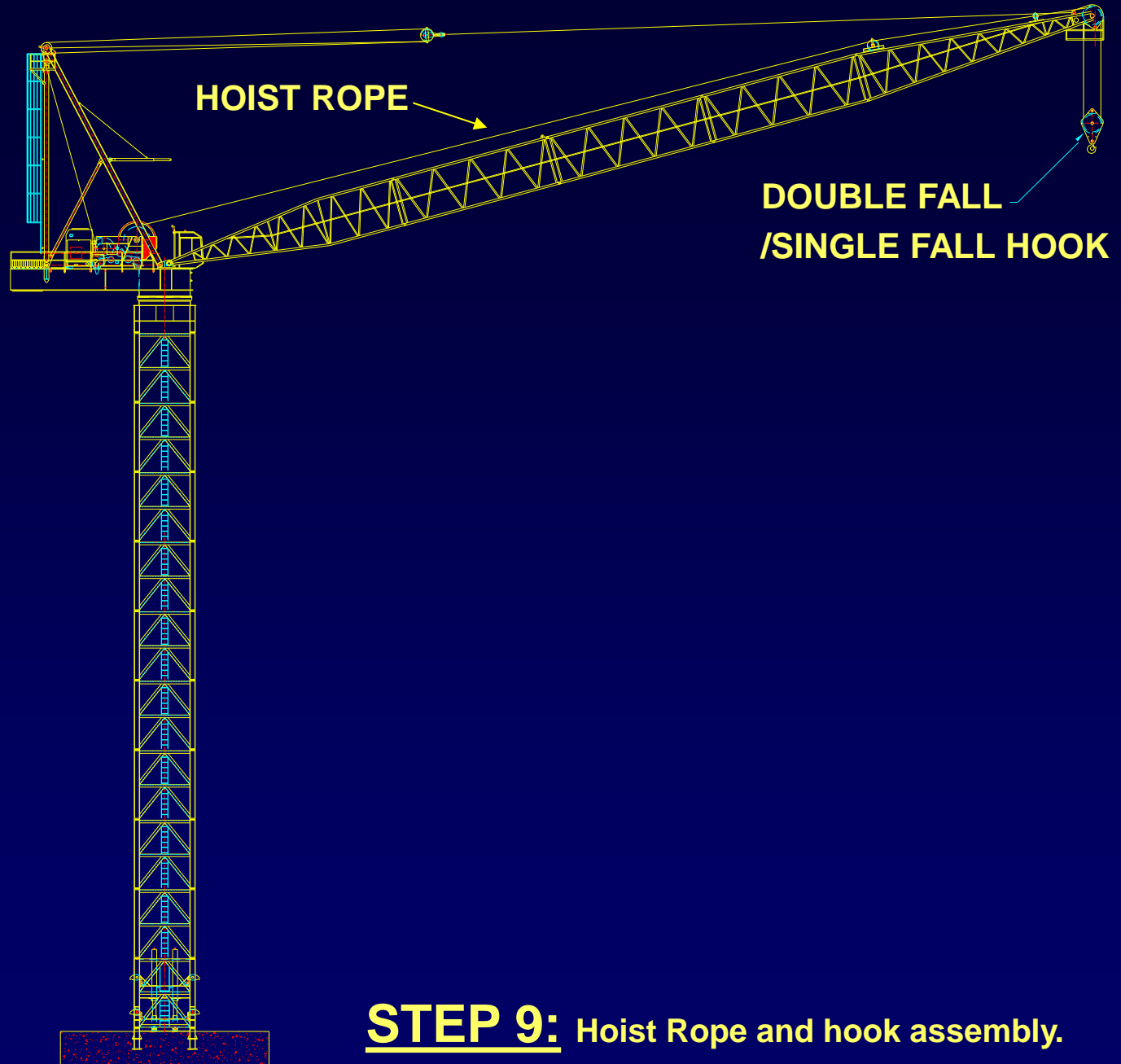


Boom Length		Weight	
m	(ft)	kg	(lb)
55.2	(180.1)	4,133	(9,109)
50.6	(166.0)	3,930	(8,662)
46.0	(150.9)	3,500	(7,714)
36.8	(120.7)	2,867	(6,319)
32.2	(105.6)	2,664	(5,871)
27.6	(90.6)	2,234	(4,924)

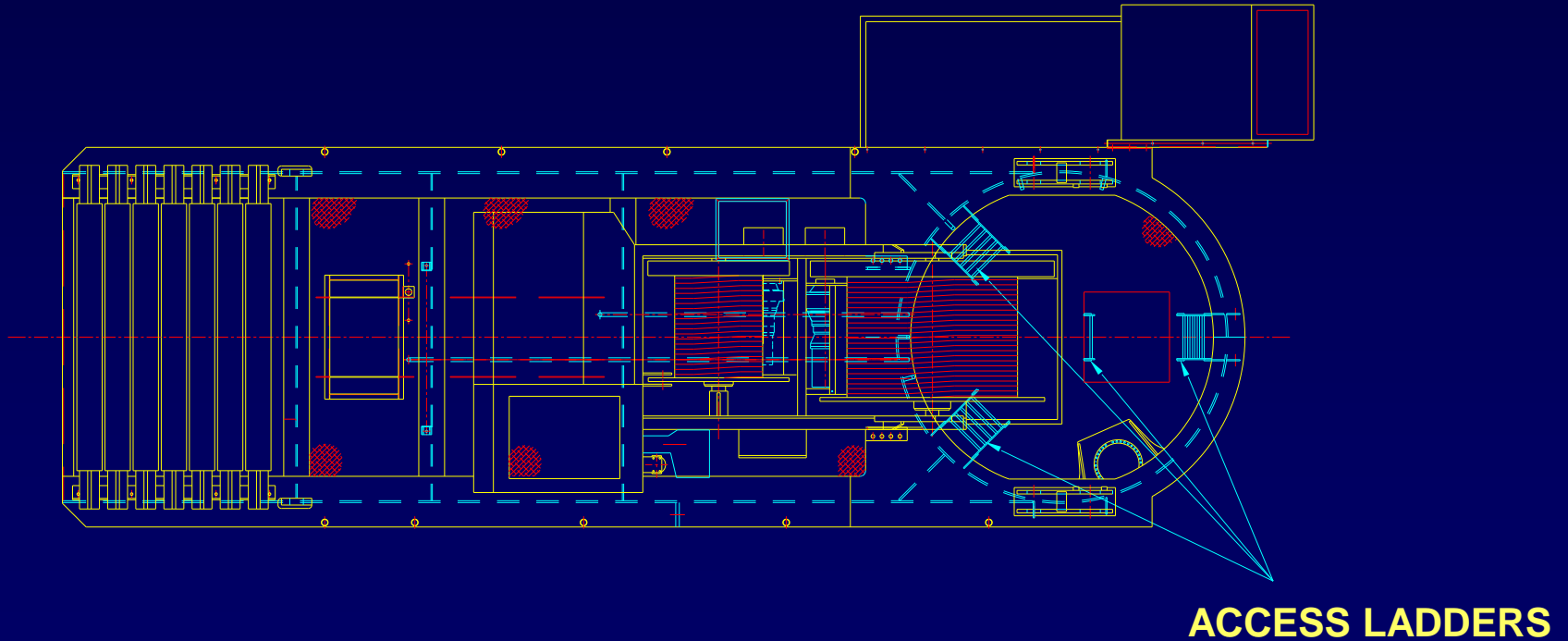
STEP 7: Boom Assembly



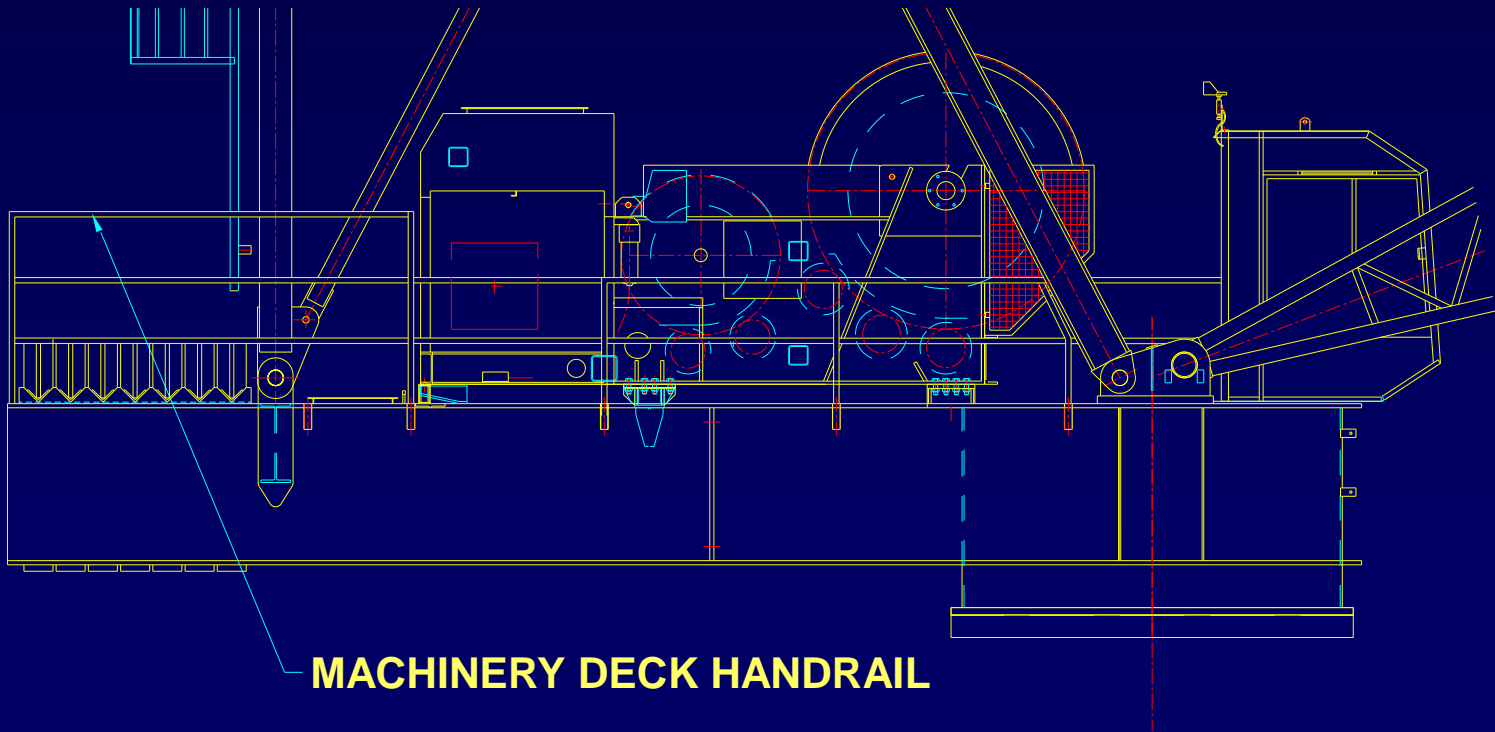
STEP 8: The luff rope is reeved



STEP 10: Access Ladders Assembly

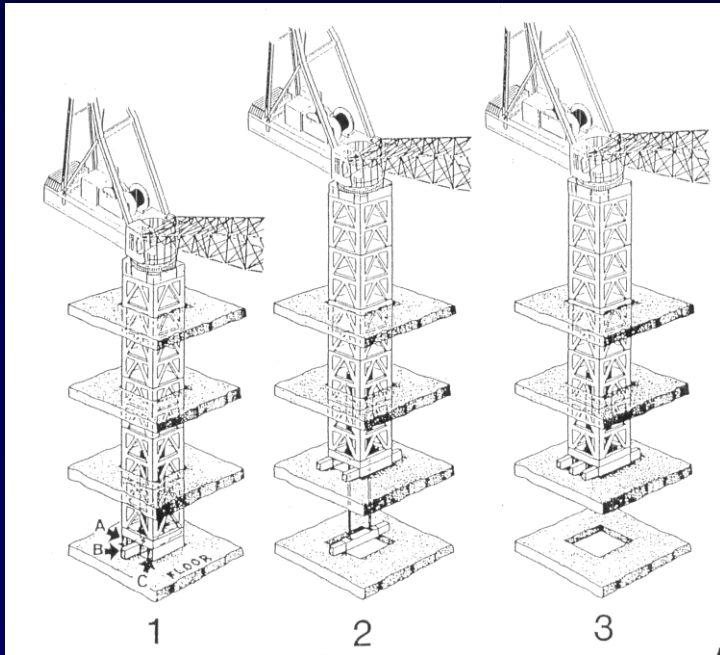


STEP 11: Machinery Deck Handrail Assembly



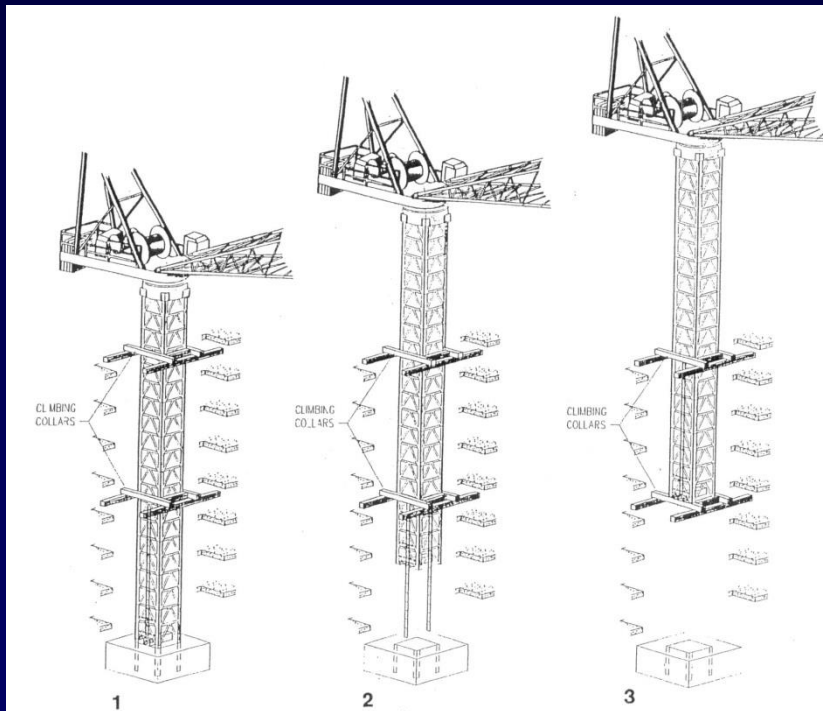
Internal Climbing 3-Beam

CLIMBING



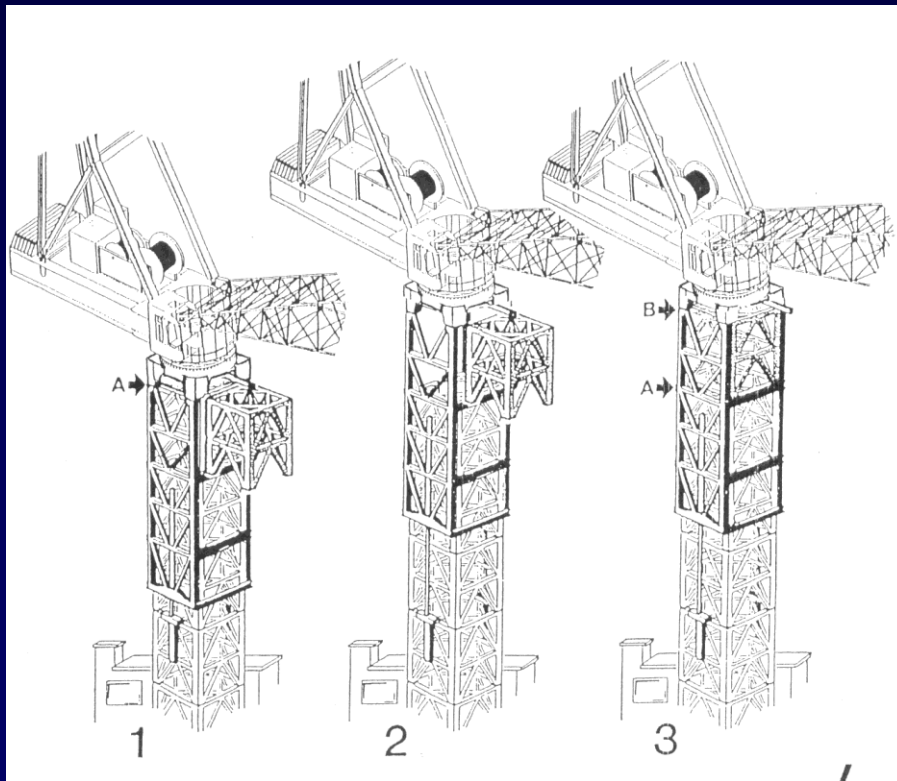
1. Telescopic Internal Sections of beam B are extended at both ends and are supported on the building. The telescopic sections of beams A and C are retracted.
2. Crane, tower and climbing frame, to which beams A and C are attached, are lifted by hydraulic rams.
3. Telescopic sections of beams A and C are extended to support the crane. Telescopic sections of beam B are retracted. Hydraulic cylinders lift beam B to the level of beams A and C. Telescopic sections of beam B are extended.
4. Telescopic Internal Sections of beam B are extended at both ends and are supported on the building. The telescopic sections of beams A and C are retracted.
5. Crane, tower and climbing frame, to which beams A and C are attached, are lifted by hydraulic rams.
6. Telescopic sections of beams A and C are extended to support the crane. Telescopic sections of beam B are retracted. Hydraulic cylinders lift beam B to the level of beams A and C. Telescopic sections of beam B are extended.

Internal Ladder Climbing



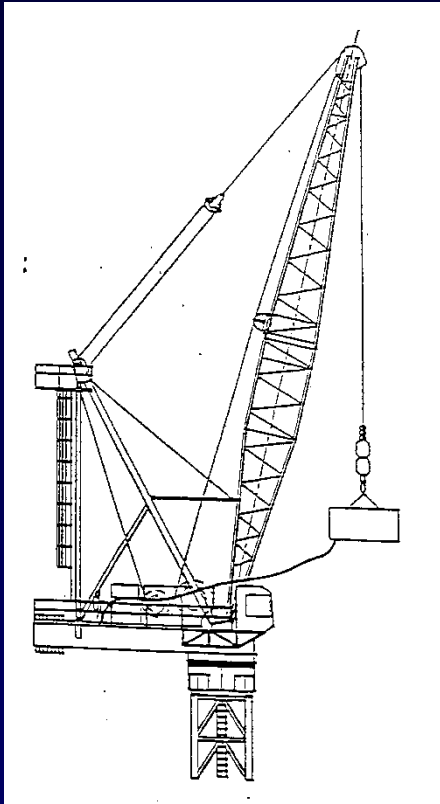
1. Install climbing collars and ladder. Balance the crane upper, remove the base bolts and raise the crane, using hydraulic rams, allowing the climbing supports to skid past and then rest on a ladder rung. Climb the ladder in this manner.
2. Climb through the first collar allow the crane supports to rest on the collar. Engage collar chocks to support the crane laterally.
3. Move the ladder to the second collar and install a third collar.

External Climbing Frame



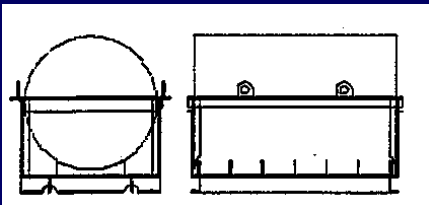
1. Crane lifts additional tower section and suspends it from extendable monorail. Bolts of top tower section are removed at A.
2. Hydraulic ram lifts top section of crane and climbing frame.
3. Additional tower section is drawn into the climbing frame and bolted at B and A
4. To climb down, the reverse procedure is followed.

Refuelling



1. There are quite a few different procedures to refuel the crane. The suggested procedure is as described below: Hoist the fuel tank up until it is just above the cabin or higher to attain an appropriate fluid head to allow the fuel to flow.
2. Luff in the boom until the refueling hose is close to the machinery deck so that the hose can be reached and obtained by the maintenance personnel.
3. The hose is then inserted into the filler breather opening, and the fuel is allowed to flow into the tank. Check dipstick for tank level or level gauge if fitted.
4. Reverse steps 1 – 3 to lower the empty refueling tank into the ground.

Fuel Tank Support (Optional)



Standard fuel tank support is available from the manufacturer.



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