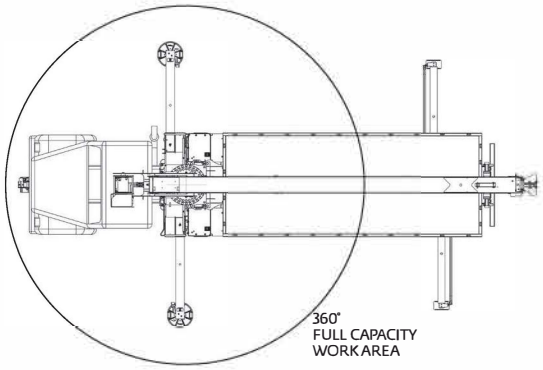
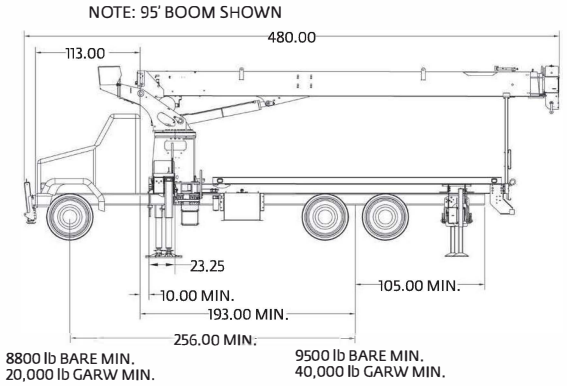
STERLING CRANE

Mounting configuration





The mounting configuration is based on an 85% stability factor. If the bare truck weight requirements are not met, counterweight will be required. The complete unit must be installed on the truck in accordance with factory requirements. Since individual truck chassis vary, a test must be performed on the unit to verify actual stability after mounting and counter-weighting (if required). A summary of mounting and truck requirements are:

For 180 degree working area –

Gross Axle Weight Rating Front (GAWR) – 9072 kg (20,000 lb)
Gross Axle Weight Rating Rear (GAWR) – 18 144 kg (40,000 lb)
Gross Vehicle Weight Rating (GVW) – 27 216 kg (60,000 lb)
Wheelbase (WB) – 6,50 m (256 in)
Cab to Axle Trunnion (CT) – 4,90 m (193 in)
After Frame (AF) – 2,67 m (105 in) min.
Frame Section Modulus (SM) from outrigger to RSOD – 327cm³ (20 in³) and 759 MPa (110,000 psi) material
Bare chassis weight required for stability prior to installation
Front – 3992 kg (8880 lb)
Rear – 4309 kg (9500 lb)

For 360 degree working area –

Optional Single Front Stabilizer (SFO)
Gross Axle Weight Rating Front (GAWR) – 9072 kg (20,000 lb)
Gross Axle Weight Rating Rear (GAWR) – 18 144 kg (40,000 lb)
Gross Vehicle Weight Rating (GVW) – 27 216 kg (60,000 lb)
Wheelbase (WB) – 6,50 m (256 in)
Cab to Axle Trunnion (CT) – 4,90 m (193 in)
After Frame (AF) – 2,67 m (105 in) min.
Frame Section Modulus (SM) from front spring hanger to end of after frame – 327cm³ (20 in³) and 759 MPa (110,000 psi) material
Bare chassis weight required for stability prior to installation
Front – 3992 kg (8800 lb)
Rear – 4309 kg (9500 lb)

Note: Chassis will require extended front frame rails for SFO addition.

For 360° stability the truck frame must have a 327 cm³ (20.0 in³) section modulus [248,566 N.m (2,200,000 in-lb) RBM] minimum under the crane frame, 245 cm³ (15 in³) section modulus [186,424 N.m (1,650,000 in-lb) RBM] at the front spring rear hanger, 163 cm³ (10 in³) section modulus [124,283 N.m (1,100,000 in-lb) RBM] through the front spring and 49 cm³ (3 in³) section modulus [37,284 N.m (330,000 in-lb) RBM] at the stabilizer attachment point on each truck frame rail.

NOTE 1: Gross Vehicle Weight Rating (GVWR) is dependent on all components of the vehicle (axles, tires, springs, fame, etc.) meeting manufacturers' recommendations; always specify GVWR when purchasing trucks.

NOTE 2: Diesel engines require a variable speed governor and energize-to-run fuel solenoid for smooth crane operation; electronic fuel injection is required.

NOTE 3: All mounting data is based on a National Crane Series 900H with subbase and an 85% stability factor.

NOTE 4: The complete unit must be installed in accordance with factory requirements, and a test performed to determine actual stability and counterweight requirements; contact the factory for details.

NOTE 5: Transmission neutral safety interlock switch is required. Truck transmission must be capable of having a neutral safety switch added.

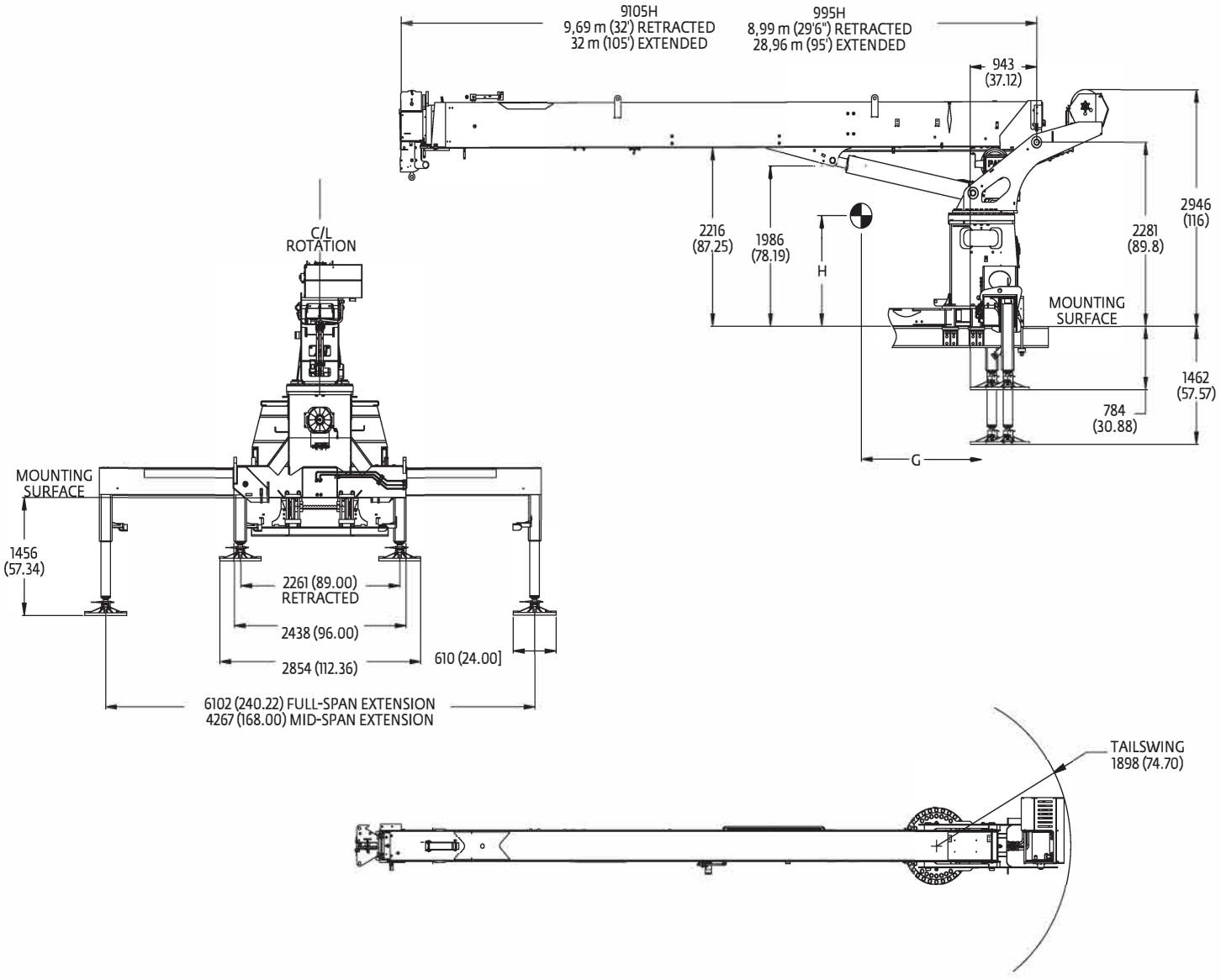
STERLING CRANE

Dimensions

Weight and centers of gravity include boom, winch, rope, turret, lift cylinder, frame, controls, outriggers, platforms, torque box, boom rest, bumper, downhaul weight.

	G	H	Weight
995H	2423 mm (95.4 in)	1504 mm (59.2 in)	9232 kg (20,352 lb)
9105H	2654 mm (104.9 in)	1539 mm (60.6 in)	9566 kg (21,090 lb)

Above weights and centers of gravity do not include reservoir, RSOD, jib, PTO, pump, bed, SFO.



NOTE: All dimensions are in mm (in) unless otherwise specified