

2019 VOLVO FH 540 6X4 – Palfinger 88002 EH Mounted Hiab

Lorry Unit Tare Weight: 22.580 tonnes

SDC Trailer Tare Weight: 8.580 tonnes

Combined Tare Weight: 31.160 tonnes

Total Gross Weight: 44.000 tonnes

Total Load Capacity: 12.840 tonnes

Outrigger pad size 500mm x 500mm square

Total Trailer Length Drawbar Retracted = 38 ft. / 11600mm

Total Vehicle Length = 54.2 ft. / 16500mm

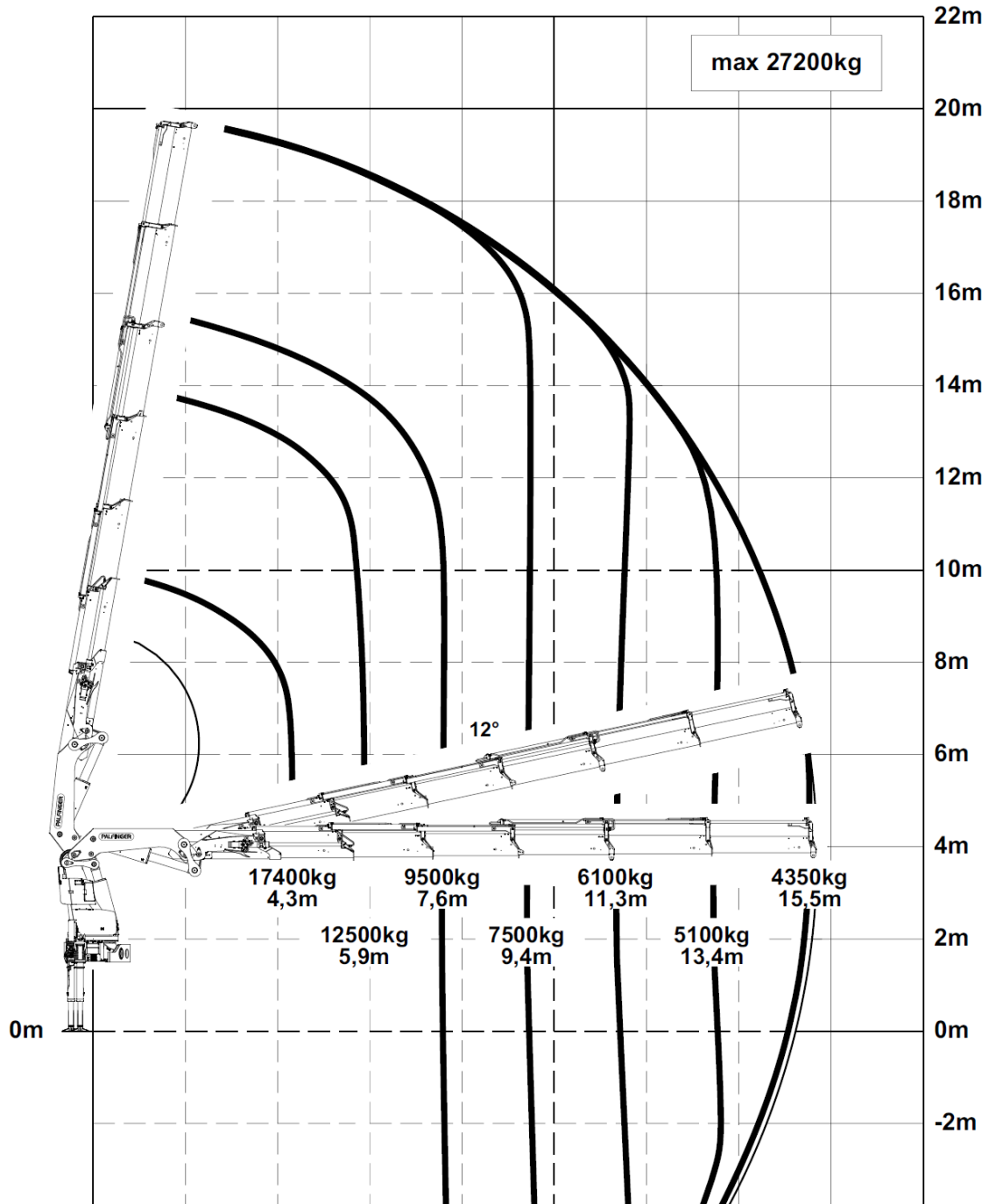
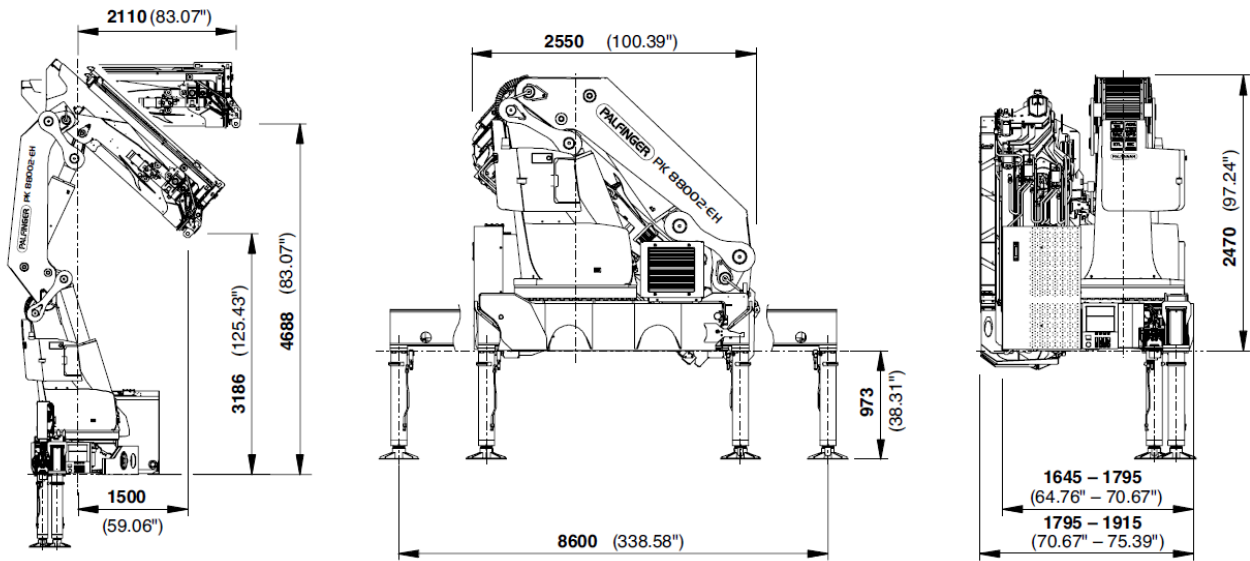
Total Trailer Length Drawbar Extended = 42 ft. / 12891mm

Total Vehicle Length = 58.4 ft. / 17791mm



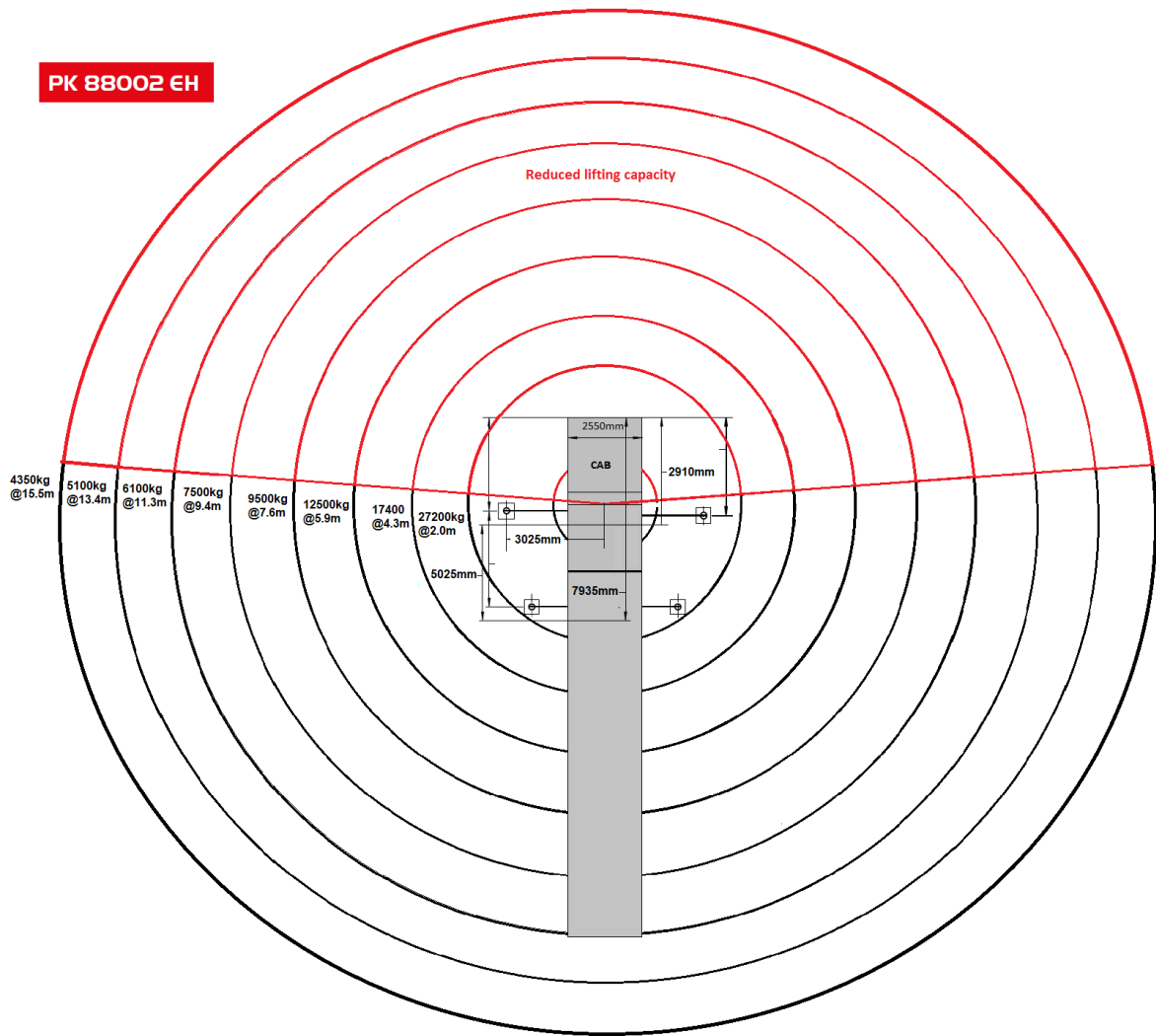


DIMENSIONS

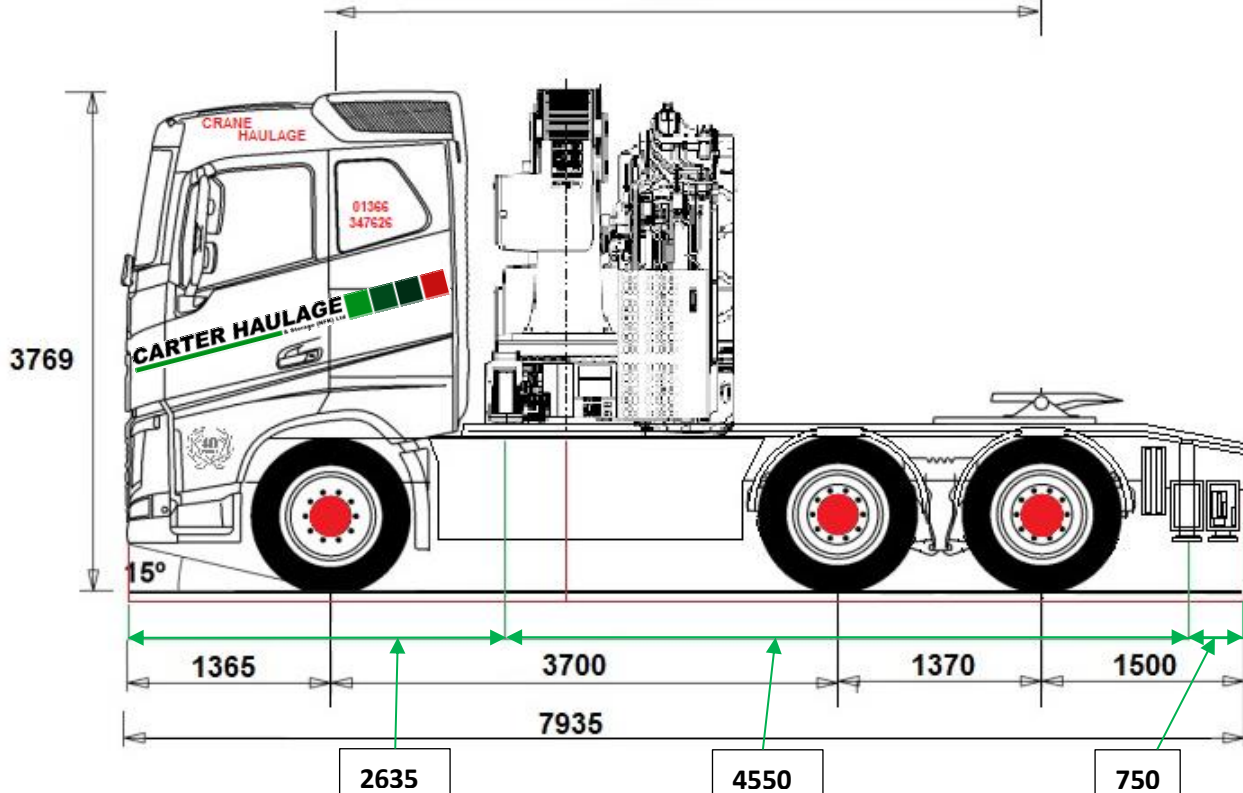


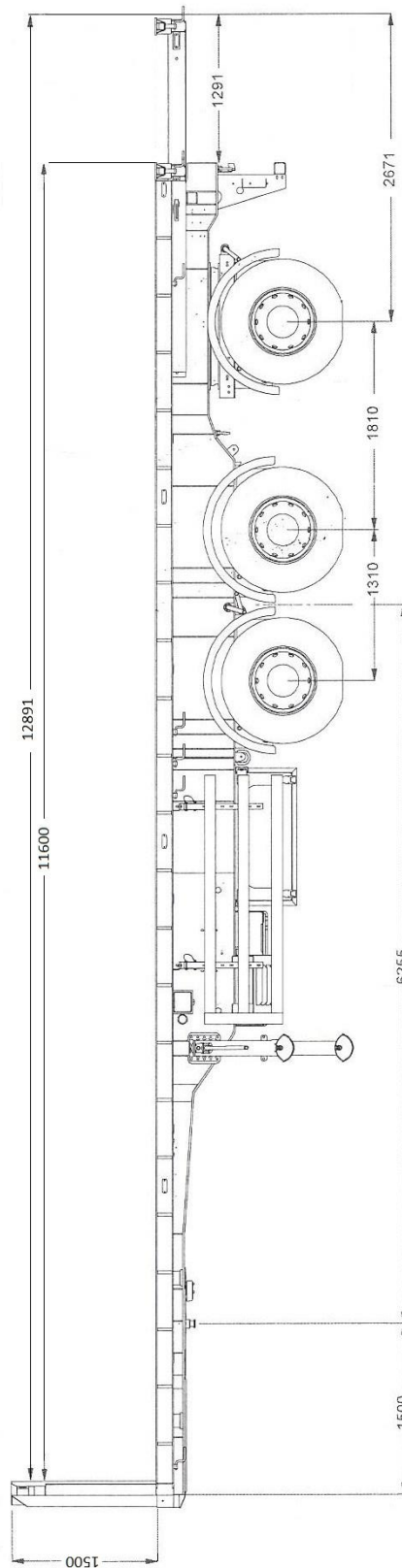


PK 88002 EH



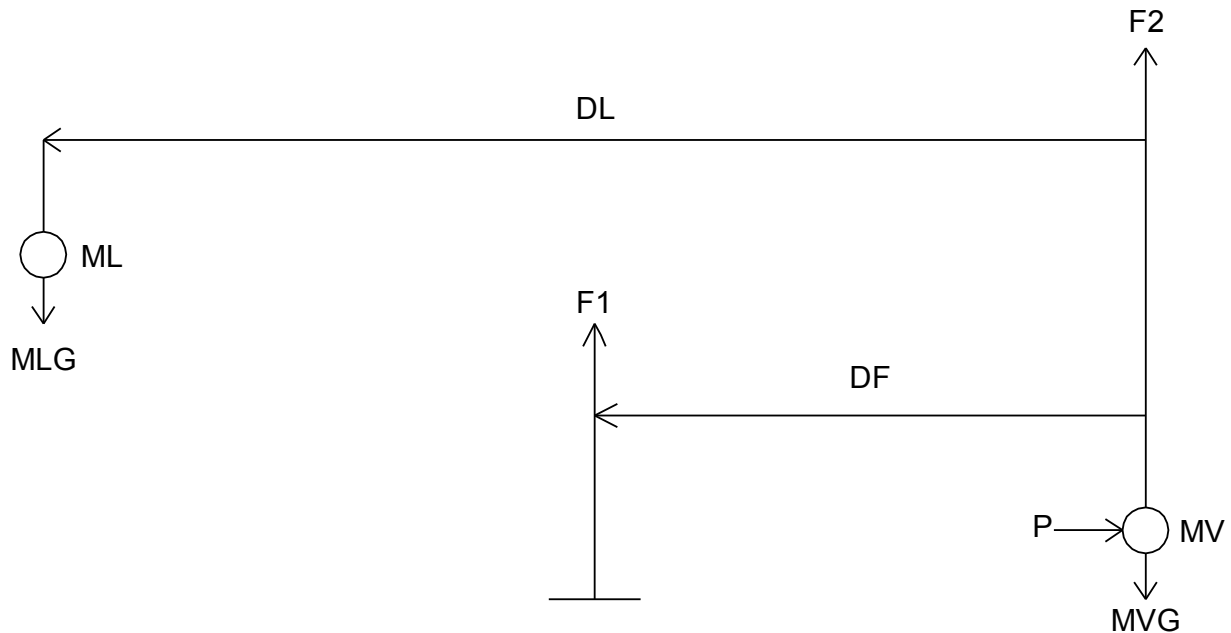
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PRESSURE UNDER FOOT/PAD CALCULATION

PALFINGER 88002 EH HIAB



ML = MASS OF LOAD INC LIFTING TACKLE & HOOK (kgs)

MV = MASS OF VEHICLE (kgs) 22850

DF = DISTANCE FROM CENTRE OF SLEW TO CENTRE OF OUTRIGGER FOOT (mtrs) 4.30

DL = DISTANCE FROM CENTRE OF SLEW TO CENTRE OF LOAD (mtrs)

F1 = FORCE AT FOOT (NEWTONS)

F2 = FORCE AT VEHICLE (Kilo-newtons)

G = FORCE OF GRAVITY (9.8m/s²)

FORMULA FOR FORCE AT C/L OF FOOT, AS PARTICLE FORCE IS AS FOLLOWS:

$$F1 = \frac{ML \times G \times DL}{DF}$$

DF

DIVIDE F1 BY AREA OF FOOT/PAD (sq m) TO GIVE FORCE IN N/m²

AREA OF STANDARD FOOT PAD = 0.36 (600mm X 600mm Pads)

THEREFORE: F1 =X 9.8 X

÷ 4.30 = ÷ 0.36 = KN/m² or MT/m²