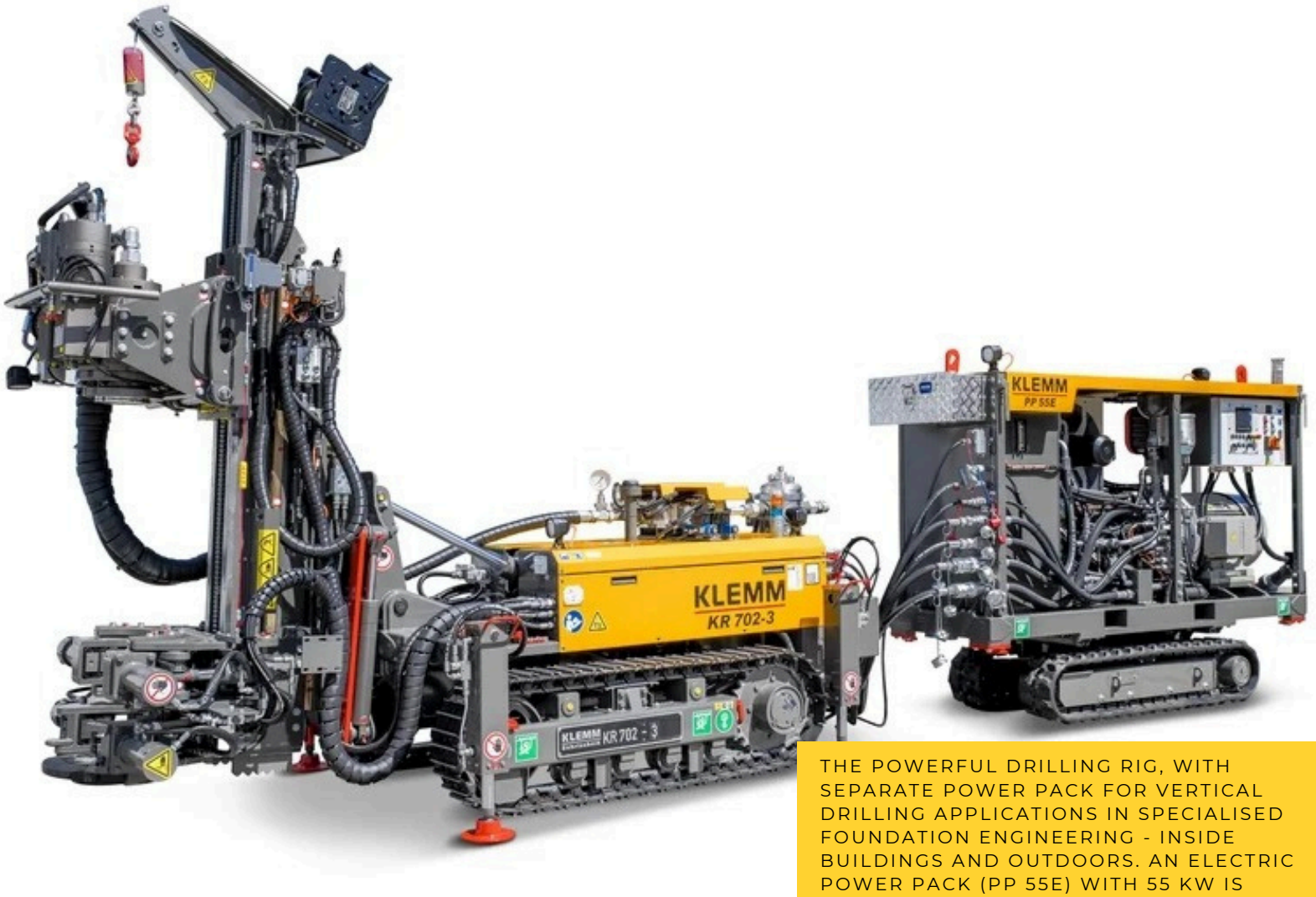
METRO PILING GROUP



THE POWERFUL DRILLING RIG, WITH SEPARATE POWER PACK FOR VERTICAL DRILLING APPLICATIONS IN SPECIALISED FOUNDATION ENGINEERING - INSIDE BUILDINGS AND OUTDOORS. AN ELECTRIC POWER PACK (PP 55E) WITH 55 KW IS AVAILABLE AS AN ALTERNATIVE TO THE POWER PACK PP 117G (DIESEL).

KLEMM

KR 702-3

METRO PILING GROUP

contact our teamformoreinformationontheKLEMMKR702 and to discuss whetherit'sthemostsuitablerigforyourproject. All dimensions are subject to machineconfiguration.

TECHNICAL DATA

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Rig Specifications

Specification	Value
Tractive Force Max	20 kN
Crawler Speed	1.8 km/h
2-Rib Grouser Plates	200 mm
Overall Width	750 (1250) mm
Ground Pressure	0.7 N/cm²
Length of Crawler Units	1950 mm
Length (Axle to Axle)	1400 mm
Ground Clearance	210 mm

Power Pack Specifications

Specification	PP95DS	PP115F	PP117G
Diesel Engine	DEUTZ TCD 2012 L04 2V	DEUTZ TCD 4.1 L4	CAT C 4.4 ACERT
Certified	EEC 97/68 EC Stage 3A USA EPA/CARP Tier 3	EEC 97/68 EC Stage 3B USA EPA/CARP Tier 4i	EEC 97/68 EC Stage 4 USA EPA/CARP Tier 4f
Rated Output	95 kW	115 kW	117 kW
Fuel Tank Capacity	150 Ltrs	250 Ltrs	280 Ltrs

Emissions

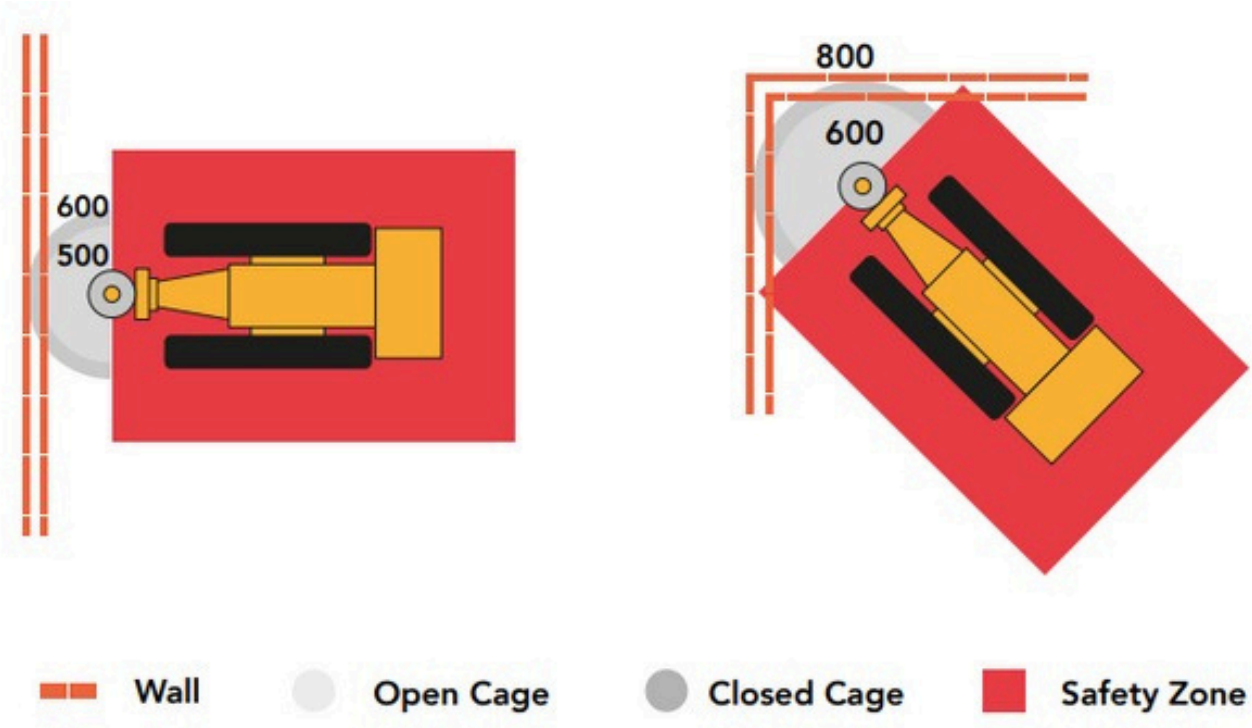
Model	CO (g/kWh)	NMHC + NOx (g/kWh)	Particulates (g/kWh)
PP95DS	0.565	3.712	0.097
PP115F	0.059	1.694	0.006
PP117G	0.011	0.128	0.014

Weight (tonnes)

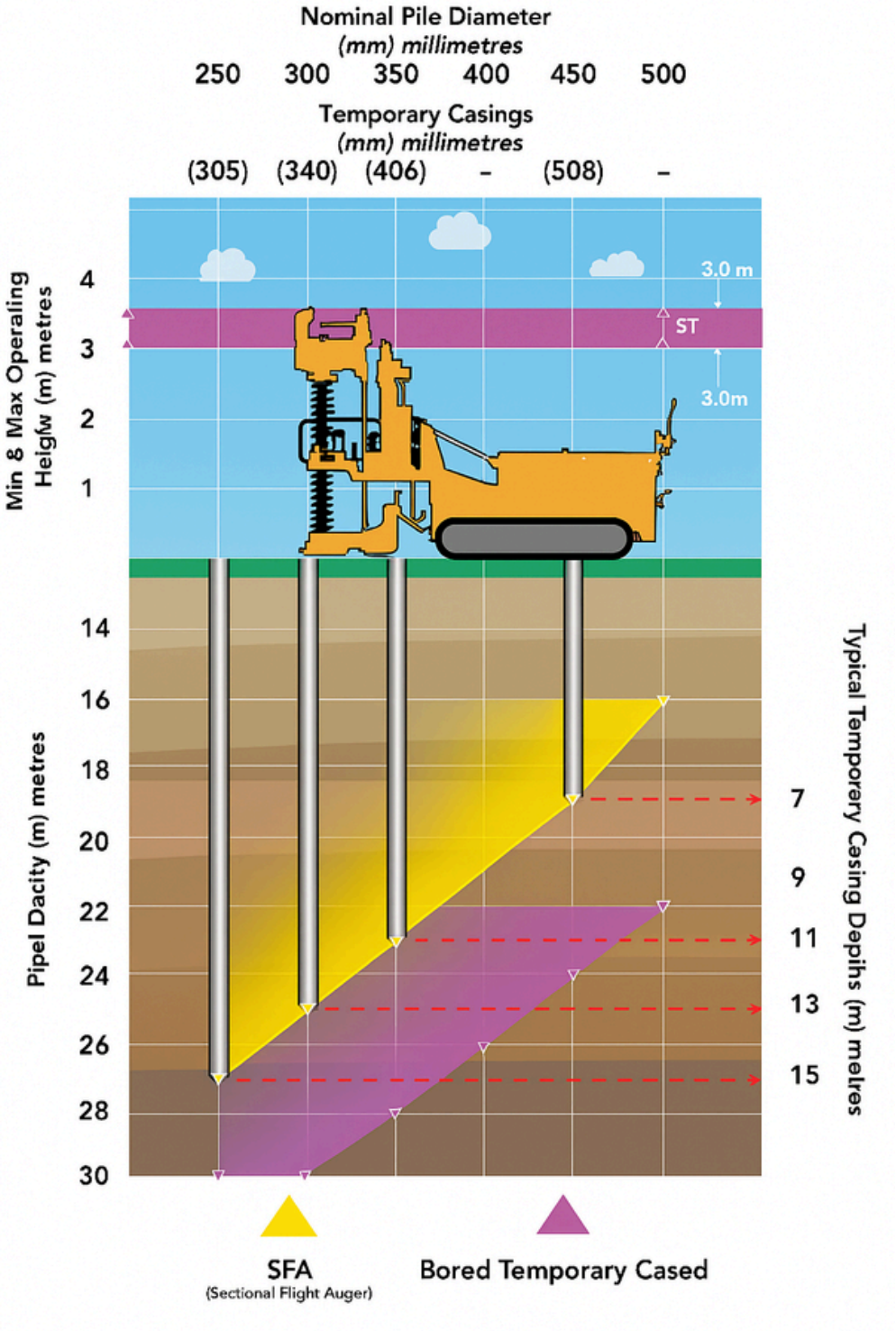
Description	KH20 / KH22	KH25
With Rotary Head	5.2 t	5.3 t
Power Pack on Wheels/Tracked	3.0 / 3.2	3.1 / 3.3

Typical Rig Operating Distances

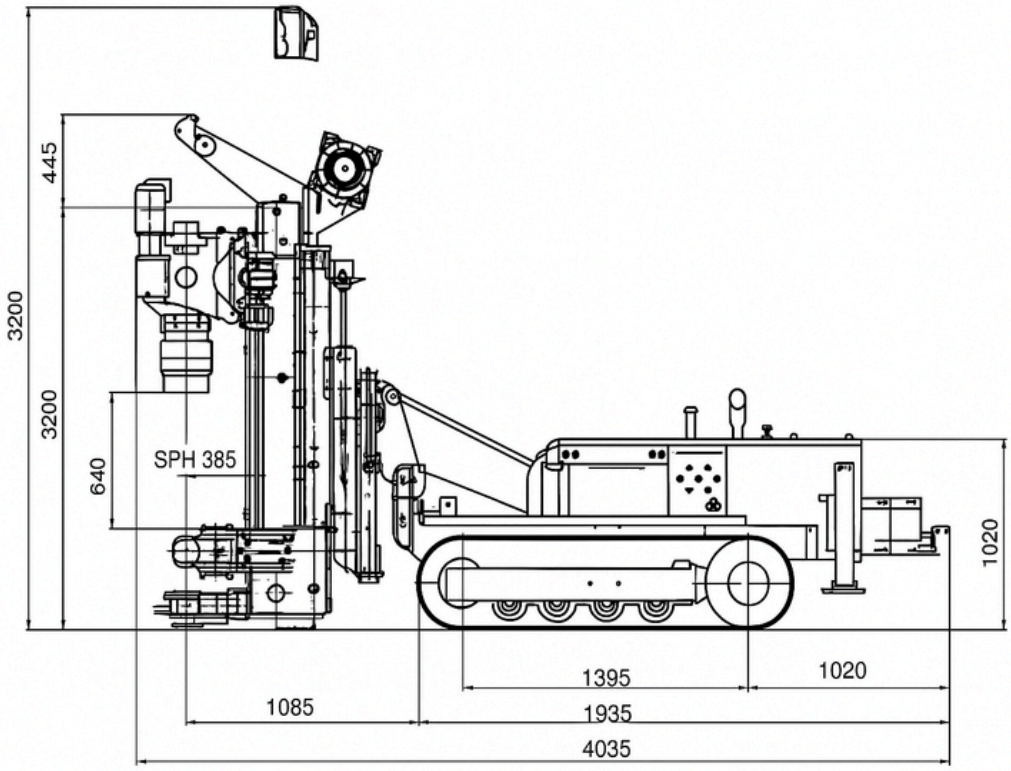
Minimum distance from face of wall to centre of pile

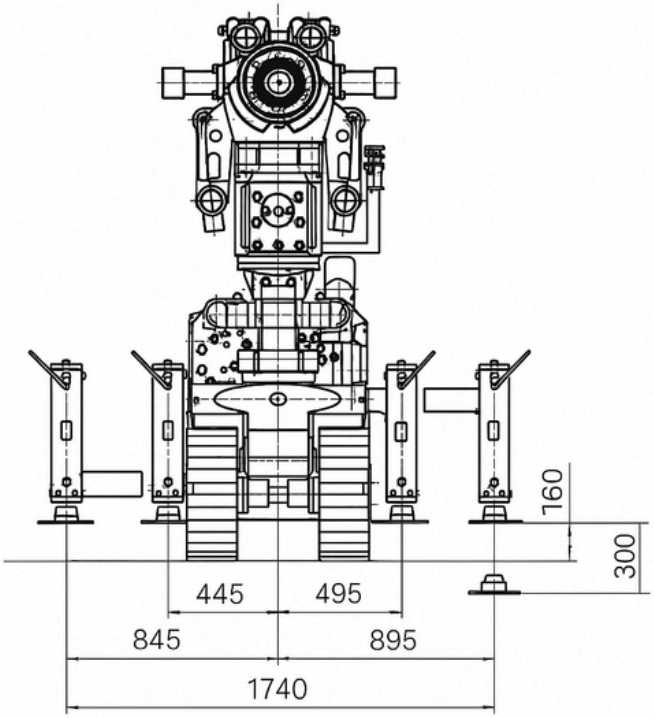


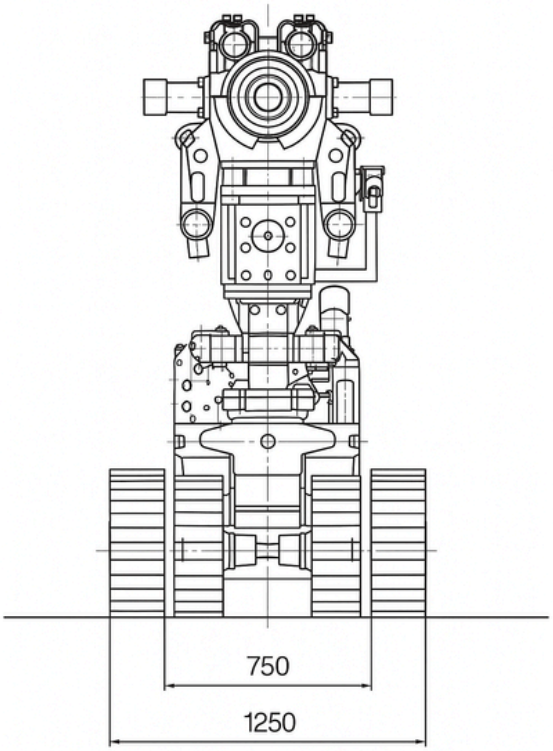
Much tighter tolerances can be achieved than indicated above, as tight as 100mm from the face of a pile to an existing wall subject to access and piling rig orentation , Please call us for job specific requirements


Nominal Pile Diameter
(mm) millimetres
250 300 350 400 450 500
Temporary Casings
(mm) millimetres
(305) (340) (406) – (508) –
Min & Max Operaling
Heigtw (m) metres
4
3
2
1
3.0 m
ST
3.0m
14
16
18
20
22
24
26
28
30
Pipel Dacity (m) metres
7
9
11
13
15
Typical Temporary Casing Depths (m) metres
SFA
(Sectional Flight Auger)
Bored Temporary Cased

KLEMM KR702 DIMMENSIONS



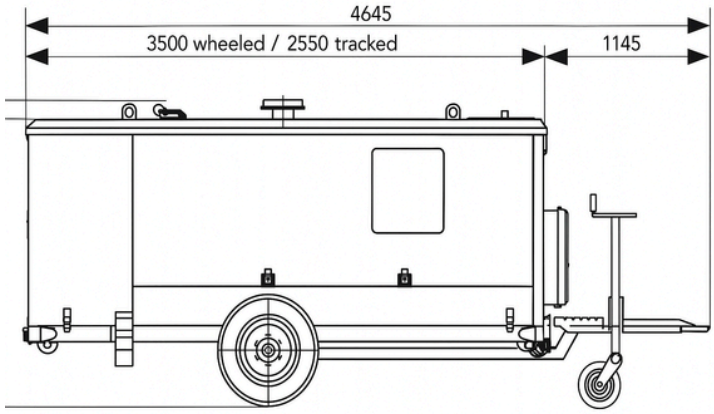


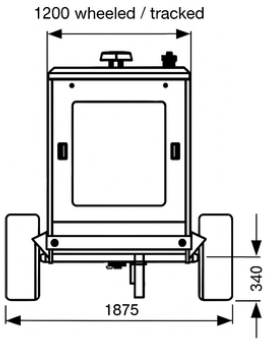


POWER PACK DIMMENSION

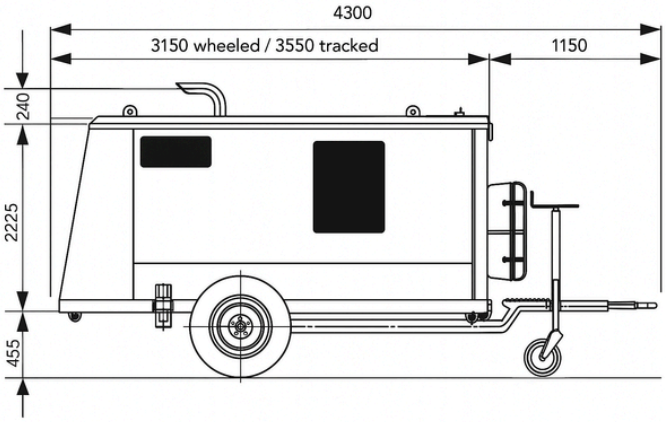
Thepower pack can belocatedtypically 25m from the rig, this can be extended up to 50m (power losses will be experienced from the rig at 50m)

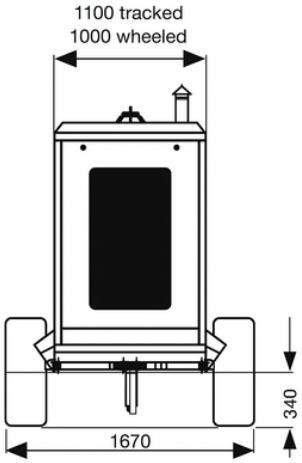
PP117G



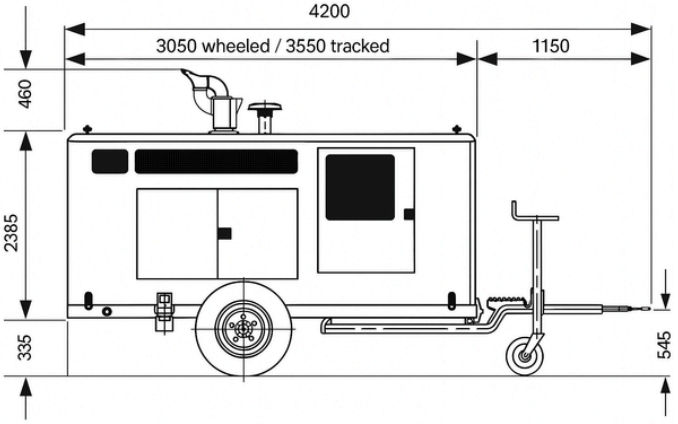


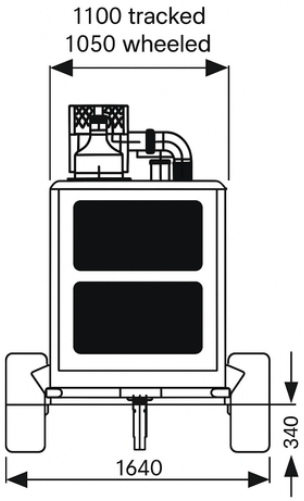
PP115F





PP95DS





SOUND LEVEL (dB(A)) – POWER PACK

Condition	PP95DS	PP115F	PP117
Idle	74	70.9	70
Max Rev	82	84	82

RIG TRANSPORT DIMENSIONS

Parameter	Measurement
Length	2900 mm
Width	750 mm
Height	2200 mm

NOISE LEVELS (RIG)

Distance	Idle (dB(A))	Max Rev (dB(A))
2 m	74	82
4 m	68	78
10 m	67	73

NOISE READINGS (POWER PACK)

Power Pack	Idle (dB(A))	Max Rev (dB(A))
PP95DS	63	78.1
PP115F	58.1	71.6
PP117	61	76

OPERATING NOISE BY MODE

Mode	Standing	Travelling	Handling	Penetrating	Extracting
Sound (dB(A))	69	71.6	69	–	–

BRE LOAD CASE

Case No.	Description	Load Details
1	Standing	Length: 1.385 m, Width: 0.2 m, Pressure: 83 kPa
2	Travelling	Length: 1.385 m, Width: 0.2 m, Pressure: 83 kPa
3	Handling	Length: 1.385 m, Width: 0.2 m, Pressure: 83 kPa
4	Penetrating	Length: 1.2 m, Width: 0.2 m, Pressure: 72 kPa
5	Extracting	Length: 1.00 m, Width: 0.2 m, Pressure: 173 kPa

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