

BRIEF TECHNICAL SPECIFICATION OF 4500HP POWER PACK (...As on 08.06.2018)

SI No	Description	Features
1	Type of Engine	16 Cylinder 'V' Type 2 stroke diesel Engine
2	Engine Capacity under Standard UIC Conditions	4500 HP at 954±4 RPM
3	Model	710 G3B Engine
4	No of Cylinders	16
5	SFC	158 ±2 gm / BHP -hr
6	Bore	230.19 mm
7	Stroke	279.4 mm
6	Cooling water capacity	1045 Litre
7	Lubricating Oil sump capacity	1617 Litre
8	Governor	Wood Ward Governor
9	Angle between banks	45 ⁰
10	Compression ratio	16:1
11	Displacement per cylinder	11635 cm ³
12	Rotation (facing rear end)	Counter clockwise
13	Scavenging	Uniflow
14	Type of Scavenging blower	Turbo – Centrifugal
15	Cooling System	Pressurized
16	Water Pump	Centrifugal
17	Lubricating Oil System	Full Pressure
18	Lubricating Oil Pumps	Helical Gear Type
19	Fuel Injection	Mechanical unit injector
20	Engine starting	Dual Electric Motors
21	Output (Traction)	4500HP
22	Full time low idle speed	200±4 rpm
23	Normal idle speed	270±15 rpm



BRIEF TECHNICAL SPECIFICATION OF 3100 HP POWER PACK (...As on 05.07.2018)

SL No	Description	Features
1	Type of Engine	16 Cylinder 'V' Type, 4 Stroke turbo supercharged Diesel Engine
2	Engine Capacity under Standard UIC Conditions	3100 HP at 1050 RPM
3	Model	251 C
4	No of Cylinders	16
5	SFC	154 ±4 gm / BHP -hr
6	Bore	9"
7	Stroke	10 ½"
8	Cooling water capacity	1210 Litre
9	Lubricating Oil sump capacity	1025 Litre
10	Governor	MCBG (micro controller based governor)
11	Angle between banks	45 ⁰
12	Compression ratio	11.75 :1
13	Displacement	10682 Inch ³
14	Rotation (viewed from power take -off end)	Counter clockwise
15	Rotation (viewed from free end)	Clockwise
16	Turbo super charger	ABB TPR-61
17	Cooling System	Pressurized
18	Water Pump	Centrifugal
19	Lubricating Oil System	Full Pressure
20	Lubricating Oil Pumps	Double Helical Gear Type
21	Fuel Injection	Mechanical Injection (Bosch 17 mm FIP)
22	Engine starting	Auxiliary generator & exciter.
23	Output (Traction)	3100 HP
24	low idle speed	350 rpm
25	Normal Idle speed	400±4 rpm



BRIEF TECHNICAL SPECIFICATION OF 1350 HP POWER PACK (...As on 05.07.2018)

SL No	Description	Features
1	Type of Engine	6 Cylinder 'Inline, 4 Stroke turbo supercharged Diesel Engine
2	Engine Capacity under Standard UIC Conditions	1350 HP at 1100 RPM
3	Model	251 D
4	No of Cylinders	06
5	SFC	175 gm / GHP -hr
6	Bore	9"
7	Stroke	10 ½"
6	Cooling water capacity	645 Litre
7	Lubricating Oil sump capacity	530 Litre
8	Governor	MCBG (micro controller based governor)
9	Angle between banks	Inline
10	Compression ratio	11.75 :1 or 12.5:1
11	Displacement	4005.86 Inch ³
12	Rotation (viewed from power take –off end)	Counter clockwise
13	Rotation (viewed from free end)	Clockwise
14	Turbo super charger	350 C
15	Cooling System	Pressurized
16	Water Pump	Centrifugal
17	Lubricating Oil System	Full Pressure
18	Lubricating Oil Pumps	Helical Gear Type
19	Fuel Injection	Mechanical Injection (Bosch 17 mm FIP)
20	Engine starting	Auxiliary generator & exciter.
21	Output (Traction)	1350 HP
22	Normal Idle speed	400 rpm

