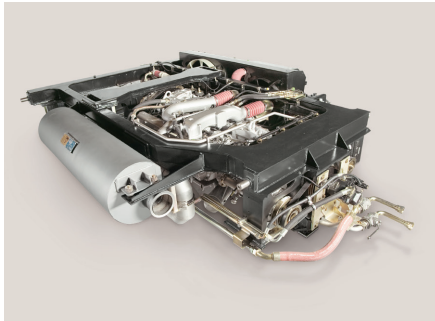


Rail

# PowerPacks<sup>®</sup> with 6H 1800

for Rail Applications with Exhaust Emissions  
EPA Tier 3 compliant and EU Stage IIIA compliant



Engine		R81P	R82P	R83P	R84P
Power output	kW (bhp)	315 (422)	335 (449)	360 (483)	390 (523)
	rpm	1800	1800	1800	1800
Torque	Nm	1750	2000	2200	2150
	rpm	1300	1300	1300	1300
Emissions		EU IIIA (EU Nonroad directive 97/68/EG) compliant; EPA 3 (US Regulation 40 CFR 89) compliant			
<b>Dimensions</b>					
Length	mm	2600 – 3365	2600 – 3365	2600 – 3365	2600 – 3365
Width	mm	2200 – 2695	2200 – 2695	2200 – 2695	2200 – 2695
Height	mm	770 – 835	770 – 835	770 – 835	770 – 835
<b>Weight</b>					
Dry	kg	2900 – 3500	2900 – 3500	2900 – 4300	3200 – 4300
Wet	kg	3050 – 3700	3050 – 3700	3050 – 4500	3300 – 4500
<b>Air compressor</b>					
Type		2-cylinder piston compressor			
Performance		930 l/min at 1900 rpm and 10 bar system pressure			



Power. Passion. Partnership.

Engine	R81P	R82P	R83P	R84P
<b>Cooling system</b>				
Drive	Hydrostatically controlled			
Speed control	Angled piston pump with proportioning valve for flow-rate control			
Proportioning valve actuation	Temic engine governor			
Hydraulic fluid cooling	Using engine coolant			
Transmission oil cooling	Using engine coolant			
Cooling air intake temperatur	max. 50° C			
Expansion tank	Optional integrated in PowerPack®			
Roof cooling system	Optional equipment			
<b>Transmission</b>				
Type	ZF 5 HP 602	ZF 5 HP 902	Voith T211 re.4	ZF-Ecolife Rail
Ratio	i = 2.81 – 0.8	i = 2.81 – 0.8	i = 0.7	i = 3.6 – 0.61
Max. input torque	1600 Nm	1850 Nm	2200 Nm	2500 Nm
Retarder power incl. engine drag torq.	200 – 300 kW	200 – 300 kW	200 – 300 kW	200 – 300 kW
<b>Charging generator</b>				
Performance	28 V – 180 A or 28 V – 550 A or	28 V – 180 A or 28 V – 550 A or	28 V – 180 A or 28 V – 550 A or	28 V – 180 A or 28 V – 550 A or
Belt drive system	110 V – 140 A	110 V – 140 A	110 V – 140 A	110 V – 140 A
<b>Air conditioning compressor</b>				
Performance	~ 25 kW	~ 25 kW	~ 25 kW	~ 25 kW
Belt drive system				
Type	4/6 cylinder compressor, Co. Bock/Bitzer			
<b>Train power supply generator</b>				
Synchrongenerator	70 kVA/400 V/50 Hz or 70 kVA/440 V/60 Hz			
Hydrostatic drive system				
<b>Exhaust system</b>				
Silencer with dynamic insertion loss reduction of A-rated overall level	20 dB (A)	20 dB (A)	20 dB (A)	20 dB (A)
<b>Soot particle filter</b>				
Soot particle filter with dynamic insertion loss reduction of A-rated overall level	20 dB (A)	20 dB (A)	20 dB (A)	20 dB (A)