

PUNCH Power 200 Building Site Demo



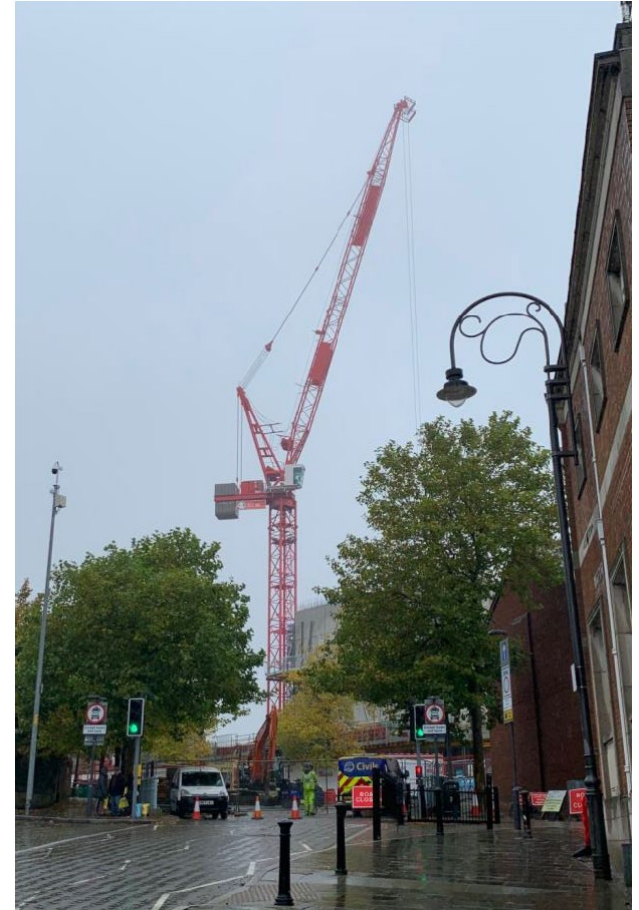
Sunbelt Rentals / Kier Construction Shakespeare North Playhouse, Prescott



150kVA

Generator sizing

- The 100kVA generator set was replaced with a 150kVA generator set
- This allowed further data to be recorded



In-field Demo

Original Generator

- Atlas Copco QAS 325 supplied by Sunbelt Rentals

Generator	Engine	Alternator	Prime Power (kVA/kW)
Atlas Copco QAS 325	Volvo TAD 1351 GE	Leroy Somer LSA 46.2 VL13	325 / 260



New Generator

- Atlas Copco provided by Sunbelt Rentals

Generator	Engine	Alternator	Prime Power (kVA/kW)
Atlas Copco QAS 150	Volvo TAD731GE	Leroy Somer	150 / 120



Data from typical day on this building site

Fuel Saving

- Replacing the 325kVA generator with the 150kVA generator + PUNCH Power 200 saved 27.5l of fuel over 9h of running
- In a 60h week this equates to **>180l of fuel saved / wk!**

Log	Time	325kVA*	150kVA + PP200
	[hr]	[litres]	[litres]
1	2.78	20.55	11.94
2	2.05	15.16	8.81
3	2.12	15.66	9.10
4	2.26	16.75	9.73
5	0.40	2.95	1.71
6	2.03	15.01	8.72
7	2.02	14.92	8.67
8	2.01	14.88	8.64
9	2.05	15.17	8.81

Total Consumption 131.05 76.13 litres over 18h

Total Saving 54.92 litres saved over 18h

* Fuel consumption for 325kVA generator set calculated based on recorded load profile and data from manufacturer data sheet. Fuel consumption for 150kVA generator set calculated from recorded data

> Fuel consumption reduced by > 41% <

In-Field Demo Results

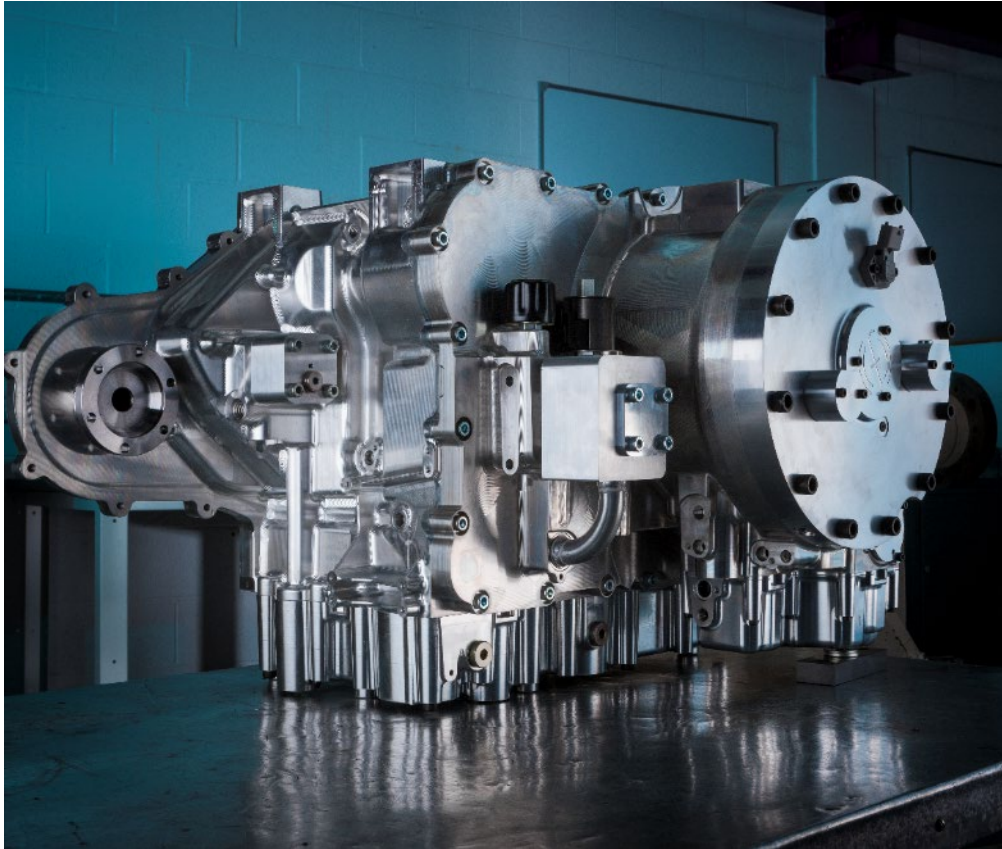
On this Kier construction site the PUNCH Power 200 enabled:

- A 325kVA generator set to be replaced with a 150kVA generator set
 - ⇒ **Reduced generator set size by a factor of 2.2!**

This results in significant fuel & emission savings:

- **Fuel saving of >41% recorded**
 - **>180l fuel per week saved**
 - **>9000l fuel per year saved**
- **>23.5t of CO₂ saved per year**
(Based on 50wk/yr & 2.64kg of CO₂ per 1l Diesel burnt)
 - ⇒ **Data collected confirms we could reduce to a 100kVA on this site**





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