## KEY FACTS

Efficient combustion allows for compact aftertreatment solutions for both Top and Rear mount variants

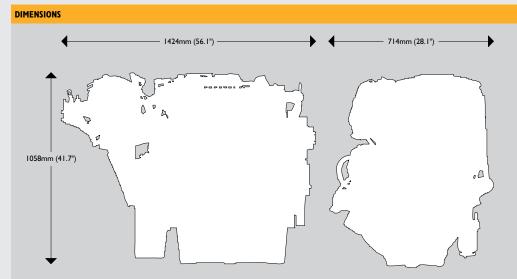
**POWER SYSTEMS** 

Compact, industrial engine – delivering high power at 440Nm

Supported by Global Distributor and Dealer Network

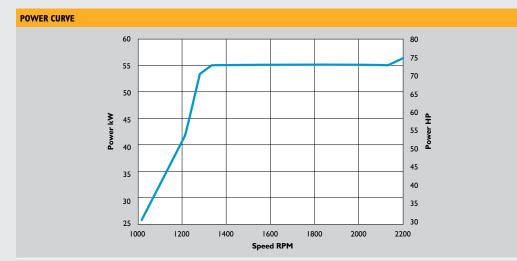
| GENERAL TECHNICAL DATA                           |                                    |                 |
|--|------------------------------------|-----------------|
| Model  |                                    | 430 Stage V     |
| Maximum rating (gross intermittent)              | kW (hp)                            | 55 (74)         |
| Thermodynamic cycle                              |                                    | Diesel 4 stroke |
| Aspiration                                       |                                    | TCA             |
| Arrangement                                      |                                    | 4 Cylinder      |
| Emissions level                                  |                                    | Stage V         |
| Bore   | mm (in)                            | 92 (3.62)       |
| Stroke   | mm (in)                            | 112 (4.41)      |
| Total displacement                               | cm <sup>3</sup> (in <sup>3</sup> ) | 2978 (182)      |
| Valves per cylinder                              |                                    | 4               |
| Injection system                                 |                                    | Common Rail     |
| Cooling  |                                    | Liquid          |
| Direction of rotation (viewed from crank nose)   |                                    | Clockwise       |
| Dry weight                                       | kg (lbs)                           | 443 (976.6)     |
| Rated speed                                      | rpm                                | 2200            |
| Peak torque                                      | Nm (lb-ft)                         | 440 (325)       |
| Peak torque speed                                | rpm                                | 1150            |
| Maximum no load governed speed                   | rpm                                | 2450            |
| Nominal idling speed                             | rpm                                | 850             |
| Minimum starting temperature without auxiliaries | °C (°F)                            | -20 (-4)        |
| Gradability - continuous                         | degrees                            | 35              |
| Gradability - intermittent                       | degrees                            | 45              |
|  |                                    |                 |



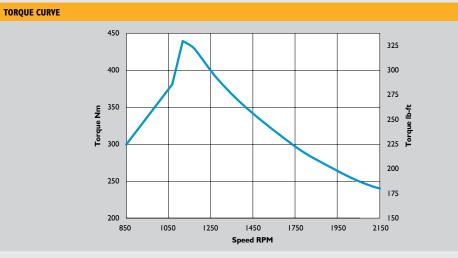








| STANDARD CONFIGURATION                    |    |   |
|---|----|---|
| Flywheel housing                          |    | SAE3                                      |
| Intake manifold location                  |    | Left hand forward*                        |
| Exhaust manifold / turbocharger location  |    | Right hand rearward*                      |
| Turbocharger                              |    | Electronic Wastegate controlled           |
| Fan drive ratios                          |    | 0.85:1, 1:1, 1.16:1                       |
| Distance between fan - crankshaft centres | mm | 320                                       |
| Fuel filter                               |    | Engine mounted                            |
| Fuel lift pump                            |    | Pre-filter with primary pump & WIF sensor |
| Oil filter                                |    | Single, vertical - LHS*                   |
| Oil sump                                  |    | Pressed steel                             |
| Breather system                           |    | Open                                      |
| Oil cooler                                |    | LHS*                                      |
| Oil filler position                       |    | Top or LHS*                               |
| Starter motor                             |    | 12V, 4.2kW/24V 4kW                        |
| Alternator                                |    | 12V, 95A/24V 100A                         |
| Power Take-off: Heavy Duty                |    | 205 (1.225)                               |
| Power Take-off: Light Duty                |    | n/a                                       |
| Finish                                    |    | Lacquered                                 |
| *Orientation from flywheel.               |    |   |



## **EMISSIONS CONTROL SOLUTIONS**



## OPTIONS

Extensive range of configuration options available – contact local JCB Power Systems distributor, or JCB Power Systems sales and applications department for availability and configuration options. For more information on purchasing a JCB Engine or configuration of a bespoke product for your requirements contact a JCB Power Systems distributor

\*Orientation from flywheel.

©2019 JCB Sales. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB Sales. All references in this publication to operating weights, sizes, capacities and other performance measurements are provided for guidance only and may vary dependant upon the exact specification of machine. They should not therefore be relied upon in relation to suitability for a particular application. Guidance and advice should always be sought from your JCB Dealer. JCB reserves the right to change specifications without notice. Illustrations and specifications shown may include optional equipment and accessories. The JCB logo is a registered trademark of J C Bamford Excavators Ltd.

