

Market Sectors.

Include construction, agriculture, forestry, industrial, materials handling, aviation ground support, mining, utility, marine, municipal and defence.

Our database of performance rated products ensures all components are matched and fully compatible. JCB has a full commercial export services department and worldwide shipping capability to support the OEM wherever you may be based. With customers on 6 continents and a similarly global extensive and varied service / aftermarket support network the OEM and the end user can rely on maximum productivity.





**The only off-highway in-house manufacturer of transmissions,
axles and engines in 30-135kW power range.**

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ON/OFF HIGHWAY | DRIVETRAIN SYSTEMS



JCB'S APPROACH TO BUSINESS IS TO WORK IN PARTNERSHIP WITH ITS CUSTOMERS. THROUGH CLOSE COLLABORATION WE OFFER FLEXIBILITY TO ACCOMMODATE AN OEM'S NEED FOR CHANGE. OUR FRIENDLY SERVICE AND SPEEDY RESPONSE COMBINE TO DELIVER AN 'EASY TO DO' BUSINESS PACKAGE.



- 53 acre site.
- Producing 120,000 units per year.
- Employing 500 staff.
- Across 1/2 million sq.ft facility.
- 3 plants - building the world's highest quality axles, transmissions and drivelines.

Who we are.

This business was founded in 1985. We work in close collaboration with OEMs to provide axles and transmissions for on/off highway applications. Within the 30-135kW (40-180hp) power range, we provide integrated matched drivelines, powertrains (for both conventional and hydrostatic driveline systems); engines, axles, rigid drive, steer drive and dead steer; powershift

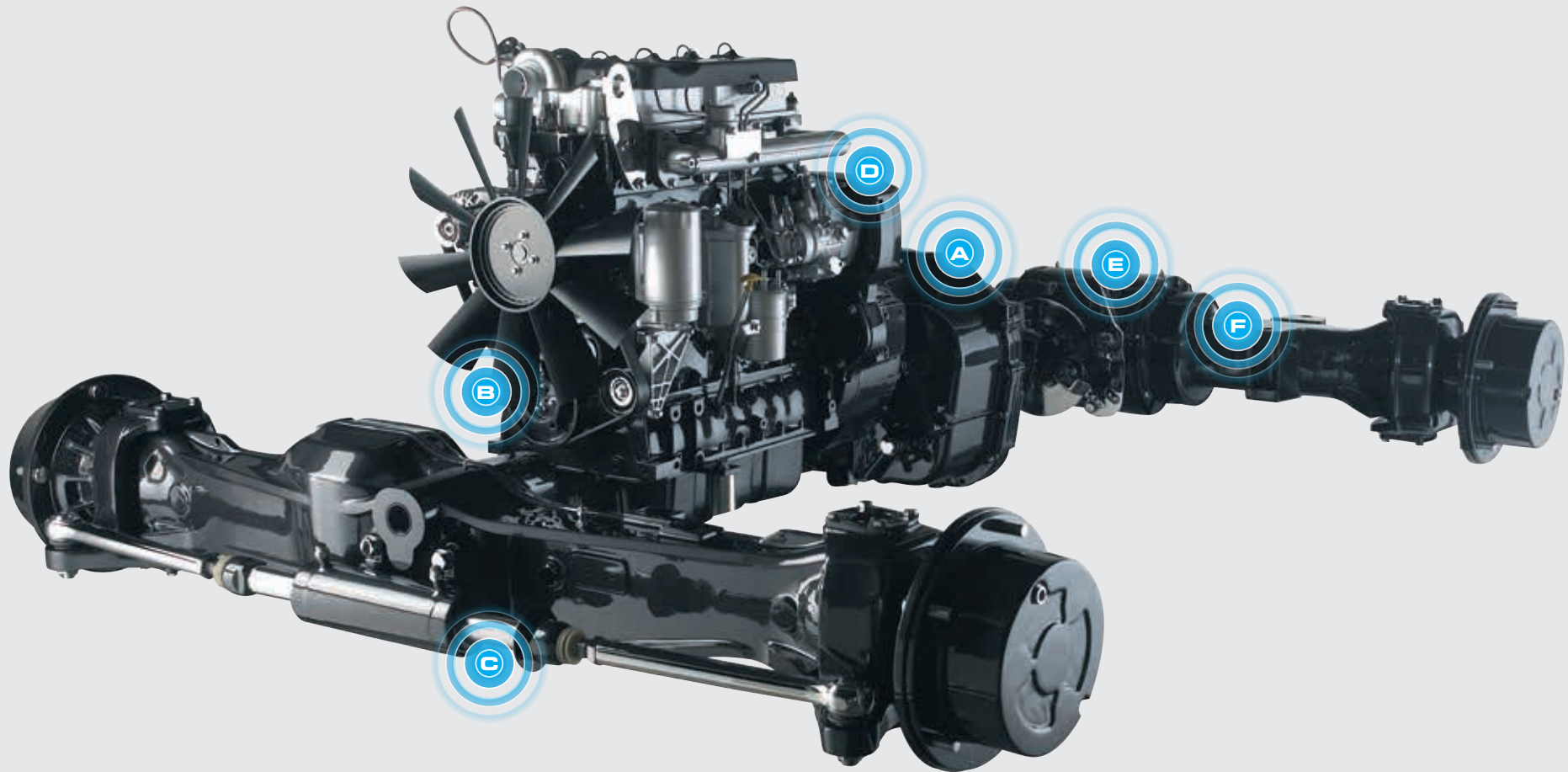
transmissions with electronic control units (ECU), live power take off (PTO) - synchromesh transmissions; close coupled and remote, with torque converters and housings.

Research and development.

JCB has extensive prototyping and test facilities for components and assemblies covering all the configurations an OEM can require. If an OEM is looking for variations the chances are JCB can help. By investing our resources and implementing strict production control procedures JCB can answer your need for specialisation with a cost effective world-wide solution.

Engineering approach.

Modular approach to driveline engineering permits full flexibility to tailor units to suit agricultural, construction, industrial, mining and aviation support machines within 34 - 135 (kW) on/off highway applications.



A Transmissions.

Range of 3, 4 and 6 speed transmissions, both full powershift and synchromesh versions with torque converter drive. Options include: 2WD or 4WD (permanent and disconnect), pump drive, internal or external park brake and electronic control unit (ECU). Options exist for Lock Up Torque Convertors.

B Cooling packages.

Complete cooling packages matched to the powertrain including radiator, transmission and hydraulic oil cooler and fan can be supplied.

C Hydraulics and ancillaries.

Hydraulic cylinders for axles plus engine or transmission driven pumps can be supplied with all supporting ancillaries to complete the drivetrain.

D Powertrain.

JCB 4 & 6 cylinder NA, Turbo, and Turbo aftercooled engines can be offered, with suitable torque converter and transmission to suit the OEMs own driveline system, mechanical Injection or electronic common rail injection systems can be supplied.

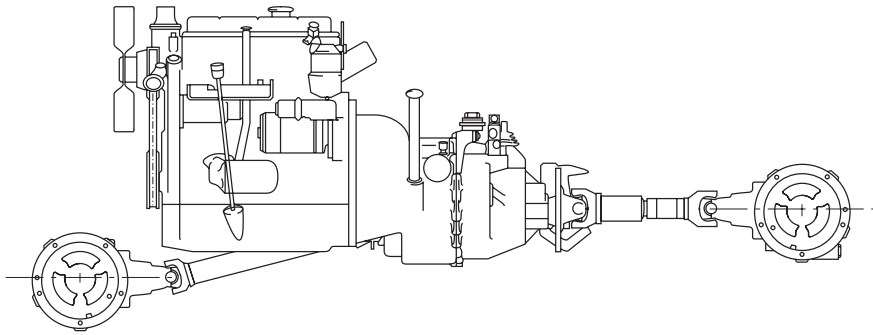
E Axles.

Range of steer drive, rigid drive and dead steer axles with pad, pin or trunnion mounting and either cardan shaft or hydrostatic motor input. Options include: various axle ratios, differential types, service and park brakes.

F Service brakes.

'Wet' multi-disk brakes available on most axles to suit a master cylinder or hydraulic brakes.

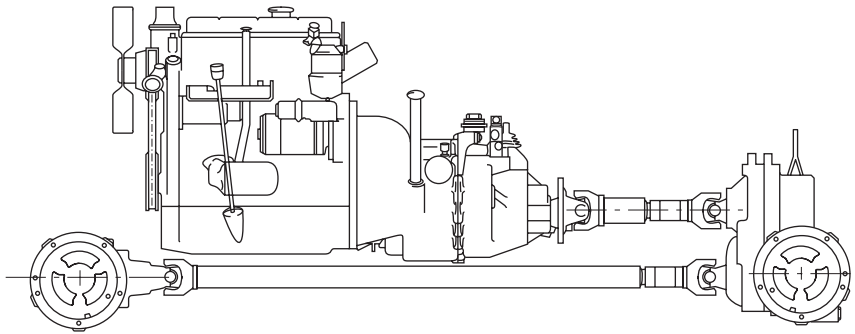
DRIVETRAIN CONFIGURATION EXAMPLES.



Driveline comprising

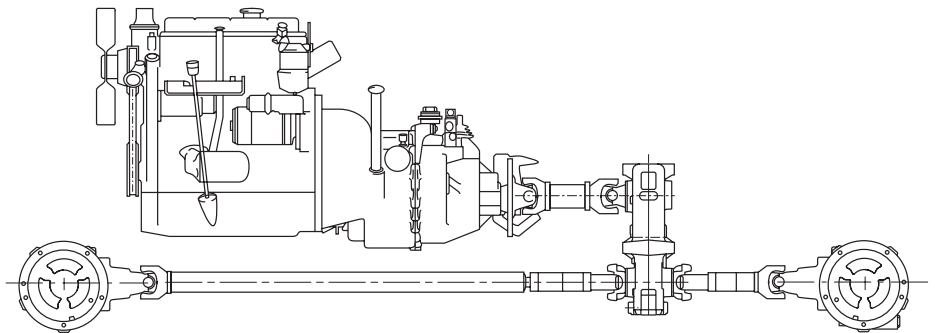
- Power train
- Steer axle
- Rigid drive axle

Two rigid axles would be fitted for articulated steer vehicles.



Driveline comprising

- Power train
- Steer/Drive axle with integral dropbox and park brake
- Steer/Drive axle



Driveline comprising

- Power train
- Transfer box
- Rigid drive axles

This illustration shows optional fan, transmission brake calliper and filler/dipstick.