

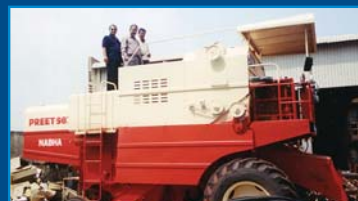


For over five decades, Hinduja Group flagship Ashok Leyland has been having a major presence in India's commercial vehicle industry. The company's product range spans from 7.5T GVW to 49T GVW in goods transport and from 19 seaters to 80 seaters in passenger transport, a host of special application vehicles and diesel engines. The Engines division, catering to the supply of diesel engines for applications such as generating set application (DG sets), Special application, which include engines for Earthmoving equipment, compressors, cranes, Harvester combines, Road Construction Machinaries, etc and marine application, has now been rechristened as the Power Solutions Business Group (PSB). The Power solutions Business Group, as the name implies, have ventured into providing complete power solutions in the segment of DG sets, special application and marine. The attributes of ruggedness and reliability that go with all AL products are very much in evidence in the product offerings too. In fact, Ashok Leyland enjoys over 85% market share of the marine engine market – a segment where the reliable engines have to stand the test and perform on the dangerous high seas for days together, uninterrupted and for prolonged durations. The product also meets ISO certifications.



- Compact engine
- Value for money
- Low running cost
- Continuous duty Power rating
- Capable of uninterrupted running 24x7 @ 100% load
- Minimal vibrations and lower noise levels
- Highly rugged and reliable engines

## Industrial Engines for



Agri Machinery

Harvester Combines, Water Pumpsets, Sprinkler Irrigation



Construction & Earthmoving

Front End Loader, Copressors, Transit Ready Mix Concrete, Concrete Pumps



Excavator



Road Building Equipment

Pavers, Road Sweepers, Vibratory Compactors,



Soil Compactor



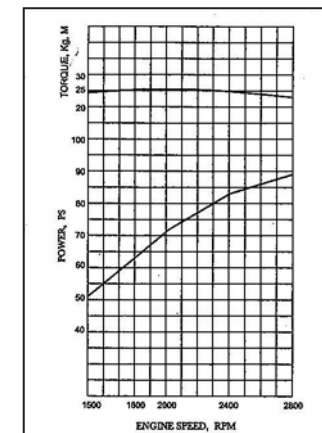
Material Handling Equipment

Forklift, Cranes

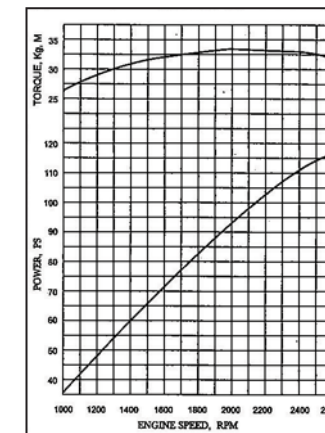
## Technical Detail of Engines suitable for Industrial application

| Engine Model                  | W04D                                        | W04CT           | AL4DC2          | AL4CTC2         | AL400C2        | AL412TC2        | AL412TAC2      |
|-------------------------------|---------------------------------------------|-----------------|-----------------|-----------------|----------------|-----------------|----------------|
| BHP Range (Gross)             | 42.4 - 86.8                                 | 47.4 - 114.4    | 42.4 - 86.8     | 47.4 - 114.4    | 59.2 - 114.9   | 71.0 - 147.6    | 74.9 - 153.9   |
| RPM Range                     | 1500 - 2800                                 | 1200 - 2600     | 1500 - 2500     | 1200 - 2500     | 1200 - 2400    | 1200 - 2400     | 1200 - 2400    |
| Max Torque ( Gross)           | 25.5Kgm@2000rpm                             | 33.4Kgm@2000rpm | 25.5Kgm@2000rpm | 33.4Kgm@2000rpm | 38Kgm@2000rpm  | 48.9Kgm@2000rpm | 51Kgm@2000rpm  |
| No Of Cylinder                | 4                                           | 4               | 4               | 4               | 6              | 6               | 6              |
| Aspiration                    | Natural                                     | TC              | Natural         | TC              | Natural        | TC              | TAC            |
| Bore & Stroke (mm)            | 104 x 118                                   | 104 x 113       | 104 x 118       | 104 x 113       | 107.2 x 120.65 | 107.2 x 120.65  | 107.2 x 120.65 |
| Displacement (Lits)           | 4.009                                       | 3.839           | 4.009           | 3.839           | 6.54           | 6.54            | 6.54           |
| Compression Ratio             | 17.9:1                                      | 17.9:1          | 17.9:1          | 17.9:1          | 17.25:1        | 17.25:1         | 17.25:1        |
| Direction of Rotation         | Anticlockwise when viewed from flywheel end |                 |                 |                 |                |                 |                |
| Lub Oil Sump Capacity ( Lits) | 7.5                                         | 7.5             | 7.5             | 7.5             | 12             | 12              | 12             |
| Dry Weight of Engine          | 350                                         | 375             | 350             | 375             | 576            | 730             | 745            |
| Dimension LxWxH (mm)          | 890x680x770                                 | 880x730x820     | 890x680x770     | 880x730x820     | 1190x665x890   | 1190x680x1100   | 1190x680x1100  |
| Starting system Voltage (Vdc) | 12 / 24                                     | 12 / 24         | 12 / 24         | 12 / 24         | 24             | 24              | 24             |
| Interval of Maintance ( Hrs)  | 250                                         | 250             | 250             | 250             | 250            | 250             | 250            |

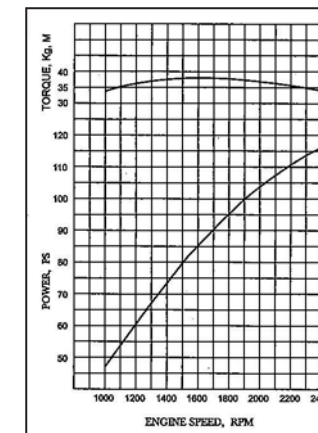
W04D



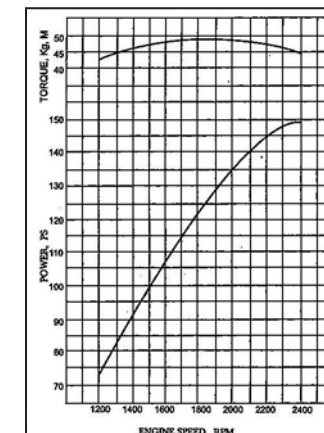
W04CT



AL 400



AL 412



Power Output indicated above are under Standard Reference conditions as indicated in specifications.

## Countrywide After-Sales-Service and Spare Parts Support

Over 90 Industrial Engine service dealers (IED), around 60 dedicated Ashok Leyland service engineers, to provide complete solutions which include installation & commissioning and single window support. Please feel free and approach your nearest service dealer or log on to [www.ashokleyland.com](http://www.ashokleyland.com), for any assistance on – warranty and post warranty service requirements, parts requirements and extended services like AMC, CAMC.

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