



## The New Master 65® Impact Wrench

**The New Master 65® Impact Wrench** has the same reliable, high quality impact mechanism and gear box which has been used during the past thirty years and is now driven by a more powerful engine which complies with EUR5 and EPA3 low emission Standards.

|                           |   |                       |                      |
|---------------------------|---|-----------------------|----------------------|
| <b>Dimensions</b>         | <b>Length</b> = 600mm   | <b>Height</b> = 284mm | <b>Width</b> = 452mm |
| <b>Engine</b>             | Two stroke/cycle Special Airtec EMAK 63.4 c.c. complying with EUR5 and EPA3 Standards POWER   |                       |                      |
| <b>Power</b>              | 4.70 HP   | 3.5k W                |                      |
| <b>Fastener Type</b>      | Bolt  | 16-32mm diameter      |                      |
|                           | Rectangular   | All sizes             |                      |
|                           | Hexagon   | Up to 83mm            |                      |
| <b>Noise Levels</b>       | Operation levels based on ISO3744   |                       |                      |
|                           | Acoustic Pressure (Lpa) 101.7 dBA   |                       |                      |
|                           | Power (LWA) 114.8 dBA   |                       |                      |
|                           | <b>Always wear ear protection</b>   |                       |                      |
| <b>Square Drive</b>       | Standard 1"   |                       |                      |
| <b>Torque Range</b>       | 500 – 2,500Nm approximately. It is possible to generate higher torques under special conditions. The Master will loosen any screwed fastener previously tightened by any other Petrol/Gas Driven Impact Wrench                          |                       |                      |
| <b>Vibration Exposure</b> | Vibration exposure is more important than vibration e.g. a low vibration machine which takes a long time to perform a task generates higher vibration exposure than a higher vibration machine which performs a task much more quickly. |                       |                      |

The following data is based on practical on track testing carried out in the UK in February 2020

| Fishplates / Joint Bar Nuts – 2.24 seconds |                       |                      | AV              |                      | AV              |
|--|-----------------------|----------------------|-----------------|----------------------|-----------------|
|  | Vibration             | Trigger Time Minutes | No of Fasteners | Trigger Time Minutes | No of Fasteners |
| <b>Tightening</b>                          | 12.28m/s <sup>2</sup> | 20                   | 533             | 80                   | 2133            |
| <b>Loosening</b>                           | 11.05m/s <sup>2</sup> | 25                   | 667             | 98                   | 2613            |

| Chairscrews / Lagscrews – 2.5 seconds |                       |                      | AV              |                      | AV              |
|---------------------------------------|-----------------------|----------------------|-----------------|----------------------|-----------------|
|                                       | Vibration             | Trigger Time Minutes | No of Fasteners | Trigger Time Minutes | No of Fasteners |
| <b>Tightening</b>                     | 11.90m/s <sup>2</sup> | 21                   | 504             | 85                   | 2040            |
| <b>Loosening</b>                      | 14.72m/s <sup>2</sup> | 14                   | 336             | 55                   | 1320            |

|                |          |  |  |  |  |
|----------------|----------|--|--|--|--|
| <b>Weighth</b> | 17.9 Kgs |  |  |  |  |
|----------------|----------|--|--|--|--|