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On The Continuous History Of Approximation

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### 1. Introduction

Firepower, mobility and protection have not been the sole considerations for modern military platforms for some time now. Auxiliary power generation for an ever increasing range of integrated systems required for the effective and adaptive conduct of network enabled warfare in a connected yet expansive battle space is an additional prime consideration. So too are the through life costs together with the logistic burden for its operation. A whole range of considerations are depicted graphically in a diagram referred to as Quinn's Quilt [4], at annex A.

In order to effectively address the power related considerations holistically and systematically a new or greatly improved technology is required.

### 1.1 Scope of Work

The scope of this work is to compare some COTS/MOTS power packs with a selected new break-through technology for internalcombustion piston engines-MyT engine using only open source / publically available OEM product specification data. The engines are compared on several criteria, dry weight (kg), gross volume (m3), claimed max power output, both (kW) and torque (Nm), specific power (kW/kg) and gross power density (MW/m3). Gross power density is reported in MW/m3 so as not to potentially confuse a common metric of kW/l which uses engine capacity. Engine capacity is not considered as it is of limited utility for a comparative analysis of turbine and piston engines. Procurement costs and fuel consumption (l/hr) are not considered as they are not universally listed in the OEM product specification literature or websites.

Additionally the technology of the MyT engine is described along with an outline of some research and development issues.

Finally a number of applications for the MyT engine are discussed briefly. It is expected that a reader knowledgeable in the field would identify many additional applications—and that is encouraged.

### 1.2 General History

The MyT engine has been known in the public domain for almost a decade now. In 2005 it was entered in the NASA Create The Future Contest in the Automotive Category. Not only did it win that category, it was judged as the best entry from all categories that year. [5]. It was publicly displayed at the both the 2005 SEMA Show [6] and the 2006 Los Angeles Auto Show. [7]

The prototype of the 14" MyT engine weighs only 68 kg, occupies 0.035 m³ and has a claimed output of 2238 kW. [8] This means that it has a specific power of 32.91 kW/kg and a power density of 63.156 MW/m³. Other form-factors include a 6" diameter version. [9]

# 2. Description

Unlike other internal combustion piston engines, the MyT engine pistons do not reciprocate. Moreover they move around the toroidal "bore" in a staccato motion, mechanically controlled by a gear and crank assembly. There are eight double-headed pistons separately linked into two sets of four permanently fixed and equally spaced interleaved rotors. [10, 11]

### 2.1 Pistons and Gears

A general approximation of the MyT piston could be conceptualised as the joining of two regular pistons back to back which have been cut through in the vicinity of the oil ring. Thus there are no piston skirts and therefore friction losses are minimised. So too are the inertial losses because of the continuous unidirectional motion. The two

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