

Misal Technologies Pty Ltd

A.B.N. 28 006 314 629

ELECTRICAL AND MECHANICAL ENGINEERS

AVIATION BUSINESS DEVELOPMENT OPPORTUNITY CIVIL AVIATION & DEFENCE INDUSTRIES GROUND SUPPORT EQUIPMENT (GSE)- LICENSING OR IP ACQUISITION AIRCRAFT & MARINE HYDRAULIC TESTING TECHNOLOGY

Misal Technologies Pty. Ltd. Is offering Licensing or Sale the above technology IP including worldwide Marketing / Manufacturing Rights as a "Total Package" for a field proven new generation, "State-of-the-Art" developed series of Computerised Hydraulic Test Stations.

Also in place is "Full Financing Package" for this purchase (*Conditions apply)

Misal Technologies Pty. Ltd.(Misal) Introduction:

Misal is an independent Engineering Group, established in December 1980. Its activities involve design, manufacturing, installation, servicing and on-site construction works in the fields of Electrical, Mechanical and Hydraulic Engineering. In addition to other Misal Divisions activities, Misal's Hydraulic Division has specialised in the area of Aircraft and Marine (Submarines) Ground Support Equipment (GSE) used for their respective preventative and corrective maintenance programs – particularly in the testing of Hydraulic Components and Systems. The Misal developed and manufactured dedicated GSE's are suitable for undertaking full hydraulic / pneumatics testing of Civil Aircraft, Defence Aircraft and Submarines.

The original Misal Hydraulic Test Stations (HTS) designated as Mark 1 have been designed and developed in the 1990's specifically for the **RAAF F-111 Fighter Aircraft**. The HTS comprised of the following HTS Categories:

- a) Laboratory HTS designated for testing fixed hydraulic components
- b) Laboratory HRS designated for testing rotating hydraulic components.

Both above HTS categories have been delivered to the RAAF in 1994 and have been used by the RAAF for many years. **The original HTS Mark 1 have over the years been further developed and upgraded into a Universal type of computerised Test Stations.** Misal GSE technology has also been reviewed by the Australian Defence Industries (ADI) who have used the Misal GSE's in their submission to the Australian Defence Department for the new Joint Strike Fighter Aircraft Project.

Fixed Computerised Hydraulic Test Stations have also been developed at the same time for testing Submarines hydraulic systems, **particularly for testing the Hydraulics of the "Torpedo Discharge System" for the Collins Class Submarines.**

The Misal GSE design is based on a modular concept design, allowing configuration of the Misal Test Stations to any Aircraft combination the End User fleet is operating with. This in turn represents a considerable saving to the End User, as only one set of Misal Hydraulic Test Stations would be required for the testing of the whole Aircraft fleet of the End User. Using the latest developed engineering technology and standards the Misal current Hydraulic Test Stations have been continually developed over the years and are considered as "State-of-the-Art" testing facilities with several unique testing capabilities not found readily available in other HTS's manufactured by other manufacturers. By way of example the Misal HTS's are capable of undertaking components testing under simulated flying conditions, accelerated ageing etc.

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In addition to the above referenced ACHTS GSE's for Laboratory Application, Misal has at the same time developed Aircraft Mobile Hydraulic Test Stations (AMHTS) designated to test Aircraft on a tarmac (in situ). We have listed on Page 3 of this Document a complete listing of all Misal fully developed GSE's (Laboratory and In-field applications) available for Licensing or outright IP Purchase.

Introduction of a new generation of "State of the Art" Aircraft Computerised Hydraulic Test Stations (ACHYS) into existing global market place represents now a unique opportunity for a Company in possession of such technology and global marketing capability, mainly due to the arrival of new Aircraft types in the market and a large number of obsolete and antiquated Aircraft Testing Facilities, still being used worldwide by the various Aircraft fleet operators. Asia and in particular China represents a huge market potential for Mobile Test Stations, in particular in the Defence Sector which, based on our recent feedback received from the PRC, indicating the usage of hundreds of these Units to be purchased over the coming years. Other Hydraulic Test Stations currently in use by the global various Aircraft fleet operators are 40 years or more old in their technology, which is now bordering on being inadequate unsafe or unable to meet the current hydraulic standards used in modern Aircrafts hydraulic circuits and components.

In view of the foregoing the Misal new Hydraulic Test Stations technology and the offered business opportunity will be appropriate for any GSE's manufacturer wishing to embark in manufacturing of a new generation of HTS's. This offered business opportunity represents a wide-open global opportunity for the adaptation of the Misal "State-of-the-Art" developed Testing facilities and Systems.

We are inviting an expression of Interest regarding this unique business opportunity. Interested parties should in the first instance contact our Company for further details.

Yours faithfully,
Manfred Mayboehm
Managing Director
Misal Technologies Pty. Ltd

Encl.

1x Summary Outline of Misal GSE's Technologies available for Licensing or outright IP Purchase:
As per Page 3 details

1x Selection of Misal GSE's Photographs:

- Document 7790 Rev.2 © - 13.08.2020 –
Misal Aircraft Comp Hydraulic Test Station MH622 – Fixed Components Testing 1 photo
- Document 7791 Rev.2 © - 13.08.2020 –
Misal Aircraft Comp Hydraulic Test Station MH624 – Rotating Components Testing 1 photo
- Document 6952 Rev.2 © - 13.08.2020 –
Misal Aircraft Mobile Hydraulic Test Station MH538-D – Diesel Version 1 photo

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GROUND SUPPORT EQUIPMENT (GSE)- LICENSING OR IP ACQUISITION
AIRCRAFT & MARINE HYDRAULIC TESTING TECHNOLOGY

AVIATION GROUND SUPPORT EQUIPMENT (GSE)
AVAILABLE FOR LICENSING OR IP OUTRIGHT PURCHASE

Group A - Laboratory application:

- **Aircraft Computerised Hydraulic Test Station (ACHTS-F)**
Status: Note1
Fixed Hydraulic Test Stations – for testing Aircraft Hydraulic static components
Designation: **Model MH 622 – Type A**
- **Aircraft Computerised Hydraulic Test Station (ACHTS-R)**
Status: Note 1
Fixed Hydraulic Test Stations – for testing Aircraft Hydraulic rotating components
Designation: **Model MH 624 – Type B**

Group B - Field application:

- **Aircraft Mobile Hydraulic Test Station (AMHTS-E)**
Status: Note 1
Electric version - for testing Aircraft hydraulic components in situ and in field locations where electricity is available.
Complies with NATO Standards
Designation: **Model MH 538 E**
- **Aircraft Mobile Hydraulic Test Stations AMHTS-D**
Status: Note 1
Optional: A complete new AMHTS-D Unit (Qty 1) will form part of the Supply Package
Diesel version – for testing Aircraft hydraulic components in situ and in field locations where no electricity is available.
Complies with NATO Standards
Designation: **Model MH 538 D**

Notes:

- (1) Technology includes detailed design and IP, with units manufactured and in field use for several years
- (2) **Misal GSE's - Application Categories for both Civil and Defence Industries:**
Civil and Defence Aircraft in Situ Testing, Civil and Defence Aircraft & Helicopters Hydraulic Components Testing, Civil and Defence Hydraulic Components Laboratory Testing, Laboratory Hydraulic Testing facilities, Mobile Hydraulic Test Stations, Submarines Hydraulic Components Testing