

GO WITH THE FLOW.

T **TECALEMIT**

Made-to-order solutions.
Precise, professional, reliable



TMSair

Oil management system



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A **HORNGROUP** COMPANY

Oil management – A pioneer since 1975

TECALEMIT has produced centralized oil supply systems since 1975.

Its close relationship with the automobile industry inspired the company to develop an innovative and customer-oriented solution for fluid management in workshops.

Quality, flexibility, reliability, and the constant increase in cost-effectiveness are characteristics that TECALEMIT's clients have come to trust and value.

The rapid development of the automobile industry has driven the continuous development from what is purely an oil management system into a fluid management system. This is because a large number of older systems are still in operation today, and individual components of these older systems can also be replaced or retrofitted with new products.

This resulted in a range of offerings for workshops in the passenger and utility vehicle sectors that remains reliable and up-to-date even to this day.



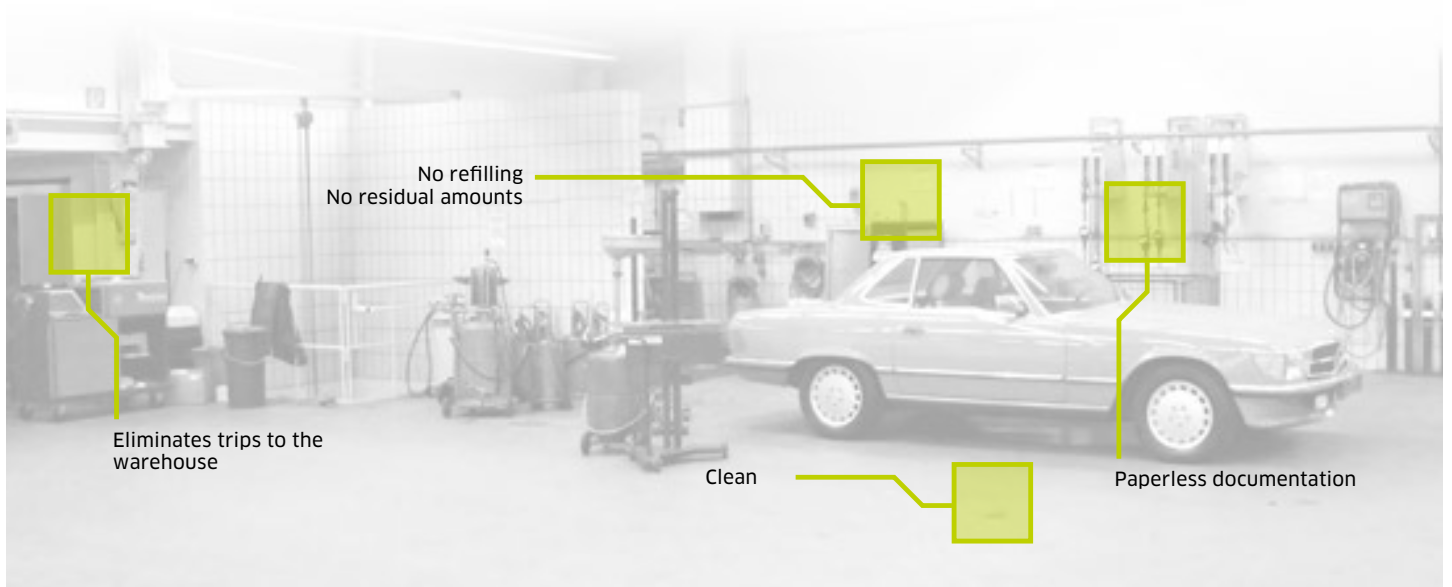
One impressive independent project realized by the **HORNGROUP** was becoming the preferred equipment supplier at **HAMAD INTERNATIONAL AIRPORT** in DOHA/QATAR.

A total of 4483 TECALEMIT products were supplied in order to complete the installation of the largest airport workshop in the world.

Naturally, the project was managed by the **HORNGROUP**.



Oil management – Why?



Oil management – What is it?

The TECALEMIT oil management system automatically tracks and monitors the amounts of all liquids dispensed in your workshop in real time, and of course provides the quality and long service life clients have come to expect.

All dispensed amounts are logged and can be matched directly to workshop orders in the inventory management system via an existing network. This ensures transparency, reliability, and cuts down on losses.

Fill level monitoring ensures that supply bottlenecks are avoided and provides planning dependability.

TECALEMIT oil management systems provide workshops with a foundation for productive and reliable business activities.

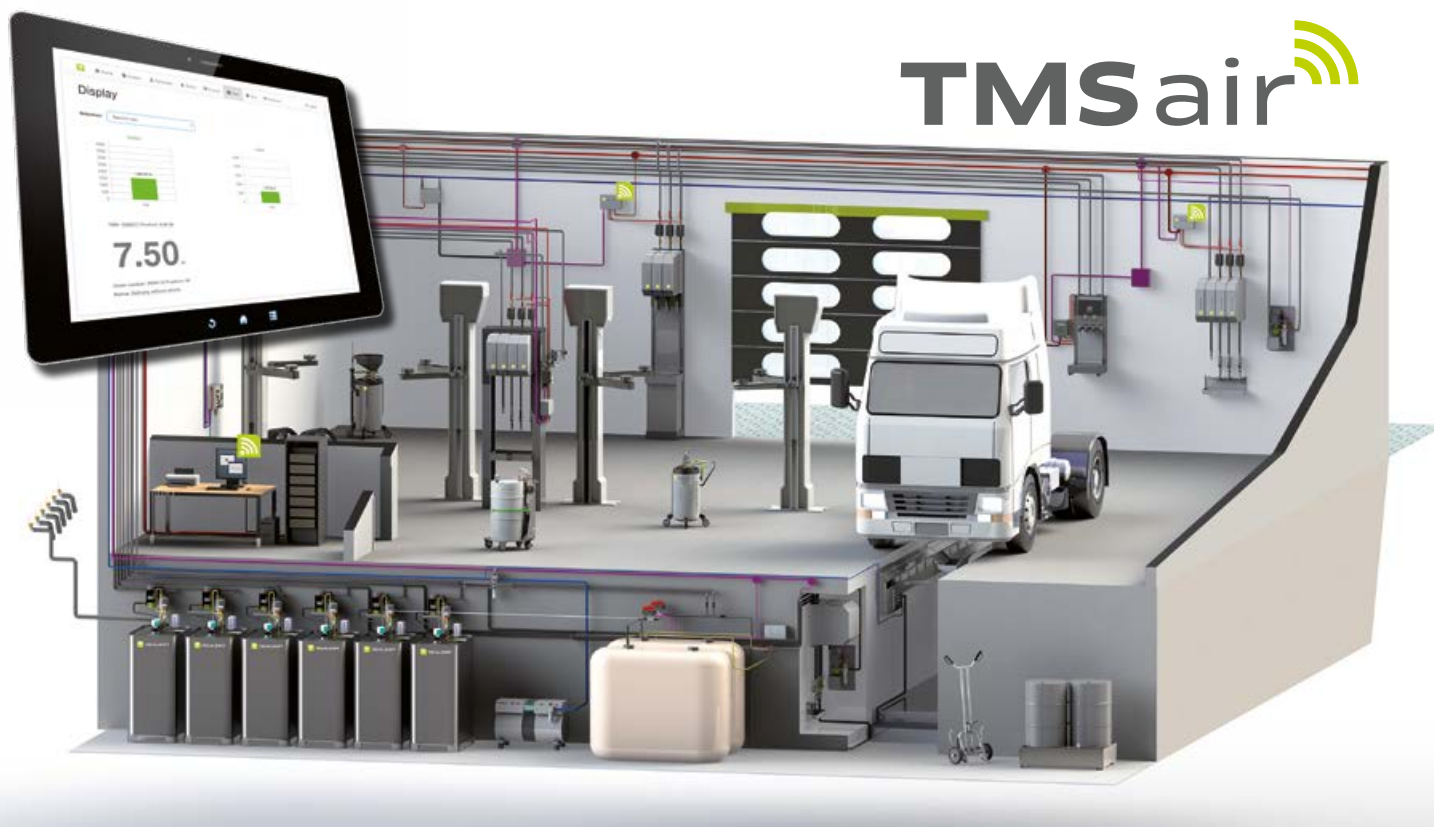
The modular design of the components allows for solutions tailored to a wide range of individual needs, from the delivery of individual workshop applications to turnkey project planning by TECALEMIT and its partners.

What this means for you:

- Precise and logged dispensings prevent oil wastage. For you, this means that no Dispensings can take place without being billed.
- With more servicing procedures done per day, the number of working hours that can be billed increases.
- A structured workplace gives customers confidence in your professionalism and motivates employees.

The modular system consists of components that have been designed to work together seamlessly (see illustration below):

Solutions – Individually scalable!





LAN or WiFi?

In an increasingly digitized world, the organization of the working world has changed rapidly. Technical options determine the requirements: **Easy, effective, and quick.**

With the **TMS air**, TECALEMIT now offers not only a long-established solution for workshops with their own wired bus system, but also the ability to manage the centralized oil supply system via the company network (**LAN or WiFi**). Naturally, all optional upgrades up to complete integration into a workshop's **inventory management system** or **dealer management system** are available.

With the **TMS air**, TECALEMIT now offers what is a familiar and practical solution, but with the added advantage of being able to connect to the oil management system via WiFi. Using any **commercially available tablet or PC** (no particular manufacturer or operating system required), clients can access the server software on their central workstation. **This means that you do not need to purchase any expensive, specialized devices.**

Thanks to TECALEMIT's modular system, existing systems can also be retrofitted or completely reconfigured without requiring new devices to be used in all areas!

The use of WiFi also equates to additional advantages over existing solutions:

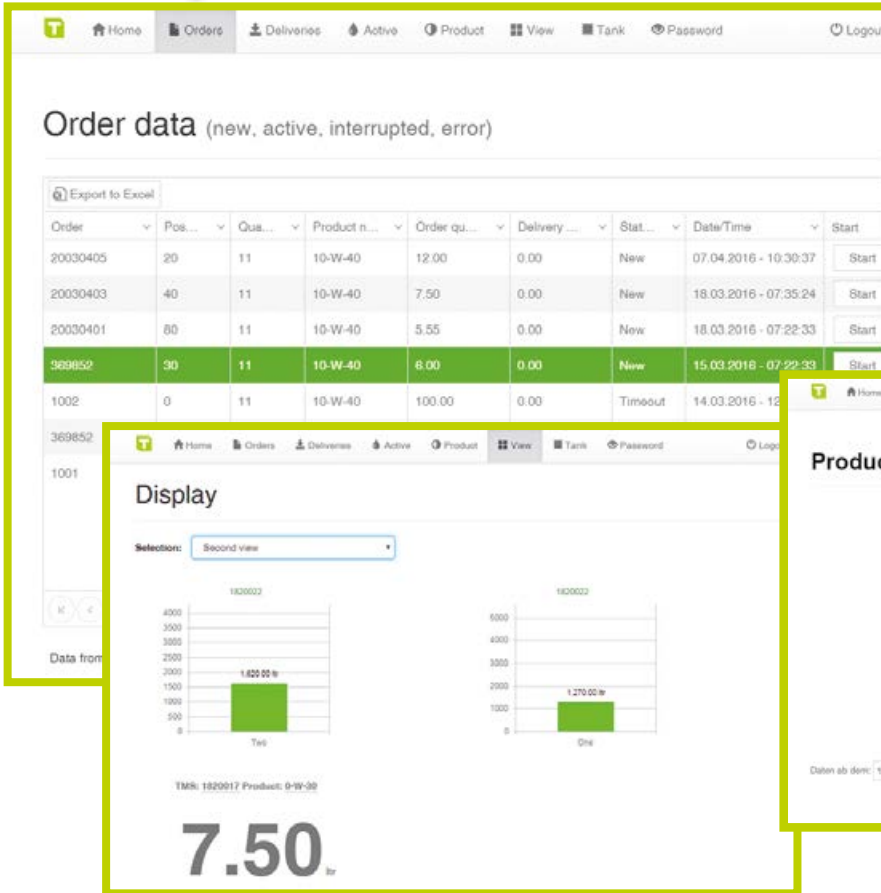
- No long cables need to be laid; reducing installation costs and times
- Information can be viewed directly at the vehicle, in the workshop, and at other locations simultaneously

Naturally, you will continue to enjoy the benefits you have come to know and love:

- Increase in revenue and productivity thanks to optimized processes
- Avoidance of oil wastage
- User-friendliness and proven Functionality
- Dispensing logs that are always available

NEW!

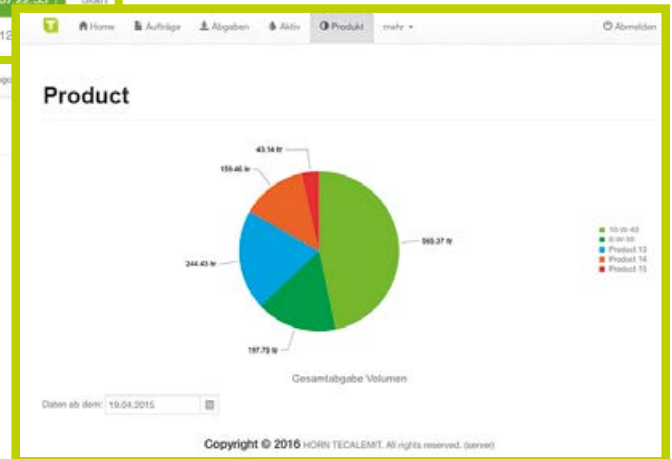
TMSair  - The software



The screenshot shows the TMSair web interface. The top navigation bar includes Home, Orders, Deliveries, Active, Product, View, Tank, Password, and Logout. The main content area is titled 'Order data (new, active, interrupted, error)' and contains a table with columns for Order, Pos., Qua., Product n., Order qu., Delivery, Stat., Date/Time, and Start. Below the table, there are two bar charts under the heading 'Display'. The first chart shows a value of 1.820.00 for 'Yes' and the second shows 1.270.00 for 'One'. A large '7.50' is displayed at the bottom of the display section.

OilControl Server

Via a network (LAN or WiFi), the **OilControl** software – which is now available in a server version – makes it easy to access all the features of TECALEMIT's oil management system in a clear and structured manner.



The screenshot shows the 'Product' view in the TMSair web interface. It features a pie chart titled 'Gesamtlieferungsvolumen' (Total delivery volume) with segments for Product 11, Product 13, Product 14, and Product 15. The values for the segments are 43.14 m³, 159.46 m³, 244.43 m³, and 985.27 m³ respectively. The date 'Daten ab dem: 19.04.2015' is shown below the chart. Copyright © 2016 HORN TECALEMIT. All rights reserved. (server)

Integration into a dealer management system (DMS)

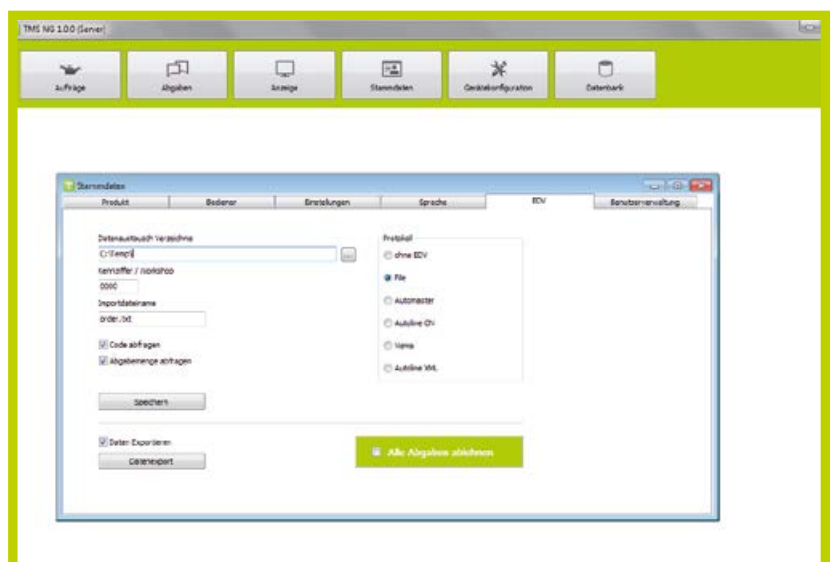
The **OilControl** software is offered in two variants (**eco and pro**). The standard version is provided by default along with the **TMS air**, while the paid full version includes interfaces to various dealer management systems. You can update to the full version at any time.

OilControl air
(included by default)

- Creating orders
- Assignment of dispensing licenses
- Consumption according to product group
- Dispensing logs

OilControl air pro

- Interfaces to all popular Dealer management systems
- Fill level monitoring (optional)



The screenshot shows the TMS 100 (Server) desktop application. The main window has a menu bar with 'zu Folge', 'Abgaben', 'Anfrage', 'Stammdaten', 'Datenkonfiguration', and 'Datenbank'. Below the menu bar is a 'Stammdaten' window with tabs for 'Produkt', 'Bediener', 'Erstellungen', 'Sprache', 'EDV', and 'Benutzerverwaltung'. The 'Produkt' tab is active, showing fields for 'Datenanforderung', 'CITencl', 'Genummer / Artikelnummer', 'Importdateiname', 'Code anzeigen', and 'Abgabemenge anzeigen'. There are buttons for 'Speichern' and 'Alle Abgaben abbrechen'.

TMSair[®] - Hardware



TMS air - The central unit

The TMS air is the next evolution of its predecessor, the TMS III with an independent display and control panel.

With this new model, orders can be viewed, selected, and managed **from anywhere** (e.g. directly from inside the vehicle during a filling procedure) via a **tablet**.



The benefits

- Wide-range power supply, 100 - 240 V
- Steel housing (UL-listed)
- Connector ports for up to 5 measurement and shut-off units
- LAN interface
- USB port for software update
- Optional internal WiFi module

The measurement and shut-off unit

When connected to the TMS air, the newly developed measurement and shut-off unit manages the activation of the fluid supply.

The **"plug & play"** unit guarantees short assembly times, and the compact design allows for space-saving installation.



The benefits

- 24 V low voltage supply
- 3/4" BSP with integrated protective filter
- Dual high flow/low flow valves
- High measuring accuracy
- Power cable with locking plug
- Housing mount, small installation dimensions

The LevelController air

The LevelMaster checks the fill levels in the storage tanks via corresponding probes and displays the information in the OilControl software.

The benefits

- Wide-range power supply, 100 - 240 V
- Steel housing (UL-listed)
- Connector ports for up to 5 fill level probes
- LAN port/optional internal WiFi module
- USB port for software update



TMSair

The TMS air and its corresponding hardware and software were developed primarily for use with a **LAN or WiFi** infrastructure. For classic installations, TECALEMIT naturally also continues to offer the TKS IV and TMS III devices. Designed as

a **scalable system**, it can be optimally configured to fulfill a wide range of requirements. **Highly customizable and robust** just like all TECALEMIT products.



030 471 300



030 480 000



030 366 011



030 480 010



030 480 030

| Item no. | Description |
|-------------|---|
| 030 471 300 | TMS air |
| 030 366 011 | Measurement & shut-off unit, 24 V, 5 m cable |
| 030 480 000 | LevelController air (LC air) |
| 030 480 010 | Full level probe for LC air, 200 mbar, 10 m cable |
| 030 480 020 | WiFi module |
| 030 480 030 | OilControl pro (without tablet) |



Dispensation via hose reel

For the dispensation of fluids in workshops, the **robustness** of the hose reels and nozzles play a particularly crucial role. 15 m of hose offer enough freedom of moment to maneuver in the workshop.

Because it is often the case that multiple fluids are required at a single working area, TECALEMIT's hose reels can be **connected in series** (i.e. mounted right next to each other in a row), allowing them to be installed in a particularly **space-saving** manner.



013 474 011



027 170 211



027 240552



027 240 532



027 705 000

043 561 011



027 133 582

| Item no. | Description |
|-------------|--|
| 013 474 011 | Hose reel for oil, closed, 15 m |
| 027 705 000 | Non-return valve |
| 027 133 582 | Ball cock 3/4", i/o, brass, nickel-pl. |
| 027 240 532 | Nozzle with sight glass and axial swivel joint, G 1/2", motor oil |
| 027 240 552 | Nozzle with sight glass and axial swivel joint, G 1/2", transmission fluid |
| 027 170 211 | HDZ FMOG ne MO |
| 043 561 011 | Oil drip pan, 1-piece |

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