

# 4 PRO TID System

System

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Torch Intelligent

Diagnostic

Torch

System

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**4 PRO**

TID  
System

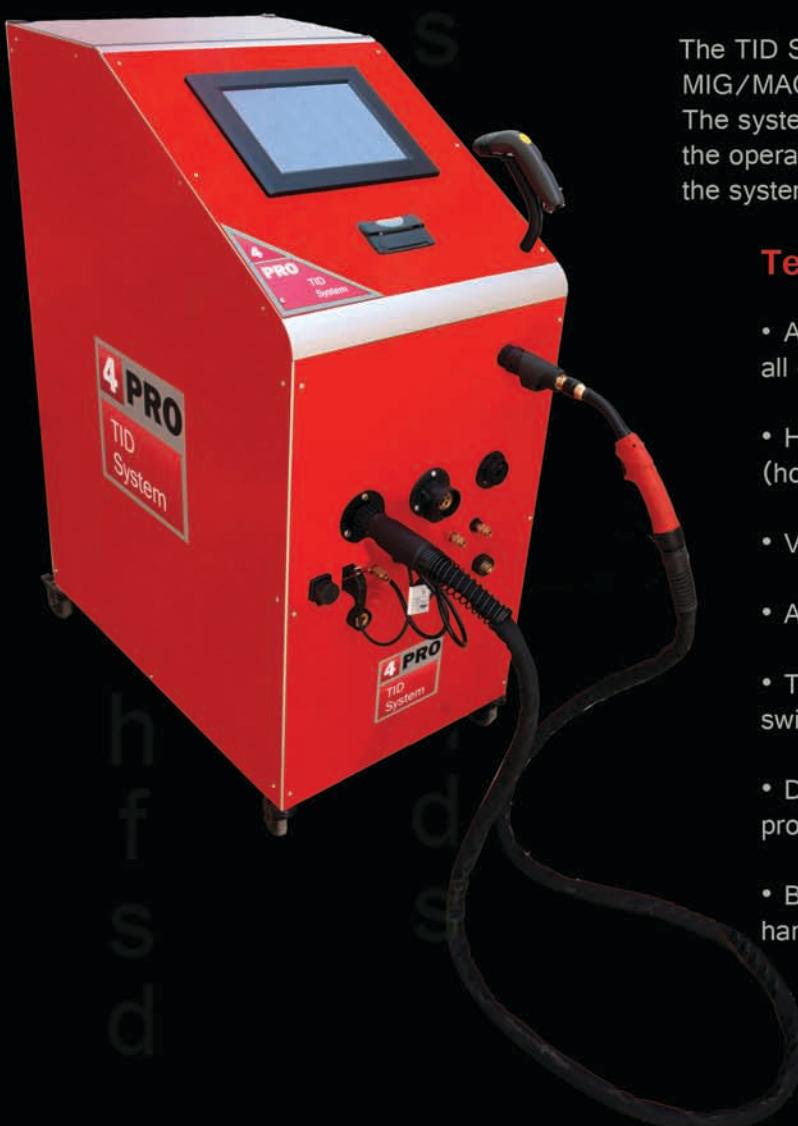
## TORCH INTELLIGENT DIAGNOSTIC SYSTEM

### Digital Technology

The 4Pro TID (Torch Intelligent Diagnostic) system is a unique, innovative and professional tool for diagnosing & testing damaged welding torches. It can also calibrate new and used torches. An ideal service both for manufacturers and for factories that have a large number of installed welding systems, for manual or robotic applications, and whose Maintenance Dpt applies a preventive maintenance schedule.

The TID system is made up from high quality technical components and operates on a proprietary software platform created especially for it by our automation specialists. The operation system is GNU/Linux and the communication between the controller and the digital power source is TCP/IP MODBUS.

The system is a diagnostic platform that performs low cost, multi-parameter diagnostic tests without the need for a highly skilled operator.



The TID System can run automatic tests on all kinds of MIG/MAG & TIG torches, whether water or gas cooled. The system uses PnD (Plug & Diagnose) process and the operator has only to plug both ends of the torch on the system to diagnose, test or calibrate a welding torch.

### Technical specifications

- Atmospheric and Hydrostatic pressure test of all cooling fluid passages (hoses and torch body)
- Hydrostatic flow test of all cooling fluid flows (hoses and torch body)
- Voltage drop test of welding torch power cable
- Atmospheric flow test on protection gas hose
- Test on trigger, cables, plugs and all parameter switches of the torch
- Documentation of all data of the diagnostic procedure
- Back up of all diagnostic tests on the system's hard disk

# 4 PRO

## TID System

### Versions

The system is available in 3 versions:

#### - TID Standard

The system can perform automatic diagnostic tests & calibration on one torch, ideal for small service & maintenance Dpt.

#### - TID Advanced

The system can perform parallel tests on 2 torches (same or different type), ideal for larger service & maintenance Dpt.

#### - TID Flash

The system can perform parallel tests on 3 torches. This system is ideal for big service & maintenance Dpt as well as welding torch manufacturers where diagnostic & calibration time is of crucial importance.

The system can be updated via Ethernet with a new database and new software versions. With few modifications, the system can run PnD tests on torches of all manufacturers.

### System Equipment

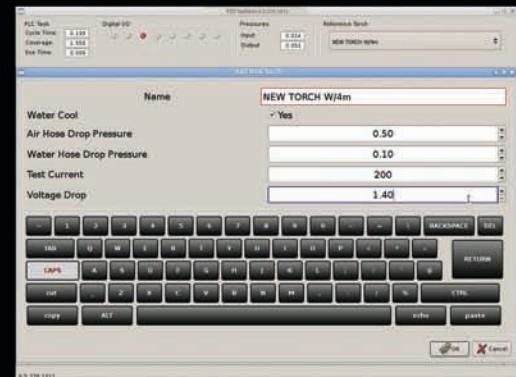
- Robust machine body with industrial aluminum profile
- Industrial panel pc with touch screen
- Industrial electrical panel
- Industrial hydro pneumatic panel
- Special GNU/Linux operation system
- Ethernet card/TCP IP MODBUS communication
- Digital power source
- Industrial printer
- Barcode reader
- Adaptors & connectors torch sets

### Advantages of use

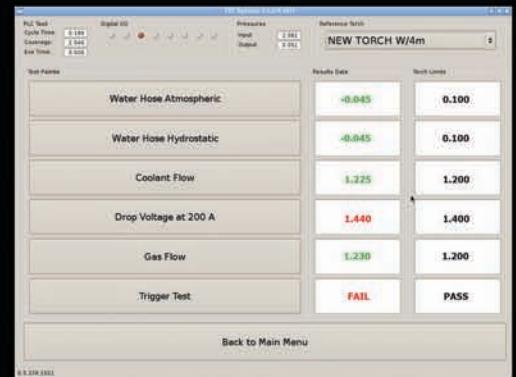
- Automated diagnostic procedure (Frees more time for the operator to do another job)
- Easy to use functions with user friendly touch screen menus (everything on one screen)
- Multiple tests on a single fool-proof automated procedure
- Parallel automatic test on 2 or 3 torches (version Advance & Flash)
- Easy torch connection with PnD process
- Faster diagnostic tests & service
- Back up of all data on one hard disk
- Fast search of diagnostic tests via barcode reader
- Updates via Ethernet
- System technical support via Internet & long distance access
- No human "mistakes" on the diagnostic procedure (Impossible to skip a test)
- Repeatability of perfect result (Guaranteed final check from a foolproof certified diagnostic system)
- Double check method (additional visual test by operator)
- Automatic calculation of the cost of the service according to the salary of the operator and the time spent
- Warranty of the repair with the data of the automated diagnostic procedure in the hands of the customer



Industrial panel pc with touch screen  
industrial printer & barcode reader



Automatic tests on all kinds of torches



Multiple tests on a single automated procedure

8 **SUPPORT**  
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TID System concept & development  
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