

PRODUCT CATALOGUE

PARTS & EQUIPMENT



ABOUT US

Our extensive supplier network enables us to offer competitive market pricing and ensure ready availability of spare parts whenever needed. We maintain professional storekeeping, conduct regular forecasting, continuously analyze stock movement, and ensure timely supply through proper requisition and demand management.

Furthermore, our investment in a reliable Inventory Management system and efficient Supply Chain Management allows us to cater to diverse customer needs promptly, minimizing vehicle or equipment downtime and meeting their expectations. To ensure quality repairs, we recommend using only parts and components of the highest standard.





BOSCH

DIESEL PARTS



Module



Nozzle



High Pressure Pump

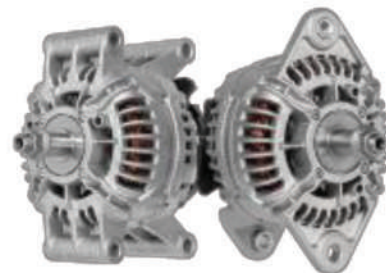


Injector

STARTERS & ALTERNATORS



Starter



Alternator

INSTRUMENTATIONS



Camera System



Instrument & Display



Lightening



Multimedia



Sensor



Driver Workplace



Radar System

DIESEL PARTS



Injector



Pump

Camera System



ProViu® 360

Customer value through HD Image quality

- HD surround view system
- 4x Megapixel HDR Cameras
- Platform solution, Adaptations possible
- Monitor: 10.1" HD Touch - Display
- Camera: 1,3 Megapixel HDR Camera
- Enhanced image quality especially under low light conditions



ProViu® 360 + Analog Video Converter

- Analog video converter supports the transition from ASL360 system to ProViu® 360 as well as the system integration into existing infotainment systems or Analog/AHD Monitors.
- Retrofit - and OE - solution, depending on individual needs.
- Offer two PAL video outputs and four digital inputs for screen trigger and activation.
- ECU and cameras must be replaced but (7") AHD monitor not immediately, upgrade to ProViu360® monitor can occur later to use all functionalities of the new system



Instruments & Displays

We offer a variety of Single Instruments as well as Display Solutions for your applications.

SingleViu®

SingleViu® is the high-end platform of single gauges from Continental and comprises a wide range of gauge types and variants for indicating all kind of vehicle parameters.

- › Dual signal input mode:
 - › CAN J1939
 - › Analog sensor data (plug & play)
- › Large number of variants for original equipment, retrofitting or as a replacement
- › Internal tell-tales, display and push-button
- › Configurable RGB background illumination of dial and display
- › Robust design for improved durability
- › Many customization possibilities (bezel and dial design, illumination, sensor curve, telltales)
- › User-friendly configuration
- › Automotive qualified



- 52 mm diameter:
- › Pressure gauge
 - › Tachometer
 - › Temperature gauge
 - › Tank level gauge
 - › Ampere meter
 - › Voltmeter
 - › Pyrometer
 - › DEF concentration gauge



- 80/85 and 100 mm diameter:
- › Speedometer
 - › Tachometer



SingleViu® is suitable for all kind of vehicles and stationary machinery



- 52 mm diameter:
- › Voltmeter
 - › Pressures
 - › Temperatures
 - › Fuel level
 - › Hour counter
 - › Clocks



- 80 and 100 mm diameter:
- › Speedometer
 - › Tachometer



Cockpit International is suitable for all kind of vehicles

Cockpit International

Cockpit International is an analog gauge family designed for different applications to indicate various vehicle parameters. Classic design detailed range below.

- › Cost optimized analog platform – plug & play with standard sensors
- › Different variants for retrofitting or as a replacement
- › Clear & classic design
- › Hour Counters and Clocks as stand-alone devices



MultiViu® Compact 7

- › Cost-optimized off-the-shelf display solution with a large variety of inputs.
- › Modular architecture offers easy customization (individual telltales, color-stripes, button backlight, logo)
- › Glass lens covering the entire front
- › High brightness makes it easy to read even in adverse lighting conditions.
- › Can be used either as primary cluster or as secondary instrumentation.
- › Application programming by KIBES®



- › Full digital 7" TFT display with optional capacitive touch function
- › Black panel effect
- › Available in 2 variants (basic, full)
- › 24 backlight telltales or 12 telltales & 6 configurable touch buttons



MultiViu® Compact 7 is suitable for agriculture, construction, 2-wheeler and power sports



MultiViu® Professional 12 is suitable for agriculture, construction, trucks and bus

MultiViu® Professional 12

- › Innovative stand-alone display product for presentation of pictures, 2D/2.5D graphics and videos
- › Super wide-view, high-contrast and fully programmable true-color 12.3" TFT display
- › Modular product concept with customizable telltale module and front frame
- › Optional telltale module with 11 telltales on top of the display, dual color LEDs, optional 4 capacitive touch buttons
- › Model based design system: software for application programming (KIBES®) and software for graphical HMI programming
- › Wide variety of interfaces to integrate it easily into the vehicle architecture

- Intended for use on internal combustion engines and gas turbines
- Operates at a pressure ranging from 3-4 MPA (30-40 bar)
- Two step engine starting sequence consisting of engagement and starting
- Very lightweight starters, left and right sense of rotation high endurance
- Lubrication free
- Only starter to operate directly at 30-40 bar
- Long starter life and easy maintenance
- Start engines with up to 12.000 kW and more
- Save additional piping, relief valve, gauges & the problematic pressure reducing valve needed for other non-GALI starter installations



Range of GALI Starters

Model	Max. Working Pressure	Max. Torque	Speed Range	Speed at Max. Power	Max. Power	Net Weight
A17	40 bar	88 Nm	0 - 4.000 rpm	4.000 rpm	16.5 kW	6.6 kg
A27	40 bar	188 Nm	0 - 4.000 rpm	2.800 rpm	30 kW	13 kg
A47	30 bar	540 Nm	0 - 3.500 rpm	2.300 rpm	66 kW	26 kg
A48	30 bar	640 Nm	0 - 3.500 rpm	2.200 rpm	77 kW	34 kg
S30	30 bar	305 Nm	0 - 3.500 rpm	2.500 rpm	41.5 kW	21 kg
S38	30 bar	360 Nm	0 - 3.500 rpm	2.500 rpm	42 kW	21.5 kg
G300	40 bar	380 Nm	0 - 3.500 rpm	2.500 rpm	46 kW	21 kg

GALI Starters are successfully installed in

- Generator sets
- Motor pump sets
- Locomotives
- Forklift truck engines
- Industrial vehicles
- Offshore sea platforms
- Conventional and nuclear power plants
- Marine propulsion and auxiliary engines
- Mines

Hydraulic Starter

Applications

- Used to start diesel engines e.g., marine, oil and gas, offshore, etc.

How it works

- Oil activates hydraulic motor in starter
- Hydraulic motors pistons move disc
- Disc transforms linear movement to circular
- Circular motion transmitted to inertia friction clutch
- Inertia friction clutch's pinion turns

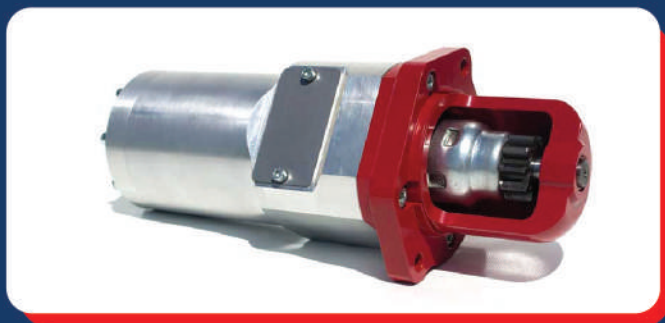
Energy supply to the starter

- Power from coil in hydraulic unit
- Includes oil tank and N²
- Option for electric pump, manual hand pump, or both
- Oil compressed up to 210 bars
- Hydraulic motor movement initiated by oil from starter
- Customizable according to customer technical specifications

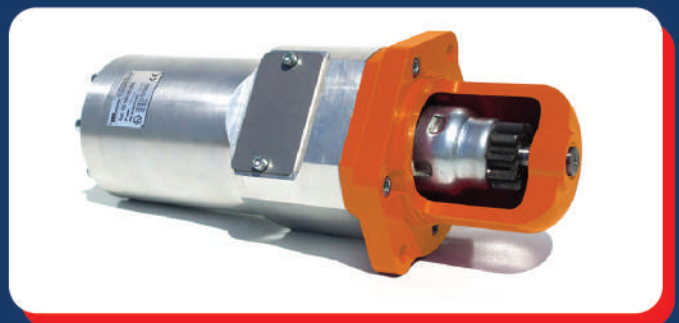
Advantages

- Closed and independent circuit
- Manual activation possible
- Suitable for black start scenario
- Usable under extreme environmental conditions
- Closed and sealed design
- Unaffected by long periods of inactivity
- Resistant to damp and hostile environments
- Always ready to start the engine
- Very low maintenance required
- Easy assembly with frontal flange

All our starters are available as explosion certified acc. the ATEX 94/9/EC and IECEx directives.



Hydraulic Starter



ATEX - Hydraulic Starter



Hydraulic Starter

- Hydraulic starting systems
- Ideal for black start emergency condition
- Very low maintenance required
- Independent start system for extreme environmental conditions
- **H5 • H10 • H15**
- **H20 • H25 • H30**



Electrical Starter - ATEX

- Electric starters protected for hazardous areas with explosive gases
- Comply with ATEX directive 2014/34/EU
- Includes 4m electric cable with Exd glands
- Longer cables available
- **ATEX-IECEX**



Pneumatic Starter - ATEX

- Specialize in complete starting solutions for diesel and gas engines, with ATEX-compliant protection
- Certified to ATEX 2014/34/EU and IECEx standards
- Pre-engaged with ex-proof solenoid valves
- Non-sparking stainless steel pinions prevent sparks
- **ATEX-IECEX**



Starter Battery - ATEX

- Designed for hazardous areas (category 2GD) under ATEX directive 2014/34/EU
- Suitable for environments with gas, dust, vapour mist, or coal mining presence
- Available in 12V or 24V configurations with battery capacities ranging from 35Ah to 225Ah
- **ATEX-IECEX**



Air Shut Off Valves

- Special guillotine - design
- Extremely fast closing process
- Easy installation and handling
- Very compact design
- Operating temperature range -20°C to 230°C
- **Model 2" - 3" • Model 4"**
- **Model 5" • Model 7"**
- **Model 9.5" • ATEX-IECEX**



Shut Off Valves - ATEX

- Ensure immediate engine shutdown, compliant with ATEX directive
- Maintain electrical continuity
- Compact, maintenance-free, and highly reliable
- Special cable glands and sizes available on request
- Various flange options for easy engine installation
- **ATEX-IECEX**



Engine Turning Mechanism

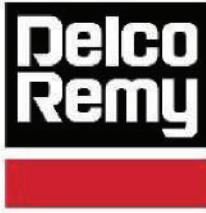
- For engine build up and service work
- Its self-locking guarantee to operate in a safe way
- Designed to slowly rotate the engine crankshaft
- Driven by electric or pneumatic drivers are able to turn big engines
- **Turning 300 • Turning 500**
- **Turning 800 • Drivers**



Alternator - ATEX

- Zone 1, 2 or 21, 22 categories (2GD IIA-IIB) under ATEX directive compliance
- Operate safely in potentially explosive atmospheres with gas, vapor, or dust
- Replace standard alternators in hazardous conditions
- Available in 12V/35A and 24V/15A configurations for continuous operation
- **ATEX-IECEX**

OUR DEALERSHIPS



Starter & Alternator



Delphi
Technologies

Diesel Fuel Injection



Diesel Fuel Injection



Starter & Alternator



asimco
TECHNOLOGIES



Diesel Fuel Injection



Diesel Fuel Injection



TierraTech® provides standard ultrasonic cleaning equipment and systems or turn-key projects which offer optimal cleanability thanks to the combination of ultrasonic, detergent and water. Large national and international companies in the naval, aeronautical, and automotive industry have already relied on the MotorClean line with customized or standard equipment, manual or fully automated, specially designed to clean their parts and improving their production process.



**HIGH-QUALITY
CLEANING**



**REDUCES LABOUR
TIME, BENEFITING
OTHER TASKS IN THE
PRODUCTION PROCESS.**



**REDUCES
ENERGY COSTS**



**SAVINGS IN WATER
AND CLEANING
PRODUCTS BY
IMMERSION
CLEANING**



**TECHNOLOGIE
PLUS
RESPECTUEUSE DE
L'ENVIRONNEMENT**



**TIERRATECH®
GUARANTEE**

AUTOMOTIVE SECTOR

Before and After cleaning



Workshop - Carburetor



Marine - Intercooler & MTU Engine



Workshop - Turbocharger



Heavy Machinery
Cylinder Head & Tubular Beam

Standard Equipment

Capacities ranging from 30 to 8000 liters



MOT-75

- **Capacity :** 75 l
- **Internal dimensions :** 700 x 350 x 400 mm
- **Useful measurement :** 650 x 300 x 290 mm
- **External dimensions :** 1075 x 575 x 900 mm
- **Power supply :** 240V
- **Heating element :** 1350W
- Ultrasound generator with an output power of 800Wp (1600Wp-p)
- **Working frequency :** 40 KHz. Frequency sweep System (Sweep System 32%)
- 16 PZT (lead zirconate titanate) piezo-electric transducers with aluminum alloy body
- Tank made of 2 mm thick stainless steel AISI 316
- **Weight :** 71 kg



MOT-600N

- **Capacity :** 600 l
- **Internal dimensions :** 1300 x 735 x 665 mm
- **Useful measurement :** 1230 x 650 x 430 mm
- **External dimensions :** 2050 x 1200 x 1070 mm
- **Power supply :** 400V
- **Heating element :** 9000W
- Ultrasound generators with an output power of 6000Wp (12000Wp-p)
- Ultrasonic power: 6000Wp (12000Wp-p)
- **Working frequency :** 40 KHz. Frequency sweep System (Sweep System 32%)
- 34 PZT (lead zirconate titanate) piezo-electric transducers with aluminum alloy body
- Tank made of 2 mm thick stainless steel AISI 304
- **Weight :** 400 kg
- **Pneumatic load platform :** Up to 350 kg



MOT-8000

- **Capacity :** 8000 l
- **Internal dimensions :** 3000 x 2000 x 1495 mm
- **Useful measurement :** 2800 x 1800 x 1175 mm
- **External dimensions :** 4000 x 2640 x 1795 mm
- **Power supply :** 400V
- **Heating element :** 60000W
- Ultrasound generators with an output power of 600Wp (1200Wp-p)
- Ultrasonic power: 4000Wp (80000Wp-p)
- **Working frequency :** 40 KHz. Frequency sweep System (Sweep System 32%)
- 34 PZT (lead zirconate titanate) piezo-electric transducers with aluminum alloy body
- Tank made of 2 mm thick stainless steel AISI 304
- **Weight :** 3500 kg



MOT-4000N

- **Capacity :** 4000 l
- **Internal dimensions :** 2400 x 1500 x 1260 mm
- **Useful measurement :** 2280 x 1380 x 900 mm
- **External dimensions :** 4165 x 2260 x 1560 mm
- **Power supply :** 400V
- **Heating element :** 30000W
- Ultrasound generators with an output power of 24000Wp (48000Wp-p)
- Ultrasonic power: 24000Wp (48000Wp-p)
- **Working frequency :** 40 KHz. Frequency sweep System (Sweep System 32%)
- 34 PZT (lead zirconate titanate) piezo-electric transducers with aluminum alloy body
- Tank made of 2 mm thick stainless steel AISI 304
- **Weight :** 2800 kg
- **Pneumatic load platform :** Up to 2000 kg

Special Equipment

Customized according to customer needs



MULTISTAGE MOT-2x150N

Special ultrasonic cleaning equipment with two stages of 170 liters of capacity and two baskets for loading, draining, and unloading of parts that during the process of remanufacturing need to be completely cleaned from paint and coatings.

Useful dimensions: 670 x 415 x 335 mm

Internal dimensions: 700 x 480 x 540 mm

Capacity: 170 l



MANUAL MULTISTAGE MOT-2000N-AF-AF-H

Manual multistage equipment with four tanks of 2000 l capacity. The direction on the cleaning of the engine parts will be from left to right starting with the ultrasonic cleaning, then cold rinsings, and passivation tank.

Useful dimensions: 1650 x 910 x 800 mm

Internal dimensions: 1770 x 1030 x 1150 mm

Capacity: 2200 l



ONE-TANK MOT-4000N 2 TTF2

Ultrasonic cleaning equipment with one tank of approx. 4100 l of capacity, automatic insulated lid and pneumatic lifting platform for loading and immersion of engine parts of the naval sector.

Useful dimensions: 2280 x 1380 x 900 mm

Internal dimensions: 2400 x 1500 x 1260 mm

Capacity: 4100 l



ONE-TANK MOT-1600+TTF2

Special one-tank equipment of approx. 1700 l of capacity, slopping bottom and waterflow system with independent tank cleaning for the collection of oil and residual particles from cleaning parts of the grinding industry.

Useful dimensions: 3000 x 800 x 400 mm

Internal dimensions: 3100 x 900 x 710 mm

Capacity: 1700 l

INDUSTRIAL SECTOR

Applications by sectors

- Automotive
- Graphics
- Surface Treatment and Electroplating
- Food
- Electronics
- Marine
- Aeronautics
- Mold Sector
- Nuclear, Wind, Thermal, Cogeneration, Solar
- Pharmaceutical and Laboratory
- Machining and Turning
- Maintenance

Customized Solutions

SINGLE TANK

TT-400AC

Customized 400 liter (105 gal) capacity manual single tank with external stainless steel paneling and inclined tank bottom for proper cleaning and hot rinsing with spinners and filter discs for the removal of plastic and polymer components.



USEFUL MEASURES: 157x8x20 in
INTERNAL MEASURES: 157x8x24 in
CAPACITY: 105 gal

MULTI TANK

TT-5x150N

Manual, multi-tank for cleaning parts and components in the aeronautical sector. The equipment is made up of 5 tanks: ultrasonic cleaning, hot ultrasonic rinsing, 2 hot rinsing tanks and a cold treatment tank.



USEFUL MEASURES: 20x16x16 in
INTERNAL MEASURES: 23x19x29 in
CAPACITY: 50 gal

MULTI TANK

TT-3x260

Modular ultrasonic cleaning system with automated lateral transfer for cleaning steel discs for the food sector. It integrates 3 tanks with a useful capacity of 260 liters (70 gal) each: ultrasonic tank + rinse tank in cold water by sprinkler + compressed air drying tank. The assembly has a security enclosure with light aluminum profile and steam extraction system.



USEFUL MEASURES: 26x13x17 in
INTERNAL MEASURES: 31x16x31 in
CAPACITY: 69 gal

HEAVY EQUIPMENT

MULTI TANK AUTOMATIC

TT-5x1850 US+CR+US
(ACID)+HR+D

Ultrasonic cleaning installation of 5 tanks with a capacity of 2,150 liters (568 gal) each for the automotive sector. The cleaning process is carried out in this case from left to right according to the customer's requirements with a gantry crane loading system to handle racks that transport parts up to 600 kg. The 5 tanks are arranged between the loading and unloading areas: Ultrasonic cleaning+cold rinsing+Ultrasonic cleaning+hot rinsing+drying tank.



USEFUL MEASURES: 90 x 16x 48 in
INTERNAL MEASURES: 98 x 24 x 56 in
CAPACITY: 568 GAL

Standard Equipment

Capacities ranging from 30 to 8000 liters



TT-50

- **Capacity :** 50 l
- **Internal dimensions :** 610 x 305 x 254 mm
- **Useful measurement :** 508 x 254 x 178 mm
- **External dimensions :** 711 x 406 x 508 mm
- **Power supply :** 240V
- **Heating element :** 700W
- Ultrasonic generator with an output power of 600Wp (1200Wp-p)
- **Working frequency :** 40 KHz. Sweep System 32%
- 12 PZT (lead zirconate titanate) piezo-electric transducers with aluminum alloy body
- Tank built in INOX AISI 316 Stainless steel, 0,08" inch thick
- **Weight :** 35 kg



TT-8000

- **Capacity :** 8000 l
- **Internal dimensions :** 2997 x 2007 x 1499 mm
- **Useful measurement :** 2794 x 1804 x 1169 mm
- **External dimensions :** 3988 x 2642 x 1804
- **Power supply :** 400V
- **Heating element :** 60000W
- Ultrasound generators with an output power of 40000Wp (80000Wp-p)
- Ultrasonic power: 40000Wp (80000Wp-p)
- **Working frequency :** 40 KHz. Sweep System 32%
- 34 PZT (lead zirconate titanate) piezo-electric transducers with aluminum alloy body
- Tank built in INOX AISI 316 Stainless steel, 0,08" inch thick
- **Weight :** 3500 kg



TT-1000N

- **Capacity :** 1000 l
- **Internal dimensions :** 1500 x 813 x 864 mm
- **Useful measurement :** 1423 x 711 x 584 mm
- **External dimensions :** 2921 x 1397 x 1902 mm
- **Power supply :** 400V
- **Heating element :** 14000W
- Ultrasonic generators with an output power of 8000Wp (16000Wp-p)
- Ultrasonic power: 8000Wp (16000Wp-p)
- **Working frequency :** 40 KHz. Sweep System 32%
- 34 PZT (lead zirconate titanate) piezo-electric transducers with aluminum alloy body
- Tank built in INOX AISI 316 Stainless steel, 0,08" inch thick
- **Weight :** 550 kg

ADDITIONAL PRODUCTS



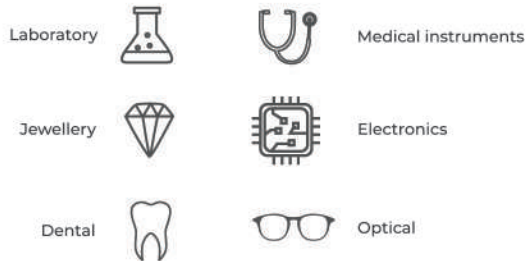
Generators



Cleaning Products

LAB EQUIPMENT

Sectors



Technical Data

	LT-50 PRO	LT-80 PRO	LT-100 PRO	LT-150 PRO	LT-200 PRO	LT-300 PRO	LT-400 PRO	LT-600 PRO
Capacity	1L	1.5 L	2.6 L	5.3 L	8.4 L	13 L	21 L	26 L
Internal Dimensions (mm)	155 x 140 x 65	155 x 140 x 100	237 x 136 x 100	300 x 150 x 150	295 x 235 x 150	325 x 295 x 150	500 x 295 x 150	500 x 295 x 200
External Dimensions (mm)	175 x 160 x 260	175 x 160 x 260	265 x 260 x 261	325 x 176 x 318	325 x 265 x 391	380 x 360 x 380	530 x 323 x 380	528 x 325 x 437
Power supply	50W (100W p-p)	80W (160W p-p)	100W (200W p-p)	150W (300W p-p)	200W (400W p-p)	300W (600W p-p)	400W (800W p-p)	600W (1200W p-p)
Frequency	40 KHz $\pm$ 2% Sweep System	40 KHz $\pm$ 2% Sweep System	40 KHz $\pm$ 2% Sweep System	40 KHz $\pm$ 2% Sweep System	40 KHz $\pm$ 2% Sweep System	40 KHz $\pm$ 2% Sweep System	40 KHz $\pm$ 2% Sweep System	40 KHz $\pm$ 2% Sweep System
Transducers	1	1	2	3	4	6	8	12
Heating	100 W	100 W	150 W	150 W	300 W	300 W	700 W	700 W
Consumption	150 W	180 W	250W	300 W	500 W	600 W	1100 W	1300 W
Panel de control	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
Basket	✓	✓	✓	✓	✓	✓	✓	✓
Drainage ball valve	-	-	-	1/2"	1/2"	1/2"	1/2"	1/2"
Power supply	220 V	220 V	220 V	220 V	220 V	220 V	220 V	220 V

Charateristics

Emitters :

High-performance IBL titanium-steel piezoelectric transducers

Control panel:

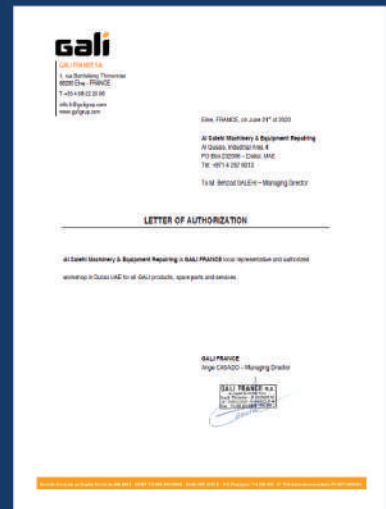
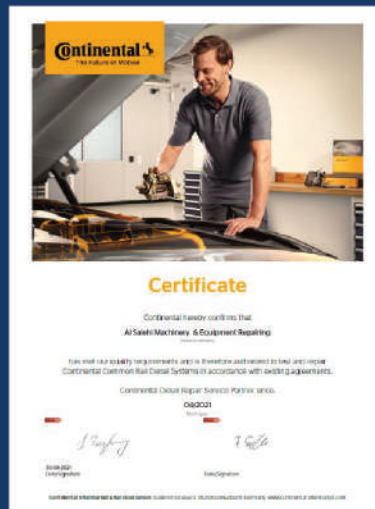
General switch
Ultrasound time selector : 0 - 60 min
Temperature selector : 0° - 80° C

Finishes and accessories :

AISI 316 stainless steel tank
Steel anti-fingerprint panelling
1 stainless steel basket
Heat-Insulated stainless end-of-day-Ild



Our Letter of Authorization





The Company is managed by **Behzad Salehi**

2016

Standyne Master Trainer
Standyne - Windsor
Connecticut, USA

2012

Certificate for Bosch Training
Course on CRI & CRIN Repair Stage - 3
Middlesex, United Kindom

2007

State-certificate Engineer
for Automotive Industry
Technical Collage for Engineering
Hannover, Germany

2007

Master of Automotive
Chamber of Crafts
Hannover, Germany

2003

Bosch Diesel Technician
Robert Bosch GmbH
Stuttgart, Germany

2000

Automotive Electrician
Bosch Maurer
Hannover, Germany



DISCOVER AUTOMOTIVE EXCELLENCE ALL UNDER ONE ROOF

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- Enhance performance, ensure safety, and refine aesthetics effortlessly.
- Experience convenience with a unified destination for all your automotive needs.
- Trust in products that embody excellence, durability, and innovation from renowned manufacturers.



Al Salehi

DRIVEN BY INNOVATION & QUALITY

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