864 Robotic Balance Sample Processor TAN/TBN

2.864.1130

The Robotic Balance Sample Processor TAN/TBN offers the rapid and convenient preparation and analysis of petrochemical products in a single system.

An aliquot of the sample is fully automatically weighed into the titration beaker and diluted with solvent, after which titration is used to determine the TAN and/or TBN value. After analysis, the titration beaker is emptied and the electrode is cleaned and conditioned. Traceability is ensured by the direct preparation on the Balance Sample Processor and the danger of mixing up externally prepared samples is eliminated.

The entire system is monitored with the proven titration and control software **tiamo™**, the database of which documents each preparation step (including sample size) and the titration results, clearly and separately for each sample.

Below, the accessories are grouped into Scope of delivery and Optional accessories.
Please keep this printout at hand for ordering replacement material.
These lists may be subject to change.

Scope of delivery 2.864.1130

Order Number	Description	Quantity
1.802.0010	**802 Rod Stirrer for 727 Ti Stand** Rod stirrer with separate 6.2137.000 Speed controller and 6.1909.010 Propeller stirrer.	1 PCS
1.843.0120	**843 Pump Station (peristaltic)** The 843 Pump Station (peristaltic) has two built-in peristaltic pumps. These can be controlled directly via the interface using remote signals or manually by pressing a button.	1 PCS
1.905.0010	**905 Titrando** High-end titrator for use with intelligent electrodes – iTrodes – with – up to four dosing systems of the 800 Dosino type – dynamic (DET), monotonic (MET) and endpoint titration (SET) – Measurement with ion-selective electrodes (MEAS CONC) – Dosing functions (DOS), Liquid Handling – four MSB connectors – one galvanically isolated measuring interface – USB connector	1 PCS

6.0229.020

Solvotrode easyClean (fixed cable 2.0 m) 1 PCS

Combined pH electrode with flexible easyClean diaphragm and fixed cable (2.0 m) for all automated, non-aqueous acid/base titrations.
The glass membrane is optimized for poorly conducting solutions, and thanks to the easy-to-clean easyClean diaphragm, the electrode is well suited for heavily contaminated samples, such as used oil.
This electrode can be used with non-aqueous reference electrolytes (lithium chloride or tetraethylammonium bromide). Storage in the respective reference electrolyte.

6.1236.020

Sleeve with SGJ 14/12 mm 2 PCS

Sleeve with SGJ 14/12 mm and O-ring.

6.1458.040

Titration Head, 3 x SGJ 14 1 PCS

Titration head for 120 mL beakers. With 3 openings SGJ 14 and 4 openings 6.4 mm, 2 dosing tips included. Suitable for rinsing and aspiration equipment.

6.1459.300

Sample beaker, plastic (PP), 120 mL, 250 pieces 2 PCS

Sample beaker, plastic (polypropylene, PP), 120 mL, suitable for sample racks: 6.2041.470, 6.2041.840, 6.2041.850, 6.2068.010, 6.2068.020, 6.2068.030, and 6.9920.141, 250 pieces

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6.1462.240

Transfer head for 786 Swing Head, bent and right swinging 1 PCS

Transfer head, bent and right swinging, for 786 Swing Head. In combination with the 6.1808.220 Adapter the transfer head can be used on multi-row racks to pick up tools with luer connection.

6.1462.260

Robotic arm with holder for titration head, left swinging, external 1 PCS

Titration head holder for 786 Swing Head with possibility of swinging to external positions

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6.1543.170

Aspiration tip / M8 thread 1 PCS

Aspiration tip for the Sample Processors.

6.1546.030

Piston tongs 1 PCS

For pistons for 807 Dosing Units or cylinder units OMNIS.

6.1562.240

Pipetting tips 1-10 mL (200 pieces) 1 PCS

Eppendorf tips for use with 864 Robotic Balance Sample Processor

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6.1608.030

Round glass bottle / 1000 mL / GL 45 1 PCS

6.1608.070

Eluent bottle / 2 L / GL 45

2 PCS

6.1621.000

Container 10 L

2 PCS

As rinsing or waste container in automated systems.

6.1621.100

Cap for 10-L container

2 PCS

Cap for 10-L container. For easy and safe transportation of filled containers.

6.1625.010

Collection container for Soliprep

1 PCS

Container for safe collection of used tools in automated systems

6.1805.060

FEP tubing / M6 / 60 cm

3 PCS

With light and kink protection

6.1805.120

FEP tubing / M6 / 100 cm

2 PCS

With light and kink protection.

6.1805.130

FEP tubing / M6 / 120 cm

1 PCS

With light and kink protection

6.1805.510

PTFE tubing / M8 / 60 cm

1 PCS

With protection against kinks.

6.1808.170

Distributor for Sample Processors for rinsing and aspirating 1 PCS

Distributor for installation on Sample Processors for rinsing and aspirating when using externally connected pumps.

6.1808.250

Pipette adapter 1-10 mL for transfer head 1 PCS

Adapter with outside thread M6 and Eppendorf conus to use with transfer head 6.1462.240 for usage of 10 mL Eppendorf tips

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6.1812.000

PTFE tubing 4 mm / 6 mm / 4 m 2 PCS

6.1820.050

M6 / Olive adapter 4 PCS

For 6.1826.100 pump tubing, to peristaltic pumps.

6.1826.160

Viton pump tubing 2 PCS

For peristaltic pumps.

6.1828.000

PVDF connection nipple 2 PCS

For 6.1621.000 canister.

6.1909.050

Stirring propeller / 102 mm 1 PCS

Propeller for 802 Stirrer when this is used with sample racks for 120 mL beakers (6.1459.300)

6.2057.150

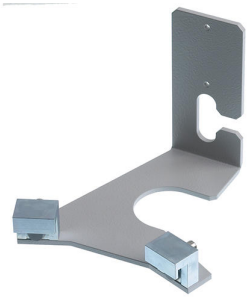
Holder for collection container 1 PCS

Holder for mounting collection container

6.2057.160

Holder for ionization rod for 864 Robotic Balance Sample Processor

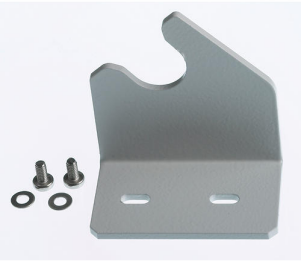
1 PCS



6.2058.070

Deflector for adapter 61808250

1 PCS



The deflector is mounted with the fastening plate 6.2058.050 at the side of the Sample Processor tower and allows the automatic pulling off the used pipetting tips into the collection container 6.1625.010.

6.2067.100

Scale pan for sample rack 6.2068.010

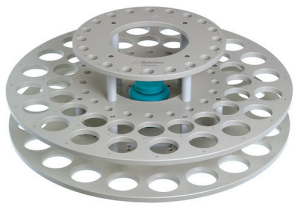
20 PCS

The scale pan is designed for the 120 mL PP beaker (6.1459.300) and is placed into the sample rack of the 864 Balance Sample Processor.

6.2068.010

Sample rack, 20 x 120 mL, (PP)

1 PCS



Sample rack for 864 Balance Sample Processor, suitable for 20 sample beakers. The following sample beakers can be used: 6.1459.300.
Plastic: Polypropylene (PP)

6.2141.300

Remote cable 843 Pump Station to Sample Processor 1 PCS

Remote cable for the direct connection of the 843 Pump Station to the pump connectors of the Sample Processors

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6.2151.000

Cable USB A – mini-DIN 8-pin 2 PCS

Controller cable

6.2320.000

TEABr 0.4 mol/L in ethylene glycol (250 mL) 1 PCS

Electrolyte solution TEABr (tetraethylammonium bromide in ethylene glycol), c(TEABr) = 0.4 mol/L

6.2621.030

Hexagon key 4 mm 1 PCS

6.2621.070 **5 mm hex key for IC Sample Processors** 1 PCS

6.2621.120 **Hexagon key 1.5 mm** 1 PCS

6.2621.140 **Hexagon key 2.5 mm** 1 PCS

6.2711.080 **Drip pan for 864 Robotic Balance Sample Processor** 1 PCS

The drip pan guards Robotic Balance Sample Processor and balance against contamination / corrosion by chemicals.

6.2751.160

Safety shield for 864 Robotic Balance Sample Processor, left 1 PCS

The safety shield for the left-hand work station of the Robotic Balance Sample Processor has a recess for use with the 6.2068.010 sample rack.

6.2831.000

Checking mirror 1 PCS

For position determination

6.3032.220

807 Dosing Unit 20 mL 2 PCS

807 Dosing Unit with integrated data chip with 20 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.

6.3032.250

807 Dosing Unit 50 mL 1 PCS

807 Dosing Unit with integrated data chip with 50 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.

1.800.0030

800 Dosino (cable length 1.5 m) 3 PCS

Drive with write/read hardware for intelligent dosing units. With permanently attached cable (length 1.5 m).

Optional accessories

2.135.0205
Balance for 864 Robotic Balance Sample Processor, 115V

The balance (Precisa) has a special construction for usage below the sample rack 6.2068.010 of the 864 Robotic Balance Sample Processor. The power supply is for 115V.

2.135.0206
Balance for 864 Robotic Balance Sample Processor, 230V

The balance (Precisa) has a special construction for usage below the sample rack 6.2068.010 of the 864 Robotic Balance Sample Processor. The power supply is for 230V.

2.136.0305
Ionizer for 864 Robotic Balance Sample Processor, 115V

Ionizer (HAUG) for 864 Robotic Balance Sample Processor with power supply for 115V.

2.136.0306
Ionizer for 864 Robotic Balance Sample Processor, 230V

Ionizer (HAUG) for 864 Robotic Balance Sample Processor with power supply for 230V.

2.843.0130
843 Pump Station (peristaltic) - rinse/aspirate for Compact Sample Changer

The 843 Pump Station (peristaltic) has two built-in peristaltic pumps. These can be controlled directly from the 869 Compact Sample Changer via remote signals. The Rinse / Aspirate version is provided with all the accessories needed for automatically emptying the titration beaker and rinsing the titration equipment. The accessories are defined for usage with the 869 Compact Sample Changer.

2.849.0010
849 Level Control

Additional equipment for Sample Processors for monitoring the filling level of rinsing or waste canisters via Remote. Prevents pumps from running dry and/or canisters from overflowing and is suitable for use with aqueous solutions, solvents and suspensions.

6.2148.010
Remote Box MSB

Additional remote interface for the connection of devices that can be controlled via remote lines. With permanently attached cable.

6.5622.000
Equipment for second pump for 864 Robotic Balance Sample Processor

Accessories set for the connection of a second 843 Pump Station with external washing station to 864 Robotic Balance Sample Processor

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6.9013.000
Ionisation rod for ionizer

The ionisation rod is mounted with the holder (6.2057.160) to the 864 Robotic Balance Sample Processor.