

In a unique endeavor, IKA owner René Stiegelmann has partnered up with Professor Phil S. Baran of the world-renowned Scripps Research Institute in La Jolla, California (USA). Over three years, engineers and chemists have worked hand in hand to develop a product combining two divisions of chemistry communities: the Electrochemical and the mainstream Synthetic Organic Chemistry Communities that traditionally don't have much in common.

ELECTRASYN 2.0 PACKAGE

/// Your chemistry has potential

Three devices
in one



reddot award 2018
winner



ElectraSyn 2.0 essentially combines three products in one and will facilitate the mass adoption of electrochemistry for preparative organic synthesis: a potentiostat, an analytical device and a magnetic stirrer. It is a compact, user friendly and cost effective platform for organic chemists to explore electrochemistry.

The ElectraSyn 2.0 Ready-To-Go package includes all that is required to for your first experiment: Potentiostat, including a single 10 ml vial, vial holder, stir plate attachment, and a set of electrodes (graphite).

ElectraSyn 2.0 Package

Ident. No. 0020008980



- › ElectraSyn 2.0 base unit
- + vial holder
- + single vial, 10 ml, complete
- + 2 electrodes (graphite)
- + stir plate attachment
- + stir bar

Ready-To-Go
package

ElectraSyn 2.0 pro Package

Ident. No. 0040003261



- › ElectraSyn 2.0 base unit
- + vial holder
- + single vial, 10 ml, complete
- + 2 electrodes (graphite)
- + stir plate attachment
- + stir bar
- + set of CV electrodes:
 - + CV glassy carbon
 - + CV platinum
 - + Silver reference electrode

TECHNICAL DATA

	ELECTRASYN 2.0 PACKAGE PRO PACKAGE
Stirring speed range	50 – 1500 rpm
Maximum voltage output	30 V 20 V 10 V
Maximum current output	100 mA
Display	TFT
Permissible ambient temperature	5 – 50 °C
Dimensions (W × H × D)	130 × 150 × 250 mm
Protection class according to DIN EN 60529	IP 40

ELECTRASYN 2.0 APP

Monitor reactions as well as CV graphs, transmit experiments, receive software update notifications, access the online IKA store for ordering supplies, and receive latest video tutorial updates. ElectraSyn 2.0 is a device that improves over time through regular software updates available through a simple app. You can also use the app to configure your ElectraSyn 2.0 by shopping available devices and accessories.





Carousel complete



GOGO Module



e-Hive

Graphite electrode
innerCopper electrode
outer

Product	Description	Ident. No.
ATTACHMENTS		
Carousel	Attachment for multi measurements	0020017512
Carousel complete	Attachment for multi measurements, incl. glass vials	0040005427
e-Hive	Screening platform with a maximum of 24 reactions	0040004945
GOGO Module	Universal extension for ElectraSyn 2.0	0040006052
Pro-Seal	Vial cap for gas exchange	0040007151
Pro-Divide	Reaction cell for divided electrochemistry	0040006482
Calibration cap	Calibration cap for ElectraSyn 2.0	0040007388

ELECTRODES FOR E-HIVE

Copper electrode inner	Anode copper (24 pcs.)	0040007427
Graphite electrode inner	Anode graphite (24 pcs.)	0040007430
Stainless electrode inner	Anode stainless steel (24 pcs.)	0040007429
Copper electrode outer	Cathode copper (24 pcs.)	0040007436
Graphite electrode outer	Cathode graphite (24 pcs.)	0040007438
Stainless electrode outer	Cathode stainless steel (24 pcs.)	0040007443

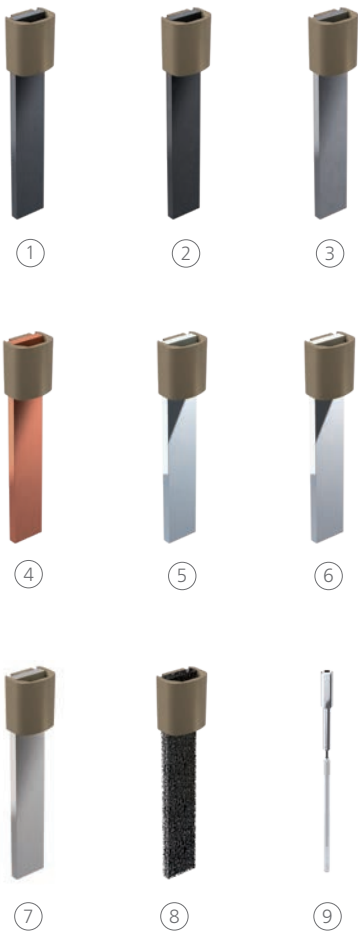


ElectraSyn 2.0 Complete Starter Kit

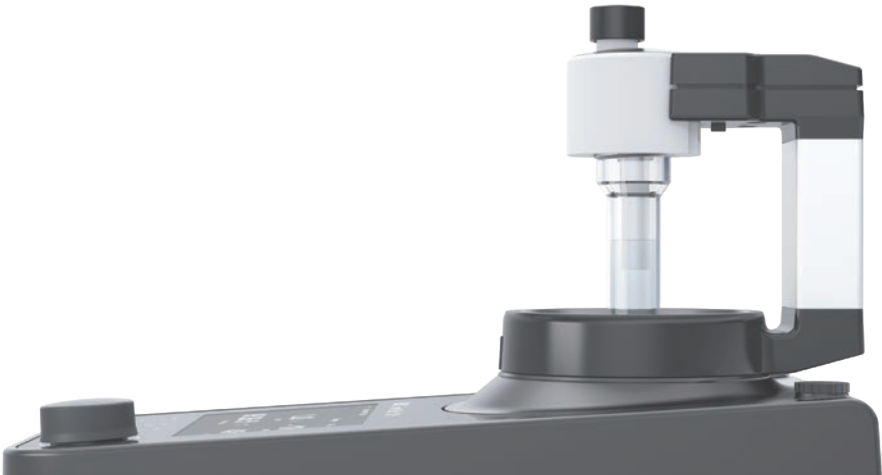


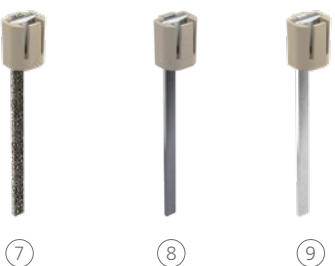
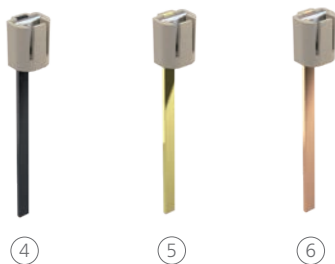
ElectraSyn 2.0 Micro Starter Kit complete

Product	Description	Ident. No.
VIALS / ELECTRODES		
Glass vial complete 5 ml	Glass vial 5 ml incl. lid, glass and magnetic bar	0040003171
Glass vial complete 10 ml	Glass vial 10 ml incl. lid, glass and magnetic bar	0040003170
Glass vial complete 20 ml	Glass vial 20 ml incl. lid, glass and magnetic bar	0040003168
Glass vials 5 ml	Glass vial 5 ml, set of 10	0040003327
Glass vials 10 ml	Glass vial 10 ml, set of 10	0040003325
Glass vials 20 ml	Glass vial 20 ml, set of 10	0040003324
ElectraSyn 2.0 Electrode Starter Kit	Kit of glassy carbon, set of 2 + 8 other electrodes, each set of 12	0020017204
ElectraSyn 2.0 Complete Vial Kit	Kit of 5 ml, 10 ml and 20 ml vials complete, 10 spare vials of each volume	0010003810
ElectraSyn 2.0 vials only	Kit of 10 × 5 ml, 10 × 10 ml, 10 × 20 ml vials	0010003811
ElectraSyn 2.0 Complete Starter Kit	Kit of 5 ml, 10 ml, 20 ml vials complete; 10 spare vials of each volume; glassy carbon, set of 2 + 8 other electrodes, each set of 12	0040004013
Electrode CV Package	Kit of electrodes (CV glassy carbon, CV platinum, reference electrode)	0040002864
MICROVIALS / MICROELECTRODES		
Microvial 1 ml	Glass vial 1 ml incl. lid, glass and magnetic bar	0040003294
Microvial 2 ml	Glass vial 2 ml incl. lid, glass and magnetic bar	0040003295
Micro glass vials 1 ml	Glass vial 1 ml, set of 10	0020017207
Micro glass vials 2 ml	Glass vial 2 ml, set of 10	0020017206
ElectraSyn 2.0 Micro electrode Starter Kit	Kit of glassy carbon, set of 2 + 7 other electrodes, each set of 12	0040004016
ElectraSyn 2.0 microvials only	Kit 10 × 1 ml, 10 × 2 ml vials	0040004103
ElectraSyn 2.0 Microvial Kit complete	Kit of 1 ml and 2 ml vials complete, 10 spare vials of each volume	0040004014
ElectraSyn 2.0 Micro Starter Kit complete	Kit of 1 ml and 2 ml vials complete; 10 spare vials of each volume; glassy carbon, set of 2 + 7 other electrodes, each set of 12	0040004015



Product		Ident. No.
ELECTRODES		
①	Electrode graphite (12 pcs.)	0040002858
②	Electrode glassy carbon (2 pcs.)	0040002842
	Electrode lead bronze (2 pcs.)	0020016076
	Electrode lead (12 pcs.)	0040002843
	Electrode tungsten (2 pcs.)	0040002845
③	Electrode niobium (2 pcs.)	0040002846
④	Electrode copper (12 pcs.)	0040002847
	Electrode magnesium (12 pcs.)	0040002848
	Electrode titanium (12 pcs.)	0040002849
	Electrode zinc (12 pcs.)	0040002850
	Electrode stainless steel (12 pcs.)	0040002851
⑤	Electrode platinum plated (2 pcs.)	0040002852
	Electrode platinum foil (2 pcs.)	0040005015
	Electrode platinum on ceramics (2 pcs.)	0040006753
	Electrode gold plated (2 pcs.)	0040002853
⑥	Electrode silver plated (2 pcs.)	0040002854
	Electrode aluminium (12 pcs.)	0040003174
	Electrode boron doped diamond (2 pcs.)	0040002856
	Electrode tin (12 pcs.)	0040002857
⑦	Electrode nickel (12 pcs.)	0040002859
⑧	Electrode RVC foam (12 pcs.)	0040002860
	Electrode nickel foam (12 pcs.)	0040002861
	Electrode cobalt (2 pcs.)	0040003385
⑨	Electrode reference (1 pc.)	0040002865
	Electrode CV glassy carbon (1 pc.)	0040002863





Product

Ident. No.

MICROELECTRODES

①	Microelectrode aluminium (12 pcs.)	0040004029
	Microelectrode boron-doped diamond (2 pcs.)	0040004036
②	Microelectrode cobalt (2 pcs.)	0040004039
③	Microelectrode copper (12 pcs.)	0040004027
④	Microelectrode glassy carbon (2 pcs.)	0040004022
⑤	Microelectrode gold (2 pcs.)	0040004034
	Microelectrode graphite SK-50 (12 pcs.)	0040004021
	Microelectrode lead (12 pcs.)	0040004028
⑥	Microelectrode lead bronze (12 pcs.)	0040004030
	Microelectrode magnesium (12 pcs.)	0040004025
	Microelectrode nickel (12 pcs.)	0040004023
⑦	Microelectrode nickel foam (12 pcs.)	0040004101
⑧	Microelectrode niobium (2 pcs.)	0040004032
	Microelectrode platinum (2 pcs.)	0040004038
	Microelectrode silver (2 pcs.)	0040004035
	Microelectrode stainless steel (12 pcs.)	0040004024
⑨	Microelectrode tin (12 pcs.)	0040004037
	Microelectrode titanium (12 pcs.)	0040004033
	Microelectrode tungsten (2 pcs.)	0040004031
	Microelectrode zinc (12 pcs.)	0040004026
	Microelectrode graphite V2100 (2 pcs.)	0040004040

Screening System Package (8 cells)

Ident. No. 0040003642



Screening System Package (6 cells)

Ident. No. 0040003631



TECHNICAL DATA

SCREENING SYSTEM PACKAGE (6 | 8 CELLS)

CONTINUOUSLY ADJUSTABLE POWER SUPPLY

Voltage output	0 – 32 V (± 1 mV)
Supply voltage	115 or 230 V (50 Hz / 60 Hz)

MAGNETIC STIRRER

Speed range	0 – 1500 rpm
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REACTION CELLS

Number of cells	6 (divided cell) or 8 (undivided cell)
Usable volume of undivided cell	8 ml
Usable volume of divided cell (per chamber)	8 ml
Material	PTFE
Temperature control	Yes (RT to 100 °C)

IKA Screening System

The IKA Screening System is perfectly suited for constant current electrosynthesis in “multibatch” mode. The combination of both divided and undivided batch cells enables you to quickly carry out research on multiple electroconversions at the same time. In addition, you can combine the system with other equipment in the laboratory.

Scope of delivery

- > Reaction block
- > Electrolysis cells
- > Power supply
- > IKA Plate (RCT digital) including PT 1000 temperature sensor
- > Cable set
- > Screw drive
- > Electrode graphite (16 pcs.)



Reaction block with 6 divided cells



Reaction block with 8 undivided cells



Divided cell



Undivided cell

Product	Ident. No.
REACTION BLOCKS AND CELLS	
Reaction block with 6 divided cells	0020015936
Reaction block with 8 undivided cells	0020015943
Set of reaction cells (6 divided cells)	0040003647
Set of reaction cells (8 undivided cells)	0040003648
ELECTRODES	
Electrode 0.7 boron doped diamond (8 pcs.)	0040003932
Electrode 0.7 glassy carbon (16 pcs.)	0040003670
Electrode 0.7 graphite SK-50 (16 pcs.)	0040003954
Electrode 0.7 platinum (8 pcs.)	0040003678
Electrode 0.7 platinum on ceramics (2 pcs.)	0020023860
Electrode 0.7 gold (8 pcs.)	0040003934
Electrode 0.7 silver (8 pcs.)	0040003938
Electrode 0.7 nickel foam (16 pcs.)	0040003935
Electrode 0.7 graphite V2100 (16 pcs.)	0040003669
Electrode 0.7 nickel (16 pcs.)	0040003671
Electrode 0.7 stainless steel (8 pcs.)	0040003672
Electrode 0.7 lead (16 pcs.)	0040003673
Electrode 0.7 lead bronze (8 pcs.)	0040003674
Electrode 0.7 copper (8 pcs.)	0040003675
Electrode 0.7 magnesium (16 pcs.)	0040003677
Electrode 0.7 zinc (16 pcs.)	0040003680
Electrode 0.7 aluminium (16 pcs.)	0040003682
Electrode 0.7 cobalt (8 pcs.)	0040003933
Electrode 0.7 niobium (8 pcs.)	0040003936
Electrode 0.7 tin (8 pcs.)	0040003939
Electrode 0.7 titanium (8 pcs.)	0040003940
Electrode 0.7 tungsten (8 pcs.)	0040003941
Electrode 0.7 RVC (16 pcs.)	0040003937
Electrode 0.7 Sampler Kit incl. 7 × 2 electrodes*	0040004509
Electrode 0.7 Starter Kit incl. 9 × 1 electrode**	0040003646
Electrode 0.7 power supply	0040003604
SC 1.1 Cable (1 – 4)	0040003663
SC 1.2 Cable (5 – 8)	0020018590
SC 2.1 Crocodile clip for cable set	0040003630
labworldsoft® 6 Screening System	0020023690

*BDD, cobalt, gold, silver, niobium, tungsten, titanium

**graphite V2100, glassy carbon, magnesium, tin, nickel foam, nickel, lead, lead bronze, copper