

EXPORT

exportmail

biology | chemistry | physics | science

OCTOBER 2012



Eurofysica likes to show you interesting apparatus and instruments selected for export. In total we have a range of more than 4000 different products for physics, biology and chemistry mainly used in secondary education.

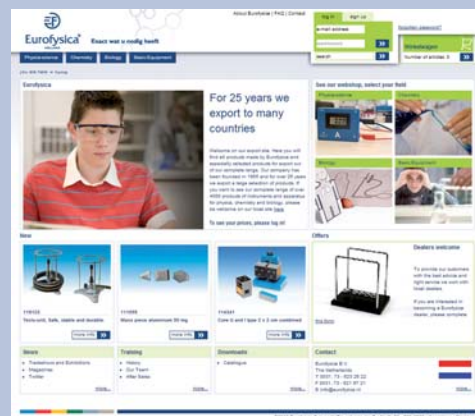
For 25 years we export a selection of these items, which are developed and produced in our own company. We can offer you these items in all quantities and with an interesting price. Visit our website www.eurofysica.com to discover more products and details.

WE ARE PROUD TO PRESENT YOU OUR NEW EXPORT WEBSITE!

Please visit our new export website on www.eurofysica.com.

A complete new website with our most important export products. If you are one of our dealers you can log in and see your special prices directly. But even without a login you can make a tour in our webshop and see what we have to offer.

Our new website offers our dealers an easy way of price requests, ordering and communication with us. Want to take a look at our complete assortment for the Dutch market? Take a visit in our Dutch webstore.



We are present at the WorldDidac 2012 in Basel from October 24- 26th. You will find us in Hall I, Stand 44. Please visit us there or contact us for more information. We are happy to help you.



Eurofysica®
HOLLAND

Exact wat u nodig heeft

TECLU-UNIT

Safety first! Make sure your experiments do not end with injuries. Our Teclu-unit consists of a heavy metal base with stainless steel tripod and teclu burner. Improves safe working and easy storing of the complete unit including the gas tube. Height 21 cm.

118123





INCLINED PLANE DYNAMICS TRACK

Made of natural anodised aluminium.

118520

60 cm without scale

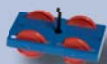
118521

100 cm with scale

TROLLEY

Low friction trolley with rod to fit extra weights. With holes for connecting cord and buffer with pin.

111300



DYNAMICS TROLLEY WITH

MOTOR-PROPELLER

Low-friction kart with motor and propeller, battery powered. Designed for constant force experiments. Can be used in combination with windscreen-kart 111306.

111305

MOTOR AND SOLAR CELL

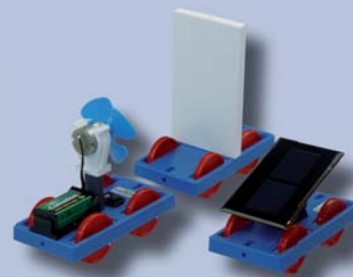
Low-friction kart with motor and solar cel.

111307

WINDSCREEN

Low-friction kart with windscreen. Designed for experiments with air-resistance.

111306



ACCESSORIES FOR DYNAMIC TRACK



111301 Buffer with pin.

111303 End stop with pin, for fixing pulley with pin, ticker tape timer and buffer.

122150 End stop with pin, for fixing pulley with pin (low) and buffer.

111302 Pulley with pin

TICKER TAPE TIMER

Sturdy model with hole and rod for mounting on stand. Comes with a roll of paper 18 mm and package of carbon paper discs.

111256



LEVER ARM WITH RIDER

Fitted with ball bearing pivotal point.



111207 Lever arm

111208 Rod for lever arm

TIMER DIGITAL

Suitable for light gates and mechanical switches.

Range: 0 - 88888,888 sec

Dimensions: 50 x 80 x 55 mm

Power: 5-14 V DC

111152

LIGHT GATE

Universal applicable light gate with rod and 4mm junction boxes. Effective size between the legs is 40 mm.

111157



LOW FRICTION PULLEY ON ROD

The pulley has a circumference of 16 cm, with 10 holes for time and speed measurements.

111241

SLOTTED CYLINDER MASS SETS

Solid brass nickel finish. The disk weights can be interchanged.

111211

Set total 50 grams

111209

Set total 150 grams

111212

Set total 250 grams



TENSION SPRING

Made of stainless steel and equipped with pointer.

111224

Spring 4 N/m

111223

Spring 7,5 N/m

111222

Spring 10 N/m

111238

Spring 25 N/m

111239

Spring 50 N/m



TENSION SPRING IN HOUSING

Tension spring in transparent housing for around reading. Total length 30 cm, length scale 100 mm.

111290 Tension spring 10 N/m

111291 Tension spring 20 N/m

111292 Tension spring 50 N/m



DYNAMOMETERS WITH LINEAR SCALE AND METAL HOUSING

With zero point setting and adjusting screw. Elongation protection and hook for rod stand connection. Total length 19 cm, length graduation scale 60 mm.

- 111034** Dynamometer 1 N
- 111035** Dynamometer 5 N
- 111036** Dynamometer 10 N



DYNAMOMETER WITH TRANSPARENT HOUSING

With clearly visible scale and zero point setting. Elongation protection and hook for rod stand connection. Each range has its own colour code. Total length 30 cm, graduation scale: 100 mm

- 111281** Dynamometer 1 N
- 111282** Dynamometer 2 N
- 111284** Dynamometer 5 N
- 111285** Dynamometer 10 N
- 111286** Dynamometer 20 N
- 111287** Dynamometer 100 N



DYNAMOMETER ROUND

Round disc with 175 mm diameter with ball bearing pulley. Settings independent of the pulling direction. Equipped with rod for stand mounting, suitable for mounting on magnetic board.

- 111274** Dynamometer round 1 N
- 111275** Dynamometer round 2 N
- 111276** Dynamometer round 2 N



SHOOT AND FALL APPARATUS

To demonstrate that two balls with the same mass will simultaneously reach the floor after being shot and freely dropped from the same height. Comes with two stainless steel balls of 16 mm diameter.

111226



ELECTRICITY

LAMINATED DOUBLE U-CORE

With 3 x 3 cm legs with base and rod with screw for connection of both parts.

114360

COIL WITH 6 HEAVY TURNS

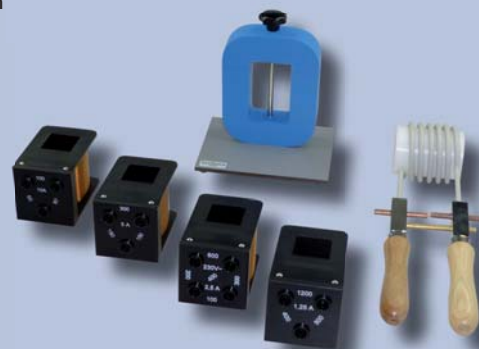
Secondary coil, to make a model of a welding transformer.

114372

COILS 3 X 3 CM

With very sturdy house, provided with 4 mm terminal sockets.

	Number of turns	Amperage
114373	100-50-50	10 A
114374	300-150-150	5 A
114376	600-400-300-200	2.5 A
114378	1200-800-400	1.2 A



LAMINATED U- AND I-CORE

With 2 x 2 cm legs. Complete with wing-nut and plastic base.

114341

COILS 2 X 2 CM

With very sturdy house, provided with three 4 mm sockets.

	Number of turns	Amperage
114351	200-100-100	3 A
114352	300-150-150	2 A
114354	600-400-200	1 A



DIGITAL STUDENTS METERS

Easy to use digital student meters without knobs or switches. After inserting a 4 mm plug the meter switches on and is ready for use.

Input resistance : > 100 mOhm

Accuracy : 0,5%

Size : 120 x 80 x 25 mm

- 114005** Voltmeter 200 V / 0,1 V
- 114006** Ampere meter 20 A / 0,01 A protected up to 20 A
- 114004** Ampere meter 2 A / 0,001 A protected up to 4 A



ELECTRICITY

ELECTRICITY COMPONENTS ON BASE

Mounted on a blue plastic base 90x120 mm with 4 mm sockets

- | | |
|----------------------------------|-----------------------------------|
| I14200 NTC resistance | I14288 Relais |
| I14206 NPN transistor | I14289 Potentiometer |
| I14207 Capacitor, 3 types | I14292 Resistance, 3 types |
| I14209 Diode | I14298 Switch |
| I14210 LED | |

For more components see our website

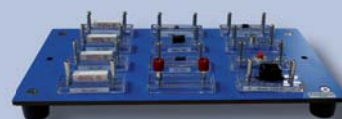


CIRCUIT ELEMENTS WITH 4 MM PINS

Mounted on plastic profile with 4 mm plug pins and jacks on a center distance of 50 mm. Can be used on student experiment board I18400

- | |
|---------------------------------|
| I14250 Resistance 10 ohm |
| I14263 Capacitor |
| I14265 Relais |
| I14270 LDR resistance |
| I14276 NPN transistor |
| I14277 Diode |
| I14280 Lamp holder |
| I14282 Switch |

For more components see our website



CURRENT BALANCE



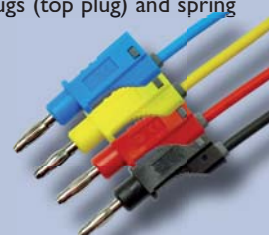
With 4 interchangeable printed conductors (1, 2, 4 and 8 cm). The holder is turnable in a horizontal and vertical position. Complete with a set of 6 removable permanent magnets in holder. The maximum current is 5A.

I14388

TEST LEADS 0,75 MM²

Equipped with stackable and unbreakable plugs (top plug) and spring pins (4 mm diameter). Available in black, red, yellow, green and blue.

- | | |
|----------------------|-------------------|
| I14800-I14803 | Test leads 25 cm |
| I14810-I14813 | Test leads 50 cm |
| I14820-I14823 | Test leads 100 cm |



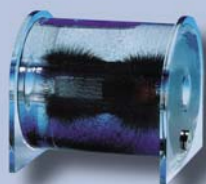
MAGNETISM

THREE DIMENSIONAL MAGNETIC FIELD MODEL

A perfect and sturdy working model to show a three dimensional magnetic field.

Size 10 x 12 cm.

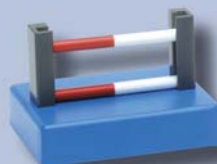
I14524



FLOATING MAGNETS HOLDER

For placing round bar magnets (I14502) floating. Mounted on a plastic base 90 x 120 mm.

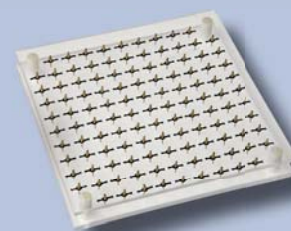
I14503



MAGNETIC MODEL FIELD

Magnetic lines of force model, cubic I17 magnetic needles with pins between two transparent plates.

I14527



ELECTROSTATICS

VAN DE GRAAFF GENERATOR, 200 KV

According to Van der Graaff. Equipped with rotating rubber band and conductor sphere with 4 mm socket. Very suitable as power supply in electrostatics. Comes with English manual. [Technical data:](#)

- | | |
|------------------|------------------|
| Output Voltage | : 200,000 volts |
| Conductor sphere | : 20 cm diameter |
| Height | : 45 cm |
| Connection | : 230 V |

I14457



ELECTROSCOPE

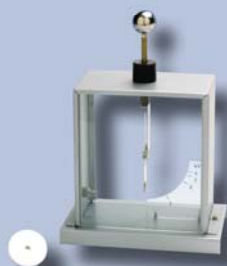
Round model with clear pointer. Complete with sphere conductor and two condenser plates. Ideal for student's experiments. Diameter 13 cm, total height 20 cm.

I14482



ELECTROSCOPE WITH GRADUATION SCALE

With a large sensitivity, in a metal casing with a glass front and -back as well as a graduation scale. Designed with a 4 mm socket. Complete with conductor plate and a ball conductor on a pin. Dimensions: 210 x 170 x 100 mm.

114483**ELECTROSCOPE**

Electroscope simple open model. Consists out of aluminium holder with pointer. Mounted on a plastic base 90 x 120 mm.

114484**PROPERTY OF GASES****BOYLE'S LAW APPARATUS**

This transparent apparatus gives the right answer. It shows the value and change in volume and pressure at once, even when you turn from plus to minus 1 N/cm². Cilinder 300 x 40 mm. Meter scale 100 mm.

111555**BAROSCOPE COMPLETE**

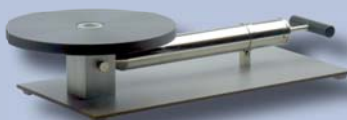
With glass balloon diameter 6 cm. In combination with a vacuum bell jar it is possible to demonstrate the mass of air.

111526**MAGDEBURG HEMISPHERES**

It works perfect, made of massive cutted aluminium with a diameter of 10 cm.

111523**HAND VACUUM PUMP**

Hard plastic disc diameter 25cm. Complete with outlet valve and sunken hose nipple. Piston fitted with two O-rings and back stroke valve. High end vacuum

111510**AIR PUMP PLATE**

Solid plate with diameter of 240mm. Complete with tap, hose nipple and vent valve.

111515 Air pump plate**111516** Air pump plate rubber sheet**ROTARY VANE VACUUM PUMP**

Two stage rotation pump in low noise metal housing (approx. 48 dB) with handle. With power-switch and 1.5 m mains cable with plug. Air outlet and inlet 10 mm nozzle. With built-in inlet filter and gas ballast valve. Power supply 230 V AC, vacuum $<70 \cdot 10^{-4}$ mBar, flow 50 l/min.

111512**PROPERTY OF LIQUIDS****OSMOSE APPARATUS**

Two plexiglass cylinders with end and rubber O-ring. Provided with semi permeable membrane and 2 glass tubes. Size: 10 x 8 x 6 cm

111417**PASCAL'S APPARATUS - HYDROSTATIC PRESSURE**

With 4 interchangeable vessels of different shapes. Performed on an aluminum base with pointer for liquid level and fluid pressure.

111410

EXPORT HITS

CAPILLARY TUBES

Interconnected capillary tubes of different internal diameter. Made entirely of glass, mounted on removable plastic base plate.

111402

COMMUNICATING VESSELS

Communicating vessels. Interconnected vessels of different shapes. Vessels made of glass mounted on a plastic base.

111400



BUCKET AND CYLINDER OF 'S GRAVENSANDE

Plastic bucket and cylinder of 's Gravensande. Fits perfect together. Complete with top and bottom hook. To demonstrate Archimedes Law.

111414



HEAT

CALORIMETER JOULE

Calorimeter complete with lid, second lid with two resistors respectively 2.5 Ohm and 5 Ohm, stirrer and thermometer with high reading out.

111658



THERMOMETER MODEL

Thermometer capillary without scale, fixed on a metal frame, writable and washable.

111610

THERMOMETER MODEL

Glas capillary without scale with O-rings, length 300 mm, diameter 7 mm.

111615



RADIATION TUBES

For experiment with heat radiation and absorption. Set of 3 metal tubes black, white and chrome plated. Complete with rubber stoppers for thermometer

(111603)
Length 150 mm.
Ø: 32 mm.

111636



PARABOLIC MIRROR

Made of heavy polished metal. Complete with rod for stand fixation. Enables placement of a thermometer. Suited for reflection of thermal beams, light bundles and sound waves.

111645

Parabolic mirror 30 cm

111646

Parabolic mirror 46 cm



CHEMISTRY

PICO-GC GAS CHROMATOGRAPH

The PICO-GC Gas Chromatograph is a simple, lowcost gas chromatograph for educational use. Operates at room temperature and uses air from a membrane-pump as carrier gas. Comes with a standard non-polar column. The PICO-GC is designed to operate with all standard computer based measuring systems such as Labquest, Coach or Science Workshop. Comes with membrane-pump and all accessoires needed.

116300

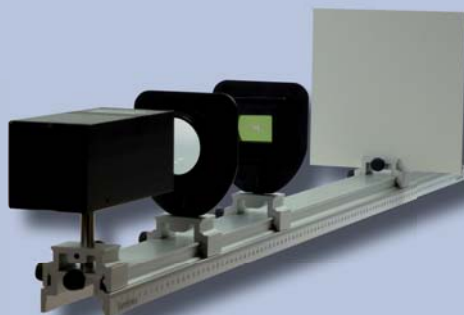


OPTICS

BASIC OPTICAL KIT WITH BENCH

Suitable for demonstration of the properties of refraction, diffraction and ray tracks in lenses and prisms. Provided with magnets for mounting on the metal magnetic board. The complete set is stored in a solid suitcase with layers. Optical width of the lenses is 50 mm. The halogen light source can also be used for geometric optics. The bench of 100 cm is made of anodised aluminium.

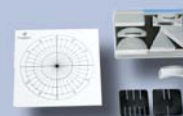
112110



BASIC SUPPLEMENTARY KIT FOR GEOMETRIC OPTICS

Complete supplementary set, consists of disk lenses, mirrors, diaphragms and an opal screen with at one side a 360° circular scale and at the other side two-eye models.

112114



OPTICS DEMONSTRATION KIT

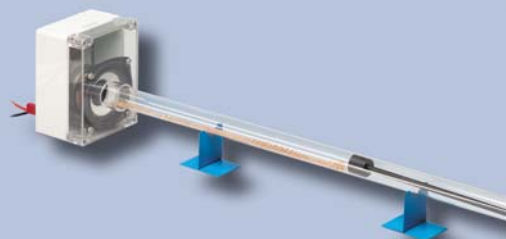
We guarantee the quality and the exchangeability of all parts. Comes with a optical bench 120 cm, riders, light source halogen 50 watt, 8 different mounted lenses, set of diaphragms, 3 prisms with holder, adjustable split, projection screen, optical disc with lenses and accessories, set colour filters, polarisation tube, set polaroid filters, cuvette and two stands for holders.

112300**LED LIGHT SOURCE**

Light source provided with ultra white LED-lamp. Perfect solution for use on the optical bench, no problem with heat and has a powerfull light beam.

112309**OPTICAL SET FOR MAGNETIC BOARD****112200****SOUND****KUNDT APPARATUS**

To visualize sound waves and the measurement of wave-length in the air. This apparatus consists out of a glass tube (which has to built up horizontal), an adjustable stamp, foot rests and cork powder. By filling the glass tube with cork powder interference bellies and buttons can be showed. As vibration source a tuning-fork or loudspeaker (114059) can be used.

119209**LOUDSPEAKER 8 WATT**

Versatile speaker. Conical sound source for connection to Kundt's tube or resonance tube. With transparent front so the motion of the cone is clearly visible. Provided with a lamp as overload security and as indicator for frequency and power.

114059**DOME TWEETER LOUDSPEAKER**

Speaker on stem 10 mm diameter with 4 mm sockets, fused against overload.

Frequency range:

50 - 20,000 Hz

Power: 10 W,

Impedance: 8 Ohm

114060**DOPPLER EFFECT**

Consisting of a freely rotating speaker with a generator on an aluminum tube profile. The generator delivers a pulsating or continuous signal of approximately 100 Hz. The generator is powered by a battery of 9 V. Length 90 cm.

119211**MOTOR, DYNAMO AND VIBRATION GENERATOR**

Very strong model, built in aluminium housing with rod, screw thread and pulley. Input 0 - 12 volt DC, nominal speed 2400 rpm. With accurate speed control and direct top.

111258**WEIGHING AND MASSES****STUDENT BALANCE**

Made of aluminium and stainless steel pans with a blue modern hard plastic base. Capacity 500 g. Sensitivity 20 mg.

111023**MASS SETS**

Made of brass, low form, arranged in 1-2-2-5 system. Aluminium fractions 50 mg/ 500 mg, complete with forceps for fraction weights. We can also offer you all different spare weights

111043 Set 1 g - 50 g in wooden block**111044** Set 50 mg - 100 g in plastic box**111045** Set 50 mg - 200 g in plastic box**111046** Set 1 g - 500 g in wooden block

ENERGY

WINDMILL GENERATOR ON BASE

For demonstration of wind energy conversion into electrical energy, base 90x120 mm with 4 mm sockets

114384

SOLAR CELL ON BASE

Mounted on plastic base 90x120 mm with 4 mm sockets. At maximum illumination this solar cell produces 0.5 Volt at 800 mAmpère

114385

MOTOR FOR SOLAR CELL 0-2V

Mounted on a plastic base 90 x 120 mm with 4 mm sockets. Small DC motor 0-2 V with low starting speed. Particularly suitable for use with solar cell 114385.

114386



TROLLEY WITH SOLAR CELL AND BATTERY

Smooth running car with angle adjustable solar cell and rechargeable battery. With the switch, the car is driven directly by the solar cell or battery. When stationary the battery can be recharged by the solar cell.

114383



HAND GENERATOR 0-6V DC

Simple hand generator with lamp, cord and connector for external control. Because of the transparent plastic housing, the operation of the generator can be seen.

114397



BIOLOGY

SMOKING TEST-SET

Shows clearly the tar content of different cigarettes without smoking a cigarette yourself. The set consists of a filterholder on a stand with suction-balloon and a package with special filters.



300124

300126 Set spare-filters, 25 pieces

SOIL SIEVES, SET OF 5

Consisting of solid plastic cylinders with a diameter of 10 cm. The set consists of the following sieves:

- extreme fine, mesh width 0.05 mm
- very fine, mesh width 0.2 mm
- fine, mesh width 0.4 mm
- coarse, mesh width 1.0 mm
- very coarse, mesh width 1.9 mm

181614



DEMONSTRATION MODEL LUNG FUNCTION

Function model that shows the working of the lungs by expansion of the chest cavity. Consisting out of a plastic jar with two fixed balloons and a rubber membrane (diaphragm) closes the bottom.

300123



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Exact wat u nodig heeft