

Bang & Olufsen
Beogram 1001/1202/1500/3000/4000



Beogram 1001

The Beogram 1001 is a high-quality stereo turntable unit for manual operation. The two-speed motor is of newly developed design and is particularly quiet in operation, producing virtually no vibration or rumble.

The ST/L 15° tone arm fitted to the Beogram 1001 has bias compensation built into the gimbal mounting, and tracking pressure adjustment between 1 and 3 grams. The arm has a simple plug-in connection to accept the SP 14A magnetic cartridge with which it is supplied, and it is operated by a hydraulically damped lifting/lowering device to safeguard your stylus and records against accidental damage.

The heavy turntable is belt driven and has stroboscopic markings and a fine speed adjustment control is provided. There is also a spindle adaptor for playing centreless 45 rpm records.

The Beogram 1001 is supplied complete with a slim wooden plinth finished in natural teak or rosewood, and a transparent dust cover. The matt black deck is both elegant and practical.

Specification for Beogram 1001-Type 5101

Dimensions

4·52" high, 14·17" wide,
12·2" deep.

Weight

13·2 lb.

Voltage

110-130/220-240 V AC.

Frequency

50 Hz.

Consumption

10 W.

Output

5 mV (average)/1000 Hz/47 k Ω.

Speeds

33½ and 45 rpm.

Rumble

Better than 55dB (DIN B).

Wow/flutter

Better than ±0·15% DIN
corresponding to 0·06% RMS.

Suspension resonance

3-4 Hz.

Fine speed adjustment

6%.

Pick-up arm

ST/L 15°.

Pick-up cartridge

SP 14A.

Stylus

Aluminium framed diamond
15 μ, spherical.

Frequency response

20-20 000 Hz ± 3 dB

20-16 000 Hz ± 2·5 dB

50-10 000 Hz ± 1·5 dB.

Channel separation

>20 dB/1000 Hz.

Channel difference

<2 dB.

Compliance

15 × 10⁻⁶ cm/dyne.

Effective tip mass

1·0 mg.

Playing weight

1·5-2·5 g.

Output

1 mV/cm/sec (5 mV average
music).

Load

47 k Ω.

Tracking angle

15°.

2 R 52
Add. 90 + 1/2

Over the centuries, the world has amassed a vast collection of the treasures left behind by the great musicians, the greatest of whom spent their lives giving pleasure to hundreds of people. Today their audience is millions strong, for recorded music can re-create their finest works in every home. If you have not yet experienced the sensation of stereo sound, you have a great new pleasure to look forward to, for without doubt, three-dimensional music is the greatest advance in home entertainment since the original invention of recorded sound. Whether you prefer your music to come from Mozart or McCartney, it is your choice and worthy of the best performance you can find. The wealth of the world's music is a great inheritance; Bang & Olufsen equipment will help you enjoy it.



Beogram 1202

32241
£59.50 + Vat.

The Beogram 1202 is a beautifully styled, fully automatic turntable unit, complete with its own arm and cartridge. Its superb specification makes it eminently suitable for use with any high fidelity system of good quality. The turntable itself is countersunk to be almost flush with the deck, giving it an extremely sleek and modern appearance. The record does not rest direct on the turntable but on small conical studs of a soft material, ensuring the least possible record wear and avoiding the damage that can sometimes be caused by dirt on the turntable. All operating functions are governed by a single master-control. By selecting the required record size, the correct speed is chosen automatically. Light finger-pressure on the master control then starts the automatic start/play/stop cycle. The motor starts, the arm moves across and lowers gently onto the run-in groove of the record. When the record is finished, the arm raises the stylus from the last groove and returns to its resting position, and the motor switches off. The automatic function is quick-responding and cannot be "confused" by conflicting instructions. Naturally, the Beogram 1202 can be operated manually if required. The turntable, deck and arm are finished in brushed aluminium, and the wooden plinth in natural teak, rosewood or white lacquer. A transparent dust cover is supplied in smoked ABS plastic.

Specification for Beogram 1202-Type 5237

Dimensions

4.7" high, 17.3" wide 13.0" deep.

Weight

16.2 lb.

Voltage

110-130/220-240 V AC.

Frequency

50 Hz.

Consumption

10 W.

Output

5 mV/1000 Hz/47 k Ω .

Speeds

33 $\frac{1}{3}$ and 45 rpm.

Rumble

Better than 60 dB DIN B.

Wow/flutter

Better than $\pm 0.15\%$ DIN ($\pm 0.06\%$ RMS).

Suspension resonance

3-4 Hz.

Fine speed adjustment

6%.

Pick-up arm

Has built in antiskating and stylus pressure adjustment 0-3.5 g.

Pick-up cartridge

SP 14A

Stylus

Aluminium framed diamond, 15 μ , spherical.

Frequency response

15-25000 Hz ± 4 dB

20-16000 Hz ± 2.5 dB

50-10000 Hz ± 1.5 dB.

Channel separation

Better than 20 dB/10000 Hz.

Channel difference

<2 dB.

Compliance

15 $\times 10^{-6}$ cm/dyne.

Effective tip mass

1.0 mg.

Playing weight

1.5-2.5 g.

Output

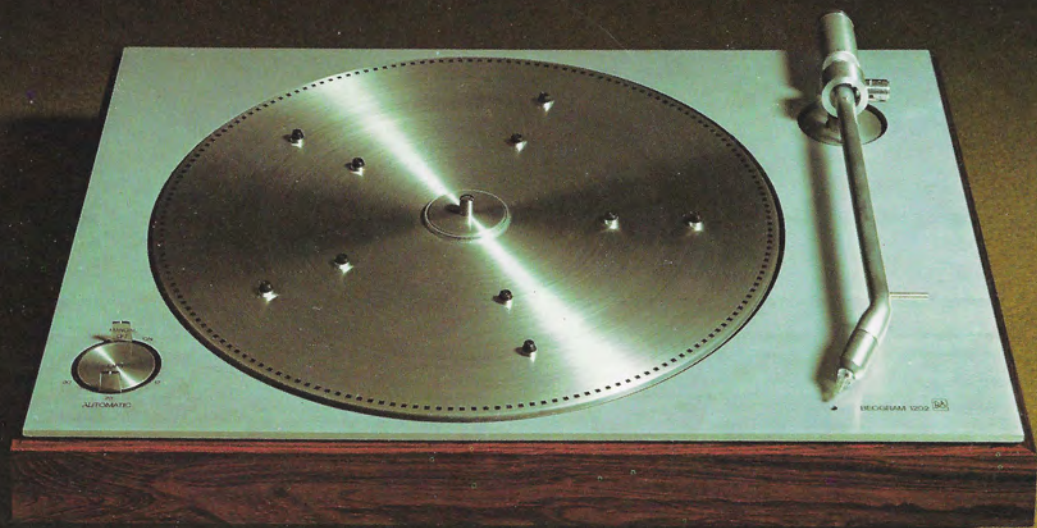
1 mV/cm/sec (5 mV average music).

Load

47 k Ω .

Stylus angle

15 $^\circ$.



AUTOMATIC

BECKHOFER 1000

Beogram 1500

The Beogram 1500 offers all the facilities of a comprehensive record turntable and a high-quality stereo amplifier combined into one compact unit. To the novice, the Beogram 1500 is simple to operate yet has possibilities for becoming the centre of a complete audio system by the future addition of tuner, tape recorder, etc. To the seasoned audio enthusiast, it has a quality and style unequalled in its class. The turntable is belt driven from a totally enclosed induction motor which is spring mounted to prevent vibration. The pickup is the world-famous ST/L 15° arm using the SP 14A magnetic cartridge. The arm has built-in bias compensation and tracking weight adjustment between 1 and 3 grams. A hydraulically operated lift allows the arm to be lowered gently onto the record at any point. The Beogram 1500 will play records at 45 and 33 $\frac{1}{3}$ rpm and both speeds can be accurately adjusted using the vernier control and stroboscopic disc mat. The amplifier section gives an output of 2 × 8 watts RMS and has DIN sockets for the connection of a tape recorder, radio tuner and stereo loudspeakers. Push-button switching selects each function instantly and there are separate tone controls for bass and treble, and friction-locked split-channel controls for varying both volume and balance. The wooden plinth is finished in a choice of natural teak, rosewood, or white lacquer, and the deck-plate and control panel in matt black.

Specification for Beogram 1500-Type 5230

Dimensions

6" high, 18·9" wide, 13·8" deep.

Weight

28·5 lb.

Voltage

110–130/220–240 V AC.

Frequency

50 Hz.

Consumption

15–75 W.

Speeds

33 $\frac{1}{3}$ and 45 rpm.

Rumble

Better than 55 dB DIN B.

Wow/flutter

±0·15% DIN (±0·06% RMS)

Fine speed adjustment

6%.

Pick-up arm

ST/L 15°. Has automatic bias compensation. Stylus pressure adjustment 1–3 g.

Pick-up cartridge

SP 14A.

Stylus

Aluminium framed diamond.

15 μ spherical.

Frequency response

20–20000 Hz ± 3 dB.

Channel separation

>20 dB/1000 Hz.

Channel difference

<2 dB.

Compliance

15 × 10⁻⁶ cm/dyne.

Effective tip mass

1·0 mg.

Stylus pressure

1·5–2·5 g.

Output

1 mV/cm/sec (5 mV from average music record).

Load

47 KΩ.

Amplifier

Power output

2 × 8 W RMS.

Frequency response

20–20000 Hz ± 2 dB.

Distortion

<1% at 5 W RMS 1 KHz.

Signal/noise ratio

60 dB linear.

Bass control

±10 dB at 50 Hz.

Treble control

±10 dB at 10 KHz.

Balance by friction-locked

separate volume controls.

External connections for radio

tuner, tape recorder, stereo

loudspeakers.





Beogram 3000

Specification for Beogram 3000-Type 5228

₩ 49,900 + Vat

The Beogram 3000 is a superior, fully automatic turntable unit which exceeds DIN 45 500 high fidelity standards in all respects. It is designed for use with high fidelity systems of good quality, and its slim shape with brushed aluminium deck and wooden plinth is both elegant and adaptable for use with other units. It has a single master-control for all operating functions — selection of record speed and size, automatic or manual play, and on/off. The newly developed quick-action automation ensures careful treatment of stylus and records. The turntable has a stroboscopic disc for checking speed accuracy, and deep furrows to allow records to be picked up easily. A spring mounted spindle adaptor is provided for large-hole 45 rpm records. A strong, constant voltage asynchronous motor with great starting torque means that the turntable rotates at the correct speed almost instantly. The Beogram 3000 is supplied complete with an SP 10A cartridge which has a spherical, naked diamond stylus. It also has a hinged, translucent lid with built-in torsion spring which may be set at any angle up to about 60°, or removed completely by a simple sliding action. To facilitate connection to an amplifier with non-equalised high impedance inputs, a pre-amplifier is available as an optional accessory, and this can be slotted into the Beogram without the use of tools.

Dimensions

4.5" high (with dust cover closed),
14.5" high (with dust cover open),
17.3" wide, 13.0" deep.

Weight

20 lb.

Voltage

110/130/220–240 V AC.

Frequency

50 Hz.

Consumption

10 W.

Output

5 mV–1000 Hz/47 K Ω .

Speeds

33 $\frac{1}{3}$ and 45 rpm.

Rumble

Better than 60 dB DIN B.

Wow/flutter

Better than $\pm 0.15\%$ DIN
($\pm 0.06\%$ RMS).

Fine speed adjustment

6% approximately.

Pick-up arm

Has built in antiskating and

stylus pressure adjustment
0–3.5 g.

Pick-up cartridge

SP 10A.

Stylus

15 μ spherical naked diamond.

Frequency response

15–25,000 Hz ± 3 dB

50–10,000 Hz ± 1.5 dB.

Channel separation

>25 dB at 1000 Hz

>20 dB from 500–10,000 Hz.

Channel difference

<2 dB.

Compliance

minimum 25×10^{-6} cm/dyne.

Effective tip mass

0.8 mg.

Stylus pressure

1.5 g recommended.

Output

1 mV cm/sec (5 mV from
average music).

Load

47 K Ω .

Vertical tracking angle

15°.



AUTOMATIC

REGGAMBI 2000

Beogram 4000

2 225

€149.00 + Vat

The Beogram 4000 is a most revolutionary advance in the design of a gramophone. It is not a progression from previous models; it has not evolved from any earlier ideas or principles; it is completely new in concept and construction.

The most sensational feature of the Beogram 4000 is its electronically controlled tangential arm which moves the pick-up in a straight line towards the centre of the record. Because this is identical to the method used in the cutting of a record, it naturally gives the best possible reproduction when the record is played. The Beogram 4000 has two "arms". One is a detector arm carrying a photocell which can "sense" the presence of a record on the turntable and recognise its size and the speed at which it should be played. The second arm is the playing arm which carries the pick-up cartridge. A computer-like data unit, stimulated by a photocell in conjunction with instructions received from the control panel, governs the operation of a servomotor which moves the tangential arms across the record. Because the tone arm is driven towards the centre of the record and not "dragged" by the record groove as happens

with conventional arms, there is no extraneous lateral friction between the stylus and the groove walls. The Beogram 4000 is operated electronically by light finger pressure on the "easy-touch" control panel, which provides completely noise-free functioning and is very pleasant to use. The data circuits cannot be "confused" by erroneous instructions but perform always in a logical manner.

Such a sophisticated record player demands a highly specialised and excellent pick-up cartridge, so Bang & Olufsen has developed the SP 15 integrated cartridge for use with the Beogram 4000. This tiny pick-up uses the Bang & Olufsen patented MMC (Moving Micro-cross) principle and its elliptical naked diamond stylus has very high compliance and the ability to track with perfect accuracy.

The Beogram 4000 is supplied complete with wooden plinth finished in natural teak or rosewood and it has a hinged translucent dust cover. The deck, control panel and radially ribbed turntable are of brushed aluminium alloy, making the Beogram 4000 as beautiful in appearance as it is brilliant in technical design.

Specification for Beogram 4000—Type 5215

Dimensions

3·94" high, 19·31" wide,
14·97" deep.

Weight

26·46 lb.

Power supply

110–130–220–240 V AC,
50–60 Hz.

Power consumption

40 W.

Speeds

45 and 33 $\frac{1}{3}$ rpm (Individual fine
speed adjustment up to 6%.
Illuminated stroboscope.
Individual indicator lights).

Rumble

Better than 65 dB (DIN B).

Wow/flutter

Better than $\pm 0\cdot05\%$ –DIN
 $\pm 0\cdot025\%$ RMS.

Pick-up cartridge

SP 15

Frequency response

20 Hz – 30 KHz $\pm 2\cdot5$ dB.
50 Hz – 20 KHz $\pm 1\cdot5$ dB.

Compliance

30 \times 10⁻⁶ cm/dyne.

Channel separation

25 dB/1000 Hz.

Channel difference

1·5 dB.

Output

0·6 mV/cm/sec/47 K Ω .
3 mV 47 K Ω from average music
record.

Intermodulation

1%.

Stylus

Elliptical naked diamond
5 μ \times 17 μ .

Recommended tracking weight

1 g.

Tracking weight adjustment

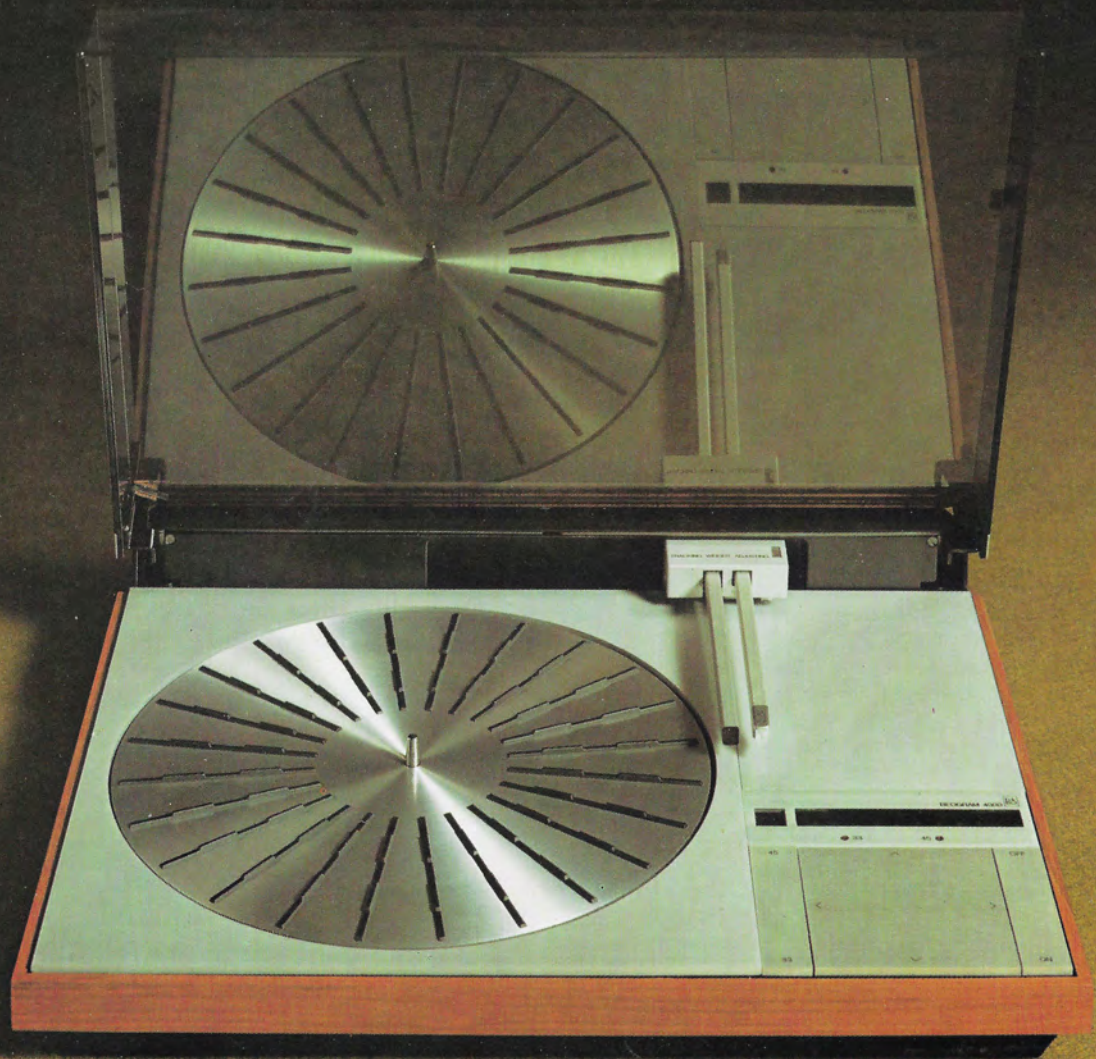
Between 0 and 1·5 g.

Tracking angle

15°.

Maximum tracking angle error

0·04°.



Speakers.

Beovox 140R
180R
" 240R
340R
3800

Price £62 + Vat
£68.90 + Vat.
£69.90 "
£92.90 "
£109.50

Cartridges.

SP10 - 13.10 + Vat.
SP12 - 16.95 "
SP10A - 13.10 "
SP12A - 16.95 "
SP14, 14A, 9.4R.
SP15 - 38.4



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Trade Descriptions Act 1968

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