

Dual

Audiophile Concept



Dual CS 503-1

The audiophile turntable Dual CS 503-1

Its excellent test results alone are sufficient to place this turntable in the top class of audiophile turntables. What's more, it meets all the technical standards of the Audiophile Concept.

Every effort has been made to achieve optimum operating convenience to ensure that the user has easy control over all the important operating functions.

Absolute technology and an exceptionally robust design provide the optimum conditions to give the audio connoisseur the perfect listening experience.

The modern belt drive prevents any motor vibrations which could affect the sound from being transmitted to the platter.

The DC motor achieves outstanding wow-and-flutter properties thanks to electronic speed control.

The turntable switches off automatically at the end of the record, and the tonearm is raised (semi-automatic).

The gimbal-mounted, low-mass tonearm is dynamically balanced – a technique which ensures perfect tracking even when the turntable is not absolutely level.

The headshell and tonearm are frictionally connected and there is no play between them. The headshell has a 1/2" mounting.

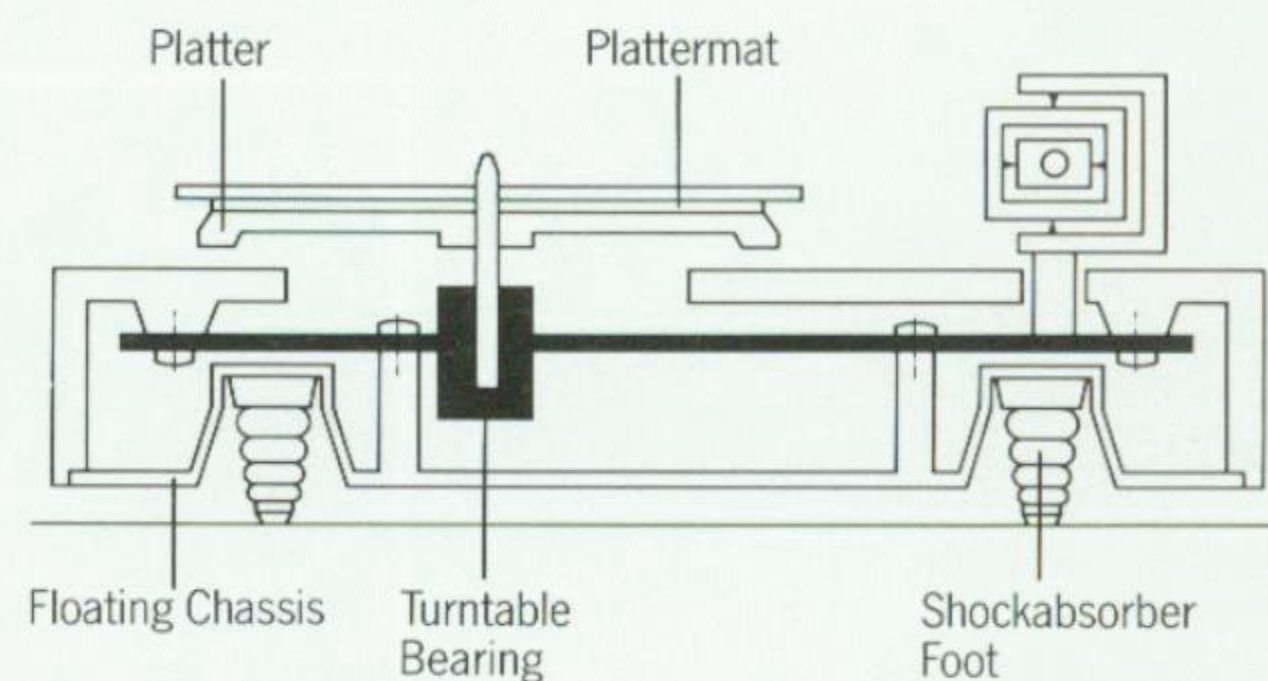
The extremely light headshell consisting of 40 % carbon fibre has excellent torsional stiffness and outstanding strength.

The speed and cueing device can be conveniently adjusted from above.

The cueing mechanism is damped to prevent records being damaged.

The vibration-damped full-size platter and the anti-resonance mat ensure a clear and impressive bass reproduction.

The low resonance values of the chassis housing – made from specially developed expanded polyurethane – are roughly equivalent to those of solid wooden walls.



(Diagramm Floating)



The turntable/chassis unit is combined as a sub-chassis and mounted in one piece on a steel plate. Floating on ball bearings set into the bottom of the casing act as shock absorbers and dampen any acoustic feedback and foot-fall sound.

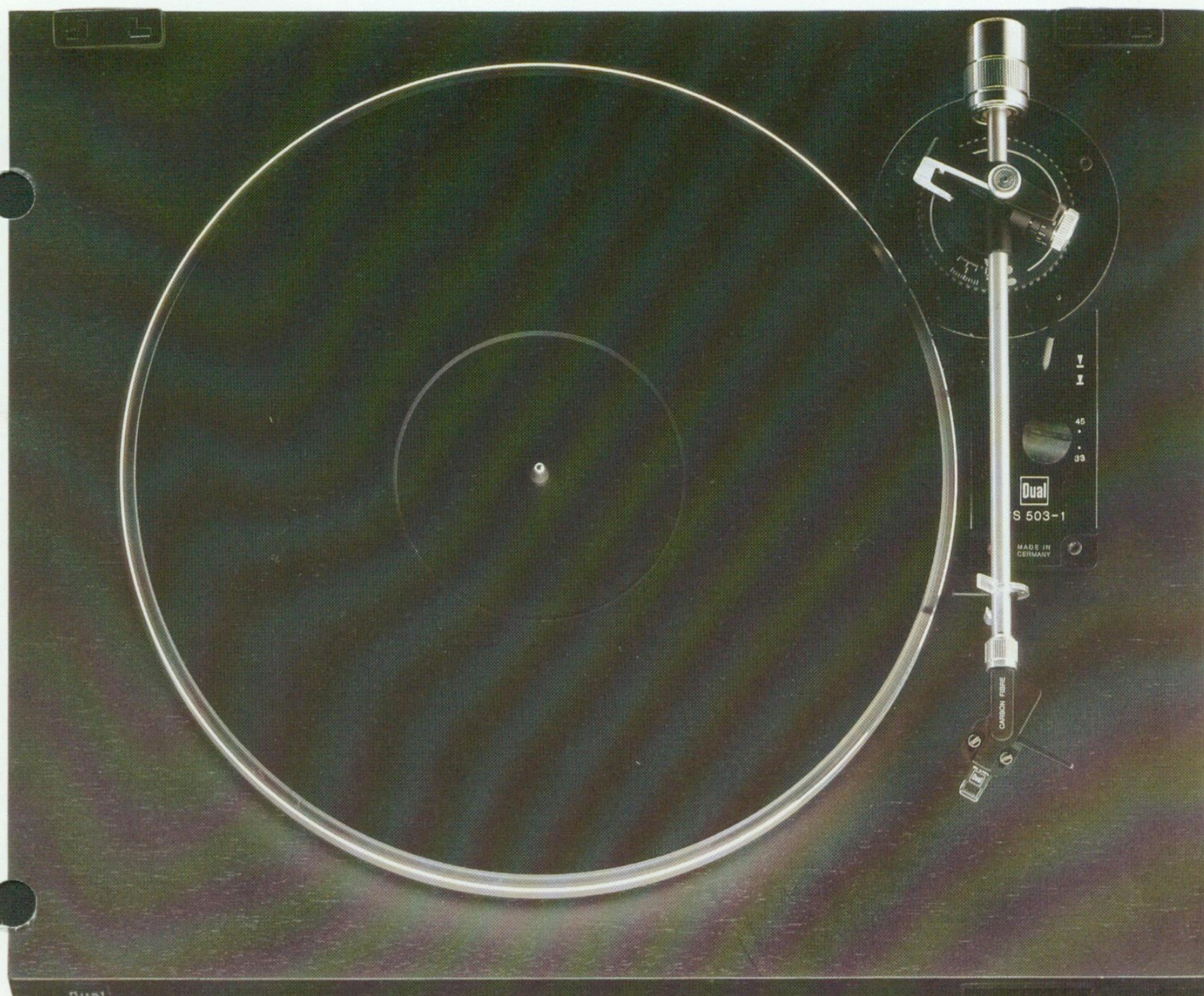
The dynamic tracking action of the stylus in the groove is an extremely complex process. A record – when examined more closely – is usually extremely eccentric and is always to some degree warped. Every time the record goes round, the tonearm moves up and down and from left to right.

The forces acting on the tonearm as it moves corres-

pond physically to its mass, i.e. its weight. The heavier the tonearm, the greater the load on the stylus and the record groove. Consequently, any reduction in the mass of the tonearm can only have a positive effect on the tracking behaviour of the stylus and the life of the record.

Up to this point in time, cast aluminium headshells have been the pinnacle of tonearm technology.

But space technology has brought a completely new material on to the scene – carbon fibre – which is considerably stronger than aluminium and weighs 2.4 times less.



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**Technical data:
Type****CS 503-1**

Type of player	HiFi Semi-automatic
Motor	Electr. DC quartz
Drive system	Belt
Speed rpm	33/45
Wow and flutter \pm % DIN/WRMS	0.07/0.04
Rumble, unweighted, dB	46
Rumble, weighted, dB	70 dB
Cartridge system	Dual DMS 249 E
Rated tracking force mN (10 mN=1 p)	15
Transmission range Hz	10 – 22 000
Bass trackability (300 Hz) μ m	80
Treble trackability (10 kHz) %	0.5
Dimensions (W x H x D) mm	440 x 115 x 363
Mains voltage V	230/115
Mains frequency Hz	50/60
Versions	Anti-resonance housing Wood construction Black