



## **KUZMA XL AIR TURNTABLE BROCHURE**

XL AIR differs from previous Stabi XL DC by using an air bearing and an extra bronze platter with a total mass of 44 kg. The base holding the air bearing is made from two pieces of solid brass which are clamped together having good damping properties.

XL AIR turntable's air bearing compared to a conventional bearing improves two important parameters in turntable design. An air bearing has almost zero friction and thus no vibration in the bearing itself thus eliminating noise reaching the cartridge. The second advantage with a properly designed air bearing (not just simple floating on air cushion) is a higher load. The total mass of the rotating platter is 44 kg making it more immune to cartridge drag which slows down any platter regardless of mass and drive.

An air bearing requires compressed air which is supplied from an air supply.

The air supply consists of a compressor and air filters. Air bearing surfaces are made from porous carbon which has millions of small holes to let air pressure out. This creates more uniform pressure inside the bearing's gap of 5 microns with 4bar pressure, thus making the air bearing stiffer with zero movement.

The top platter, same as in XL DC turntable (22 kg), is a sandwich construction of aluminium and acrylic plates screwed together in a pre-stressed form to damp all unwanted vibration. The lower bronze platter (22kg) is cast and gives good damping properties.

The tonearm tower is a massive brass unit and the armboards can be exchanged to accommodate various tonearms. The mass of the tower gives structural and damping rigidity to the tonearm. The unit allows for VTA adjustment during playback without loss of rigidity or azimuth in a range of 0.01 mm.



The DC motor is mounted via various decoupling elastomers in its own heavy brass tower, minimising motor noise while maintaining maximum motor torque. Torque is transferred from the pulley to the subplatter via the precision machined, plastic blue belt. The electronic power supply PS DC generates frequency controlled feed from a computer to the DC motor.

A heavy threaded brass and acrylic clamp provides additional damping of vibration caused by playback, as well as flattening curved records. The record is pressed securely to the platter-mat, which is a semi-hard combination of rubber and textile. The strobe disc also acts as mat cover.

**Technical data:**

Mass (turntable with one tower) :	120 kg
Platter aluminium- top	22 kg
Bronze platter- lower	22 kg
Base:	27 kg
Motor tower:	7,5 kg
Tonearm tower:	14 kg ( No. 1)
Speeds:	33, 45, 78 rpm
Dimension- turntable:	450x 400 x 300 mm
Air pressure	4 bars
Dimension-compressor:	180x410x430 mm
Compressor mass:	20 kg
Power supply and compressor:	110V or 240 V, 50/60Hz

**Optional:** extra tonearm towers (No.3 without VTA), various armboards, outer clamp



Compressor



Power supply