

# MODEL 312S

MAGNESIUM TONE-ARM

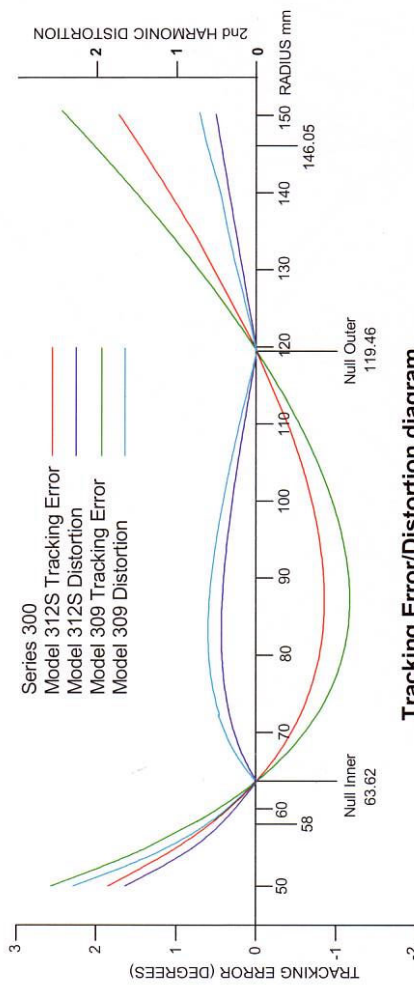
The Model 312S precision pick-up arm is an extension of the popular Series 300 range designed with maximising performance and ease of use in mind. It has a detachable magnesium headshell to provide the convenience of rapid cartridge interchange whilst maintaining a degree of rigidity normally only associated with arms of one piece design. The 12 inch magnesium construction takes advantage of the reduction in maximum tracking error/distortion afforded by the greater arm length when compared with 9 inch models.



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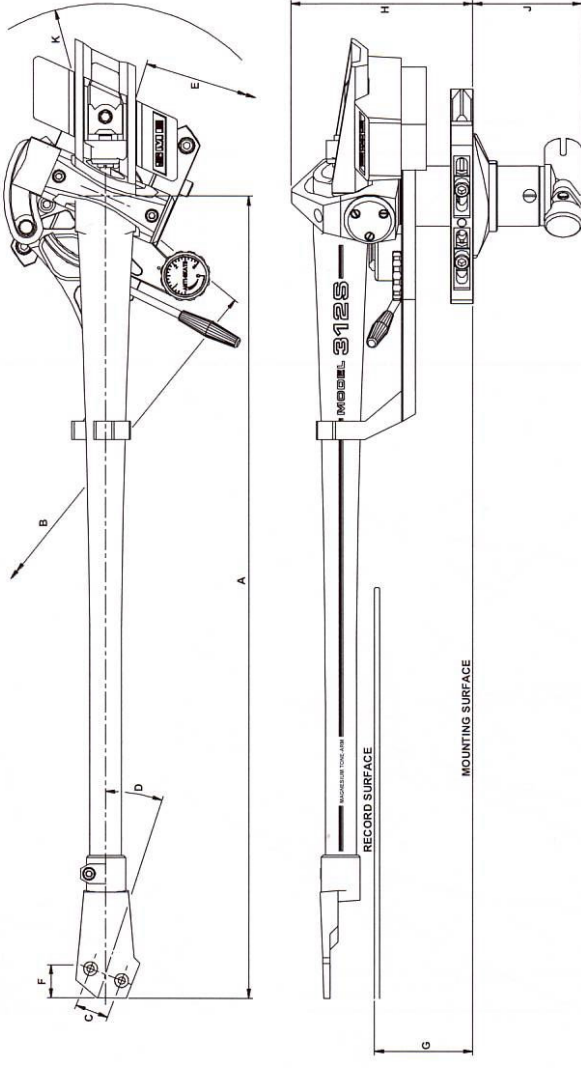
*The best pick-up arm in the world*

# MODEL 312S



## Tracking Error/Distortion diagram

- ★ The 12in pressure die-cast magnesium construction takes advantage of the reduction in maximum tracking error/distortion afforded by the greater arm length when compared with 9in models.
- ★ Unique pressure die-cast magnesium shell detachable and interchangeable without disturbing cartridge or wiring.
- ★ Design of headshell clamping ensures a rigid junction with the tone-arm.
- ★ Internal constrained layer damps minute residual vibrations making tone-arm acoustically inert.
- ★ Stainless steel cross shaft, ground and thread ground. Carried in massive yoke on 10mm precision ball races. Axes at record mean level to minimise warp-wow.
- ★ Unique assembly gives high rigidity and allows bearings to be critically adjusted before the tone-arm is fitted.
- ★ Stainless steel vertical shaft, ground and thread ground, with integral 16mm diameter flange to couple shaft and yoke.
- ★ 23mm diameter steel pillar, heat treated, ground and honed, carries two 17mm precision ball races, widely spaced to resist tilt.
- ★ Anti-skate control operates through tension spring and filament. Dial calibrated to correspond with VTF and has positive OFF position.
- ★ Lowering/raising control gives smooth positive action. Height of lift can be adjusted.
- ★ Dual-lock base provides movement control with high rigidity.
- ★ Tungsten-alloy balance weight carried on two-point suspension. Extra-low inertia design assists warp riding.
- ★ Underslung weight housing corrects centre of gravity and provides non-reflective tone-arm termination.
- ★ Swivelling, damped output socket minimises vibration transmission in sub-chassis use.
- ★ Reference lines on tone-arm facilitate VTA setting.
- ★ Fine adjustment of horizontal tracking angle (HTA).
- ★ Alignment protractor designed to provide HTA setting with greater accuracy.
- ★ Cartridge leads and internal wiring in Silver Iitz.
- ★ Balanced Silver-hybrid audio lead with gold plated phono plugs.



## DIMENSIONS

A - Distance from pivot to stylus	308.20mm
B - Distance from pivot to turntable centre	295.60mm
C - Cartridge fixing centres	12.70mm
D - Offset Angle	17.28°
E - Linear Offset	91.54mm
F - Overhang	12.60mm
G - Height above mounting surface	max. 87.90mm min. 56.40mm
H - Height of record surface above mounting surface	max. 55.90mm min. 24.40mm
J - Depth below mounting surface	56.75mm
K - Radial clearance for balance weight	73.00mm

## SPECIFICATIONS

Effective Mass	14.0g
Cartridge balance range	7.0-19.0g
+ One accessory weight - up to	24.5g
+ Two accessory weight - up to	30.0g
Maximum tracking error	0.009°/mm
Null points:	Inner 63.62mm Outer 119.46mm
Internal wiring:	Ultra-flexible Silver Iitz
Audio lead:	Length 1.2m Balanced Silver-hybrid cable with gold plated phono plug connections to amplifier and independent grounding system.
Weight net:	820.0g



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The Model 312S precision pick-up arm is available in the UK from leading audio stockists only. Global distribution is made by appointed agents in the countries concerned. Please contact our Sales Department for further details.