

# 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.

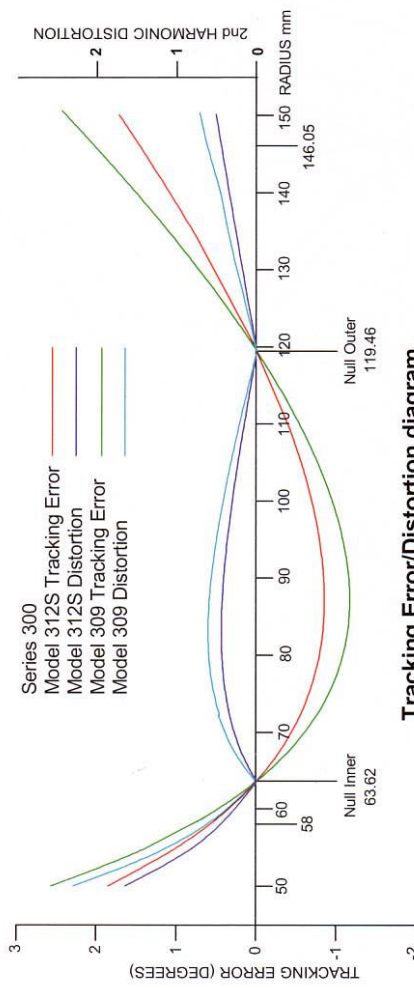


# S S S

*The best pick-up arm in the world*

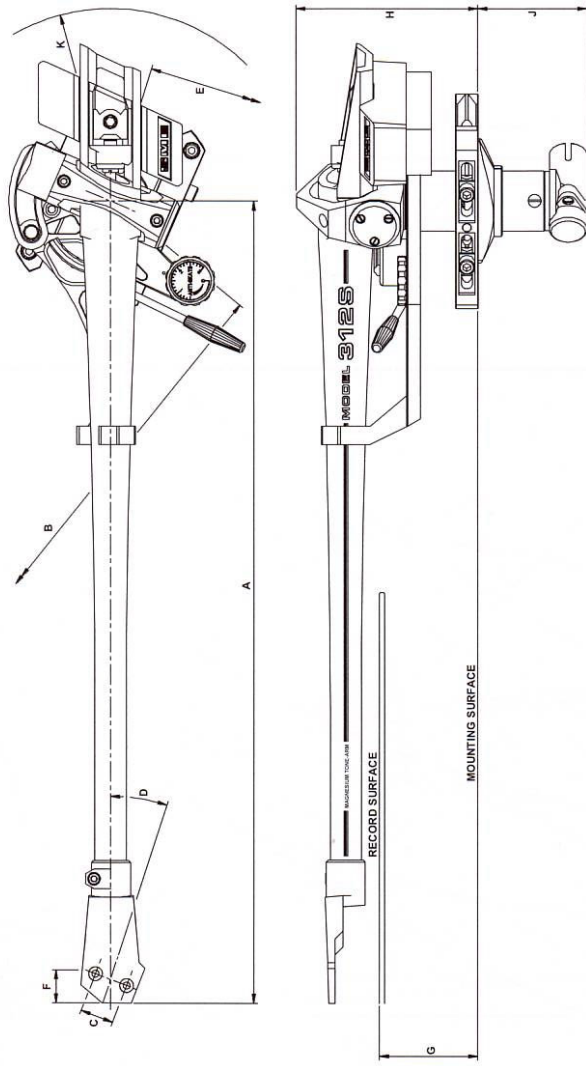


# MODEL 312S



## 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



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.

SME LIMITED · STEYNING · WEST SUSSEX · BN44 3GY · ENGLAND

+044 (0) 1903 814321 · +044 (0) 1903 814269  
 e-mail - sales@sme.ltd.uk · www.sme.ltd.uk

