

TSX

Evolution for the Enthusiast

Take all the virtues of the Treo Series subwoofers and top it all off with massive dual voice coils, double-stacked magnets and insane power handling, and you end up with a Treo Series Extreme subwoofer. The TSX features 33% greater power handling and exciting new cosmetics.

- Precision CNC-machined, low-carbon steel motor structure (208 oz. on TSX10.xx & TSX12.xx 298 oz. on TSX15.xx)
- Large-diameter pole vent
- High-excursion motor structure and suspension design
- Wide 3-layer UV-treated foam surround
- Resin-impregnated poly-cotton damper for more cone control
- Mica-impregnated polypropylene cone and dustcap
- Integrated tinsel leads for increased reliability and sound quality at high excursion
- 2.5" high-temp aluminum voice coils on TSX10.xx & TSX12.xx
- 3.0" high-temp aluminum voice coils on TSX15.xx
- 400 watts RMS power handling on TSX10.xx & TSX12.xx
- 500 watts RMS power handling on TSX15.xx
- Available with dual 2-ohm and dual 4-ohm voice coils for unlimited installation flexibility
- Optimized for small sealed, vented and bandpass enclosures
- Hand built in the United States from domestic and imported components
- 3-year dealer installed warranty

TREO
ENGINEERING

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TECHNICAL INFORMATION

	TSX10.22	TSX10.44	TSX12.22	TSX12.44	TSX15.22	TSX15.44
Woofer Size	10 in 250 mm	10 in 250 mm	12 in 300 mm	12 in 300 mm	15 in 380 mm	15 in 380 mm
Nominal Impedence	Dual 2 Ω	Dual 4 Ω	Dual 2 Ω	Dual 4 Ω	Dual 2 Ω	Dual 4 Ω
Outside Diameter	10-1/8 in 258 mm	10-1/8 in 258 mm	12-1/4 in 312 mm	12-1/4 in 312 mm	15-1/2 in 394 mm	15-1/2 in 394 mm
Cutout Size	9-1/8 in 232 mm	9-1/8 in 232 mm	11 in 280 mm	11 in 280 mm	13-5/8 in 346 mm	13-5/8 in 346 mm
Mounting Depth	5-1/2 in 140 mm	5-1/2 in 140 mm	6 in 153 mm	6 in 153 mm	7-1/2 in 191 mm	7-1/2 in 191 mm
Voice-coil Diameter	2-1/2 in 64 mm	2-1/2 in 64 mm	2-1/2 in 64 mm	2-1/2 in 64 mm	3 in 76 mm	3 in 76 mm
Motor Weight	208 oz 5.90 kg	208 oz 5.90 kg	208 oz 5.90 kg	208 oz 5.90 kg	298 oz 8.45 kg	298 oz 8.45 kg
Total Weight	230 oz 6.52 kg	230 oz 6.52 kg	260 oz 7.37 kg	260 oz 7.37 kg	350 oz 9.92 kg	350 oz 9.92 kg
Driver Displacement	0.075 ft ³ 2.12 L	0.075 ft ³ 2.12 L	0.080 ft ³ 2.27 L	0.080 ft ³ 2.27 L	0.100 ft ³ 2.83 L	0.100 ft ³ 2.83 L
Revc Impedence	4.2 Ω	8.2 Ω	4.2 Ω	8.2 Ω	3.8 Ω	8.1 Ω
Power Handling (RMS)	400 W	400 W	400 W	400 W	500 W	500 W
SPLo*	83.563 dB	83.508 dB	85.174 dB	84.826 dB	86.635 dB	86.457 dB
No	0.15%	0.14%	0.21%	0.19%	0.29%	0.28%
Sd	46.8 in ² 301.7 cm ²	46.8 in ² 301.7 cm ²	71.3 in ² 460.0 cm ²	71.3 in ² 460.0 cm ²	117.0 in ² 754.8 cm ²	117.0 in ² 754.8 cm ²
Fo	26.625 Hz	30.805 Hz	27.061 Hz	28.460 Hz	21.179 Hz	21.800 Hz
Vas	1.020 ft ³ 28.778 L	0.861 ft ³ 24.369 L	2.036 ft ³ 57.641 L	1.654 ft ³ 46.830 L	4.572 ft ³ 129.452 L	4.895 ft ³ 138.617 L
Qms	2.892	3.226	3.394	3.485	3.437	3.321
Qes	0.36	0.489	0.534	0.547	0.411	0.5
Qts	0.321	0.425	0.461	0.473	0.367	0.434
Cms	222.619 μM/N	188.509 μM/N	191.866 μM/N	155.883 μM/N	160.027 μM/N	171.357 μM/N
Mmd	157.501 g	138.584 g	174.612 g	194.950 g	340.972 g	299.123 g
Mms	160.514 g	141.598 g	180.284 g	200.622 g	352.895 g	311.046 g
BL	17.688 T·M	21.442 T·M	16.696 T·M	20.073 T·M	21.761 T·M	26.850 T·M
X-Max	1.10 in 28 mm	1.10 in 28 mm	1.10 in 28 mm	1.10 in 28 mm	1.14 in 29 mm	1.14 in 29 mm

* Efficiency is not an accurate indicator of a subwoofer's output capability and should not be used to compare subwoofers.

RECOMMENDED ENCLOSURES

	SEALED	PORTED
TSX10.22 & TSX10.44	0.80 cu ft F3=44 Hz	1.25 cu ft net, 12 sq in vent, 18-1/8 in long, F3=30.4 Hz
TSX12.22 & TSX12.44	1.1 cu ft F3=42.1 Hz	1.6 cu ft net, 16 sq in vent, 18.5 in long, F3=31 Hz
TSX15.22 & TSX15.44	1.7 cu ft F3=41.2 Hz	2.5 cu ft net, 20 sq in vent, 12.75 in long, F3=30.6 Hz

