

TANNOY®



**Precision...**

The heart and soul of music

# Precision

The Precision range from Tannoy gets closer to the music. These compelling, contemporary loudspeakers combine Tannoy's 85 years of loudspeaker design experience with modern high tolerance manufacturing to deliver outstanding accuracy and musical articulation. Capable of revealing the finest detail yet reproducing the largest dynamic crescendos, Precision is the heart and soul of music.

This luxury loudspeaker range combines audiophile delicacy with breathtaking dynamics to deliver outstanding realism with music and movies. Meticulously engineered throughout, the entire Precision range is based on a new 150 mm (6") version of Tannoy's world renowned Dual Concentric™ driver with WideBand™ tweeter technology. This innovative point source driver delivers exceptional bandwidth with extremely low colouration to ensure faithful reproduction of the source information.

Tannoy's Dual Concentric technology has been continuously evolved and refined over five decades to maintain its class-leading performance as materials and engineering expertise have advanced. The Precision Dual Concentric is at the cutting edge of coaxial speaker technology and features an innovative double magnet bass motor system. This enhances focus of the magnetic field in the voice coil gap, increasing sensitivity and further improving damping. The double magnet principle is also deployed on Precision bass drivers resulting in fluid and musical bass reproduction down to exceptionally low frequencies.



“Orchestras have become used to the emphasis on the separation of layers, of the ultimate **precision** and clarity”

Esa-Pekka Salonen - conductor



“A lot of those little things that I really like doing are just moments of cool articulation, just little moments of **precision** and phrasing”

Steve Vai - rock guitarist and songwriter

# Engineered with style

Drawing on Tannoy's rich heritage in fine loudspeaker craftsmanship, Precision cabinets mate traditional acoustic engineering with contemporary style and design. The unique cabinet shape, textured wood veneer or high gloss finishes and discrete brushed aluminium trims create a loudspeaker of sophistication and beauty.

The heavyweight cabinets use flat front and rear baffles coupled with curved side panels to reduce internal reflections and brace the cabinet structure. This geometry minimises cabinet colouration, improving the clarity and communication of the music. Each driver is mounted using Tannoy's proprietary Differential Materials Technology™ (DMT™) material to acoustically couple each chassis to the cabinet.

The flagship floor-standing Precision models are further enhanced with custom-made stabilising plinths and a Mass Loading Cavity (MLC). The MLC of each Precision model has been engineered to offer user-specified bass tuning by filling or part filling with dry mineral aggregates or dedicated loudspeaker ballast materials. The new plinth design offers top-access adjustment of the floor coupling spikes to make critical speaker stabilisation and levelling adjustments easy.

From the real wood veneers and deep gloss lacquer finishes to the smooth aluminium trims and unobtrusive branding, the Precision range boasts premium design and finish throughout. Subtle dark-weave grilles with sub-surface magnetic fixings ensure a smooth, contemporary look with the grilles on or off. Precision by Tannoy is sophisticated, elegant and capable of getting to the heart and soul of music.

# The range

The Precision range comprises two prestigious floor-standing models, a stand-mount speaker and a dedicated centre channel design for multichannel music and movie systems. The flagship Precision 6.4 is refined and articulate yet capable of delivering rock music or orchestral crescendos with exceptional dynamic power. The new 150 mm (6") Precision Dual Concentric is paired with a matching 150 mm (6") bass driver and the substantial cabinet is loaded with auxiliary bass radiators for deeper, tighter LF reproduction.

The smaller Precision 6.2 floor-standing model is a luxuriously finished rear ported floor-standing design with a smaller footprint. Using the double magnet 150 mm (6") Precision Dual Concentric and the matching 150 mm (6") bass driver, Precision 6.2 delivers musical coherence and full-range scale from a relatively compact design.

A purist Tannoy design, the stand-mount Precision 6.1 utilises simply the 150 mm (6") Precision Dual Concentric driver in a compact, ported cabinet. Offering precise imaging and intimate detailing, the Precision 6.1 is ideal for the smaller listening room. For multi-channel systems the Precision 6C centre can be matched with any of the other speakers in the range for perfect surround synergy.



## The Tannoy TS2.12 Subwoofer.

This award winning, twin 12" driver, 500 Watt active sub has been designed to bring home cinema thunder to any Precision-based loudspeaker system.





“Jazz attracted me because in it I found a formal perfection and instrumental **precision** that I admire in classical music.”

Django Reinhart - jazz guitarist and composer





# The technology

Tannoy Dual Concentric drivers have long been respected for their musical coherence and sheer visceral impact. The 150 mm (6") Precision Dual Concentric represents the latest iteration of the technology and Tannoy's most articulate and powerful 6" Dual Concentric driver to date. By placing the WideBand titanium tweeter at the heart of the rigid multi-fibre bass cone, the Dual Concentric driver offers true point-source musical integrity and exceptional instrumental and vocal accuracy.

The Precision Dual Concentric features Tannoy's latest 25 mm (1") titanium dome HF driver featuring WideBand technology and the Company's signature Tulip WaveGuide. By carefully matching acoustic path lengths the Tulip Waveguide creates a perfectly spherical HF wave front, resulting in reduced colouration and pinpoint stereo imaging.

The mid/low frequency cone is an ultra-rigid multi-fibre pulp material with a rubber roll surround, giving the most natural communication through the key mid-band frequencies. Both the Precision Dual Concentric driver and Precision bass driver are fitted with double magnet bass motor systems. This enhances focus of the magnetic field in the voice coil gap, giving the drivers high sensitivity and outstanding dynamic range. Rigid die-cast driver chassis, multi-point fixings and mounting using Tannoy's Differential Materials Technology (DMT) further enhance Precision's spacious and dynamic sound.

Precision is a luxury range of loudspeakers that benefit sonically and cosmetically from Tannoy's lavish attention to the smallest details. The crossover features the very best low-loss laminated core inductors and polypropylene capacitors and is hard-wired onto a rigid mounting board rather than using a typical Printed Circuit Board (PCB). The result is an exceptionally clean signal path and very low crossover losses, ensuring the very best in detail resolution and musical communication.

The Precision terminal block features high quality gold plated bi-wire binding posts that offer a secure connection to heavy-gauge bare cable, spade or banana plug terminations. Tannoy's signature fifth terminal is incorporated across the Precision range to earth the driver chassis to the amplifier ground and reduce RF interference in the audio system. Each Precision loudspeaker is supplied with high purity copper bridging links with gold plated terminals for single-wire installations.



### **Audiophile Crossover**

Low-loss laminated core inductors and audiophile-grade polypropylene capacitors are used exclusively throughout the Precision crossover. This no-compromise approach ensures the best possible signal integrity to both the HF and LF sections of the Dual Concentric driver.

### **Precious Metal Wiring**

Silver plated, high purity oxygen free copper wiring is used throughout the Precision range. This high-end cable construction offers every speaker a low-loss, high-current signal transfer to ensure every musical nuance is reproduced.

### **Unique Grounding Terminal**

Tannoy's unique fifth speaker terminal electrically earths the driver chassis, dramatically reducing radio frequency interference circulating in the hi-fi system. Eliminating this RF 'noise' brings substantial improvements in mid-range clarity and further enhances soundstage spaciousness.

### **Top Adjusting Spikes**

The plinth on Precision floor-standing models incorporates Tannoy's easy to adjust floor spikes. Each metal bodied turret is mounted through the plinth, allowing the spike height to be adjusted from above. A large thumb wheel locks the spike in place for maximum rigidity.

# Precision... the heart and soul of music

## Dual Concentric

- Point source articulation and exceptional phase coherence
- WideBand HF unit with titanium dome and Tulip WaveGuide
- High-power twin ferrite magnet motor system
- Tannoy DMT mounting improves cabinet coupling



## Crossover

- Straight path crossover with high-end components
- Tannoy DMT mounted and damped components reduce microphony
- Fully hard wired, with no PCB tracks to degrade signal transparency
- High purity silver plated internal wiring



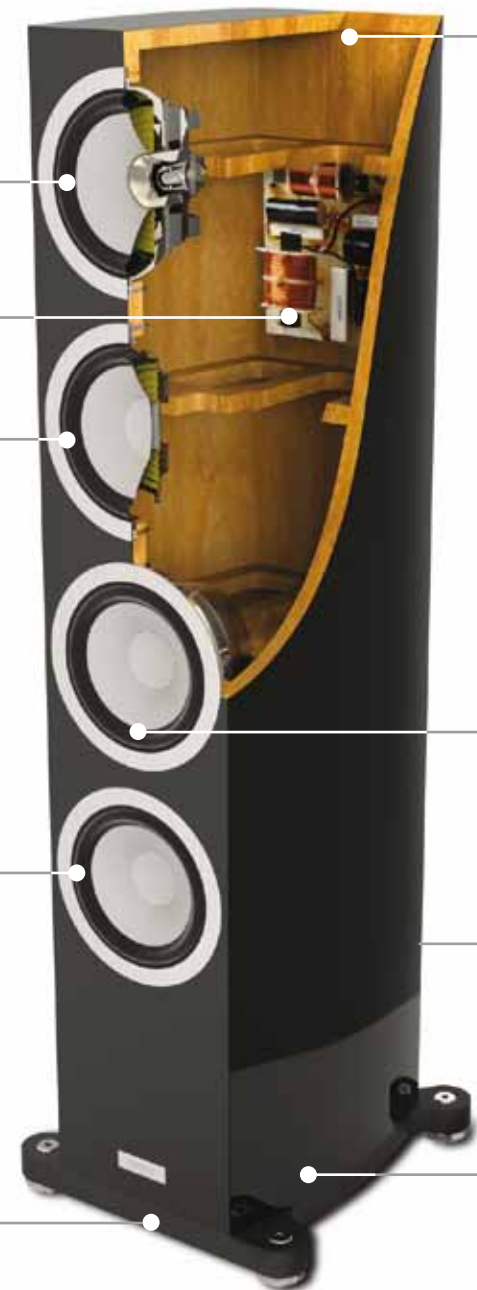
## Auxiliary Bass Radiators (ABR)

- Twin high-compliance / low-loss ABR cabinet loading for ultra-tight deep bass
- Provides high air volume velocities with low distortion
- Completely eliminates port turbulence
- Distributed alignment above / below bass driver for smooth LF response



## Custom plinth

- Substantial, one piece custom fit plinth assembly
- Floor coupling spikes with easy top levelling adjustment and CNC turned locking rings
- Improved stability and LF articulation
- Specially machined cups to prevent damage to polished wooden or marble floors





### Cabinet

- Sealed cabinet design with ABR bass loading (6.4) tuned to 23 Hz
- Curved side panels minimise cabinet colouration
- Choice of 3 real wood finishes on floor-standing models
- Internal bracing damps natural panel resonances



### Bass driver

- High power bass driver for deep LF extension
- Twin ferrite magnet motor system providing increased sensitivity
- Multi-fibre cone material acoustically matched to Precision DC driver
- Supplements the Dual Concentric at low frequencies only for enhanced bass extension, without detracting from the Point Source principle



### Terminal panel

- Gold-plated bi-wire binding posts
- High purity bi-wire links with gold-plated termination
- Fifth 'ground' terminal reduces RF interference providing cleaner mid-range and increased detail resolution



### Mass Loading Cavity (MLC)

- Mass Loading Cavity for increased stability
- Improves low frequency timing information and gives enhanced stereo imaging
- Designed for mineral aggregate or dedicated loudspeaker ballast
- Fill or part fill to best tune with room acoustics





# Precision Specifications



**Precision 6.1**



**Precision 6.2**



**Precision 6.4**



**Precision 6C**

## Performance

<b>Recommended amplifier power</b> (Watts RMS)	20 – 150	20 – 175	20 – 200	20 – 175
<b>Continuous power handling</b> (Watts RMS)	75	87	100	87
<b>Peak power handling</b> (Watts)	300	350	400	350
<b>Sensitivity</b> (2.83 Volts @ 1 m)	88 dB	89 dB	90 dB	90 dB
<b>Nominal Impedance</b> (Ohms)	8	8	8	8
<b>Frequency response</b> (-6 dB)	43 Hz – 35 kHz	34 Hz – 35 kHz	29 Hz – 35 kHz	36 Hz – 35 kHz
<b>Dispersion</b> (degrees conical)	90	90	90	90

## DRIVE UNITS

<b>Dual Concentric high frequency</b>	25 mm (1") Titanium dome with Tulip WaveGuide	25 mm (1") Titanium dome with Tulip WaveGuide	25 mm (1") Titanium dome with Tulip WaveGuide	25 mm (1") Titanium dome with Tulip WaveGuide
<b>Dual Concentric low frequency</b>	150 mm (6") treated paper pulp cone with rubber surround. 44 mm (1.75") edge-wound voice coil	150 mm (6") treated paper pulp cone with rubber surround. 44 mm (1.75") edge-wound voice coil	150 mm (6") treated paper pulp cone with rubber surround. 44 mm (1.75") edge-wound voice coil	150 mm (6") treated paper pulp cone with rubber surround. 44 mm (1.75") edge-wound voice coil
<b>Bass Driver</b>	-	150 mm (6") treated paper pulp cone with rubber surround. 44 mm (1.75") edge wound voice coil	150 mm (6") treated paper pulp cone with rubber surround. 44 mm (1.75") edge wound voice coil	150 mm (6") treated paper pulp cone with rubber surround. 44 mm (1.75") edge wound voice coil
<b>Auxiliary bass radiator</b>	-	-	2 x 150 mm (6") treated paper pulp cone with rubber surround, mass loaded	150 mm (6") treated paper pulp cone with rubber surround, mass loaded

## Crossover

<b>Crossover frequency</b>	1.6 kHz	170 Hz, 1.6 kHz	170 Hz, 1.6 kHz	170 Hz, 1.6 kHz
<b>Crossover type</b>	Passive low loss 2 <sup>nd</sup> order LF, 1 <sup>st</sup> order HF	Passive low loss 2 <sup>nd</sup> order LF, 1 <sup>st</sup> order HF	Passive low loss 2 <sup>nd</sup> order LF, 1 <sup>st</sup> order HF	Passive low loss 2 <sup>nd</sup> order LF, 1 <sup>st</sup> order HF

## Cabinet

<b>Enclosure type</b>	Rear ported	Rear ported	Passive radiator	Passive radiator
<b>Dimensions</b> H x W x D (excl grille)	330 x 224 x 257 mm (13 x 8.82 x 10.12")	1000 x 310 x 283 mm (39.4 x 12.2 x 11.14")	1052 x 310 x 352 mm (41.42 x 12.20 x 13.86")	237 x 585 x 256 mm (9.93 x 23.03 x 10.08")
<b>Volume</b>	11.0 Litres (0.39 cu. ft.)	29.3 Litres (1.03 cu. ft.)	44.1 Litres (1.56 cu. ft.)	20.3 Litres (0.72 cu. ft.)
<b>Weight</b>	7.3 kg (16.1 lbs)	18.4 kg (40.6 lbs)	21.8 kg (48.1 lbs)	13.0 kg (28.7 lbs)
<b>Finishes</b>	High gloss dark walnut High gloss black	Satin dark walnut High gloss dark walnut High gloss black	Satin dark walnut High gloss dark walnut High gloss black	High gloss black





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