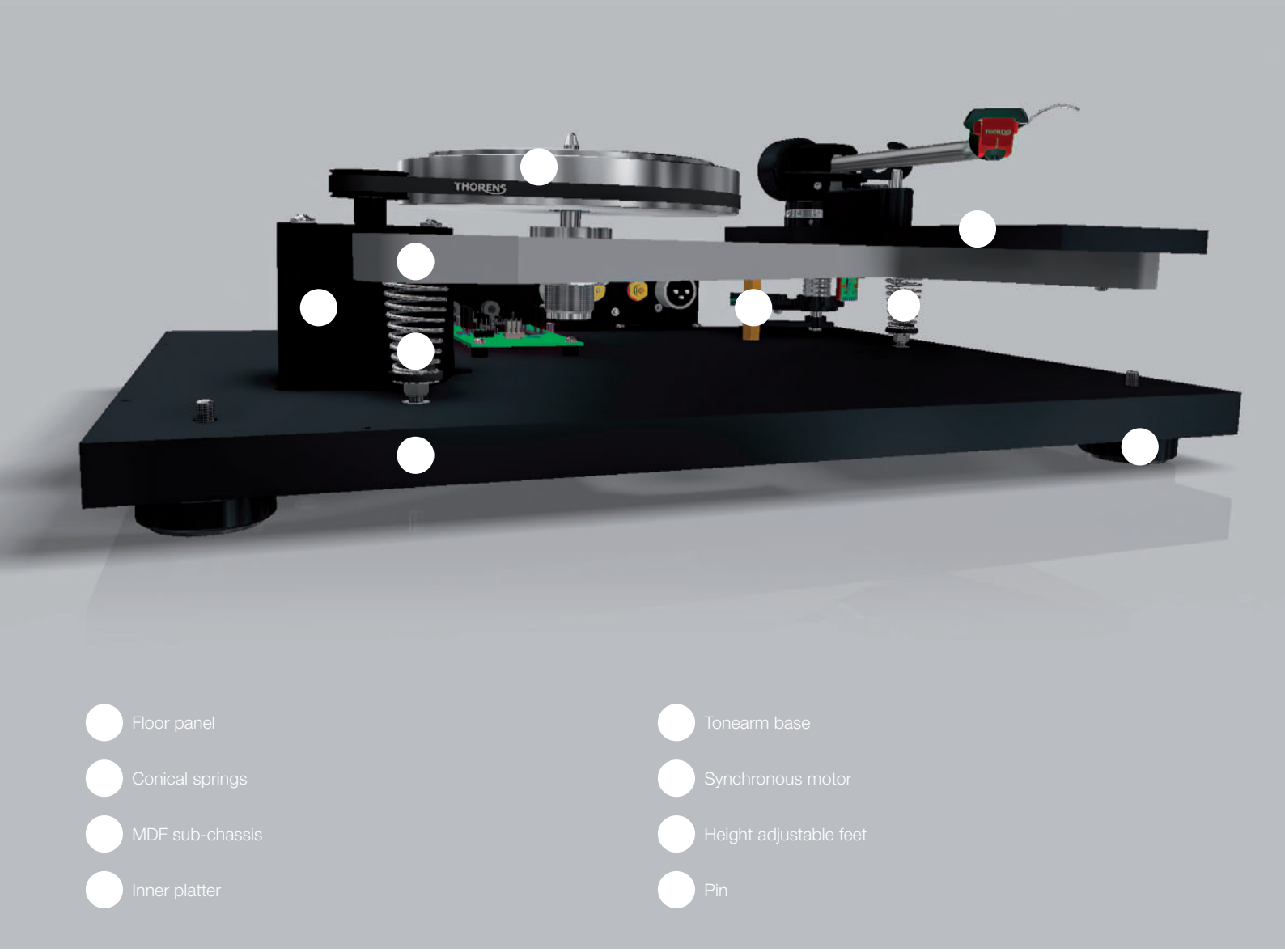
with TP 160 tonarm

1972 TD160 ...

... and today 2020 TD 1600/1601

Since we introduced the TD 150 model in 1965, demonstrating that turntables with a suspended subchassis are suitable for the mass market, this principle has been widely adopted, copied, and further developed. Within our own product line-up, the design with three conical springs could be found in many different Thorens models. Among the most successful and well-known is the famous TD 160, with its various iterations, which remained in production for almost 30 years and represented the DNA of our brand like no other turntable.

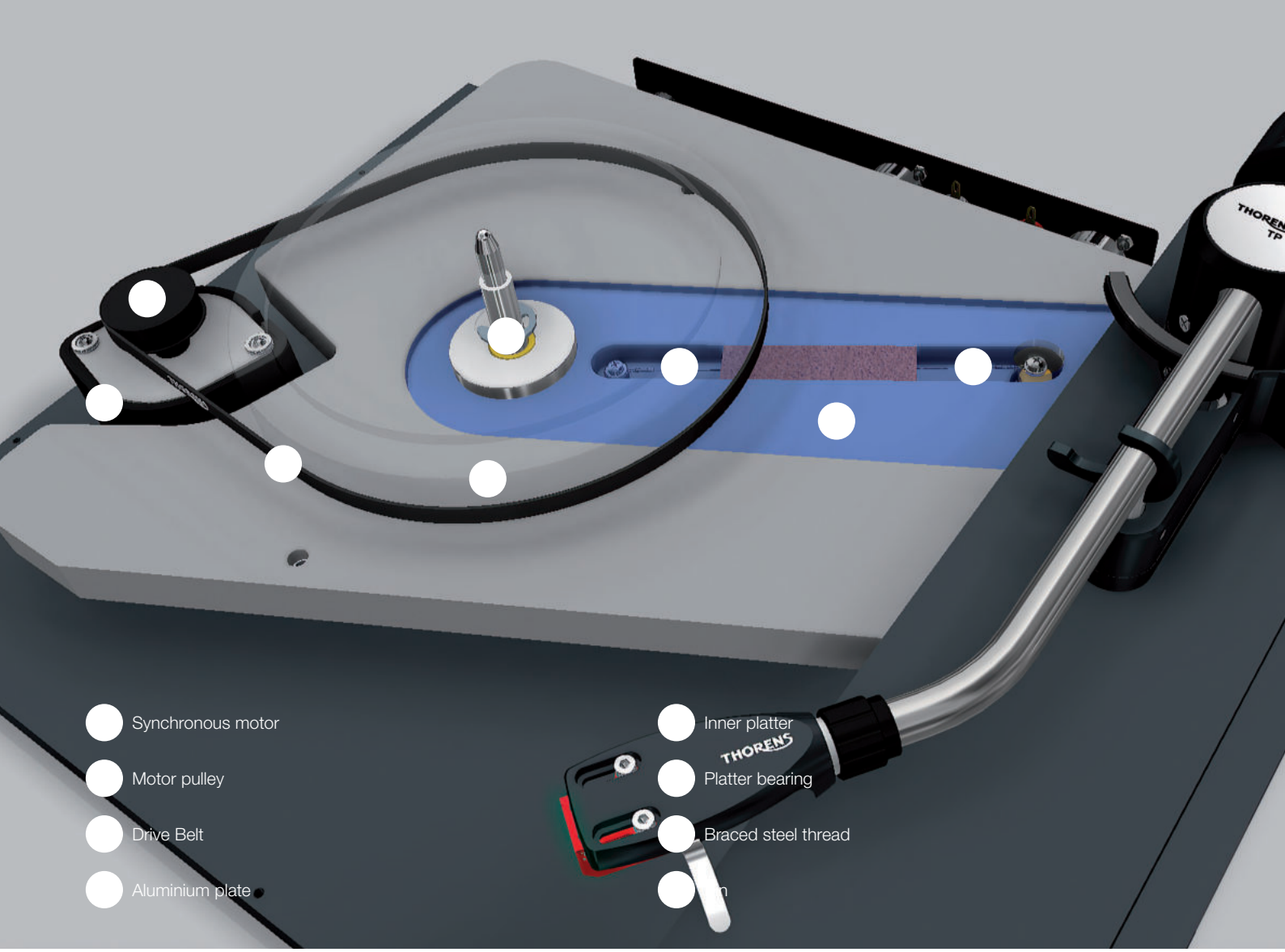
Developing a successor for such a legend is a genuine challenge that we willingly embraced. Therefore, our new subchassis turntables, the TD 1600 and TD 1601, embody the same innovative spirit, attention to detail, and passion for the best possible analog music playback that distinguished the original TD 160 50 years ago.



- Floor panel
- Conical springs
- MDF sub-chassis
- Inner platter
- Tonearm base
- Synchronous motor
- Height adjustable feet
- Pin

Even a cursory glance at the new models reveals their lineage to the famous ancestor. Just like back then, three preloaded and adjustable conical springs support the heavy subchassis. However, these springs are now situated on the base plate, and the subchassis rests upon them, no longer suspended as it was in the past. The entirely decoupled synchronous motor drives the heavy inner platter and the precisely resting outer platter made of solid aluminum in the finest Thorens tradition, using a ground belt. The tonearm is mounted on a special tonearm base.

As with the TD 160, this structural effort primarily serves one goal: to shield the record and tonearm as much as possible from the surrounding environment during playback, ensuring that no externally transmitted vibrations disrupt the delicate groove tracking. This allows the stylus to perceive every nuance of the groove wall and make every detail of the music audible.



The entirely new design of the TD 1600 and TD 1601 is based on the original TD 160 but elevates the subchassis principle to an entirely new level thanks to various technical innovations. Just like in the past, the conical springs upon which the subchassis rests are filled with resonance-dampening foam to quickly quell any vibrations. The bearings for the platter and tonearm are mounted on a solid aluminum plate, providing substantial stability to the entire construction. The platter bearing itself is tensioned with a thin steel thread through a redirection against the base plate, forming a precise extension of the axis between the motor pulley and platter bearing. This eliminates any wobbling of the subchassis caused by the driving forces from the motor on the platter, allowing it to move exclusively in a piston-like up and down motion—a movement that does not disturb the tonearm and stylus while tracking the music in the record groove. This is especially beneficial when using an MC (Moving Coil) cartridge, where the symmetric XLR output, featured on both models, can truly shine.

The heart of a turntable remains the drive system. Therefore, in the development of the TD 1600 and TD 1601, we paid the utmost attention to the new synchronous motor. Intelligent control electronics ensure that the selected turntable speed is maintained with precision.

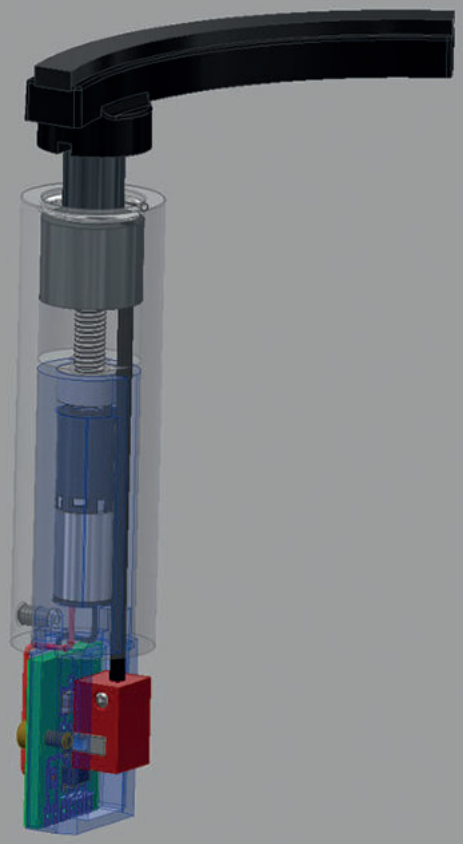
To ensure that the motor always has sufficient power available, we have designed a sophisticated 16V linear power supply, which has been externalized to extract the maximum sound quality from the TD 1600 and TD 1601. This external power supply includes a generously sized toroidal transformer, which, together with the existing filtering capacity, provides the necessary voltage for the synchronous motor under all imaginable operating conditions. This ensures that even the slightest disruptions in the music signal due to power supply issues are eliminated.

Balanced audio connections are standard for professional applications. Since the phono signal must be strongly amplified, it is particularly sensitive to electrical interference. The balanced connection, via the XLR sockets, ensures the most interference-free connection possible between the turntable and the phono preamplifier. To use the True Balanced Connection, the turntable must be equipped with a moving coil (MC) cartridge.

The new precision tonearm TP 160 complements the long-established TP 92 as an optionally available standard arm for the TD 1600/1601 series of turntables. This classic J-shaped 9-inch arm, derived from studio technology, is constructed from a precise aluminum tube with a trusted SME connector, guided by a high-quality knife-edge bearing. A magnetic guidance system prevents any tendency to wobble. The TP 160 marks the first time a knife-edge bearing has been used in Thorens‘ history. Anti-skating is adjusted in the traditional way using a spring, and the arm‘s height (VTA) and azimuth are adjustable.

The scaled two-piece counterweight simplifies the precise adjustment of the required tracking force and ensures that even heavy cartridges with a weight of up to 30g can be balanced precisely. Additionally, the TP 160 features a machined, detachable headshell with an SME connection, making it well-equipped to accommodate various high-quality cartridges. The motorized lift and automatic shut-off of the TD 1601 are, of course, also available with the new TP 160.

The new TP 160 has no need to hide from any other tonearm in the market. Retrofitting existing TD 1600 or TD 1601 models is always possible and can be requested through Thorens.



Patented electronic lift for the TD 1601

In comparison to its legendary predecessor, the TD 1601 boasts an entirely new and uniquely innovative feature in its class today: We‘ve equipped it with an intricately redesigned and patented tonearm lift with a touchless end-off mechanism. Completely independent of the rest of the turntable‘s electronics, a mini motor housed directly within the lift itself smoothly lowers and raises the tonearm at the press of a button, gently guiding it into and out of the record groove. An optoelectronically triggered end-off mechanism stops the platter and raises the arm when the stylus reaches the run-out groove. This preserves the delicate stylus and the sanity of its owner alike.

Function	manual turntable with subchasssis
Drive system	Belt, sub platter aluminum
Motor	electronically controlled and stabilized AC synchronous motor
Speeds	33-1/3, 45 rpm.
Speed select	electronical
Platter	12“ / 4,2 kg (aluminum)
Tonearm	Thorens TP 160 knife edge bearing tonearm
Effective mass of the tonearm	14 g
Cartridge	-
Anti-Skating	spring
Shut off	-
Outputs	RCA / balanced XLR
Power supply	TPN 1600 external linear power supply with 2x 16V and toroidal transformer
Dimensions	454 x 180 x 369 mm (W x H x D)
Weight	11 kg
Finish	solid wooden plinth, black high gloss, walnut high gloss, top board made of triCom
Scope of delivery	power supply, acrylic dust cover
EAN Code	black high gloss 4260623590944, walnut high gloss 4260623590951

Function	manual turntable with subchassis, auto shut off, electrical lift
Drive system	Belt, sub platter aluminum
Motor	electronically controlled and stabilized AC synchronous motor
Speeds	33-1/3, 45 rpm.
Speed select	electronical
Platter	12“ / 4,2 kg (aluminum)
Tonearm	Thorens TP 160 knife edge bearing tonearm
Effective mass of the tonearm	14 g
Cartridge	-
Anti-Skating	spring
Shut off	yes
Outputs	RCA / balanced XLR
Power supply	TPN 1600 external linear power supply with 2x 16V and toroidal transformer
Dimensions	454 x 180 x 369 mm (W x H x D)
Weight	11 kg
Finish	solid wooden plinth, black high gloss, walnut high gloss, top board made of triCom
Scope of delivery	power supply, acrylic dust cover
EAN Code	black high gloss 4260623590920, walnut high gloss 4260623590937

TD 1601 with TP 160 tonarm

TD 1600 with TP 160 tonarm

Thorens GmbH
Lustheide 85
51427 Bergisch Gladbach
Tel.: 02204-8677720

E-Mail: info@thorens.com
Web: www.thorens.com