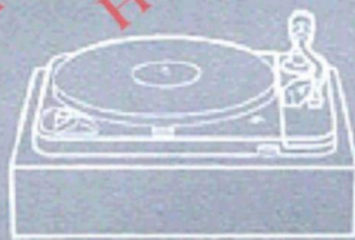
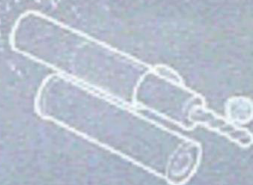
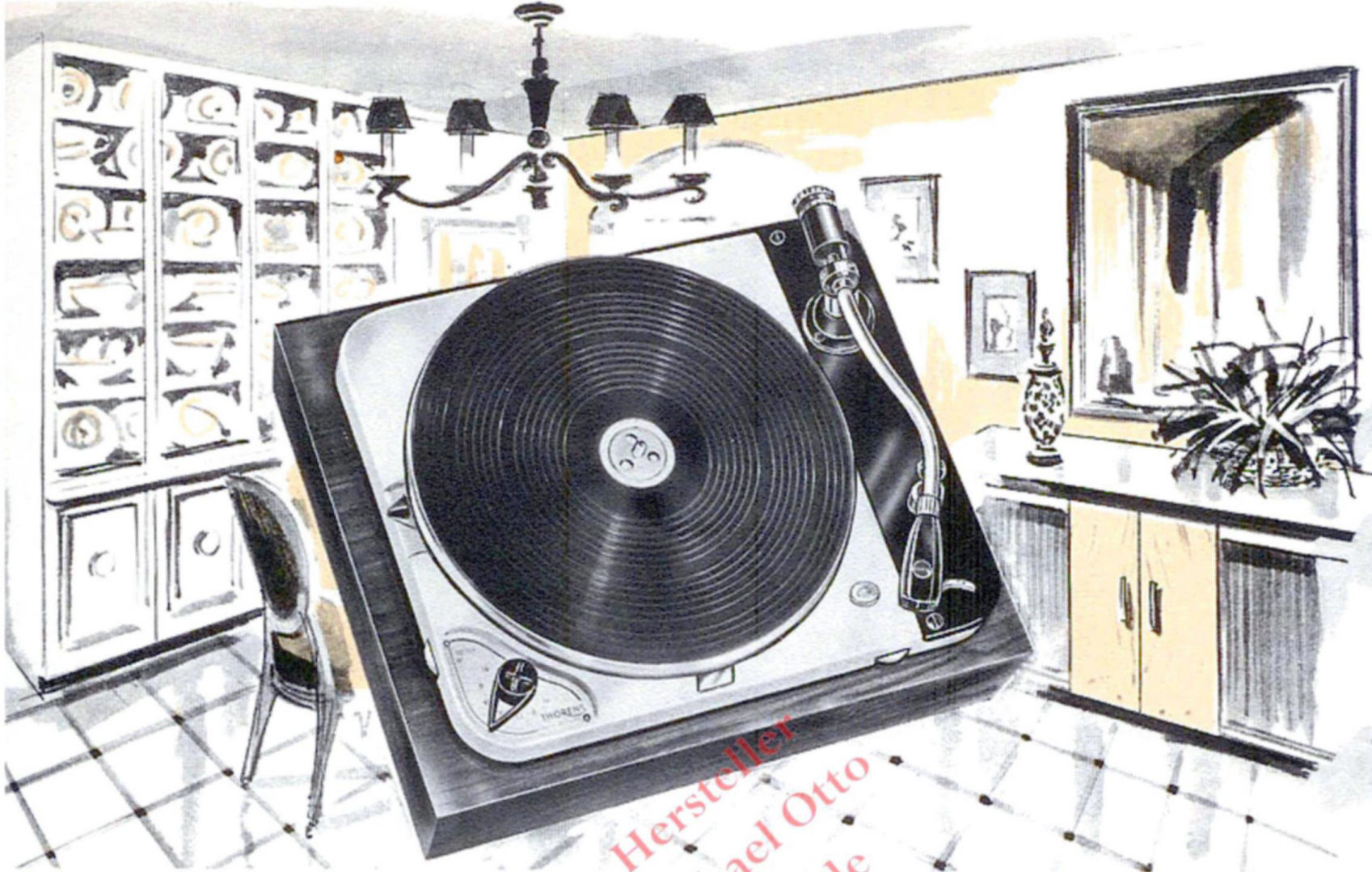


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Archiv Michael  
HiFi-Classik.de



*World-wide Products of Distinction*





## THORENS MODEL TD-124 Transcription Turntable

Never before has a turntable won such worldwide acclaim as the THORENS TD-124. A brilliant example of Swiss precision engineering and craftsmanship. Superbly different, the TD-124 offers a host of exclusive features never before achieved in any other turntable... meets the most exacting demands of broadcasting. Its durability and performance specifications exceed NAB standards for studio equipment.

In the TD-124, THORENS has incorporated many outstanding features that open the way for discriminating music lovers to new and greater enjoyment from their music systems.

The TD-124 is unmatched for monophonic or stereophonic sound reproduction. The drive system utilizes an extra compliant belt plus idler wheel to isolate any motor vibration and special shielding of the turntable flywheel, to reduce any induction of stray fields by magnetic pick-up cartridges.

### NO OTHER TURNTABLE CAN MATCH THESE OUTSTANDING FEATURES:

- 4 speeds plus variable speed adjustment control ( $\pm 3\%$ )
- 12 inch  $11\frac{1}{2}$  pound table with separate non-magnetic aluminum shell cover
- Precision built motor with extra compliant belt-plus-idler isolates motor vibration
- OFF position completely disengages idler wheel to prevent idler flats

Exclusive THORENS clutch assembly for fast stop and start with no stylus injury

- Built-in illuminated stroboscope enables speed check while record is being played, also acts as pilot light
- Built-in level bubble and levelling controls
- Replaceable tone arm mounting board for 12 or 16" arms
- Built-in shock mounts
- Exceeds NAB specifications for rumble, wow and flutter
- FULL ONE YEAR WARRANTY
- Operates at any voltage from 100/250 volts, 50/60 cycles AC

### DIMENSIONS

The TD-124 requires only  $2\frac{3}{4}$ " clearance below top of mounting board. Actual size: 15" wide x  $12\frac{1}{2}$ " deep with 12" arm mounting board. Furnished with line cord and solderplate.

### ACCESSORIES FOR TD-124

WB-124/121 SW . . . Satin Walnut Base for TD-124 & TD-121

CAB-124/121 . . . Satin, Walnut Cabinet with Dust Cover for TD-124 & TD-121

MB-124/121 . . . Mounting Board for TD-124 & TD-121 (unfinished)

AS-12 . . . 12" tone arm board (Walnut, Ebony or Mahogany)

AS-12/OW . . . Deluxe 12" tone arm board (Oiled Walnut)

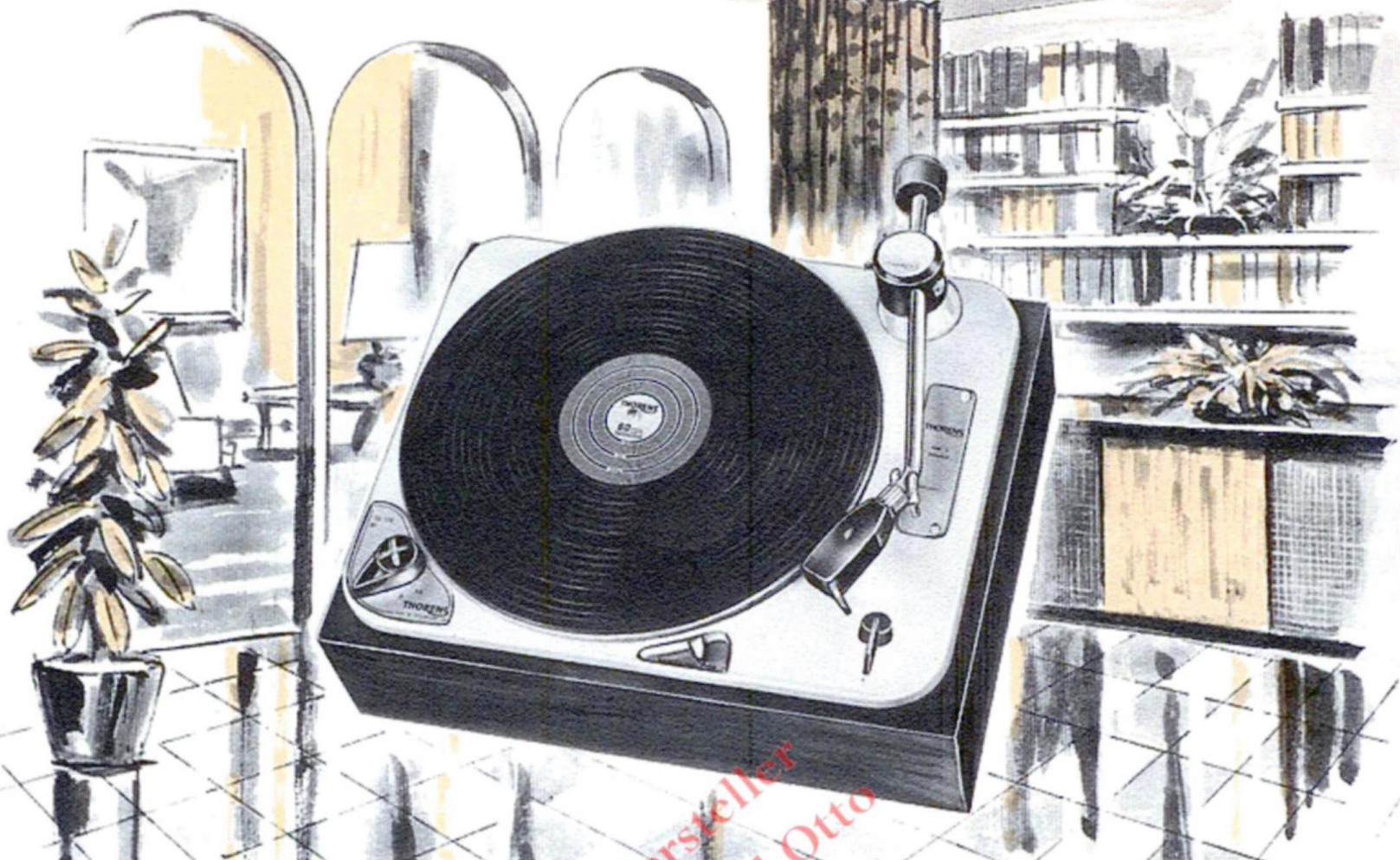
AS-16 . . . 16" tone arm board (Walnut, Ebony or Mahogany)

AS-16/OW . . . Deluxe 16" tone arm board (Oiled Walnut)

WB-309 . . . Oiled Walnut base for all 16" tone arms

CB-788 . . . Non-ferrous turntable

*"The Concert" Combination — Model TD-124 above illustrated with ORTOFON tone arm RMG-212.*



## THORENS MODEL TD-135 4-Speed Turntable with Integrated Arm (Model BTD-12S)

*"The Recital" Combination as illustrated.*

For the first time THORENS makes available a new professional quality 4-speed turntable with a professional type (Model BTD-12S) tone arm mounted as an integral part. Now enjoy the finest sound reproduction almost immediately after opening the box. A simple installation is required install the cartridge and plug the leads into your amplifier. The TD-135 incorporates all the precision workmanship and design that has made THORENS turntables famous the world over.

### OUTSTANDING FEATURES:

- 12-inch, heavy, non-magnetic table for speed stability
- Variable speed control ( $\pm 3\%$ ) made possible by an exclusive and patented eddy-current brake system
- Idler wheel and belt drive for double motor isolation
- 4 speeds plus automatic shut-off

Drive assembly disengaged from idler wheel when switched to OFF position

- Strobe disc included for checking speed
- Exceeds NAB specifications for rumble, wow and flutter
- FULL ONE YEAR WARRANTY
- Operates at any voltage from 100/250 volts, 50/60 cycles AC

### DIMENSIONS

15" wide by 12" deep; extends only 2½" below panel, 3" above.

### ACCESSORIES FOR TD-135

WB-135 . . . Wood base for TD-135 (Walnut, Ebony, Mahogany)

WB-135/SW . . . Satin Walnut base for TD-135

CAB-135 . . . Satin, Walnut Cabinet with Dust Cover for TD-135

MB-135 . . . Mounting Board for TD-135 (unfinished)

## THORENS BTD-12S Professional Tone Arm



### OUTSTANDING FEATURES:

- Overall length: 12½"
- Maximum tracking error: 0.5°/inch
- Offset angle of arm: 25° 15'
- Vertical pivot keeps stylus vertical for any height adjustment
- Adjustable counterweight for precision counter balancing, plus built-in, calibrated stylus force adjustment (0 to 8 grams).
- Lowest inertia in both planes
- Arm resonance is well below frequency response of audio system
- Built-in precision cueing device
- Interchangeable cartridge shells—4 pin type for stereo or mono
- Includes cartridge slide assembly for proper spacing of stylus
- Supplied with mounting board for Thorens TD-124 and TD-121 turntables

WITH EXCLUSIVE  
CUEING CONTROL FOR LOWERING TO  
AND RAISING ARM FROM TURNTABLE

The BTD-12S tone arm is a classic example of Swiss craftsmanship. This professional type arm is designed for the greatest reduction of resistance to movement and lowest inertia. The angle of the tone arm places the cartridge at an optimum tangent to the record groove thus reducing tracking error to a minimum and the special alloy of the arm plus damping material, cancels unwanted mechanical resonances.



## THORENS MODEL TD-121 Convertible 4-Speed Turntable

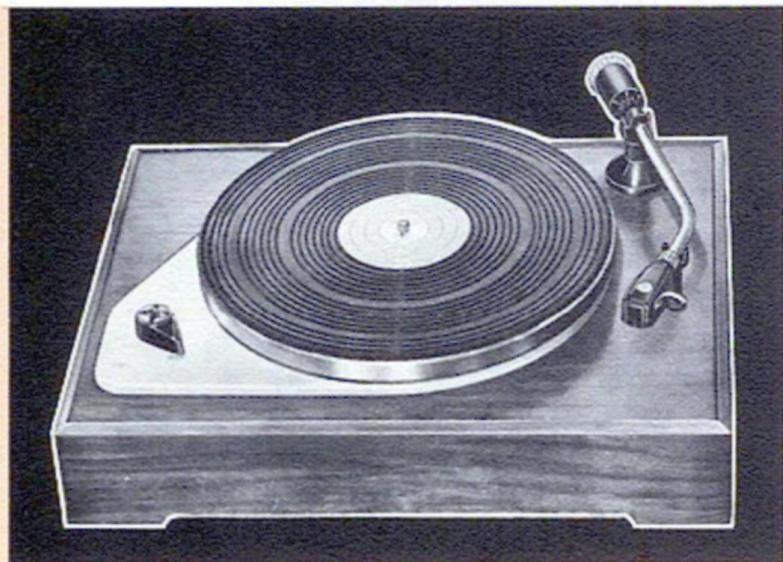
The THORENS TD-121 is just the turntable for those who want the precision and quality performance of the famous TD-124, yet require only 33 $\frac{1}{3}$  rpm. (Speed is easily convertible to 16%, 45, or 78 by repositioning the idler wheel.) The characteristics of this precision-crafted turntable exceed NAB standards for studio equipment. The reduction of vertical and lateral rumble to an absolute minimum, plus the non-magnetic flywheel table, aid immeasurably in the reproduction of realistic and flawless sound. In addition, the replaceable tone-arm mounting board absolutely eliminates undesirable resonances between the baseplate and the tone-arm base or post.

### OUTSTANDING FEATURES:

- 12-inch, heavy non-magnetic table for speed stability
- Convertible speed with speed adjustment ( $\pm 3\%$ )
- 4 leveling knobs—no need to level base or cabinet
- Idler wheel and belt drive for motor isolation
- OFF position completely disengages idler wheel
- Exceeds NAB specs for rumble, wow and flutter
- Strobe disc included for checking speed
- Rubber shock mounts
- Self-lubricating bushings on all main drive parts
- FULL ONE YEAR WARRANTY
- Operates on 110 volts, 60 cycles AC

DIMENSIONS . . . ACCESSORIES (Same as for TD-124)

*"The Overture" Combination — Model TD-121 above illustrated with ORTOFON tone arm SMG-212.*



*"The Prelude" Combination — Model TD-111 above illustrated with ORTOFON tone arm SKG-212.*

## THORENS MODEL TD-111 Single Speed Turntable (33 $\frac{1}{3}$ rpm)

Designed for those who demand both top performance and economy, the TD-111 is a single speed turntable that exceeds NAB studio equipment specifications. Here, too, THORENS precision and master design is evident in silent, effortless turntable rotation.

### OUTSTANDING FEATURES

- 12-inch, heavy non-magnetic table for speed stability
- Variable speed control ( $\pm 3\%$ )
- Idler wheel and belt drive isolates motor vibration
- STOP position disengages idler wheel
- Shock mounts
- Strobe disc included to check speed
- Self-lubricating bushings on all main drive parts
- FULL ONE YEAR WARRANTY
- Operates on 110 volts, 60 cycles AC

DIMENSIONS: At extremes 15" x 12".

### ACCESSORIES FOR TD-111

- WB-111 . . . . . Wooden base (walnut, ebony or mahogany)
- MB-111 . . . . . Mounting board (unfinished)

# The Marvel of 'Septra Spectrum' Sound!

Original...  
Professional

# Ortofon

## STEREO CARTRIDGE AND TONE ARMS

### WORLD RENOWNED DANISH DESIGN AND CRAFTSMANSHIP

To engineers of major recording companies, both here and abroad, "Ortofon of Denmark" is a name synonymous with highest quality. And, to audiophiles in other parts of the world, it is the name associated with the ultimate in cartridges, tone arms, recording and broadcast equipment.

Ortofon was founded in 1956 to take over a flourishing disc-recording-equipment business from Fonofilm Industries—a staff-owned, pioneering, sound-film company, the originator and holder of many basic patents in the field, with a history going back to 1918. Both companies today are still exclusively owned by the original staff of Fonofilm Industries.

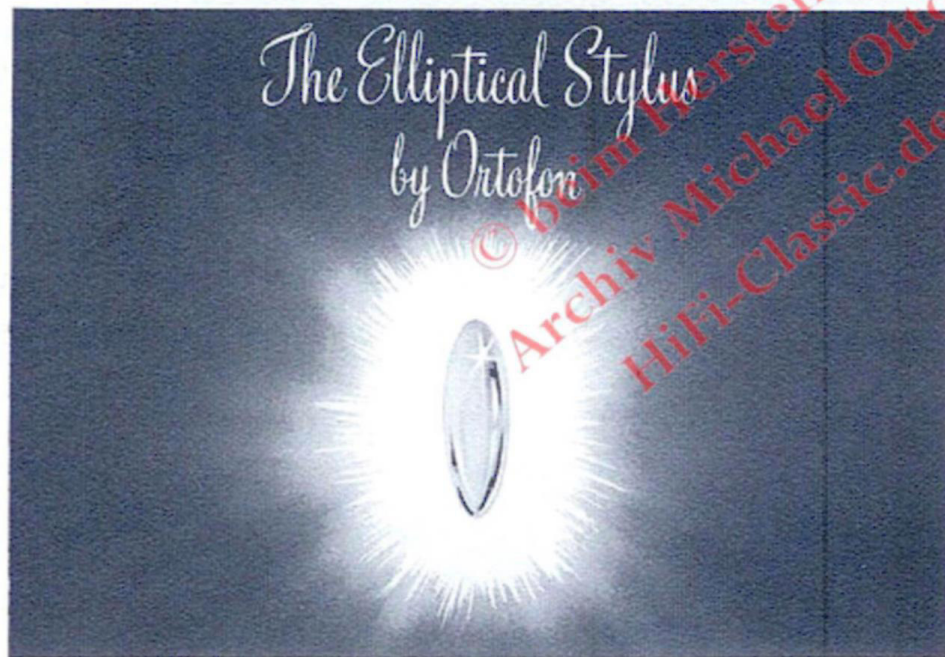
Ortofon's principal business was, and is, the manufacture of professional studio recording equipment—cutting equipment, amplifiers, dynamic compressors, monitor loudspeakers, special studio pickup heads, and (last, but certainly not least!) complete

matrix-making plants.

The first predecessor of today's Ortofon cartridges and arms was, typically, developed through experimentation with delicate record matrices—the need to preserve them, to reproduce them with the utmost clarity and fidelity. The resulting Ortofon playback equipment was far in advance of anything available at the time. It established for Ortofon a position of leadership which continuous research and constant improvement maintain and which has yet to be equaled.

Ortofon cartridges and arms—though now available for the home music system—continue to be thoroughly professional in every sense of the word, continue to derive immeasurable benefit from their intimate association with the recording industry. See, hear, compare today's superlative Ortofon equipment at your franchised dealer. You'll agree with professional engineers everywhere that ORTOFON belongs at the head of your record system.

## SPE/GT and SPE/T ELLIPTICAL STYLUS



**It opens a new era in *sound REcreation*.\*  
We guarantee, you have never heard  
music so faithfully reproduced!**

From the very beginning of high fidelity, cartridge manufacturers have sought to eliminate the three major sources of sound distortion — "pinch effect", "inner groove distortion", and "bottoming".

It was an accepted theory that since the cutting stylus is triangular in shape, an *elliptical-shaped* play-back stylus would more faithfully

follow the configurations of the record groove and greatly reduce the undesirable effects.

### TESTING THE THEORY

Until now, only hand-made laboratory models of elliptical styli were available to demonstrate the merits of this theory. Tests proved without a doubt that the elliptical

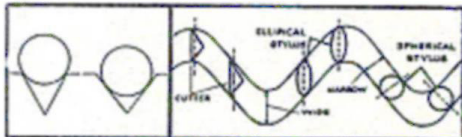
stylus reproduced the recorded information with much greater fidelity than the conventional spherical stylus. It also dramatically reduced the phase distortion factor in stereo applications.

### FINALLY — A SOLUTION

Even with this laboratory proof of superiority, there remained the problem of mass-production of an elliptical stylus, so that it could be marketed economically. This was an overwhelmingly difficult technical task. It remained for Ortofon, the world leader in record cutter and playback equipment, to accomplish this feat. The result is a stylus so far advanced that it adds a new dimension to *sound REcreation*\* in addition to being the most copied technique in the field.

### ELIMINATING "PINCH EFFECT"

"Pinch effect" occurs when the cutter, moving from side to side, leaves a groove of varying width in the record. Normally, this forces the playback stylus upward at the narrower portion of the groove. This undesirable motion results in a "second harmonic distortion".



Since the elliptical stylus has the same basic shape as the cutter, it traces the actual path made by the cutter. The playback stylus maintains the same tangential contact with the groove walls that the cutter did while cutting the groove. This is impossible with a spherical stylus, since its tangential angle of contact with the record groove varies.

**MODEL SPE/GT** — Mounted for all Ortofon tone arms.

**MODEL SPE/T** — Unmounted for use in all other tone arms.

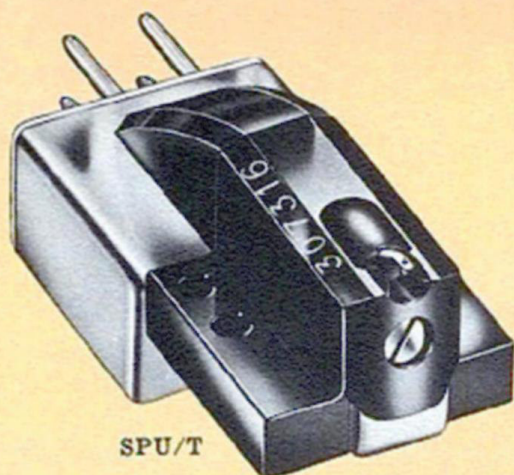
Further detailed explanations of the "pinch effect", plus descriptions of "inner groove distortion" and "bottoming" are included in a booklet available without charge from Elpa Marketing Industries, Inc., New Hyde Park, N. Y.

### SPECIFICATIONS

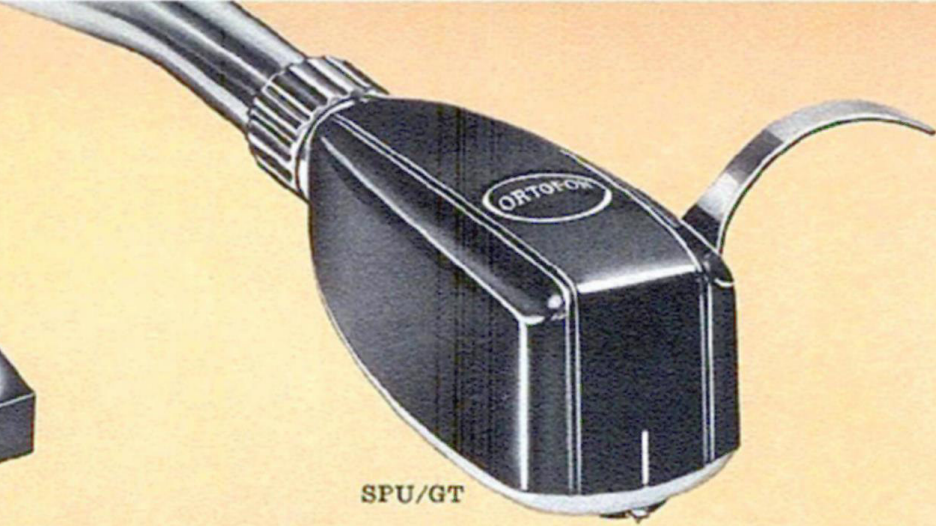
Frequency Response . . . 20 to 30,000 cps, plus or minus 2 db to 22,000  
"Septra Spectrum" Channel Separation . . . 20 to 25 db (over entire audible range)  
Impedance (load) . . . 50,000 ohms  
Output per channel (at 1 KC/cm) . . . 7 Millivolts  
Compliance . . . 10 x 10<sup>-6</sup> cm/Dyne

Equivalent Mass (at stylus point) . . . 1 milligram  
Directional Force (at stylus point) . . . 10 milligrams/micron  
Stylus Pressure . . . 1 to 2 grams recommended  
Terminals . . . 4 pin  
Nominal Transformer Output Impedance . . . 15 K ohms

\* *sound REcreation* — A Mark of Elpa Marketing Industries, Inc.



SPU/T



SPU/GT

## Ortofon SPU/T and SPU/GT PROFESSIONAL STEREO CARTRIDGES

Ortofon stereo cartridges are unquestionably the finest available... made with a meticulous craftsmanship that is immediately recognizable both in sight and sound. High compliance and low inertia of the Ortofon stylus give virtually undistorted reproduction with very small required tracking force—even at extreme frequencies. The electromagnetic elements, specially wound with extra pure copper wire, to reduce inertia and directional forces to a minimum. A special thin, light-alloy stylus arm insures highest compliance in both planes. For the stylus itself, Ortofon employs "prime diamonds" that, under normal use, will last indefinitely and most certainly minimize record wear. Model SPU/GT (with integral shell) fits only Ortofon, SME, or with adaptation certain ESL arms. Model SPU/T is a universal model, adaptable to all standard non-integrated stereo arms. The two models are otherwise completely identical.

### COMPARATIVE TESTS PROVE ORTOFON SUPERIOR IN EVERY WAY!

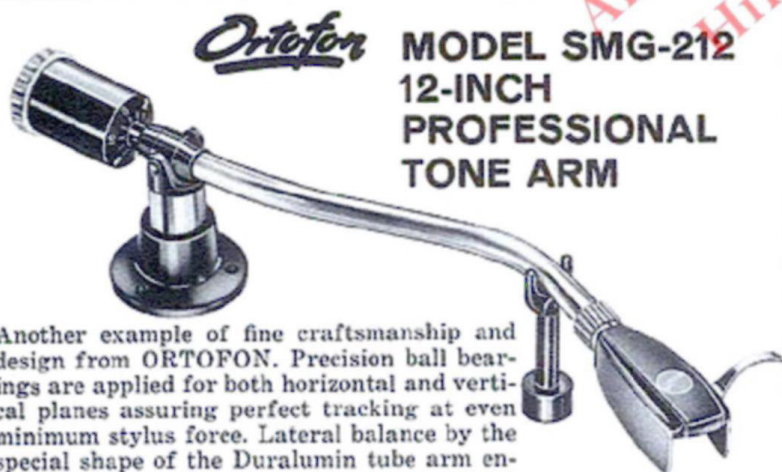
Model SPU is superior in every comparative test made with competitive cartridges regardless of their "specifica-

tions". Three of the most expensive models available were used in the Comparative Tests shown below. See the difference for yourself! All tests were made under identical conditions, using the same program source frequency record: OR 1004<sup>a</sup> with speed of 3.15cm/sec. single channel.

<sup>a</sup>Used because standard U. S. recordings frequency response is limited to only 15,000 cps.

### SPECIFICATIONS

Frequency Response	..... 20 to 20,000 cycles
'Supra Spectrum' Channel Separation	..... 20 to 25 db
Impedance (load)	..... 50,000 ohms
Output per channel (at 1KC/cm)	..... .7 millivolts
Compliance	..... $10 \times 10^{-4}$ cm/dyne
Equivalent Mass (at stylus point)	..... 1 milligram
Directional Force (at stylus point)	..... 10 milligrams/micron
Stylus Pressure	..... 1 to 2 grams recommended
Terminals	..... 4 pin
Stylus Radius	..... .7 mil



**Ortofon** MODEL SMG-212  
12-INCH  
PROFESSIONAL  
TONE ARM

Another example of fine craftsmanship and design from ORTOFON. Precision ball bearings are applied for both horizontal and vertical planes assuring perfect tracking at even minimum stylus force. Lateral balance by the special shape of the Duralumin tube arm enables perfect record tracking even up to 30° out of level. Resonance of the arm is minimized to a sub-audible 8 cycles and the counter-weight is calibrated in grams from 0 to 10. The plug-in shell of the SMG-212 accepts any cartridge and is adjustable for cartridge overhang.

### SPECIFICATIONS

Arm Length (overall)	..... 12 inches
Lateral Length	..... 9½ inches
Cartridge Offset Angle	..... 22.7°
Tracking Error (maximum)	..... 1.19°
Tracking Force (adjustable)	..... 0 to 10 grams
Arm Resonance	..... 8 cycles

**GUARANTEED FOR ONE FULL YEAR**



**Ortofon** MODEL SKG-212  
12-INCH  
PROFESSIONAL  
TONE ARM

An excellent arm that is moderately priced, yet retains all the necessary and wanted features of more expensive units. The vertical pivots use small diameter sliding bearings and the lateral pivots use precision ball bearings. The arm is balanced vertically by means of a counter-weight whose scale is calibrated in grams. The counter-weight is separated from the Duralumin arm tube by a special plastic which reduces arm resonance to 10 cycles. The plug-in shell of the SKG-212 accepts any cartridge and is adjustable for cartridge overhang.

### SPECIFICATIONS

Arm Length (overall)	..... 12 inches
Lateral Length	..... 9½ inches
Cartridge Offset Angle	..... 22.7°
Tracking Error (maximum)	..... 1.19°
Tracking Force (adjustable)	..... 0 to 10 grams
Arm Resonance	..... 10 cycles

**GUARANTEED FOR ONE FULL YEAR**

## Ortofon MODEL RMG-212 12-INCH PROFESSIONAL TONE ARM



The ORTOFON RMG-212 is designed for use where highest quality playback is required. The counter-weight, precision ball bearing gimbal suspension, and base are made of special Swedish alloys with gun barrel blue finish. The arm tube is made of Duralumin and is separated from the counter-weight by special rubber damping to eliminate resonances. The counter-weight includes a factory set adjustable scaled stylus pressure gauge, accurately measured from 0 to 7 grams. The arm features a double bend which provides dynamic balance simultaneously in lateral as well as vertical planes thus eliminating the need for a level turntable. The unique tone arm design reduces arm resonances to a non-audible 8 cycles and provides for a maximum tracking error of only 1.19°. The RMG-212 accepts any cartridge and is adjustable for cartridge overhang. Complete with plug-in shielded cables for ease of installation and elimination of "ground loops" and hum.

### SPECIFICATIONS

Arm Length (overall)	12 inches
Lateral Length	9½ inches
Cartridge Offset Angle	22.7°
Tracking Error (maximum)	1.19°
Tracking Force (adjustable)	0 to 7 grams
Arm Resonance	8 cycles

GUARANTEED FOR ONE FULL YEAR

**MODEL RMG-212T** Same as above with pre-drilled tone arm mounting board for THORENS TURNTABLE Models TD-124 and TD-121

*The Ultimate  
in  
Tone Arms*

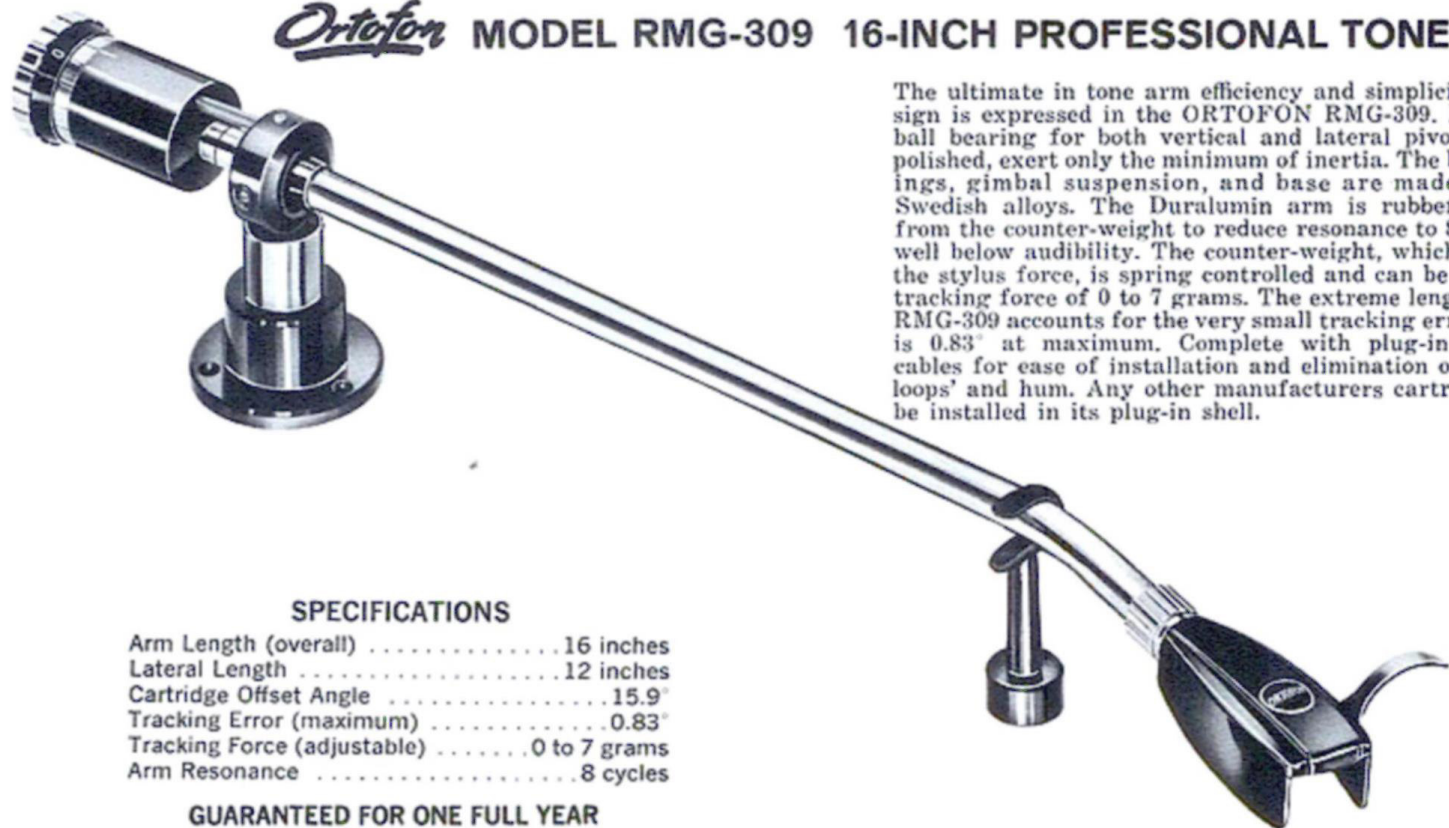
### PRECISION CRAFTED FOR PRECISION USE



Stylus Pressure Adjustment with the RMG-212 and RMG-309.

After cartridge has been inserted in arm, the knurled ring (A) is rotated to zero, as indicated on scale (B). Arm at this position is vertically balanced. The knurled ring is rotated to the desired stylus pressure relative to scale (B) which denotes grams.

## Ortofon MODEL RMG-309 16-INCH PROFESSIONAL TONE ARM



The ultimate in tone arm efficiency and simplicity of design is expressed in the ORTOFON RMG-309. Precision ball bearing for both vertical and lateral pivots, finely polished, exert only the minimum of inertia. The ball bearings, gimbal suspension, and base are made of fine Swedish alloys. The Duralumin arm is rubber damped from the counter-weight to reduce resonance to 8 cycles—well below audibility. The counter-weight, which controls the stylus force, is spring controlled and can be set for a tracking force of 0 to 7 grams. The extreme length of the RMG-309 accounts for the very small tracking error which is 0.83° at maximum. Complete with plug-in shielded cables for ease of installation and elimination of 'ground loops' and hum. Any other manufacturers cartridge may be installed in its plug-in shell.

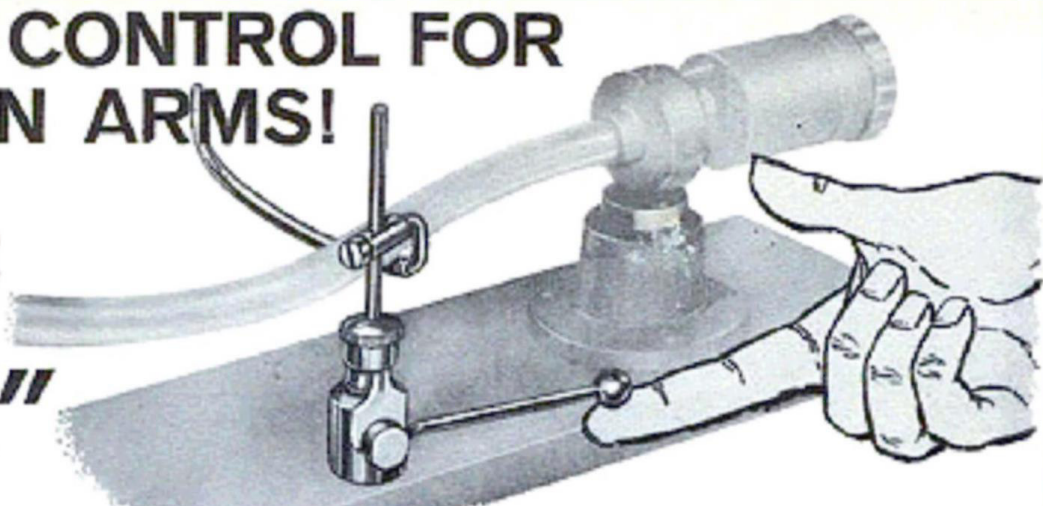
### SPECIFICATIONS

Arm Length (overall)	16 inches
Lateral Length	12 inches
Cartridge Offset Angle	15.9°
Tracking Error (maximum)	0.83°
Tracking Force (adjustable)	0 to 7 grams
Arm Resonance	8 cycles

GUARANTEED FOR ONE FULL YEAR

# NOW REMOTE CONTROL FOR TRANSCRIPTION ARMS!

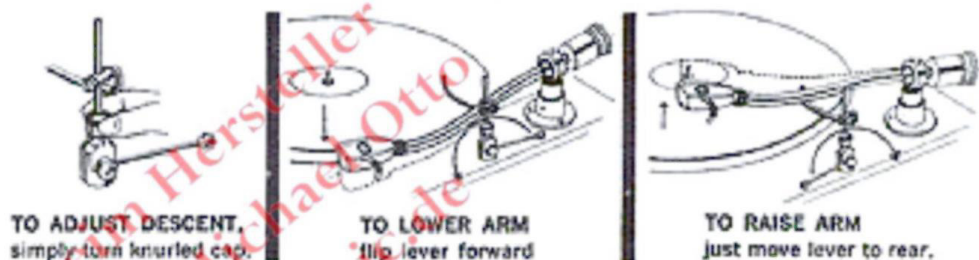
## THE *Ortofon* "HI-JACK"



The Ortofon HI-JACK permits remote raising, safe cueing and lowering of stylus to record with manual tone arms.

The stylus gently floats down to the playing surface pneumatically, to protect both record grooves and stylus. With a HI-JACK even the most "heavy-handed" can use the most delicate cartridges. Records last longer, and sound better — they'll never develop the noisy nicks and scratches that can result from improper handling of the tone arm.

HI-JACK is easily installed on any turntable and, on Thorens TD-124 and TD-121 turntables, no drilling is required.



TO ADJUST DESCENT, simply turn knurled cap.

TO LOWER ARM flip lever forward

TO RAISE ARM just move lever to rear.

### Ask for these Accessories to Increase Your Listening Pleasure!



**THORENS LUBE KIT**... the specially selected, specially prepared lubricants recommended for all THORENS turntables.  
Kit LK-1



**THORENS SPRING SHOCK MOUNTS**... exact replacement for mounting Thorens units (state model). Highest quality. Includes 4 tapered springs and 4 spacers.



**THORENS GROMMETS** offers 5 times the resiliency over those previously available... set of 4 replacement rubber damping grommets for turntable suspensions. Special construction gives exact resiliency required. (Specify your Thorens model.)



**THORENS TURNTABLE BELT**... fits all Thorens TD Series turntables. Long lasting, highest quality.



**THORENS STROBE DISC**  
This durable, all-metal strobe disc lies perfectly flat on your turntable to give an accurate speed check at 78, 45, and 33 1/3 rpm. May be viewed under either 50 or 60 cycle light sources.



**THORENS 45 RPM SPINDLE**... a quality "slip-on" spindle adaptor that lets you play 45 RPM records on "small spindle" manual turntables.

PRINTED IN U.S.A.

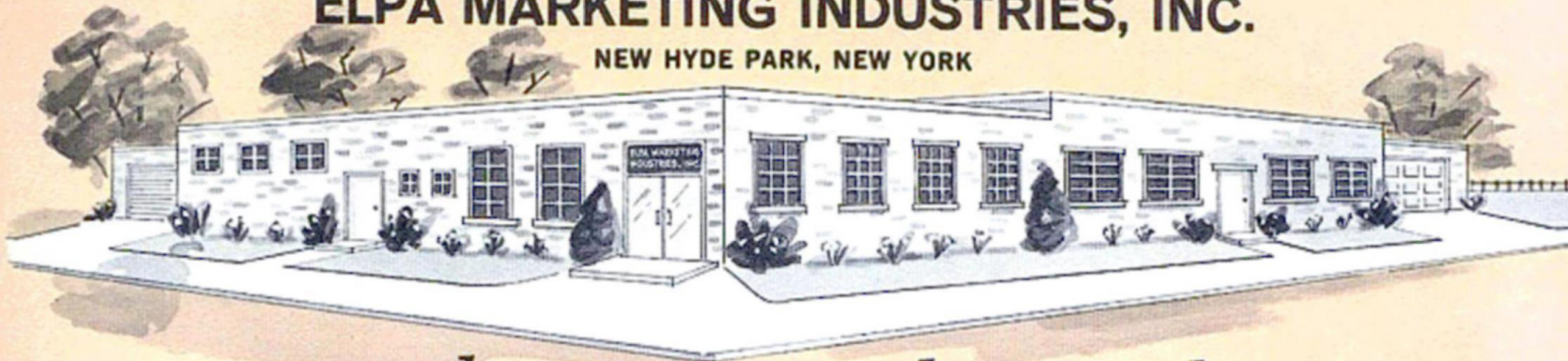
ELPA MARKETING INDUSTRIES, INC.



NEW HYDE PARK, NEW YORK

# ELPA MARKETING INDUSTRIES, INC.

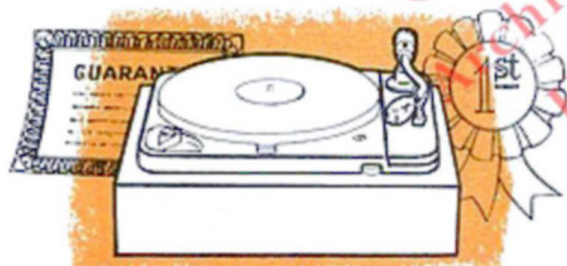
NEW HYDE PARK, NEW YORK



...who we are...what we do

**HISTORY** — ELPA Marketing Industries, Inc., is an importing and distributing organization, formed to coordinate the functions of THORENS COMPANY (U.S.) and meet new needs which arose due to a changing market, new products, and expanded distribution. The market situation required a new, efficient organization, dedicated to customer service, yet maintaining the THORENS tradition. ELPA is already meeting and surpassing these objectives. We'd like to tell you a little of our basic policies and thinking, so that you can understand what's behind the products you purchase.

**QUALITY** — ELPA adheres to the policy of obtaining *only* the finest possible hi-fi products for distribution—components that do the job in the very best manner known. Our interpretation of quality is simple and strict: *Excellence and Superiority*.



ELPA will not consider a product for distribution unless it meets this conception of quality at each price level.

**MARKETING KNOW-HOW** — We are always striving to improve our marketing methods. You, our customer, will benefit in better, more efficient distribution, servicing and general back-up of the products you buy. We will continue to pass along to you the benefits due to efficient operation.

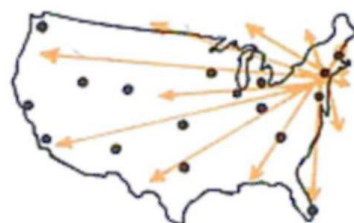
**DESIGN & MARKET RESEARCH** — Though a distributor, ELPA is vitally concerned with design. Products we place on the market must fit consumer needs—if not, we send them back for redesign. We don't rely on our own opinions, but take new products into the field for surveys. Sometimes this



delays the introduction of a new product (one took five years!), but, when we *do* introduce it, it is *right* for you.

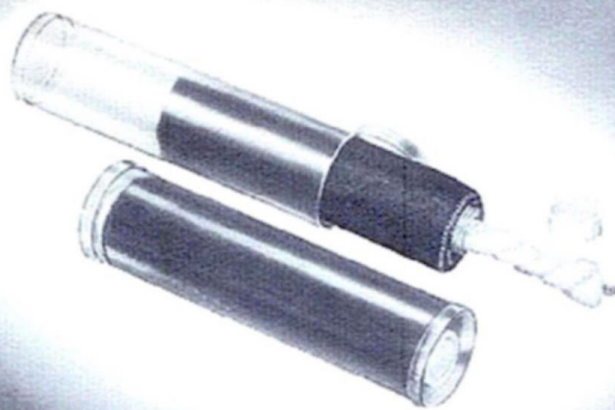
**SERVICING** — Because of our quality standards, servicing has never been a major problem, and we intend to keep it that way. But we recognize that, with age and use, our products will eventually require service. For this, we have set up a system of authorized service stations throughout the U.S. and back them up with a master service station in New Hyde Park, New York... additional service stations located throughout the world. Though a distributor, ELPA carries a more complete inventory of spare parts than most *manufacturers* because we must allow for a longer delivery time.

**DEALER DISTRIBUTION** — For most of our products, our basic bridge between you, the consumer, and us is the *selected franchised dealer*. Note the word "selected." To qualify for our franchise,



a hi-fi dealer must not only meet high standards as a store, but must be able and willing to give you the best possible technical guidance, information, and assistance. You'll find it's easier, more pleasant to buy at ELPA franchised dealers, and you'll have the least delay, fewest headaches and better service. See your ELPA dealer today!

*A Fresh Approach for Maintenance of New Records*



## THE NEW! PREENER

FOR A DUST-FREE RECORD COLLECTION . . . the new PARASTATIK DISC PREENER provides the perfect solution for keeping new records new. This handy record cleaning component protects the mirror-like finish of a fresh pressing, leaving no trace of film or residue to clog the stylus of sensitive cartridges. As the disc rotates on the turntable, the specially designed plush pile of the

new PARASTATIK DISC PREENER penetrates each groove, removing all dust and grit. Static is removed in seconds, with a few turns of the record . . . (cleans entire record so quickly it can be used between record changer cycles). A built-in non-ionic compound in the PREENER builds up an immunity to static by continued use.



1. Activate the wick in clean water for a few seconds . . . once, every 1 or 2 weeks.

### SIMPLE TO USE



2. Hold Preener on record, gently rolling it upward while record is turning to prevent picked up dirt from being brushed back into the grooves.



3. Briskly brush finger against the nylon plush pile to remove accumulated dust and dirt from preener . . . and replace into its container.

CECIL E. WATTS Ltd  
MADE IN ENGLAND

Restores Fidelity in your older records.. Preens your new ones! Make your records "Static-Free" with

## the PARASTAT

Removes dust, grit and residue deep within the record groove. After years of experience in the manufacture of equipment for the cleaning and maintenance of record surfaces, Mr. Watts has perfected the PARASTAT to bring old records "back to life", as well as maintain new records like new.

The dual function of the Parastat as a Preener when tilted on either side for maintenance of new records, and a cleaner for older records when held upright so that the nylon bristles can penetrate the record grooves, to remove accumulated dirt and residue — actually restores fidelity which was hidden by dirt and residue. Brush made of pure nylon bristle with .00025" radius.

### 3 Steps to Cleaner Reproduction of older Records



1. A minute smear of PARASTATIK supplied with the PARASTAT prepares the cover applicator



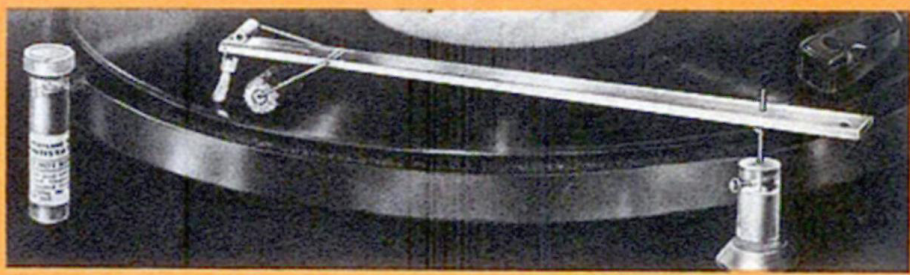
2. A to and fro' sliding motion of the cover against the cleaning surface activates bristle tips.



3. Rotate PARASTAT on record against movement of turntable to remove imbedded dust and dirt and apply anti-static agent.



# the Original TURNTABLE DUST BUG



Attaches to any turntable in seconds.



Removes Static and Dust...  
as the Record Plays

The Watts DUST BUG fits standard and custom turntables without drilling holes or fastening screws. A suction cup mount firmly holds the cleaning arm in position to track ahead of the stylus.

Carefully designed and pre-balanced for a minimum additional tracking force, the DUST BUG does not interfere with either turntable or tone arm operation. And as an additional feature, a universal height adjustment screw places the balanced cleaning

arm parallel to the record surface for maximum efficiency. Two pivot positions for 12" or 16" diameter records simplify use with any turntable installation.

**EASY TO USE**, a trace of antistatic agent supplied with the DUST BUG kit is applied occasionally to the plush pile cleaning head. As the DUST BUG tracks over the grooves, a leakage path for static loosens all dust and microscopic dirt as the plush pile head cleans a path ahead of the stylus.

## DUST BUG BRUSHES

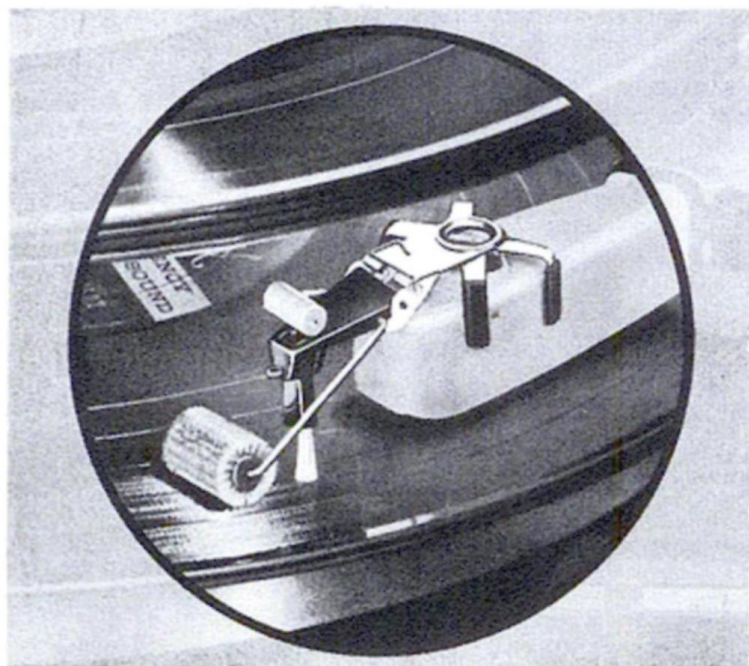
Genuine Cecil E. Watts plush roller and nylon brush for replacement of roller and brush on Original DUST BUG and Changer DUST BUG shown on this page. Easy and quick to install. Long lasting – and may be washed between replacements.

© bein...  
Archiv Mich...  
HiFi-Classic.de

CECIL E. WATTS Ltd.  
MADE IN ENGLAND

## The NEW CHANGER DUST BUG

- Cleans while you play
- Brings to changers the original Dust Bug method of cleaning



Now record changers can have the same clean-while-you-play action that the original DUST BUG made famous for transcription turntables.

The new changer DUST BUG gets rid of tiny microscopic particles of dust and dirt that settle on records during playing, handling, and even during manufacture and storage of the record on your shelves.

The changer DUST BUG is exceptionally easy to install – simply clips on changer arm, no drilling, no screws required. A spring automatically compensates for the added weight of the DUST BUG at 2 grams or more stylus pressure.

The nylon bristles of the brush dislodge dirt before it reaches the stylus. The plus plush roller collects dirt and dust and counteracts static. Easy to use – just occasionally apply a trace of the antistatic fluid, furnished with the DUST BUG, to roller.



**ADJUSTABLE CLIPS**  
Clips to changer arm, no screws, no drilling required.



**NYLON BRISTLES**  
**PLUSH PAD**

... a unique blend of Swiss craftsmanship and modern industrial methods


# THORENS

*Sainte Croix, Switzerland*

In a little over 75 years, THORENS of Switzerland has become a leader in such diversified fields as music boxes, cigarette lighters, phonographs, precision high-fidelity components, and many others of world-wide distribution.

Founded in 1883, to manufacture music boxes, THORENS has constantly experimented in all phases of sound reproduction. THORENS entered the phonograph field in 1887, shortly after its invention. In 1925, THORENS was among the first to make an electrified phonograph. THORENS pioneered in high-fidelity with its CD-40 and, again in 1949, with the CD-43 Record Changers. When stereo arrived, THORENS was ready with the now-famous TD-124 Turntable. Basically unchanged today, the TD-124 is a laboratory standard for much testing and experimental work, is widely used for FM stereo broadcasting—and is the heart of thousands of the finest home music systems.

Development still goes on, and new products are now under test—for release *only* after they're as good as THORENS can make them. THORENS owners can well be proud of their equipment. For, the THORENS tradition and future objectives can all be summed up in one phrase: "Finest Quality."



Look underneath  
**THORENS**  
and you will see...

a brilliantly integrated mechanism that moves flawlessly, silently... the heart of your record playing system. Every part is hand machined... polished to microscopic tolerances.... No machine stamped or cast mechanism can approach the quality standard of THORENS... world-renowned as an example of Swiss precision and craftsmanship.

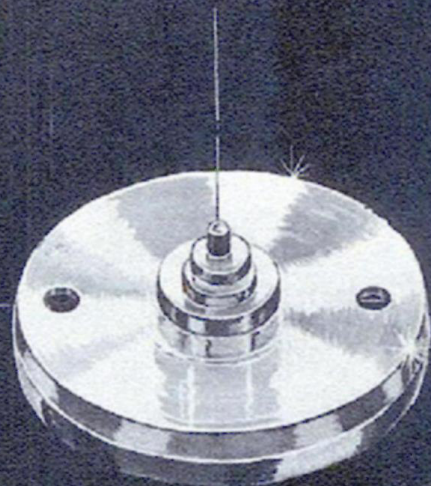
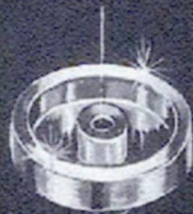
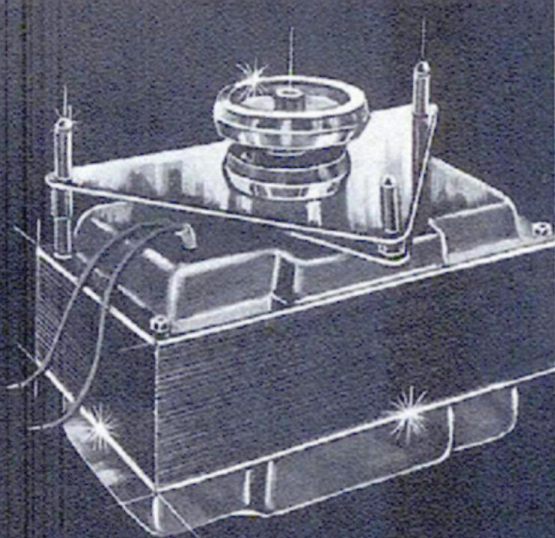
All THORENS turntables in this catalog incorporate this craftsmanship. All—from the world-famous TD-124 to the TD-111—feature superior, identical idler-wheel and belt-drive systems, variable speed controls, heavily weighted table, and self-lubricating bearings.

Before you buy, *compare* the underside of THORENS turntables with any others. You'll accept nothing less than a THORENS—you can afford the finest!

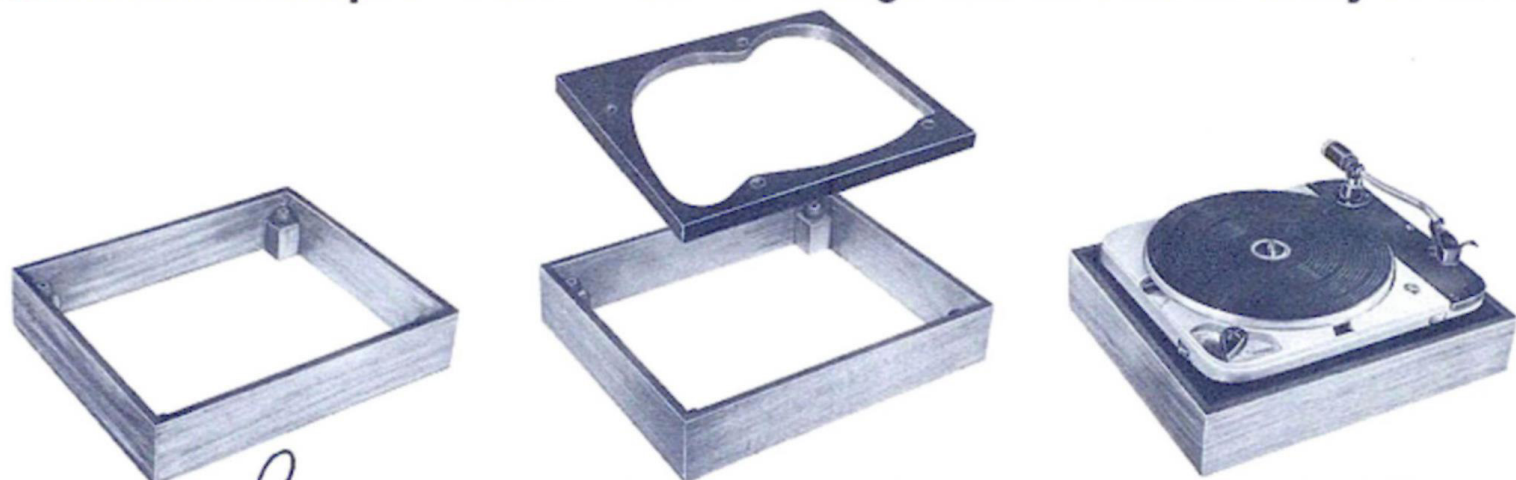
**THORENS**

**ONE YEAR WARRANTY**

All THORENS products are fully warranted for one year from date of purchase against defects in materials and workmanship.



Now! A new concept in bases — new in design and as new as today in decor!



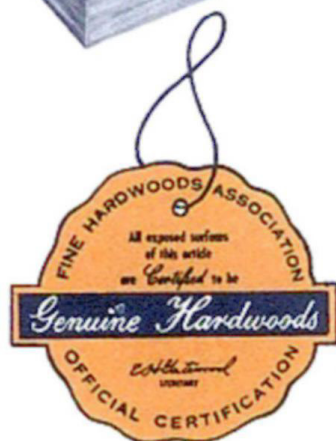
## The THORENS "SW" SERIES

These bases are actually three units in one, whether you purchase the THORENS TD-124, TD-121 or the TD-135. The frame of the bases are identical, all hand-rubbed Walnut. The satin black mounting boards are completely interchangeable.

This new design incorporates new techniques for the isolation of extraneous shocks and vibrations.

Soft rubber damping grommets isolate the mounting board from the base frame. These in addition to the grommets provided with your THORENS Turntable provide double isolation PLUS the facility to further increase isolation in critical installations by inserting separately available additional grommets as feet to the bottom of the base.

These new grommets offer five (5) times the resiliency over those formerly employed.



Look for this tag! Every new THORENS "SW" series base carries this genuine hardwood tag — certified by the "Fine Hardwoods Association".

WB-124/121 SW . . . Satin Walnut Base for TD-124 & TD-121

WB-135/SW . . . Satin Walnut base for TD-135

OVERALL DIMENSIONS: 17" wide x 14" deep x 3½" high

## Combination Examples of Outstanding ELPA Playback Equipment

### "The Prelude"

The combination of the Thorens TD-111 turntable, WB-111 base and the Ortofon SKG-212 tone arm gives top quality performance at a budget price.



### "The Rhapsody"

**THORENS TD-124 TURNTABLE**  
**THORENS WB-309 BASE**  
**ORTOFON RMG-309 TONE ARM**  
**ORTOFON SPU/GT CARTRIDGE**

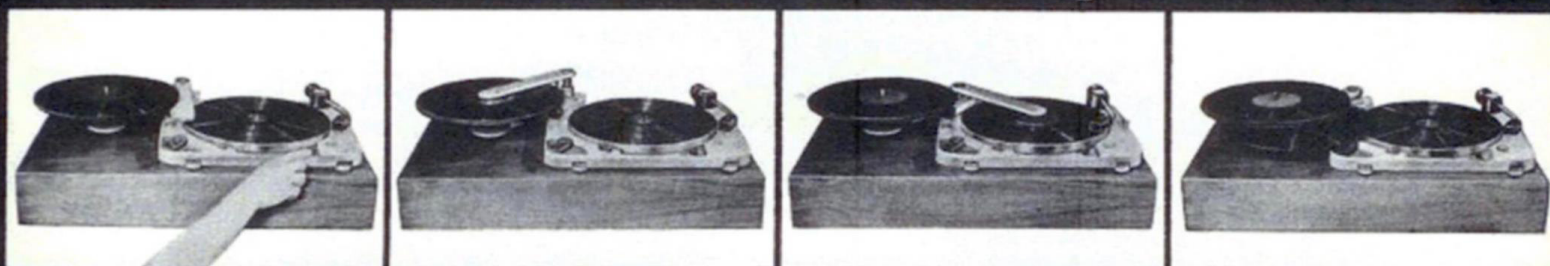
The Ultimate in Record Reproduction... This combination meets the most exacting demands of every hi-fi and professional enthusiast.

The WB-309 base will accommodate the Thorens TD-124 or the TD-121 turntable and permit, for the first time, a 16" tone arm to be an integral part of the turntable.



# NEW! THE THORENS

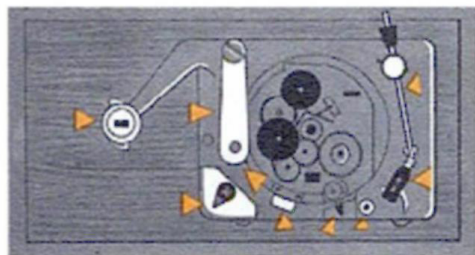
## TD-224 *"Masterpiece"*



**WORLD'S FIRST  
TURNTABLE AND AUTOMATIC RECORD CHANGER**

The most advanced precision instrument  
ever developed for the automatic reproduction of  
all recorded music in the home.

Here is the ultimate in high fidelity quality and convenience — a fine 2-in-1 Swiss instrument that combines all the benefits of a professional turntable with all the conveniences of an automatic record changer. More than five years in development, the TD-224 meets and exceeds the standards of the most ardent and discriminating perfectionist.



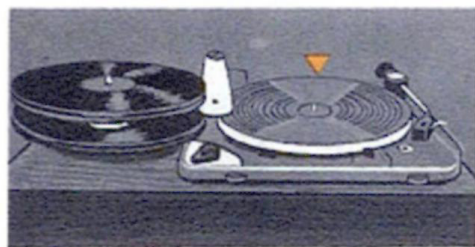
### HOW IT WORKS

Imagine a firm, sure, yet gentle hand removing an individual record from a stack, placing it carefully on a turntable, waiting until the record is played, lifting it gently and placing it on a lower stack, moving to the upper stack of unplayed records, and repeating the process infallibly — *all automatically*. There you have the principle behind the unique Thorens *Masterpiece*. It is a turntable that plays records individually, as records should be played, yet changes them automatically, with precision, grace and beauty.

The Thorens TD-224 Turntable and Record Changer overcomes the problems of today's "automatic turntables" and record changers, which must sacrifice quality and create record wear in favor of convenience. Now, for the first time, no compromise has been made in design and performance. This is an instrument of perfection, a true masterpiece, created by brilliant Swiss engineers who are music lovers as well.

### QUALITY WITH CONVENIENCE

Here are only a few of the benefits that are built into the Thorens TD-224:



### NO RECORD STACK ON TURNTABLE

The Thorens TD-224 eliminates the problems created by stacking of records on the moving turntable. *No distortion, no straining, no wavering*. The record stacking is completely separate from the turntable. No other changer offers this benefit.

### CARTRIDGE QUALITY

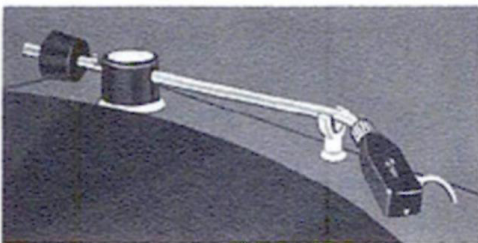
This is the only record changer which can properly utilize the finest professional cartridges with highest lateral and vertical compliances. Because of its features, Thorens engineers recommend that the finest quality cartridges be used, for maximum re-creation of music.

### SINGLE PLAY OF RECORDS

The TD-224 plays records as every professional turntable does, *individually*. You can hear the difference this makes in your enjoyment.

### CONSTANT STYLUS ANGLE

The angle of the stylus is constant because the tone arm is in a set position, perpendicular to the record surface. Vertical tracking error is as minimal as on professional turntables. The TD-224 is the only present day changer that can make this statement.

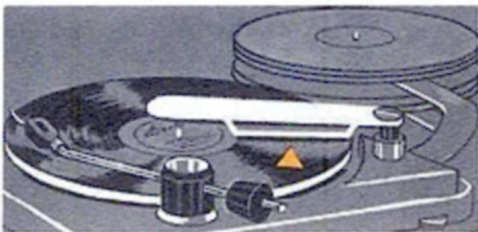


### FAMOUS BTD-12S TONE ARM

The TD-224 incorporates the famous Thorens BTD-12S Tone Arm, a classic of Thorens-Swiss craftsmanship. No other arm offers so many unique benefits: Lowest possible inertia assures accurate tracking even on warped records, minimizes record wear and stylus wear; Precision ball bearings on *all* axes; All adjustments: precision-calibrated gram-force, stylus positioning slide, balancing counter-weight. Unique vertical pivot keeps stylus vertical at all times, automatically, not by usual critical adjustments. Plug-in shielded cable connector and a complete 5-wire system throughout gives maximum shield from hum. Resonance well below audible frequencies. Less than 0.5°/inch tracking error. Quick-change plug-in shell for all standard and ultra compliance cartridges. No wonder Thorens engineers decided that no other tone arm would do for the TD-224 *Masterpiece*.

### CONSTANT TORQUE

The torque on the motor is constant, since there never is more than one record on the turntable at a time. The result is true fidelity from every record you play.



### BUILT-IN RECORD CLEANER

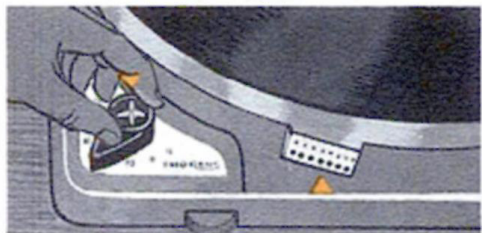
With the use of present day advanced light-weight tone arms and pick-up cartridges, old-fashioned methods of cleaning records have become obsolete. Thorens had to invent a new way to help you keep your records clean. They incorporated the Cecil E. Watts principles in the TD-224 tone arm brush. A patented *continuous* record cleaning device is mounted on the record feed-in arm, and cleans the records during play, without interfering in any way with the tone arm. Static charges due to dust are thereby eliminated.

### ILLUMINATED STROBOSCOPE

Made famous by the Thorens TD-124, one of the most remarkable of all the features of the TD-224 is the built-in stroboscope, illuminated and visible throughout the entire playing cycle. The stroboscope permits control and adjustment of the turntable speed even while the record is being played.

### EXCLUSIVE PITCH CONTROL

The variable speed control allows you to correct even extremely small differences of speed with slight touch of an adjusting knob, thereby providing true re-creation of music even to the most critical ear. A musician, in fact, can get precisely "on pitch" with any instrument he wishes to play. The strobe, moreover, reveals visually what may be undetectable to the ear. For example, a



1% variation in speed changes the pitch only 1/6 of a semitone. The strobe, however, indicates even this slight variation, and enables you to maintain the speed at a rate constant to the highest accuracy of 0.1% by adjusting the fine speed knob.

### MANUAL PERFORMANCE

For transcription turntable performance, the TD-224 can be played manually as well as automatically with the changer.

### MANY OTHER FINE FEATURES

- 4-Speed operation, with variable speed adjustment control.
- Plays automatically up to eight records (3/4 inch stack).
- Intermixes records of any diameter between 7" and 12" provided speed, groove-shape and center hole diameter are alike.
- Automatically shuts off when all records have been played. World famous Thorens drive system and motor, made famous by the Thorens TD-124.
- Level indicator aids in perfect levelling.
- OFF position disengages idler wheel automatically to prevent idler flats.
- Far exceeds NAB specifications for rumble, wow and flutter for transcription turntables.
- Operates at any voltage from 100/250 volts, 50/60 cycles AC.
- FULL ONE-YEAR WARRANTY.

### DIMENSIONS:

Wooden Base measures 27" wide, 14 1/2" deep, 3 1/2" high.

Overall requirements use 26" wide x 13" deep x 15 1/2" for clearance of record. Area above base plate: 5 1/2" h.

WB-224 — All Walnut base for TD-224.

Also available with pre-mounted Ortofon Cartridge.