

Know when to restring

All string materials start losing tension after the racquet is strung through repeated impacts and through aging even if it has not been used

Restring the racquet when the DT-value has decreased by 10% to maximum 20%

Never play tennis when the DT-value below 28 !
(Low ball control, risk of tennis elbow and back problems)

Technical data ERT 300 TENNISCOMPUTER

Field of application	Tennis racquets
Dynamic system	Electronic simulation of ball impact
Measuring of the resonance frequency	Converting the string bed stiffness DT
DYNAMIC TENSION DT	20...65 DT (kp/cm; Newton/mm)
Accuracy	+/- 1 kp/cm (+/- 1 digit)
Display	Measurement 4...6 sec., Display 8 sec.
Dimensions	110 x 50 x 25 mm
Weight	50 g
Ambient temperature	5...45° Celsius / 40...115° Fahrenheit
Relative humidity	20%...80% (not waterproof)
Batteries	2 x CR 2032 coin type

Replace batteries when battery sign appears in display.
Caution: Do not loose the tiny screws.
Always use a proper desk top.



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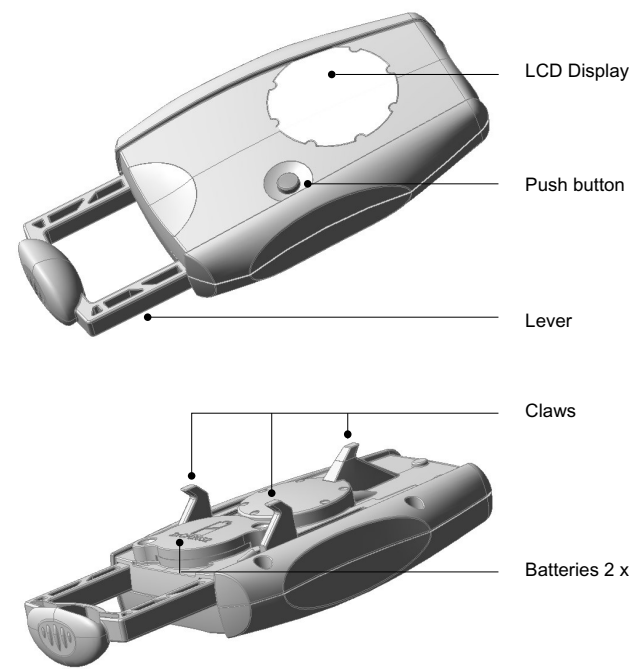
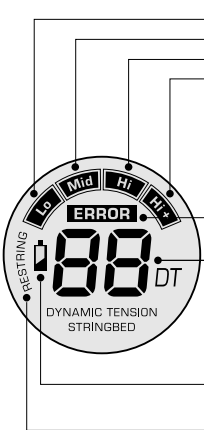
ERT 300

Microprozessor gesteuertes Messgerät zur Bestimmung der Besaitungs- und Spieleigenschaften an jedem Tennisracquet. 1


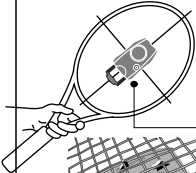
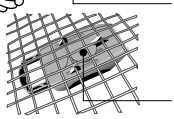
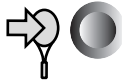

Micro ordinateur destiné à déterminer les caractéristiques de cordage et du jeu pour chaque raquette de tennis. 11

Uno strumento altamente tecnologico per la misurazione della caratteristica d'incordatura delle racchette da tennis. 21

Micro computer for precise determination of strings and playing characteristics of any Tennis Racquet. 31

ERT 300 Tenniscomputer	What information gives the ERT 300												
 <p>LCD Display</p> <p>Push button</p> <p>Lever</p> <p>Claws</p> <p>Batteries 2 x CR 2032</p>	 <p>DT range / Power of play</p> <table border="1"> <tr> <td>Lo</td> <td>DT 28...34</td> <td>Defensive play</td> </tr> <tr> <td>Mid</td> <td>DT 35...41</td> <td>Dynamic, offensive play</td> </tr> <tr> <td>Hi</td> <td>DT 42...46</td> <td>Fast, aggressive play</td> </tr> <tr> <td>Hi+</td> <td>DT 47...54</td> <td>Very fast, extremely aggressive play</td> </tr> </table> <p>ERROR No DT detection Tension to low or incorrect handling Place the device again</p> <p>DYNAMIC TENSION DT (DT-value) DT is the string bed stiffness Higher DT for more control Lower DT for more power (ball speed up)</p> <p>Replace the batteries 2 x CR 2032 coin type</p> <p>Restring the racquet at the latest (Not recommended to play tennis when DT below 28)</p> <p>String tension kp, lbs. To be read out at the DT system disc</p> <p>kp, lbs.</p> <p>DT is the string bed stiffness. The DT-value is the ball force in kilopond (kp) that is needed to deflect the string bed 1 cm at the sweet spot (ball impact). Internat. standard. units: kp/cm or Newton/mm. DT determines the playing characteristics POWER and CONTROL.</p>	Lo	DT 28...34	Defensive play	Mid	DT 35...41	Dynamic, offensive play	Hi	DT 42...46	Fast, aggressive play	Hi+	DT 47...54	Very fast, extremely aggressive play
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32	33												

ENGLISH

How to measure the string bed stiffness	Instructions
 <p>1. Clip the ERT 300 in the center of the string bed 2. Push the button 3. After a few seconds read out the values determining the playing characteristics</p>	 <p>1 Hold the racquet at throat as shown During the measurement hold the racquet steady, do not touch or put down the racquet</p>  <p>2 Clip the ERT 300 in the center of the string bed The 3 claws hold the device parallel to the strings by gentle spring tension (jump one cross string).</p>  <p>3 Push button to start the DT test The ball impact is simulated electronically (gentle vibrations). The exact readings are displayed after 6...8 seconds. (The device switches-off automatically)</p>  <p>DT-range / Power and aggressiveness of play Example: Mid, dynamic and offensive play DYNAMIC TENSION DT Example: 38 DT String tension kp, lbs. To be read out at the DT-disc (page 38)</p> <p>Important: The ERT 300 Tennis computer must be clipped at the center of the string bed. If it is placed outside the center, e.g. towards the top or bottom, the measured value will change. Normally in such a case the stringing appears to be tighter. This corresponds to the reality. We however are interested in the impact zone. Variations can also occur as a result of incorrect or defective stringing. For exact comparative measurements (rechecks) the ERT 300 must always be applied to exactly the same point, count or mark the strings.</p>

