

# Leica TPS2000 Equipment List



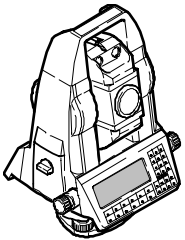
- when it has to be right

**Leica**  
Geosystems

# SYSTEM 2000 Equipment List

## Total stations

### Models and Options



**Angle measurement**  
**Distance measurement (IR)**  
**Motorized**  
**Automatic Target Recognition (ATR)**  
**Guide Light (EGL)**  
**Remote Control RCS1100**

	TCA1800 667016	TCA2003 664662	TC2003 664661
Angle measurement	●	●	●
Distance measurement (IR)	●	●	●
Motorized	●	●	
Automatic Target Recognition (ATR)	●	●	
Guide Light (EGL)	○	○	○
Remote Control RCS1100	○	○	○

● Standard    ○ Optional

## Additional Options

### Guide Light (EGL)



639981 EGL1, electronic guide light, for TPS1000/2000 instruments.

### Producer Certificates



366 358 Producer Certificate O  
 559 655 Producer Inspection Certificate M, angle  
 663 177 Producer Inspection Certificate M, distance with infrared EDM  
 366 359 Producer Inspection Certificate M, angle and distance with infrared EDM

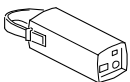
## Power Supply

### Internal Battery



667 147 GEB187, Plug-in battery, NiMH, 12V/1,8Ah, rechargeable.

### External Power



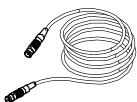
727 367 GEB171, External universal battery, NiMH, 12V/9Ah, rechargeable.  
 749 279 GEV208, Power supply unit for TPS/GPS, for indoor use only. Input 100-240VAC to output 12VDC, with connection for power cables.

### Battery Chargers



733 271 GKL221, Charger PRO. To be used with up to two charging adapters GDI221 or GDI222, Charger cable and net adapter included.  
 733 322 GDI222, Adapter for GKL221 for charging NiMH batteries GEB187, GEB111 and GEB171.  
 734 389 GDC221, Car adapter for the GKL221 charger. Allows the use of the GKL221 with a cigarette lighter; 12V24V DC/DC Converter.  
 636 983 GKL22, Charger 230V, Euro-type plug, charges one GEB187 battery, normal charge 14 hours.  
 639959 GKL22-1, Charger 115V, US version

### Battery Cables



409 678 GEV52 cable, connects TPS or DNA to external battery.  
 439 038 GEV71, Car battery cable 4m, to connect 12V car battery.  
 734 698 GEV187, Y-cable, connects TPS to PC (9-pin RS232 serial) and external battery, 2m.

## Data Storage and Transfer

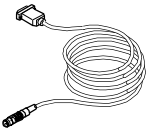
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### Memory Cards



- 639 949 PCMCIA SRAM memory card 2MB (approx. 8,000 data blocks)  
743 119 MCR6, USB Card reader for Flash and SRAM cards.

### Data Transfer Cables



- 734 700 GEV189, Data transfer cable, Lemo to USB connector (incl. USB electronics), 2.0m. Connects TPS/DNA to PC for data transfer. PC driver and user manual included on CD.  
563 625 GEV102, data transfer cable, connects TPS to PC (9-pin RS232 serial), 2m.  
734 698 GEV187, Y-cable, connects TPS to PC (9-pin RS232 serial) and external battery, 2m.

## Application Programs & Software Options

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### Standard Applications

Station Opening  
Target Eccentricity  
Manual Input of Coordinates  
Orientation  
Height Transfer  
Resection  
Stakeout  
Computation of Tie Distance

### Optional Applications

- 663 156 Free Station  
663 196 Area Computation  
663 197 Traverse  
663 198 Reference line  
663 199 Sets of Angles  
663 200 Remote Height  
663 213 Hidden Point  
663 216 Roadline and Stakeout  
663 217 File Editor  
663 267 Local Resection  
663 218 Roadplus  
664 401 Coordinate Geometry Calculations  
664 411 Monitoring

### Application Program packages

- 664 859 TPS1000 Survey Pack, comprising of: Free station, Area, Traverse, Reference line, Sets of Angles, Remote height, Hidden points, Local resection, COGO.  
664 860 TPS1000 Survey and Engineering Pack, comprising of: TPS1000 Survey Pack, Roadplus (incl. File Editor)

### Geobasic compiler

- 663 105 GEOBASIC compiler and keyboard simulator

## Tripods

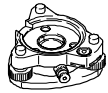
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- 296 632 Tripod GST20, telescopic, with accessories.
- 667 301 Tripod GST120-9, telescopic, selfclosing, with accessories, without pouch.
- 332 200 Tripod-star GST4, for setting up tripods on hard and slippery surfaces.

## Tribrachs

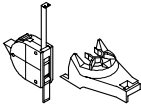
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- 443 603 Tribrach GDF21 PRO, without optical plummet, light green.
- 506 299 Tribrach GDF22 PRO, with optical plummet, light green.

## Instrument Height Meter

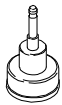
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- 667 718 GHM007 Instrument height meter.
- 722 045 GHT196 Distance holder for height meter.

## Reflector Carriers

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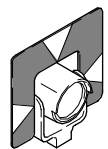


- 560 112 Carrier GRT44 for GPS antenna, EDM reflectors and target plates, light green.
- 360 532 Carrier GZR2, with plate level, without optical plummet, for target plate
- 428 340 Carrier GZR3, with plate level and optical plummet, for Target plate.
- 667 316 SNLL121, Nadir laser plummet, pale green, with user manual.

## Reflectors

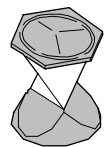
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### Circular Reflectors



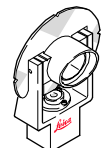
- 555 631 GPH1P Single prism precision reflector
- 641 617 GPR121 PRO Circular prism, with holder and target plate
- 362 830 GPR1 Circular prism, in container
- 362 820 GPH1 Single-prism holder
- 362 823 GZT4 Target plate, for GPH1
- 400 080 GPH3 Three-prism holder
- 726 295 GPR112 Monitoring-Mining prism with thread for direct mounting and 5/8" adapter.
- 726 296 GHT112 Mounting set for GPR112, prism is adjustable in two axes.
- 727 406 GDZ112 Rain shelter for GPR112, protects the prism front against rain drops and dust.

### 360° Reflectors



- 639 985 GRZ4 360° Reflector
- 644 327 GRZ101, 360° Mini prism with pole and level assembly. Prism constant +30mm. Pole of 4 parts with length of 30cm each and with 2 pole tips. Level assembly freely attachable at the pole.
- 742 006 GAD103, Adapter for attaching GRZ101 to all poles.

### Mini Reflectors

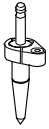


- 641 662 Mini prism GMP101, incl. bubble, target plate and spike, in bag, also suitable for GLS11 and GRT44 (same height as GPH1, additive constant +17.5mm)
- 641 663 Mini prism with target plate GMP102, for GLS11 and GRT44 (same height as GPH1, additive constant 17.5mm)
- 641 762 Mini prism GMP104, with L-bar, for fixed installations.

## Reflector Poles

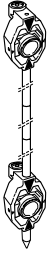
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### Standard poles



- 385 500 Reflector pole GLS11, telescopic, with circular bubble, cm and ft graduation, extends to 2,15m
- 555 720 Dual strut support GSR2 for GLS11/GLS11K plumbing pole
- 403 428 GZW412 Extension 1m long, for reflector pole GLS11 and carriers
- 403 427 Mini reflector pole GLS14, (prism/target 20cm over point), with circular bubble.

### Hidden Point Pole



- 742 329 GMP112, Hidden Point pole extension for GMP111. Includes miniprism with holder and 30cm adapter pole.
- 742 349 Hidden Point pole set consisting of 1x GMP111 and 1x GMP112.
- 744 495 GMP112-0, Hidden Point pole extension for GMP111-0. Includes one miniprism and one 30cm adapter pole.

## Optical Accessories

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### Eyepiece



- 377 802 FOK53 eyepiece, 42x additional eyepiece (modification in a workshop necessary)
- 734 514 GFZ3 Diagonal eyepiece for telescope.
- 376 236 Eyepiece for steep sights GOK6, with joint allowing variable sighting angle.

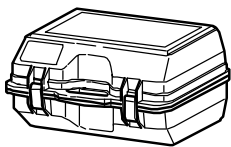
### Objective



- 743 504 GVO13 Objective solar filter for TPS.

## Containers

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- 555 634 GVP468 Container for 2 precision reflectors.
- 667 451 GVP609 Container for 2 circular prisms, 2 carriers/laser plummets and 2 tribrachs.
- 632 249 GDZ20 back strap for instrument container, for each container two are needed.

## Remote Control RCS1100

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### RCS1100 Controller



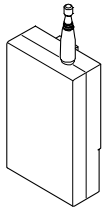
- 667 173 RCS1100 Remote Control Survey controller with integrated radio modem and radio antenna, holder for reflector pole, user manual and softbag.

### RCS1100 Accessories



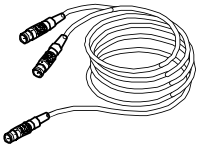
- 667 318 GEB111 Plug-in camcorder battery, NiMH, 6V/4.2Ah, rechargeable.  
734 753 GKL112 Charger BASIC for GEB111 battery, car adapter cable and net adapter included.  
721 986 GHT32 holder for attaching RCS1100 controller to all reflector poles.  
724 297 GVP619 transport container for RCS1100, empty. Providing space for a complete RCS System for remote and instrument setup.  
667 368 GVP607 Softbag for RCS1100.

### TCPS26 Radio Modem



- 663 288 TCPS26B radio modem, with antenna, soft-ware diskette and carrier bar, for TCA (frequency range 2400 - 2483 Mhz).  
663 289 TCPS26R radio modem, with antenna and carrier bar, for controller (frequency range 2400 - 2483 MHz).  
706 381 GHT23 Antenna holder for tripod and plumbing pole.  
734 163 GHT43 Adaptor for mounting TCPS26/27 on tripod

### RCS1100 / TCPS26 Cables



- 409 684 GEV58 Cable Y-shaped, connecting TPS with Leica Modem/ Datarecorder and External batterie, Y-Cable.  
707 525 GK1 Lemo Canon converter 30°, for PC  
707 270 Antenna cable for TCPS26, 1.4m

## LEICA Geo Office

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### Geo Office Software

734 711 LEICA Geo Office Software on CD-ROM, not protected

### Software Protection Keys for additional options

734 712 Software protection key (parallel) for single user licence.  
734 713 Software protection key (USB) for single user licence.  
734 714 Software protection key for network licence for 5 users.  
734 715 Software protection key for network licence for 10 users.  
734 716 Software protection key for network licence for 25 users.  
734 717 Software protection key for network licence for 50 users.

### GPS Options

734 718 L1 data-processing for GPS, for code and phase, protected option.  
734 719 L1/L2 data-processing for GPS, for code and phase, protected option.  
734 720 RINEX Import for GPS, protected option.  
734 721 Upgrade from GPS L1 to GPS L1/L2 data-processing

### Level Options

734 722 Level data processing and analysis, protected option.  
734 723 Design & Adjustment 1D for level data, protected option.

### General Options

734 724 Datum & Map transformation, protected option.  
734 725 Design & Adjustment 3D, protected option.  
734 726 GIS/CAD Export, protected option.  
734 727 Upgrade from Design & Adjustment 1D to 3D

### Upgrades to LEICA Geo Office

734 728 Upgrade from LevelPak-Pro to LEICA Geo Office.  
734 729 Upgrade from SKI-Pro including protected options to LEICA Geo Office.

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**When it has to be right.**

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