

Leica PowerTracker Equipment List



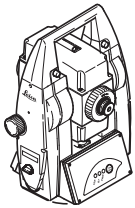
- when it has to be right

Leica
Geosystems

PowerTracker Equipment List

1 Total stations

1.1 Models



	Machine control Instrument	2 Man Robotic Upgrade	1 Man Robotic Upgrade
Angle Measurement	●	●	●
Dist. Meas. With Reflector (IR-Mode)	●	●	●
Motorised	●	●	●
Automatic Target Recognition (ATR)	●	●	●
Guide Light (EGL)	●	●	●
PowerSearch (PS)*	●	○	●
Single point measurement storage for set-up	●	●	●
Single point measurement storage for survey	○	●	●
Machine control applicaiton SW included	●	●	●
Remote Control Unit (MCP950c) required	●	●	●
Required Options and Software			
GeoPad Navigator software	●	-	-
GeoPad Construction software	○	●	●
Survey License for GeoPAD	○	●	●
OneMan PS option	○	○	○
PinPoint 250 RL	○	○	○
* PowerSearch is only active in Machine Control applications without OneMan PS option.		- Not available	
		○ Optional	
		● Standard/required	

1.2 Angular Accuracies

PowerTracker	5"	772 632
PowerTrackerX	3"	772 631

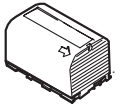
All PowerTracker models are delivered with user manual, and container GVP625.

All parts available in this equipment list for the use with TPS1200+ can also be used with the PowerTracker/PowerTrackerX.

All parts available in this equipment list for the use with RX1200 series controllers can also be used with the MCP950c.

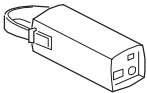
2 Power Supply

2.1 Internal Battery



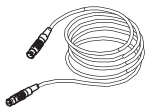
733 270 GEB221, Lithium-Ion battery, 7.4V / 4.4Ah, rechargeable. To be used with TPS1200+ and GPS1200.

2.2 External Batteries



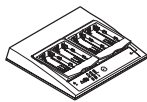
727 367 GEB171, External universal battery, NiMH, 12V/9Ah, rechargeable.

2.3 Battery Cables



762 268 MCY 1252 Y-cable Tracker-MCP950c-Pwr.
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 TPS1200+ to PC (9-pin RS232 serial) and external battery, 2m.

2.4 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.
733 323 GDI221, Adapter for GKL221 for charging 2 Li-Ion batteries GEB221, GEB211.
734 389 GDC221, Car adapter for the GKL221 charger. Allows the use of the GKL221 with a cigarette lighter; 12V24V DC/DC Converter.
734 752 GKL211, Charger BASIC, for Li-Ion batteries GEB221 and GEB211, car adapter cable and net adapter included.

3 Data Storage and Data Transfer

3.1 CompactFlash Card



734 275 MCF64 CompactFlash card 64MB
733 257 MCF256, CompactFlash card 256MB

3.2 Card reader / Adapter



733 259 MCR5, Card reader for CompactFlash card
733 258 MCFAD1, CompactFlash PC Card adapter

3.3 Data Transfer Cables



733 281 GEV161, Databable 2.8m, RX1250 - PC USB.
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 TPS1200+ to PC (9-pin RS232 serial), 2m.
734 698 GEV187, Y-cable, connects TPS1200+ to PC (9-pin RS232 serial) and external battery, 2m.

4 Application Programs & Software Options

4.1 Required Applications

762 018	Tracker onboard application
761 468	SBG GeoPad Site Navigator SW

4.2 Optional Applications

762 598	SBG GeoPad Construction SW*
	* 762020 is required to use PowerTracker with 762598

4.3 Other Options

762 020	Survey License for GeoPad Const.
762 287	One Man PS option for GeoPad Construction*
	* 762020 and 762598 is required to use PowerTracker with 762287
772 633	MSW1318 Pinpoint 250 RL PowerTracker GPC
	* 762020 and 762598 is required to use PowerTracker with 772633

5 Optical Accessories

5.1 Eyepiece



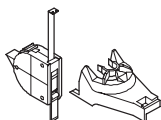
377 802	Eyepiece FOK53, additional eyepiece (modification in a workshop necessary)
734 514	GFZ3 Diagonal eyepiece for telescope.
376 236	Eyepiece for steep sights GOK6, with joint allowing variable sighting angle.

5.2 Objective



743 504	GVO13 Objective solar filter for TPS.
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6 Instrument Height Meter



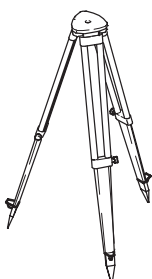
667 718	GHM007 Instrument height meter.
722 045	GHT196 Distance holder for height meter.

7 Tribrachs



667 304	GDF121 Tribrach, without optical plummet, pale green.
667 307	GDF122 Tribrach, with optical plummet, pale green.
748 888	GDF111-1 BASIC tribrach, without optical plummet, pale green
762 323	GDF221 Tribrach w/o opt. plummet (black).
762 840	CTB102 Basic Tribrach with optical plummet (black).
667 308	GDF112 Tribrach, with optical plummet, pale green/red.

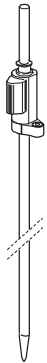
8 Tripods



296 632	Tripod GST20, telescopic, with accessories.
394 752	Tripod GST20-9, telescopic, with accessories, without pouch
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.

9 Reflector Poles

9.1 Standard poles

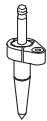


385 500	Reflector pole GLS11, telescopic, with circular bubble, cm and ft graduation, extends to 2,15m
555 720	Dual strut support GSR2 for GLS11/GLS11K plumbing pole
403 428	GZW412 Extension 1m long, for reflector pole GLS11 and carriers
667 309	GLS111 Reflector pole, with bull's-eye bubble, cm/ft graduation, extends to 2.60m, with red/white 0.20m graduations.
667 310	GLS112 Reflector pole, with bull's-eye bubble, cm/ft graduation, extends to 3.65m, with red/white 0.20m graduations.
667 319	Dual-strut support GSR111, for all GLS
745 391	GLS12, Reflector pole, telescopic to 2.00m with circular bubble, cm graduations.
754 389	GLS12F, Reflector pole, telescopic to 2.00m with circular bubble, ft graduations

9.2 Hidden Point Pole

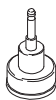
742 329	GMP112, Hidden Point pole extension for GMP111. Includes miniprism with holder and 30cm adapter pole.
744 495	GMP112-0, Hidden Point pole extension for GMP111-0. Includes one miniprism and one 30cm adapter pole.

9.3 Mini pole



403 427	Mini reflector pole GLS14, (prism/target 20cm over point), with circular bubble.
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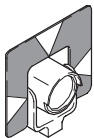
10 Reflector Carriers



667 313	GRT144 Carrier with stub, pale green.
667 316	SNLL121 Precision carrier, with plate level and zenith-nadir laser plummet.
428 340	GZR3 Precision carrier, with plate level and optical plummet.
762 322	GRT246 Carrier with 5/8 inch screw.
725 566	GZR103 Carrier, with plate level and optical plummet, for reflectors and GPS antenna, pale green.

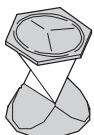
11 Reflectors

11.1 Circular Reflectors



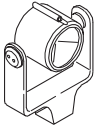
641 617	Circular prism GPR121 PRO, with holder and target plate
641 618	Circular prism GPR111 BASIC, with holder and target plate
362 830	Circular prism GPR1, in container
362 820	Single-prism holder GPH1
362 823	Target plate GZT4, for GPH1
400 080	Three-prism holder GPH3
753 492	Circular prism GPR113 BASIC, with red holder

11.2 360° Reflectors



639 985	GRZ4 360° Reflector
754 384	GRZ122 360° Reflector with 5/8" thread adapter for mounting of GPS antenna
756 637	MPR 122 360° Reflector Pro
644 327	GRZ101, 360° Mini Prism with 1/4" thread fitting.
742 006	GAD103, Adapter for attaching GRZ101 to all poles.

1.3 Precision Reflectors



555 631 Single-prism precision reflector GPH1P

11.4 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)

641 762 Mini prism GMP104, with L-bar, for fixed installations.

641 615 Mini prism GMP111 BASIC, incl. bubble, with GLS115 pole set.

642 534 Mini prism 0-Constant GMP111-0 BASIC, incl. bubble, with GLS115 pole set.

743 503 GAD105 Adapter for GMP111 to all poles.

11.5 Reflector Tapes



635 317 RETROTARGET S, Retro targets, 20x20mm, 20 pieces, 2-40m.

635 318 RETROTARGET M, Retro targets, 40x40mm, 20 pieces, 20-100m.

635 319 RETROTARGET L, Retro targets, 60x60mm, 20 pieces, 60-180m.

733 327 GZM28 Reflective tape for IR, 60x60mm.

12 Additional Containers

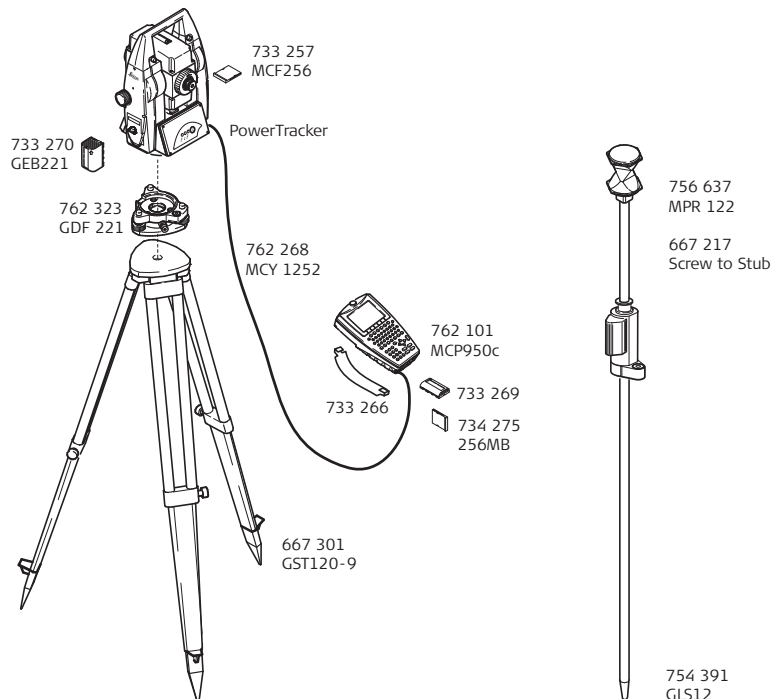
744 501 GDZ66 Backstraps (2) for container.

762 267 MTC1252 Transport case for MAT120x accessories.

667 451 Container GVP609, for 2 Circular prisms GPH111/ 121, 2 Laser plummet and 2 tribrachs.

727 589 CTC102, Soft bag with shoulder strap, for prism station, consist of tribrach, prism carrier or laser plummet and prism.

12.1 2 Man Robotic - Suggested Equipment



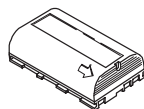
13 Remote Control

13.1 Controller



762 101 MCP950c, WinCE Controller, Colour Display, removable CF Card, Bluetooth.

13.2 Internal Battery



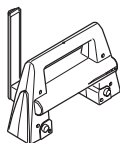
733 269 GEB211, Lithium-Ion battery, 7.4V/2.2Ah, rechargeable. To be used with RX1250T/Tc.

13.3 RX1200 Accessories



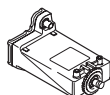
747 096 GHT 56 Holder for RX1250 and GFU.
742 007 GHT52, Clamp arrangement for attaching the GHT39 to all poles (except mini poles).
733 266 GHT41, Hand strap for RX1200 Series Controller with utility hook for attaching to belt or tripod.

13.4 RH1200 RadioHandle



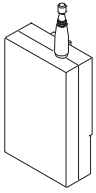
741 964 RH1200, RadioHandle with integrated radio modem, with antenna, user manual. Used as radio modem for TPS1200+ together with RX1250T/Tc or TCPS27 (frequency range 2400-2483 MHz). Requires communication side cover.

13.5 GFU23 Radio Modem



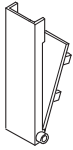
747 097 GFU23, TPS1200+ Radio modem for GHT56 (frequency range 2400 - 2483 MHz).
747 815 GAT15, Radio antenna for GFU23, (frequency range 2400 - 2483 MHz).

13.6 TCPS27 Radio Modem



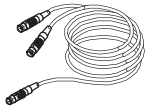
- 734 161 TCPS27 B, radio modem (base), with antenna, user manual. Used as radio modem for TPS1200+ (frequency range 2400 - 2483 Mhz).
- 734 162 TCPS27 R, radio modem (remote), with antenna, user manual. Used as external radio for RX1210 controller (frequency range 2400 - 2483 MHz).
- 737 909 TCPS 27S robust radio modem for machine applications.

13.7 Radio accessories



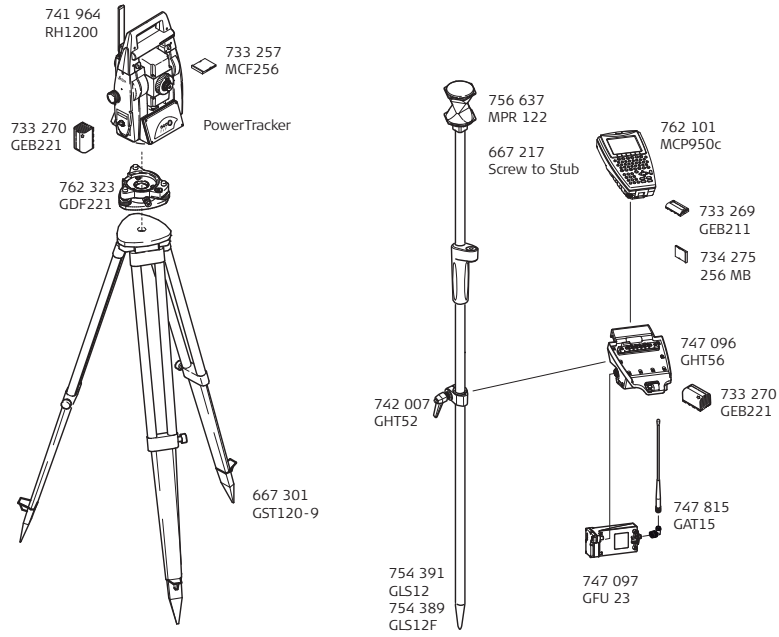
- 762 344 MMB1250 GFU Bracket for Machine.
- 734 163 GHT43, Adapter for mounting TCPS26/27 on GST20/GST120 tripod.

13.8 Machine Cables



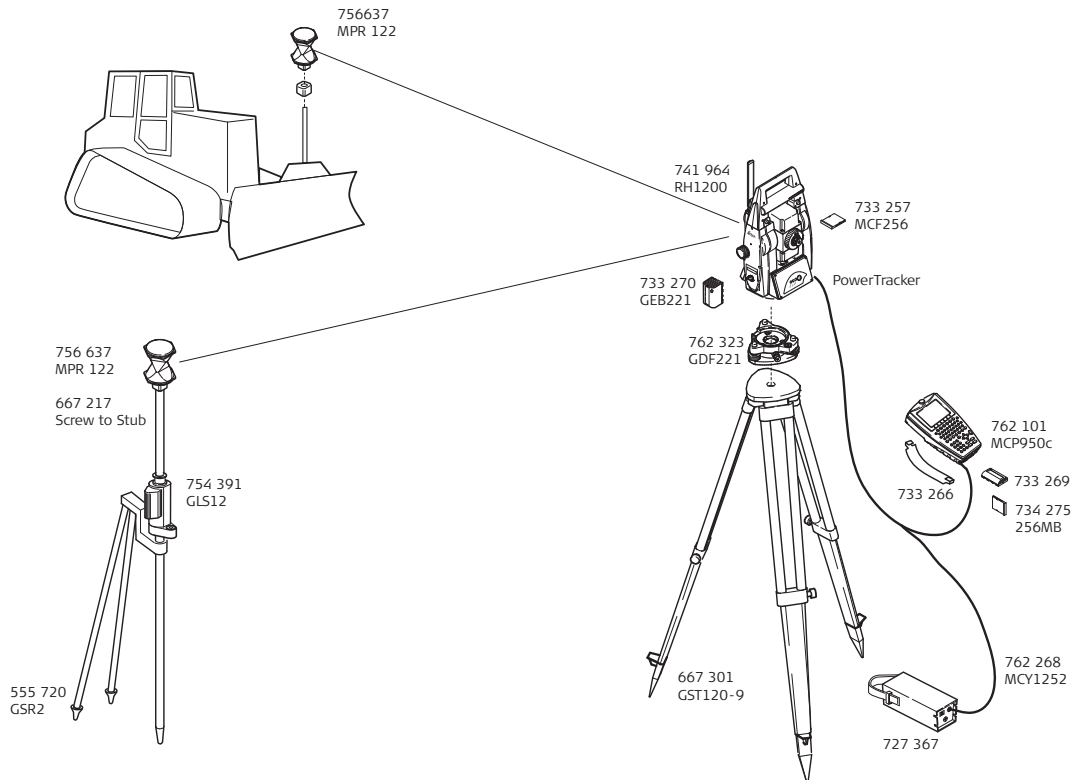
- 763 022 MCY 1253 Y cable for TCPS 27, JLT and PRW.

13.10 Robotic Surveying - Suggested Equipment



13.11 Machine Application

Machine components are not included in the equipment diagram



14 SBG Geo Construction Office Software

14.1 SBG Geo Office Software

762 591 SBG Geo Construction Office Software.

14.2 Software Options

762 594 SBG Geo Construction Volume Modual.

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Dozers, graders, excavators, concrete pavers and asphalt finishers are just some of the construction machines that can be fitted with scaleable, tough and reliable construction machine automation systems. With a wide range of support services to choose from, Leica Geosystems helps master your site.

When it has to be right.

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