



Automatic milling performance measurement

WPT - WIRTGEN PERFORMANCE TRACKER



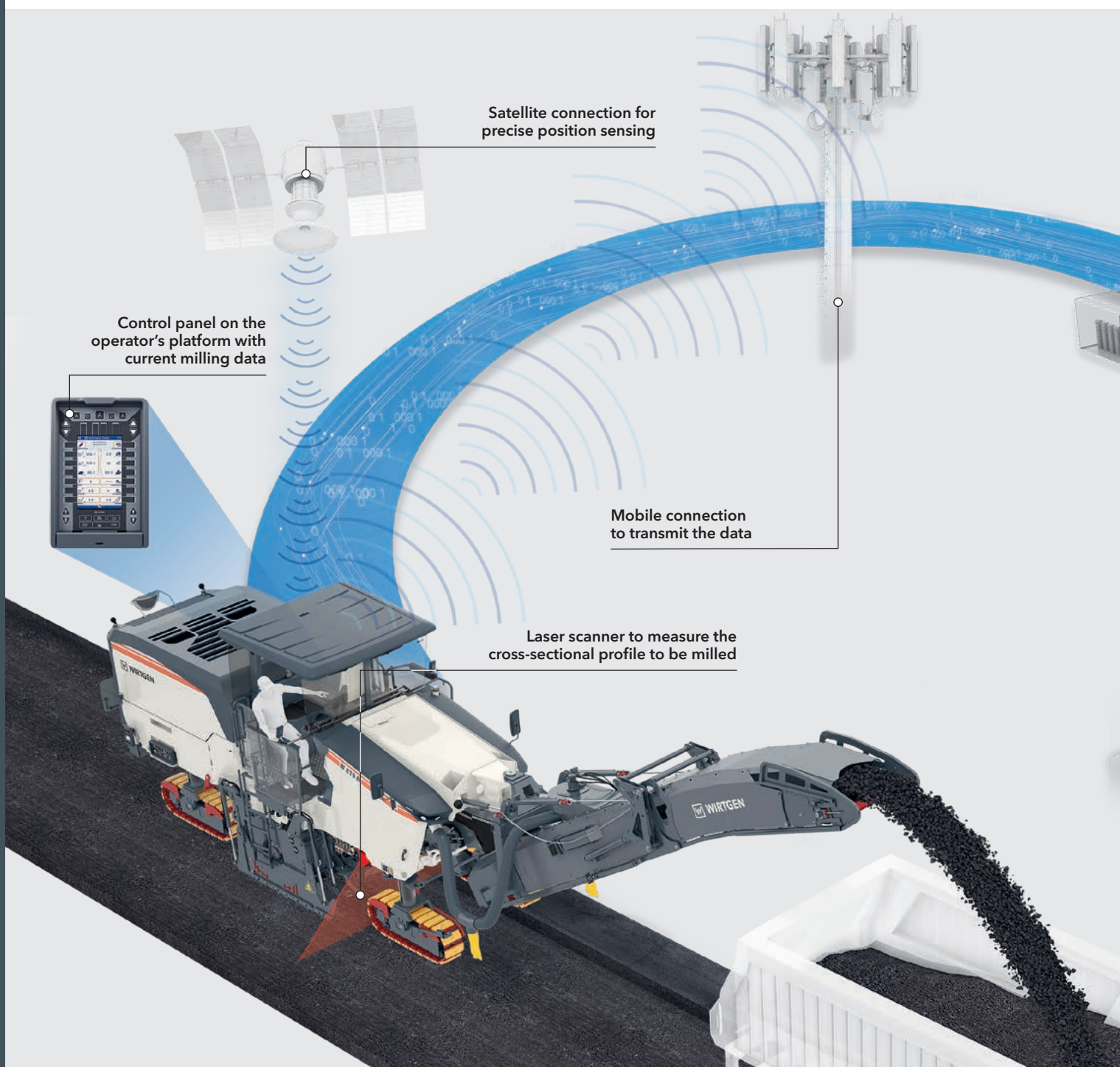
How it works

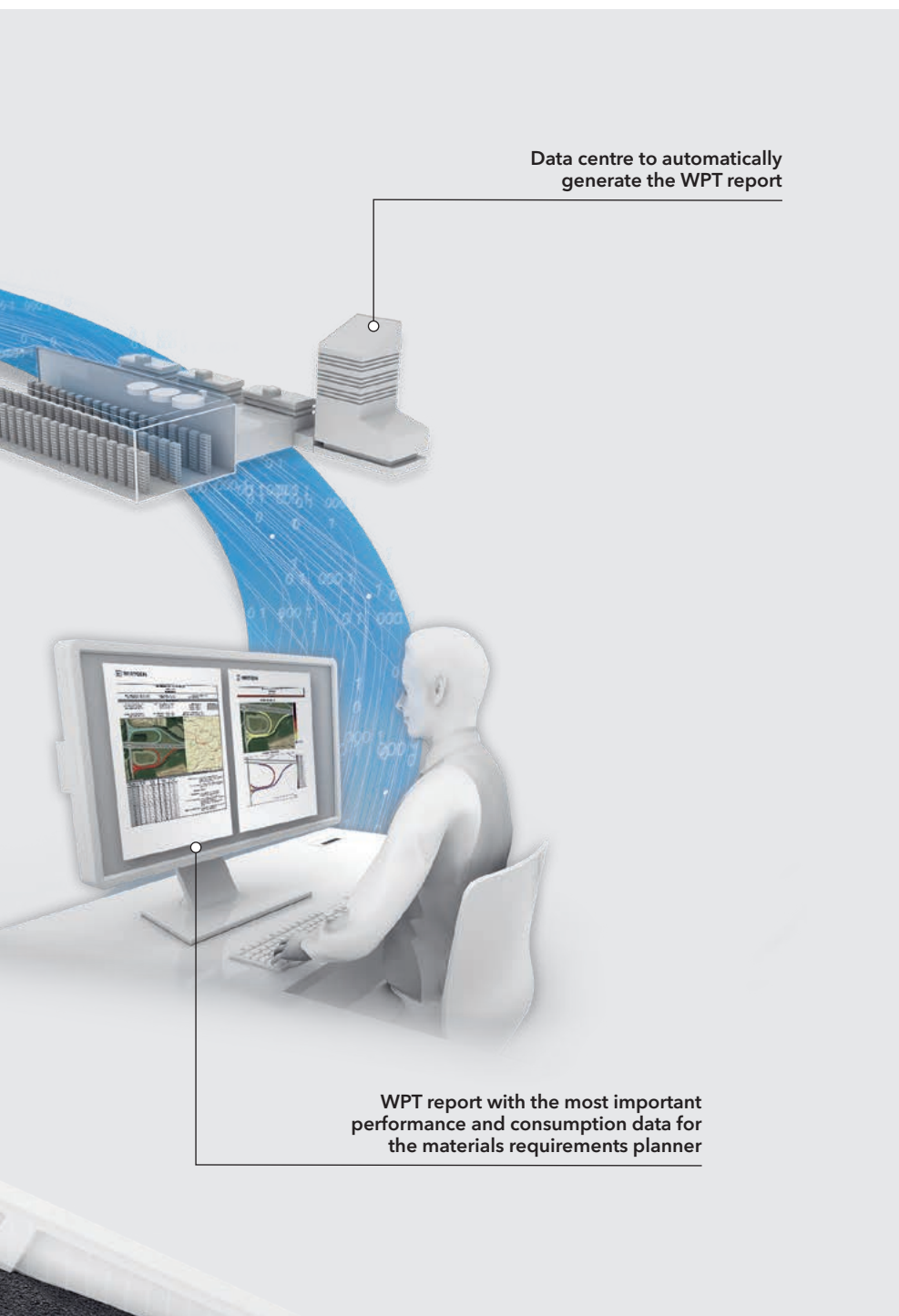
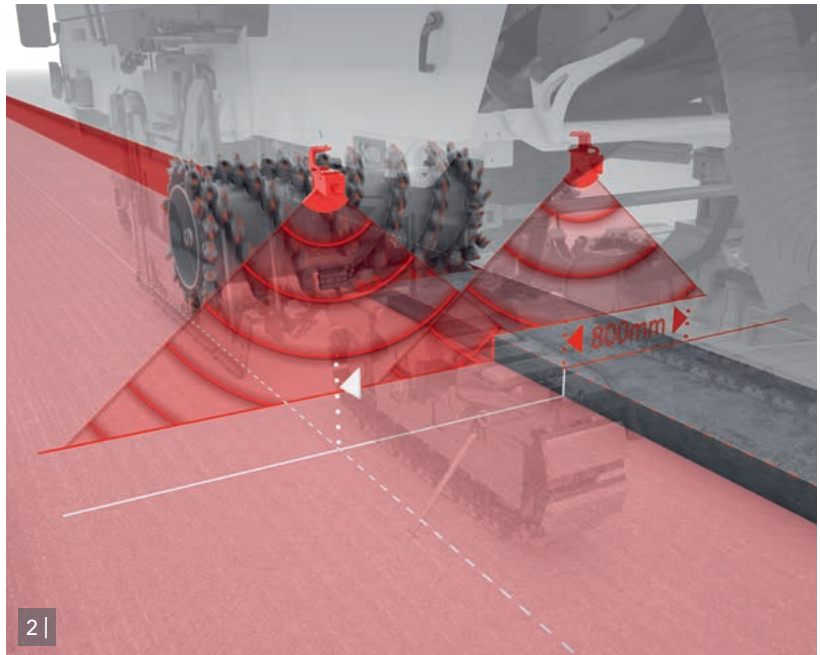
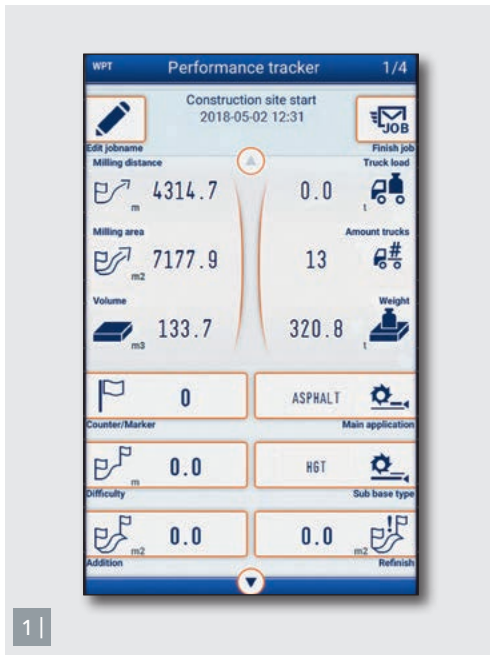
Automatic milling performance measurement

The **WPT - WIRTGEN PERFORMANCE TRACKER** uses a laser scanner to measure the cross-sectional profile to be milled. Surface milling performance and milling volume are then precisely measured using GPS positioning and other sensors. The machine operator can continuously track the most important information in real time on the control panel's display. Afterwards, a report with all of the relevant performance and consumption

data is generated automatically and made available to the machine user.

The **WPT** perfectly complements the WITOS FleetView telematics system and thus significantly enhances the flow of information between the people and components involved.





1 | The milling data recorded are displayed to the machine operator via the control panel on the operator's platform.

2 | The actual milling profile is determined using two laser scanners.

MORE INFO?

Watch our WPT product animations.



Added value

Enjoy numerous benefits with the WPT

The **WPT** offers a variety of benefits, from precisely documenting relevant consumption data to automatically generating the **WPT** report and optimising the billing process.

In addition, the **WPT** enables an even more accurate assessment of machine efficiency based on the data and information transmitted.

4 IMPRESSIVE FACTS:

- | | |
|---------------------------------|-----------------------------------|
| 1 Valuable documentation | 3 Measurable machine efficiency |
| 2 Exact site cost calculation | 4 Informative work progress |

1 | VALUABLE DOCUMENTATION

- Precisely track additional work for accurate billing
- Eliminate the need for manual measurement
- Data required for billing available immediately after completing the job
- Recalculate job cost quickly and easily

2 | EXACT SITE COST CALCULATION

- More accurate cost calculation
- Exact performance and consumption data to process the job
- More easily evaluate site efficiency

3 | MEASURABLE MACHINE EFFICIENCY

- Transparent data
- More easily compare efficiency within the fleet
- More easily select the most effective machine for the job

4 | INFORMATIVE WORK PROGRESS

- Key information is displayed on the operator's platform
- Current milling progress
- Current consumption data
- Current truck tonnage displayed (if manually entered)
- Easier calculation of subsequent jobs



MACHINE USER

COLD MILLING MACHINE



CONNECTED
MILLING



OPERATOR

i **CONNECTED MILLING**

The **WPT** is a new and innovative component of **CONNECTED MILLING**.

This term refers to the groundbreaking, multi-faceted flow of information between the machine and its various machine components, the machine operator, the service workshop and the scheduling offices.

Instant display of milling performance data

The universal 7" control panel displays the most important performance and consumption data to the machine operator as desired. In addition, in the event of unforeseen milling situations like manhole covers or larger stones, the operator can set markers that are then noted in the **WPT** report.

Thanks to a software update, existing panels from the previous generation can continue to be used without any problems.

The control panel of the new LARGE MILLING MACHINE GENERATION LAUNCHED IN 2019





The control panel of the LARGE MILLING MACHINE GENERATION 2010-2019



WPT software update on existing LEVEL PRO
operating panels with intuitive menu structure



Machine user

Informative WPT report

via e-mail

1 | OVERVIEW

Job data, such as the location of the site and the date/time of execution

General information:
Job start, job end and job number

Compact overview of key milling performance data

Precise position tracking and view of the milling process on satellite map images



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Wirtgen Performance Tracker Report

L1075, 07639, Bad Klosterlausnitz, Thüringen, 03.04.2019

general information

job begin: 03.04.2019 06:30
job end: 03.04.2019 14:33
order no.: BAUMA 2019
time zone: GMT+02:00

overview milling performance

total area ¹⁾ [m ²]:	3072,7	total volume [m ³]:	371,9
of which uncertain ²⁾ [%]:	1,1	total tonnage [t]:	892,6
milling distance ³⁾ [m]:	2403,6	of which not loaded [t]:	0
Ø milling depth [cm]:	12,1	Ø material density [kg/m ³]:	2400
Ø milling width [m]:	1,28	loaded trucks:	41
job duration ⁴⁾ [h:m]:	08:02	milling duration ⁵⁾ [h:m]:	04:44
idle duration ⁶⁾ [h:m]:	01:51	current operating time [h]:	1588
		engine on-time [h:m]:	07:30
sum marker:	8	difficulty [m]:	34,4
addition [m ²]:	57,5	refinish [m ²]:	68,9



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overview order item

comfort filter to order assignment							00,0 % of all areas assigned				
order item ¹⁾	milling depth [cm] from	milling depth [cm] to	area no.	main application	sub-base	specialty	truck loading	milling depth [cm]	milling distance [m]	milling area [m ²]	milling volume [m ³]
1	12,5	15,4	1	binder- and surface layer	base layer		yes	13,9	1862,0	2367,0	329,0
2	3,5	4,4	1	surface layer	binder layer		yes				
					additional		yes				



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overview areas

milling depth [cm]	milling distance [m]	milling area [m ²]	milling volume [m ³]
undefined	17,10	34,0	
3,5-4,4	336,00	544,2	



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milling depth [cm]	milling distance [m]	milling area [m ²]	milling volume [m ³]	tonnage [t]	truck loading	main application	sub-base	specialty	assignment order item ¹⁾
area 2									
undefined	0,20	0,4	0,0	0,0	yes	binder- and surface layer	base layer	additional	
14,5-15,4	117,6	57,1	8,2	19,6	yes	binder- and surface layer	base layer	additional	
sum	117,6	57,5	8,2	19,6					

Breakdown of milled surfaces according to milling depth class, loading, marking of special features and main application/sub-base type

Milling performance data is permanently transmitted to a data server via a mobile connection. At the start of a new milling job, a **WPT** report of the previous, completed job is automatically generated in Excel and PDF format and sent by e-mail, for example to the computer

of the machine user's scheduling office. Easy selection of the recipients of the **WPT** report via WITOS FleetView user administration.

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Wirtgen Performance Tracker Report

L1075, 07639, Bad Klosterlausnitz, Thüringen, 03.04.2019

overview site logistics

#	tonnage [t]	main application	sub-base
idle time: 03.04.2019 09:30 - duration: 0:21 [h:m]			
1	22,8	binder- and surface layer	base layer
2	25,8	binder- and surface layer	base layer
3	27,1	binder- and surface layer	base layer
4	20,4	binder- and surface layer	base layer
5	20,3	binder- and surface layer	base layer
6	16,1	binder- and surface layer	base layer
7	16,2	binder- and surface layer	base layer
8	19,1	binder- and surface layer	base layer
9	31,0	binder- and surface layer	base layer
10	25,7	binder- and surface layer	base layer
idle time: 03.04.2019 10:42 - duration: 0:42 [h:m]			
11	25,1	binder- and surface layer	base layer
12	21,8	binder- and surface layer	base layer
13	25,0	binder- and surface layer	base layer
14	19,8	binder- and surface layer	base layer
15	17,4	binder- and surface layer	base layer
16	29,5	binder- and surface layer	base layer
17	29,5	binder- and surface layer	base layer
18	30,6	binder- and surface layer	base layer
19	27,2	binder- and surface layer	base layer
20	19,5	binder- and surface layer	base layer
idle time: 03.04.2019 13:24 - duration: 0:48 [h:m]			
21	24,6	binder- and surface layer	base layer
22	23,7	binder- and surface layer	base layer
23	19,3	binder- and surface layer	base layer
24	18,5	binder- and surface layer	base layer
25	19,0	binder- and surface layer	base layer
26	15,0	binder- and surface layer	base layer
27	16,8	binder- and surface layer	base layer
28	21,1	binder- and surface layer	base layer
29	29,6	binder- and surface layer	base layer
30	20,2	binder- and surface layer	base layer
31	0,0	binder- and surface layer	base layer
32	0,0	binder- and surface layer	base layer

Wirtgen Performance Tracker Bericht

CONTENTS OF THE WPT REPORT AT A GLANCE:

1 | Overview

2 | Site logistics

3 | Consumption

4 | Area

5 | Detailed area

2 | SITE LOGISTICS

Compact overview of truck tonnage and detailed list of downtimes

3 | CONSUMPTION

List of diesel, water and pick consumption

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Wirtgen Performance Tracker Report

L1075, 07639, Bad Klosterlausnitz, Thüringen, 03.04.2019

consumption information machine

fuel usage [l]	water usage [l]
447	5800

milling drum

line spacing [mm]	picks per cut
15	1

pick usage

pick type	amount
W8	121



2320 0001

Wirtgen Performance Tracker Report

L1075, 07639, Bad Klosterlausnitz, Thüringen, 03.04.2019

[illegible]

Detailed overview
of the milling
process with time
stamp, milling
depth, milling width,
milled areas, etc.

Wirtgen Performance Tracker

[illegible]

Wirtgen Performance Tracker Report

2320 0001

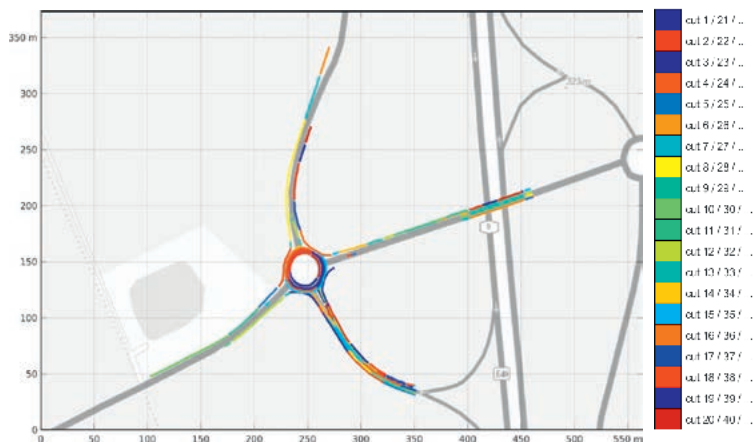
Wirtgen Performance Tracker Report

L1075, 07639, Bad Klosterlausnitz, Thüringen, 03.04.2019

milling depths area 2



cuts area 2



5 | DETAILED
MAP OF AREA

Visualisation of the milling
depth on satellite maps
using a colour scheme

System components

Comprehensive complete package

SYSTEM COMPONENTS

With the TCU control unit, a GPS antenna and two laser scanners, the **WPT** consists of three system components designed to work together perfectly that are responsible for accurately capturing and transmitting the milling performance and position data.

In addition to the hardware, a comprehensive software package, the licence to use the GPS data and authorised access via the WITOS FleetView telematics system are included in the overall **WPT** package.



PACKAGE INCLUDES

- > Differential GPS antenna
- > Laser sensors
- > TCU unit with antenna
- > Licence to use satellite maps
- > Access to WITOS FleetView
- > Cost of mobile connection to send data via VPN
- > Comprehensive software upgrade



Retrofitting

WPT available as retrofit kit

Large milling machines already in operation can be retrofitted with the **WPT** at any time. Thanks to intelligent hardware and software solutions, it is possible to retrofit these machines within a single day.

The **WPT** is only available for milling drum assemblies with milling widths of 2,000 mm and 2,200 mm, milling width of 2,500 mm available on request. We also recommend that you discuss the use or retrofitting of the **WPT** with the respective WIRTGEN GROUP sales and service companies.





WPT - WIRTGEN PERFORMANCE TRACKER RETROFIT KIT

Machine type	Series	Series range	Order number with weather canopy	Order number w/o weather canopy
W 200	1220	0331 - 0665	2703887	2703890
		0666 - 9999	2703884	2703885
W 200i	1420	0001 - 1440	2703887	2703890
		1441 - 9999	2703884	2703885
W 210	1320	0310 - 0454	2703887	2703890
		0455 - 9999	2703884	2703885
W 210i	1520	0001 - 1162	2703887	2703890
		1163 - 9999	2703884	2703885
W 210 XP	2420	0001 - 9999	2703884	2703885
W 220	0522	0006 - 0222	2703900	2703901
		0223 - 9999	2703897	2703898
W 220i	0722	0001 - 9999	2703897	2703898
W 250	0422	0044 - 0089	2703894	2703896
		0090 - 9999	2703892	2703893
W 250i	0622	0003 - 1017	2703894	2703896
		1018 - 9999	2703892	2703893

1 | Our WIRTGEN GROUP service technicians will retrofit your machine with the WPT quickly and professionally.



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