

PERFECTLY INTEGRATED.

MANOSKOP® 766 DAPTIQ




Integration capability is in the name. MANOSKOP® 766 DAPTIQ.



OPEN.

Maximum integration capability is provided by the API interface, which makes it easy to integrate the tool into the work environment transparently and flexibly: the API is open-source.

MANOSKOP® 766 DAPTIQ

Size	N·m	ft·lb	in·lb	 mm
1	1-10	0.7-7.5	9-90	9x12
2	2-20	1.5-15	18-180	9x12
4	4-40	3-30	36-360	9x12
6	6-60	4.5-45	54-540	9x12
10	10-100	7.4-75	90-900	9x12
20	20-200	15-150	180-1800	14x18
40	40-400	30-300	360-3600	14x18
65	65-650	48-480	580-5800	22x28
80	80-800	60-600	720-7200	22x28
100	100-1000	74-750	900-9000	22x28

COMMUNICATIVE.

Thanks to the bidirectional interface, MANOSKOP® 766 DAPTIQ can receive instructions and respond wirelessly to signals from the network. To do so, it uses the ISM frequency 868 MHz resp. 915 MHz.

ACCURATE.

MANOSKOP® 766 DAPTIQ transmits signals at extremely short intervals. In this way, the production control system is supplied with more than enough data to enable the tightening action to be tracked in realtime and with great precision – providing an additional layer of monitoring.

FLEXIBLE.

STAHLWILLE has made all the control commands for the MANOSKOP® 766 DAPTIQ openly accessible. This means that system integrators at the customer's site can use exactly the commands they need to link the tool into their production workflows in just the way they need.

LOGGING FUNCTIONALITY.

Provided the customer has corresponding skills in-house for the integration process, MANOSKOP® 766 DAPTIQ even allows fastener tightening data to be read out automatically for logging purposes and to archive those details in the company's subsystems – delivering more efficient processes and verifiable fastener dependability.



MULTIFUNCTIONAL.

By cooperating closely with the production control system, the MANOSKOP® 766 DAPTIQ automatically configures itself for the next fastener. Key information for the worker can be displayed and specific instructions transmitted.

ELECTROMECHANICAL.

MANOSKOP® 766 DAPTIQ delivers the best of both worlds: absolute accuracy, many programming options and logging functionality, coupled with the genuine, mechanical trigger mechanism that so many professionals appreciate.

DURABLE.

The trigger mechanism in the MANOSKOP® 766 DAPTIQ is virtually wear-free, which means the tool has a very long service lifetime. This, in turn, boosts the customer's ROI.



Additional benefits

- Accurate: two measuring methods (torque/tightening angle).
- Simply more efficient: dispensing with cable connections makes it easy to apply settings from the production control system quickly and efficiently.
- One for all: the receiver station is able to process data from several MANOSKOP® 766 DAPTIQs at the same time.
- High-performance: MANOSKOP® 766 DAPTIQ uses the ISM band (868 MHz) for wireless communication – the exclusive frequency range for industry, science and medical applications. For use in the USA, it is also available for the 915 MHz frequency band.
- Multisensory: acoustic and visual assessment of the joint.
- Exact: thanks to the extremely low display deviation value ($\pm 2\%$ for torque and $\pm 1\%$ for angle).



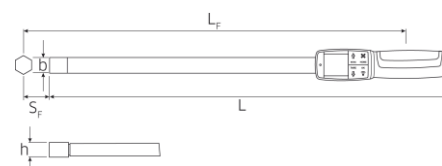
A new solution. For a new way of working.



The MANOSKOP® 766 DAPTIQ: in launching this electromechanical tightening angle torque wrench, STAHLWILLE is introducing the perfect solution for applications in which the tool needs to be integrated in a highly flexible, semi-automated work environment. This tool is Industry 4.0 capable and intended for future-orientated use, thanks to its bidirectional interface, open-source API and wireless module, and yet operation is intuitive and the tool is as accurate as one would expect from STAHLWILLE.



Revision:
1.5

The information does not represent a quality assurance in the sense of §459 (2) BGB and does not justify any liability. They describe the products in general form



Code	Nr.	N·m	ft·lb	in·lb	 mm	b mm	h mm	L mm	L _F mm	S _F mm	 g
96 50 27 01	766/1	1-10	0,7-7,5	9-90	9 x 12	28	23	226	188	17,5	370
96 50 27 02	766/2	2-20	1,5-15	18-180	9 x 12	28	23	226	188	17,5	380
96 50 27 04	766/4	4-40	3-30	36-360	9 x 12	28	23	252	214	17,5	420
96 50 27 06	766/6	6-60	4,5-45	54-540	9 x 12	28	23	393	355	17,5	810
96 50 27 10	766/10	10-100	7,4-75	90-900	9 x 12	28	23	466	428	17,5	1085
96 50 27 20	766/20	20-200	15-150	180-1800	14 x 18	28	23	547	516	25	1361
96 50 27 40	766/40	40-400	30-300	360-3600	14 x 18	28	23	687	656	25	1765
96 50 27 65	766/65	65-650	48-480	580-5800	22 x 28	30,6	25,6	890	890	55	3222
96 50 27 80	766/80	80-800	60-600	720-7200	22 x 28	30,6	25,6	1158	1158	55	4572
96 50 28 00	766/100	100-1000	74-750	900-9000	22 x 28	30,6	25,6	1343	1343	55	4990
Accessories		Socket									
52 11 02 01	WirelessModule	Micro USB									
52 11 02 00	BaseStation	USB A	*for desk mounting								
52 11 02 02	BaseStation	USB A	*for wall mounting								
96 50 28 10	BaseStation+ WirelessModule	-									
96 50 28 11	PowerPack 766	-									

**MANOSKOP® 766**

Measuring mode	Torque / Angle
Operation mode	Electromechanical click / indicating
Rel. deviation	±2% torque / ±1% angle
Torque indication	≤60 N·m: 0,01 N·m resolution >60 N·m: 0,1 N·m
Angle indication	0,1° resolution
Power Supply	4x AAA or optional Li-Ion (PowerPack 766)
Power supply BaseStation	5V via USB-A Cable
Interface	Cable – Micro-USB to USB A / Wireless
Wireless-Band	868 MHz (Europe – CE) / 915 MHz (USA – FCC)
Protocol	Micro-USB Cable / USB – HID Mode for service only Micro-USB Cable / USB – CAL Mode for calibration on STAHLWILLE calibration system Micro-USB Cable / USB – CDC Mode Open Protocol for integration Wireless /USB – ISM Mode Open Protocol for integration
Max. cable length	≤6,5 feet / 2 m * ¹
Wireless range	Free field: up to 197 feet / 60 m
Sample rate	5 samples / second
Recommended connection	5 wrenches per BaseStation
Data transfer rate	38,4 Kbps
Response time	50 - 1000 ms * ²
Operating time	≥ 8 hours
Storage temp.	-10° / +60° * ³
Operating temp.	0° / +40° * ³

*¹ USB Cable*² depending on frequency assignment & number of connected wrenches*³ no humidity

