



HIOS®

Electric Screwdriver
General Catalog **14A**

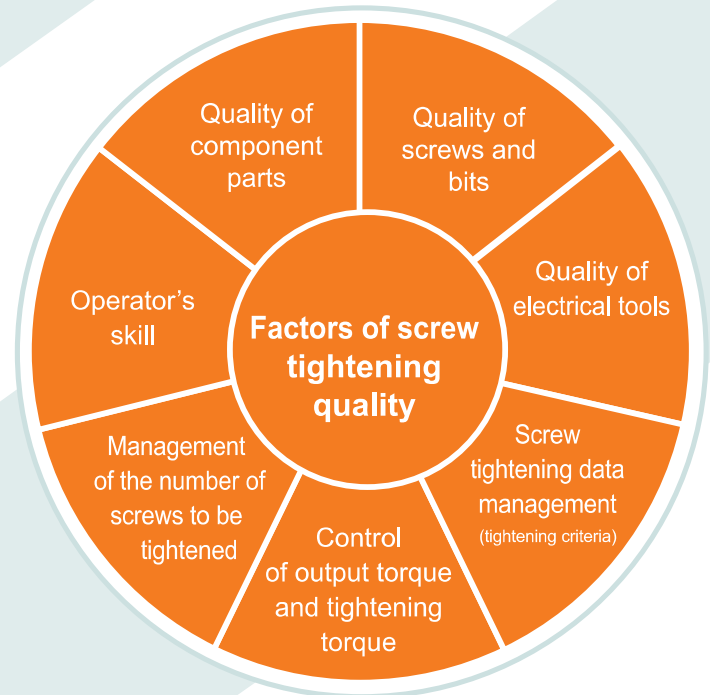
The HIOS brand supports assembly lines throughout the world.



There are many factors that affect the overall quality of screw tightening.

HIOS aims to provide the highest quality and to create a comfortable working environment from the viewpoint of customers. We review the environment surrounding tightening operations from various aspects and try to improve it every day.

The HIOS New Fastening System is a comprehensive system that achieves highly reliable screw tightening and high quality control.



Torque Meter

HP/HDP HM/HIT Series

HIOS Torque Meters are the industry benchmark.

- Measured data can be imported to a computer.
- Up to 100 data items can be stored in the memory and controlled (applicable to HP and HDP only).
- With one unit of Torque Meter, max, min and ave torque values can be measured (applicable to HP and HDP only).
- New product, HP-1 is ideal for measuring 10N·cm or smaller torque.
- Torque for both clockwise or counterclockwise can be measured.
- As a standard specification, data output and analogue output are available.
- We offer calibration and maintenance services.
- "Inspection Report" is attached to all the Torque Meters.

HP

HP-1*
HP-10
HP-100



* Available on request.

Use for making torque settings on electric screwdrivers, checking torque of torque wrenches or measuring torque of various rotating units, etc.



New
product

Model		HP-1	HP-10	HP-100
Peak measuring range	N • m		0.015 - 1.000	0.15 - 10.00
	N • mm	1.5 - 100.0		
	lbf • in	0.015 - 0.90	0.15 - 9.00	1.5 - 90.0
	(kgf • cm)		(0.15 - 10.00)	(1.5 - 100.0)
Accuracy		Within ±0.5% (F.S.)		
Measuring modes		TRACK, PEAK, FIRST PEAK		
External dimensions (mm)		230 × 124 × 65.2 (H)		
Weight (kg)		1.8kg		
Battery pack (charging time)		1.2V NiMH x 5 cells 1,000mA (within 6 hours)		
Continuous operating time on a full charge		8 hours		
Battery life		About 300 charges		
Exclusive battery charger		Input: AC 100-240V (50 / 60Hz) Output: DC 7.3-8V 0.5 A		

HDP

HDP-5
HDP-50
HDP-100*



* Available on request.

Use for measuring loosened torque of tightened screws or additional tightening torque.



Model		HDP-5	HDP-50	HDP-100
Peak measuring range	N·m	0.015 - 0.500	0.15 - 5.00	0.15 - 10.00
	lbf·in	0.15 - 4.40	1.5 - 44.0	1.5 - 90.0
	(kgf·cm)	(0.15 - 5.00)	(1.5 - 50.0)	(1.5 - 100.0)
Accuracy		Within ±0.5% (F.S.)		
Measuring modes		TRACK, PEAK, FIRST PEAK		
External dimensions (mm)	Display unit	125 × 95.6 × 42 (H)		
	Detector	104(L) × Ø21	160(L) × Ø34.5	
Weight (kg)	Detector bit socket	H4 or 1/4HEX	H5 or 1/4HEX	1/4HEX
	Torque display	0.78kg		
Detector cord		0.068kg	0.25kg	
Battery pack (charging time)		1.2V NiMH x 5 cells 1,000mA (within 6 hours)		
Continuous operating time on a full charge		8 hours		
Battery life		About 300 charges		
Exclusive battery charger		Input: AC 100-240V (50 / 60Hz) Output: DC 7.3-8V 0.5 A		

HM

HM-10
HM-100



Use for torque control of screwdrivers for automatic assembly machines



Model		HM-10	HM-100
Peak measuring range	N·m	0.015 - 1.000	0.15 - 10.00
	lbf·in	0.15 - 9.0	1.5 - 90.0
	(kgf·cm)	(0.15 - 10.0)	(1.5 - 100.0)
Accuracy		Within ±0.5% (F.S.)	
Measuring modes		TRACK and PEAK	
External dimensions (mm)	Torque display	165 × 95 × 55 (H)	
	Detector	119 × 45 × 33 (H)	
Weight (kg)	Torque display	1kg	
	Detector	0.35kg	
Detector cord		1.7m (P/N: DPC-0506)	
Battery pack (charging time)		1.2V NiMH x 5 cells (within 8 hours)	
Continuous operating time on a full charge		30 hours	
Battery life		About 300 charges	
Exclusive battery charger		Input: AC 100V, 120V, 220-240V Output: DC 7.2V 120mA	

HIT

HIT-200
HIT-500
HIT-2000



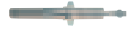
HIT Series is available on request.

Use for control of impact drivers and torque wrenches



Model		HIT-200	HIT-500	HIT-2000
Peak measuring range	N·m	0.15 - 18.00	1.5 - 50.0	25.0 - 180.0
	lbf·in	1.5 - 160.0	15 - 440	250 - 1600
	(kgf·cm)	(1.5 - 180.0)	(15 - 500)	(250 - 1800)
Accuracy		Within ±0.5% (F.S.)		
Measuring modes		TRACK, PEAK, FIRST PEAK		
External dimensions of torque display (mm)		165 × 95 × 55 (H)		
Weight (kg)	Torque display	1kg		
	Detector	0.85kg	1.65kg	
Socket mating diameter		9.5 square	12.7 square	
Detector cord		1.7m (P/N: DPC-0506)		
Battery pack (charging time)		1.2V NiMH x 5 cells (within 8 hours)		
Continuous operating time on a full charge		30 hours		
Battery life		About 300 charges		
Exclusive battery charger		Input: AC 100V, 120V, 220-240V Output: DC 7.2V 120mA		

● HP Standard Accessories

Drive size	H4	H5	1/4HEX or 5HEX	1/4HEX or 5HEX
Model	HP-10	HP-100	HP-10	HP-100
Fidaptor with safety cover	P/N:TF4G-Z (Yellow) 1pc 	P/N:TF5G-Z (Black) 1pc 	P/N:TF6SG-Z (Yellow) 1pc 	P/N:TF6XG-Z (Black) 1pc 
Shaft with screw		HIOS shank (H4) P/N:TF5G-0010-4 1pc  HEX shank (2-step shaft) Upper:5HEX Lower:1/4HEX P/N:TF6XG-0010 1pc 		
Buffer spring		Measuring range: 0.15-0.6 N·m P/N:CL65-0040 (Yellow) 1pc 		Measuring range: 0.15-0.6 N·m P/N:CL65-0040 (Yellow) 1pc 
Others	● Exclusive battery charger* 1pc P/N:TCH-MULTI  ● Grease (only for HP-100) P/N:TF-G3 1pc  ● Inspection report 1 copy  * For a battery charger to be used in a country other than Japan, see the battery charger list on P.67, because the applicable battery charger varies depending on the country.			

* We do not sell the grease TF-G3 separately.

● Fidaptor List of HP Series (Fidaptor has started to have a limit line since April 2013 so that the output of electric screwdrivers can be measured under certain conditions.)

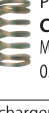
Model	HP-10				HP-100			
Classification	Standard accessories				Options			
P/N	TF4G-Z	TF6SG-Z	TF4SG-Z	TF4S-Z	TF5G-Z	TF6XG-Z	TF6U-Z	TF6UP-Z*
Measuring range (N·m)	0.15-0.6	0.15-0.6	0.25 or smaller	0.25 or smaller	0.5-3	0.5-3	3-9	3-9
Bit type	 (Yellow)	 (Yellow)	 (Red)	 (Red)	 (Black)	 (Black)	 (Black)	 (Black)
	HIOS shank H4	HEX shank (2-step shaft) Upper: 5 HEX, Lower: 1/4HEX	HIOS shank H4	HIOS shank H4	HIOS shank H5	HEX shank (2-step shaft) Upper: 5 HEX, Lower: 1/4HEX	HEX shank 1/4HEX	HEX shank 1/4HEX

* The fidaptor for CL-9000 has to be TF6UP-Z.

● HDP Series Standard Accessories

Drive size	H4	H5	1/4HEX	1/4HEX	1/4HEX
Model	HDP-5	HDP-50	HDP-100	HDP-5	HDP-50
Bit type (1 bit each)	HIOS Shank (H4) + #0 × 40 mm + #1 × 40 mm + #2 × 40 mm	HIOS Shank (H5) + #0 × 60 mm + #1 × 60 mm + #2 × 60 mm	HEX Shank (1/4HEX) + #1 × 50 mm + #2 × 50 mm	HEX Shank (1/4HEX) + #1 × 50 mm + #2 × 50 mm	HEX Shank (1/4HEX) + #1 × 50 mm + #2 × 50 mm
Support arm				1pc	1pc
Others	● Exclusive battery charger* 1pc P/N:TCH-MULTI  ● Detector cord: 1.7m 1pc P/N:DPC-0506  ● Inspection report 1 copy  * For a battery charger to be used in a country other than Japan, see the battery charger list on P.67.				

● HM Series Standard Accessories

Model	Fidaptor with screw	Buffer spring	Screw	L- wrench	Others
HM-10	P/N:TFM26-Z 1pc (Yellow) 		Replacement screws on the top of fidaptor: 5pcs	1.5mm (1pc)	● Exclusive battery charger* 1pc P/N:TCH-100N  ● Detector cord: 1.7m 1pc P/N:DPC-0506  ● Inspection report 1 copy 
HM-100	P/N:TFM40-Z 1pc (Black) 	P/N:CL65-0040 1pc Measuring range: 0.15 to 0.6 N·m 	HEX socket set screws for fixing: 2 pcs	1.5mm (1pc) & 2mm (1pc)	

* For a battery charger to be used in a country other than Japan, see the battery charger list on P.67.

To customers who use the old models of HP/HDP Series

The exclusive battery charger for the old models of HP/HDP Series (see the photos below) should be TCH-100N, TCH-120N, TCH-230G or TCH-230B. Check your Torque Meter. Please see the battery charger list on P.67.



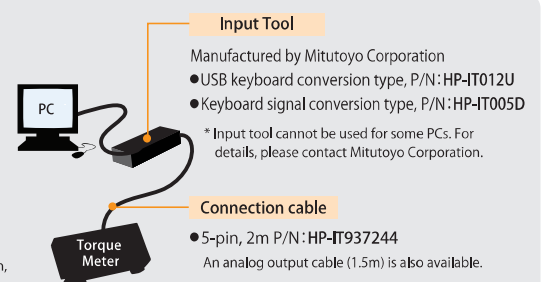
● Fidaptor List of HM Series

Model	HM-10		HM-100
Classification	Standard accessories	Options (to be purchased separately)	Standard accessories
P/N	TFM26-Z	TFM20-Z	TFM40-Z
Measuring range (N·m)	0.15-0.6	0.25 or below	0.5-3
	 (Yellow)	 (Red)	 (Black)
Applicable tip No.	+ #1	+ #0	+ #2
Screw head diameter	M2.6	M2.0	M4.0

About data output

When you output the data, you have to connect the Torque Meter to the input tool to import the output data to a PC. Connect the input tool and the Torque Meter with a cable. You have to purchase the input tool and the cable separately.

* If you have any inquiries about the connection, please contact HIOS distributors.





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Cautions for safety

Cautions for safety. Read the instruction manual carefully before use and operate the screwdriver for its intended purpose. Always use the specified current and voltage.

- Please note the specifications and appearance may change as improvements are made.
- Using copies or reproductions of this general catalog without permission is prohibited.
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