

CITF PA18-039

AT system



AT SYSTEM PRODUCT INTRODUCTION

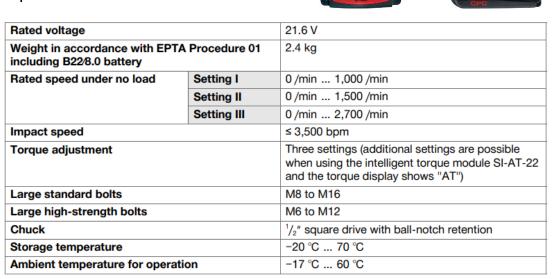
Applicant Name:

Hilti (Hong Kong) Limited

Product Name:

Adaptive Torque System (AT System)

Specification:





 The AT system delivers productive and safer impactbased anchoring and bolting

Technology Used:

Adaptive Torque Control System

Construction Process involved:

Anchor and Bolting Installation

Key Improvement in Construction Process:

- Productivity
- Quality Assurance
- Safety

Job Reference:

- HKAA Airport Project, 2021
- How Ming Street KTIL 240, 2021

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INNOVATIVE FEATURES

Core Technology:

- SIW 6AT-A22 cordless impact wrench: it is compatible with intelligent electronics, a more robust anvil and a sleeker front part which can reach into tighter spaces.
- SI-AT-A22 module which is a small, very light interface which slots in between the impact wrench and battery and crunches live data from the SIW 6AT-A22 to recognize when an anchor has been correctly installed.

SIW 6AT-A22

AT
System

PROFIS
Software

AT documentation
software

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3-IN-1 SYSTEM SOLUTION WITH Hilti Anchor or Bolting

First Launch Date: Jan 2018



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AT SYSTEM ADOPTION EXAMPLE

Project for Illustration: How Ming Street KTIL 240, 2021

Work Process: Anchor Installation

Use/ Function in project: Baseplate Installation





AT SYSTEM BENEFIT -PRODUCTIVITY

	AT SYSTEM	Torque Wrench
	PROFIS software	0.31
Productivity (Stud anchor)	ETA approval to install HILTI anchor—3 seconds only	Need to fasten by impact wrench and finalize the torque with torque wrench – tiring and time consuming
Productivity (Bolting)	30 levels of torque adjustment for bolting application	Need to fasten by impact wrench and finalize the torque with torque wrench – tiring and time consuming
Traceability	Automatically installation record documentation, which can be retrieved from HILTI software for inspection and sharing purpose	Need to record on paper manually – inaccurate and time consuming



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AT SYSTEM BENEFITS – QUALITY

Improve quality by:

Quality Assurance

- Instant acoustic and visual feedback for correct installation
- Reliable and effortless installation in just 3 seconds

AT functionality

- New electronics enable the tool to be used with AT module. Easy access to AT relevant applications
- Built-in algorithm to ensure torque precision in each installation, workmanship error is minimized

More reliability

Improved anvil robustness in order to reduce breakdowns and improve customer satisfaction

Improved accessibility

 Tinier front part of the tool makes SIW 6more suitable in tight spots and reduces friction with base materials



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BENEFITS -SAFETY

Improve Safety by:

Safety. Productivity. Approval.

- SAFESET is Hilti's proven methodology for consistently high-quality anchor installation at lightning speed
- The SIW 6AT-A22, along with the SI-AT-A22 module, fulfills all SAFESET criteria because they save time and reduce costs while also removing scope for installation error
- Generate installation report for easy inspection and recording
- Achieve ETA and ICC-ESR compliance for anchor installation into concrete



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