

METAL DECK INSTALLATION

Structural Steel



DX 9-ENP POWDER-ACTUATED DECKING TOOL



- Revolutionary design—upright working position for high speed of use and long-term user comfort
- Ergonomically designed handle to enhance user comfort
- Adjustable power regulator—precise control for more reliable fastenings
- Easy to clean and maintain on jobsites

Applications

- Fastening metal floor decks to steel structures with a minimum thickness of 6 mm (¼") with X-ENP metal sheet nails for flooring



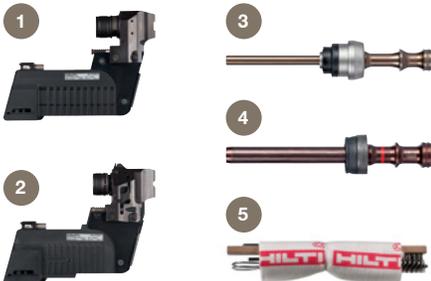
DX 76-MX



- Outstanding ergonomic design—padded, non-slip cycling grip and excellent balance means less fatigue during use
- Built-in safety mechanisms—for safer and more reliable operation
- Easy to clean and maintain on jobsites
- Ruggedly built to withstand the toughest jobsite conditions
- Adjustable power regulator—precise control for more reliable fastenings

Applications

- Fastening metal floor decks to steel structures with a minimum thickness of 6 mm (¼") with X-ENP metal sheet nails for flooring

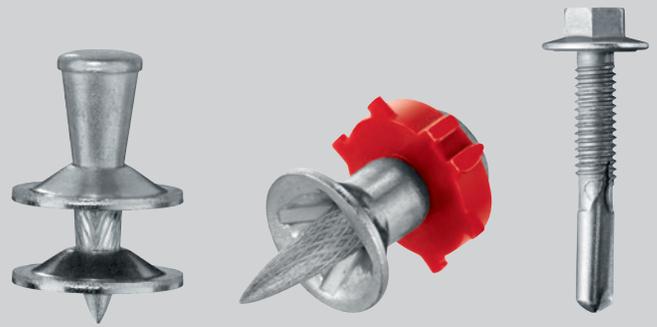


DX 9 ACCESSORIES

1	Nail Magazine MX 9-HSN	For use with DX 9 HSN
2	Nail Magazine MX 9-ENP	For use with DX 9 ENP
3	Piston X-9-HSN Kit	For use with DX 9 HSN
4	Piston X-9-ENP Kit	For use with DX 9 ENP
5	DX 76/860-ENP Cleaning Kit	For use with DX 9 tools

FASTENERS

Deck Installation



DX COLLATED NAILS

- A much faster and safer fastening system compared to welding
- No risk of burn-through—little to no painting rework needed
- Can be used on epoxy-coated or galvanized joists with little risk of zinc fumes
- Performs well in inclement weather conditions

X-HSN 24 ●●●●● Ultimate



Applications

Fastening metal floor decks to steel structures with a minimum thickness of 1/8" to 3/8"

Approvals

- FM
- ICC-ES
- LR
- SDI
- UL



X-ENP 19 ●●●●● Ultimate



Applications

Fastening metal floor decks to steel structures with a minimum thickness of 6 mm (1/4")

Approvals

- FM
- ICC-ES
- LR
- SDI
- UL



M9 COLLATED SCREWS

S-RT5+ M9 ●●●●● Ultimate



Applications

Fastening metal floor decks to steel structures with a minimum thickness of 1/8" to 3/8"

Approvals

- FM
- ICC-ES
- LR
- SDI
- UL



S-RT5 M9 ●●●●● Ultimate



Applications

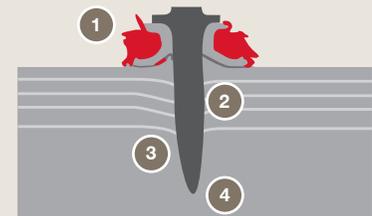
Fastening metal floor decks to steel structures with a minimum thickness of 16 gauge to 1/4"

Approvals

- FM
- ICC-ES
- LR
- SDI
- UL



HOW DOES A NAIL HOLD IN STEEL?



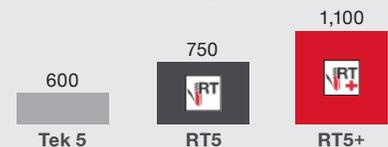
- 1. Clamping:** washer clamps the steel
- 2. Keying:** knurling creates a keying effect
- 3. Brazing or Soldering:** the zinc electro plate creates a brazed or soldering effect to the base steel
- 4. Fusion:** fusion welding created by heat during placement of the nail



- Fastest speed through Racing tip, Zi-Ni Coating and collation
- Best load value through optimized head and screw design
- Optimized design to cover all relevant deck types



Estimated fasteners per hour*

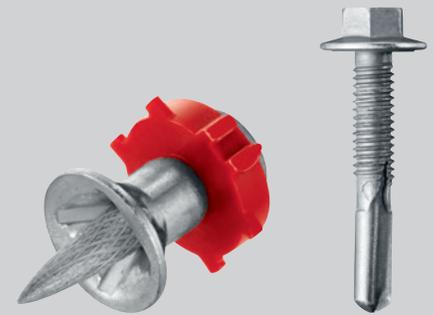


RT5+ screws drill faster and increase productivity on the job.

*Estimated fasteners per hour based on 1 mm sheet metal installed on a 5 mm base steel.

FASTENERS

Deck and Sidelaps Installation



FRAME FASTENER — DX/SCREW FASTENER AND CARTRIDGE SELECTOR

	Fastener	Performance	Base Steel Thickness ¹			
			1/8" to 1/4"	1/4" to 3/8"	3/8" to 5/8"	> 5/8"
Nails	X-HSN 24 	●●●●●● Ultimate 6x speed vs. welding	● Short			
	X-ENP 19 	●●●●●● Ultimate 6x speed vs. welding		● Long	● Long	● Long
Screws	S-RT5+ M9 	●●●●●● Ultimate	✓	✓		
	S-RT5 M9 	●●●●●● Ultimate	✓	✓		

1) S235 Steel, for other contact Hilti.

Not Recommended

SIDELAP FASTENERS — M9 COLLATED SCREWS

	Screw	Gauge	Optimization Possible
SLC	SLC 01	20, 22, 25	✓
	SLC 02	18, 20	✓
Standard	#10-16 x 3/4"	16, 18, 20, 22	N/A
	#12-24 x 7/8"	16, 18, 20, 22	N/A

UTILIZE PROFIS DF OPTIMIZATION FUNCTIONALITY TO:

- Design the most efficient roof and floor decks
- Propose more productive fastening patterns

- Use our SLC sidelap screws in combination with X-HSN nails or S-RT5+ screws to achieve high system load values with fewer fastening points
- SLC technology deforms the steel, instead of cutting it, to create higher load values in laps
- Higher productivity in sidelap applications when used with the Hilti SDT 9 stand-up handle
- User stands upright while driving screws on roofs, helping to reduce user fatigue and increase productivity

Applications

- Fastening overlapping metal sheets under insulated roofs
- Fastening metal sheets to support bar joists



Click images for more information

SHEAR CONNECTORS

HVB System



X-HVB SHEAR CONNECTORS

Economical alternative to stud welding—no expensive equipment required

- No welding—reduces risk of fire and toxic fumes caused by welding to galvanized steel
- Easier inspection—no need for destructive testing, as piston leaves a clear piston mark on top of washer
- No cables or power required—hand-held, powder-actuated system requiring no external power source
- Work in any weather—no need to wait for the rain to stop or the jobsite to dry; Hilti shear connectors can be fastened into place in virtually any weather



HVB SYSTEM COMPONENTS

1	DX 76-MX	Tool
2	X-76-F-HVB	Fastener guide for HVB shear connectors
3	Piston X-76-P-HVB	Piston for DX 76 for HVB shear connectors
4	HVB Element	Shear element, various sizes
5	X-ENP-21 HVB	Single nail for shear connectors
6	6.8/18 M10	M10 .27 caliber long cartridge

SOFTWARE AND SERVICES



PROFIS DF DECK DESIGN SOFTWARE

- Design quality steel deck fastening systems in less time
- Hilti PROFIS DF Diaphragm software is designed to help select the optimum Hilti fastening solutions for your decking project
- Just input data—including the design method, relevant loads, deck type, support construction—and Hilti PROFIS DF Diaphragm will calculate the fasteners and systems for your project



HILTI CONNECT

Hilti's construction app brings tool services to your fingertips

Hilti Connect is an app that allows you to do the following on the jobsite and in the office:

- Identify tools—save time looking for tools by digitally connecting to your Hilti tools via NFC and Bluetooth
- View tool information and repair history—access valuable information about your Hilti tools to help you make the best cost decisions for your business
- Submit tools for repair—save time by seamlessly processing repairs for your tools right from your smartphone



TOOL FLEET MANAGEMENT

Optimize your tool crib to help keep your people, projects and business running at peak performance

- All-Inclusive Repairs
- Fixed Monthly Costs
- Theft Coverage
- Loaner Tools
- Tool Upgrades
- Tool Inventory and Labeling
- Tools on Demand