



POP[®]

POP NUT[®] **Pressure Controlled** **Power Tools**

***Automatically adjusts the stroke
as the material thickness varies
in the application***

POP NUT[®] "PC" (Pressure Controlled) Threaded Insert Power Tools are manufactured to set an extensive range of Emhart Technologies' POP NUT Blind Rivet Nuts. The unique 'pressure control' feature will automatically adjust the stroke needed to install the inserts in applications with varying thicknesses.

The spin-pull to pressure technology will thread the insert while pushing it into the mandrel and will automatically unthread the insert after being set. With a smooth and quiet 2 sec. installation cycle time, the POP NUT-PC Tools reduce installation cost and improve productivity. Both PC tools are rugged and dependable yet, ergonomic and lightweight and ideal for industrial applications.

The PNT800L-PC model will set blind steel rivet nuts from 10-24/10-32 to 3/8-16 (M5 to M10); the PNT1000L-PC model tool will set the upper range of blind steel rivet nuts from 1/4 - 20 to 1/2 - 13 (M6 to M12).

Features & Benefits:

● **Performance**

- Spin-Pull-Spin-to pressure technology
- One adjustment for various thicknesses within grip range
- Push-to-start thread on mandrel
- Single trigger operation
- Quick release mandrel system
- 2 sec. cycle time

● **Ergonomic**

- Quiet operation
- Light weight
- Hook for tool suspension

Quick installation cycle



Pressure Controlled
Valve Adjustment



Auto adjustment for
varying thicknesses



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Emhart[®]
Teknologies
POP[®]

PNT800L-PC Power Tool

PNT800L-PC

The PNT800L-PC is a spin-pull to pressure POP NUT tool that can install the full thread size range of the TK, TL and TH products. It features a push to thread on mandrel, and an auto adjust stroke as the material thickness varies. The PNT800L-PC also features a quick release mandrel system, one step trigger and reverse override button.



PNT800L-PC Specifications:

- Installs: 20 parts per minute
- Weight: 4 lbs (1.81 kg)
- Stroke: 0.05 - 0.335 in (1.3 to 8.5 mm)
- Pull Force: 4590 lbf @ 87 psi (20.4 kN @ 6 bar)
- Pressure: 72.5 - 87 psi (5-6 bar)
- Noise Level: 72.7 dB(A)

PNT800L-PC Tool to install TK, TL, TH with Pilot Nosepiece

Thread Size	Complete Tool*	Mandrel	Pilot Nosepiece
INCH			
6-32UNC	PNT800L-PC-632P	PNT600-01-632	PNT600-02-3P
8-32UNC	PNT800L-PC-832P	PNT600-01-832	PNT600-02-4P
10-24UNC	PNT800L-PC-1024P	PNT600-01-1024	PNT600-02-5P
10-32UNF	PNT800L-PC-1032P	PNT600-01-1032	PNT600-02-5P
1/4-20UNC	PNT800L-PC-420P	PNT600-01-420	PNT600-02-420P
5/16-18UNC	PNT800L-PC-518P	PNT600-01-518	PNT600-02-8P
3/8-16UNC	PNT800L-PC-616P	PNT600-01-616	PNT600-02-10P
METRIC			
M4x0.7	PNT800L-PC-4P	PNT600-01-4P	PNT600-02-4P
M5x0.8	PNT800L-PC-5P	PNT600-01-5P	PNT600-02-5P
M6x1	PNT800L-PC-6P	PNT600-01-6P	PNT600-02-6P
M8x1.25	PNT800L-PC-8P	PNT600-01-8P	PNT600-02-8P
M10x1.5	PNT800L-PC-10P	PNT600-01-10P	PNT600-02-10P

PNT800L-PC Tool to install ST with Flat Nosepiece

Thread Size	Complete Tool*	Mandrel	Flat Nosepiece
INCH			
8-32UNC	PNT800L-PC-832R	PNT600-01-832	PNT600-02-832
10-24UNC	PNT800L-PC-1024R	PNT600-01-1024	PNT600-02-5
10-32UNF	PNT800L-PC-1032R	PNT600-01-1032	PNT600-02-5
1/4-20UNC	PNT800L-PC-420R	PNT600-01-420	PNT600-02-420
5/16-18UNC	PNT800L-PC-518R	PNT600-01-518R	PNT600-02-8
3/8-16UNC	PNT800L-PC-616R	PNT600-01-616R	PNT600-02-10
METRIC			
M4x0.7	PNT800L-PC-4	PNT600-01-4	PNT600-02-4
M5x0.8	PNT800L-PC-5	PNT600-01-5P	PNT600-02-5
M6x1	PNT800L-PC-6	PNT600-01-6P	PNT600-02-6
M8x1.25	PNT800L-PC-8	PNT600-01-8	PNT600-02-8
M10x1.5	PNT800L-PC-10	PNT600-01-10A	PNT600-02-10

(*)Complete tool includes mandrel and nosepiece. **Note:** Base tool available w/o mandrel or nosepiece; Order P/N PNT800L-PC-T

PNT1000L-PC Power Tool

PNT1000L-PC

The PNT1000L-PC is a heavy-duty spin-pull to pressure POP NUT tool. It features a push to thread on mandrel, and an auto adjust stroke as the material thickness varies, quick release mandrel system, one step trigger and reverse override button. This heavy duty tool is designed to set larger size blind rivet nuts from 1/4 - 20 to 1/2 - 13 (M6 to M12).



PNT1000-L-PC Specifications:

- Installs: 20 parts per minute
- Weight: 6.1 lbs (2.77 kg)
- Stroke: 0.05 - 0.413 in (1.3 mm - 10.5 mm)
- Pull Force: 6550 lbf @87 psi (29.2 kN @ 6 bar)
- Pressure: 72.5 - 87 psi (5-6 bar)
- Noise level: 80.3 dB(A)

PNT1000L-PC Tool to install TK, TL, and TH with Pilot Nosepiece

Thread Size	Complete Tool*	Mandrel Adapter	Mandrel	Pilot Nosepiece
INCH				
1/4-20UNC	PNT1000L-PC-420P	PNT1000-58	PNT600-01-420	PNT1000-02-420P
5/16-18UNC	PNT1000L-PC-518P	PNT1000-58	PNT600-01-518	PNT1000-02-8P
3/8-16UNC	PNT1000L-PC-616P	NR	PNT1000-01-616	PNT1000-02-10P
1/2-13UNC	PNT1000L-PC-813P	NR	PNT1000-01-813	PNT1000-02-813P

METRIC

M6x1	PNT1000L-PC-6P	PNT1000-58	PNT600-01-6P	PNT1000-02-6P
M8x1.25	PNT1000L-PC-8P	PNT1000-58	PNT600-01-8P	PNT1000-02-8P
M10x1.5	PNT1000L-PC-10P	NR	PNT1000-01-10P	PNT1000-02-10P
M12x1.75	PNT1000L-PC-12P	NR	PNT1000-01-12P	PNT1000-02-12P

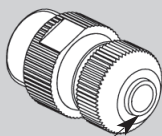
PNT1000L-PC Tool to install ST with Flat Nosepiece

Thread Size	Complete Tool*	Mandrel Adapter	Mandrel	Flat Nosepiece
INCH				
1/4-20UNC	PNT1000L-PC-420R	PNT1000-58	PNT600-01-420	PNT1000-02-420
5/16-18UNC	PNT1000L-PC-518R	PNT1000-58	PNT600-01-518R	PNT1000-02-8
3/8-16UNC	PNT1000L-PC-616R	NR	PNT1000-01-616R	PNT1000-02-10
1/2-13 UNC	PNT1000L-PC-813R	NR	PNT1000-01-813	PNT1000-02-813

METRIC

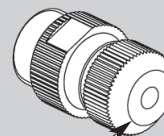
M6x1	PNT1000L-PC-6	PNT1000-58	PNT600-01-6P	PNT1000-02-6
M8x1.25	PNT1000L-PC-8	PNT1000-58	PNT600-01-8	PNT1000-02-8
M10x1.5	PNT1000L-PC-10	NR	PNT1000-01-10A	PNT1000-02-10
M12x1.75	PNT1000L-PC-12	NR	PNT1000-01-12A	PNT1000-02-12

Nosepiece styles for both PNT800L-PC and PNT1000L-PC



Pilot Nosepiece

The POP NUT TK, TL and TH fasteners require a nosepiece with a pilot. The pilot keeps the POP NUT centered on the tool nosepiece assuring that the POP NUT is installed with the thread being concentric to the head.



Flat Nosepiece

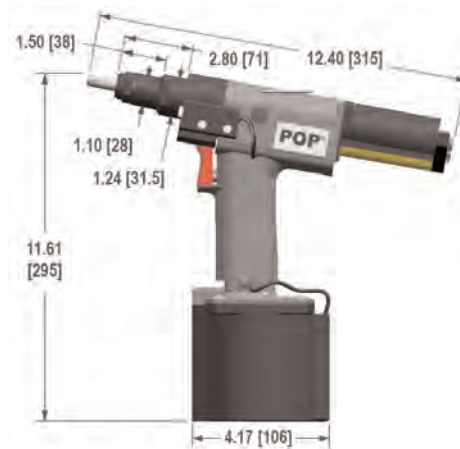
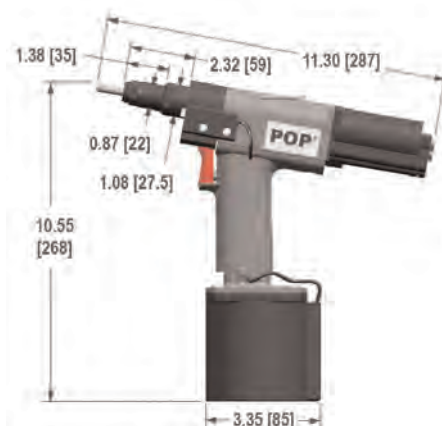
The POP NUT ST is a flat head thick walled product that requires a flat nosepiece for proper installation.

(*)Complete tool includes mandrel, adapter and nosepiece. **Note:** Base tool available w/o mandrel or nosepiece; Adapter included; Order P/N PNT1000L-PC-T
NR = Not Required

POP®**POP NUT®**
Pressure Controlled
Power Tools

PNT800L-PC

PNT1000L-PC



Specifications

Feature	PNT800L-PC-T	PNT1000L-PC-T
Weight	4.0 lb (1.81 kg)	6.1 lb (2.77 kg)
Overall length	11.3 in (287 mm)	12.4 in (315 mm)
Overall height	10.55 in (268 mm)	11.61 in (295 mm)
Tool Stroke	0.05 – 0.335 in (1.3 – 8.5 mm)	0.05 – 0.413 in (1.3 – 10.5 mm)
Pulling Force	4,590 lbf @ 87 psi (20.4 kN @ 6 bar)	6,550 lbf @ 87 psi (29.2 kN @ 6 bar)
Air Supply	72.5 – 87 psi (5 – 6 bar)	72.5 – 87 psi (5 – 6 bar)
Tool Noise Level	72.7 dB(A)	80.3 dB(A)
Tool Vibration Level	0.42 m/s ² Time to 2.5 m/s ² > 24hrs (EAV)	0.40 m/s ² Time to 2.5 m/s ² > 24hrs (EAV)

Tool Capacity

Material	POP NUT® Thread Size					
	8-32 (M4)	10-24/ 10-32 (M5)	1/4-20 (M6)	5/16-18 (M8)	3/8-16 (M10)	1/2-13 (M12)
Aluminum			●	● ■	● ■	-
Steel		●	● ■	● ■	● ■	■
Steel RLT Insert	●	●	● ■	● ■		
Stainless Steel	●	●	● ■	● ■	■	

● PNT800L-PC

■ PNT1000L-PCL-PC

POP® SmartSet® Process Monitoring System

SmartSet® is a process monitoring device which can be used for evaluating and monitoring a POP NUT® threaded inserts riveting cycle.

Features & Benefits

Application Capability

- Detects use of incorrect insert
- Detects inserts set in error
- Captures key insert setting inconsistencies

System Capability

- Threaded insert accountability
- Application sequencing
- Programming multiple thicknesses
- I/O communication availability (PLC compatible)
- User define Go and NO GO signal output
- Optional Windows based data logging software is available



Americas

Emhart Technologies
P.O. Box 859
50 Shelton Technology Center
Shelton, CT 06484 USA
Tel: (877) EMHART-1
Fax: (800) 225-5614

Canada: (514) 351-0330
Brazil: + 55 11 3871-6460
México: + 52-55-5326-7100

Europe

Emhart Technologies
177 Walsall Road, Perry Barr
Birmingham, B42 1BP, UK
Tel: +44 (0) 121 331-2460
Fax: +44 (0) 121 356-1598

Asia Pacific

Emhart Technologies
Shuwa Kioicho Park, Bldg 3F
3-6 Kioicho, Chiyoda-Ku
Tokyo 102-0094, Japan
Tel: +81 (03) 3265-7291
Fax: +81 (03) 3265-7298

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