CULLEN   GANG-NAIL   TOOLMATIC®   Paslode

Brands for the offsite industry

Automated Panel Manufacturing Solutions
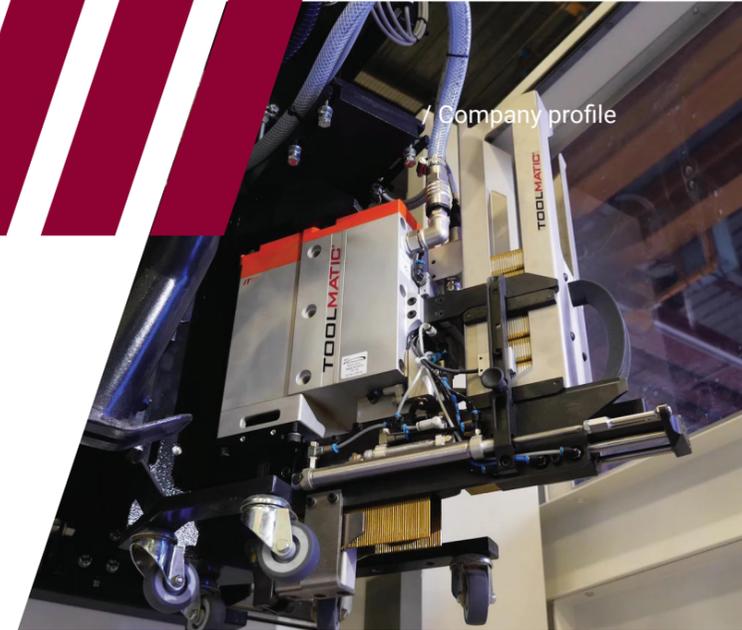
Timber Frame

ITW CONSTRUCTION PRODUCTS

Contents

Company profile

Illinois Toolworks Inc. (NYSE: ITW)

ITW is a Fortune 200 global multi-industrial manufacturing leader. The company's seven industry-leading segments leverage the unique ITW Business Model to drive solid growth in markets where highly innovative, customer-focused solutions are required.

ITWs products and solutions are at work all over the world, in deep-sea oil rigs, aerospace technology, the spaces in which we live and work, the construction of those spaces, the cars we drive, and the mobile devices we rely on.

ITW is committed to operational excellence and systematic new product development that helps our customers create the products and services that make their operations run smoothly.

ITW Construction Products Offsite

ITW Construction Products Offsite is part of the Illinois Toolworks family, an international corporation with over **100 years in the building and manufacturing industry**.

We are a **trusted partner to leading offsite component manufacturers**, allowing our customers to design, manufacture and sell the highest quality roof, floor and wall components.

Our collaborative and problem-solving approach ensures we remain a leader in technology, research and development – providing innovative solutions, support and superior service with market leading brands: **Cullen**, **Gang-Nail**, **Paslode** and **Toolmatic**.

TOOLMATIC

Our German engineered innovative Toolmatic range of tools brings major benefits in reliability, durability, high speed and long service intervals. **Toolmatic tools are designed specifically for automation with only one air feed and one power line to attach**. This simplifies attachment and eliminates the mess of wires required for modified hand tools. Toolmatic automated fastenings allows us to create a solution geared to the precise requirements of each production line, from a wide range of optional features and fastener systems. This maximises productivity, whilst eliminating the cost of unnecessary features.

Paslode

Internationally renowned and highly regarded, Paslode has been at the heart of the revolution of hammer-free fixing and nailing for 80 years. By combining the specialist capabilities of our Paslode range with our unique Toolmatic solution for automated fastening we are able to offer a wide range of pneumatic tools and fasteners. Our German engineered Paslode range meets the needs of the timber frame, modular, volumetric, roof truss and engineered floor manufacturer.

Members of PFA TRUSSED RAFTER ASSOCIATION STRUCTURAL TIMBER ASSOCIATION
Building offsite solutions in timber

About Toolmatic

A high degree of prefabrication is playing an increasingly important role in construction nowadays.

Toolmatic is the brand for the production of high-quality large-scale timber construction. State-of-the-art systems, these devices are used in automated processes where panel materials are fastened with fixings or stud framing – should be fastened with a market leading Paslode range of fixings/ studframing. **The possibility of combining different Toolmatic components with our Paslode range means that optimal, customer-specific solutions can be offered**.

How Toolmatic solutions add value	
Simplification	Toolmatic tools are designed specifically for **automation simplifying attachment** and eliminating mess of wires needed for modified hand tools.
Precision	Toolmatic automated tools help deliver a perfectly balanced solution geared to the precise requirements of each production line activity **ensuring consistent spacings, accuracy of position and depth of required fixing**.
Minimizing Downtime	**All mechanical characteristic are designed to extend service intervals to minimise downtime and keep you running**.
Quality	Toolmatic pistons are PTFE/copper alloy sealed requiring no lubrication and ensuring clean operation eliminating maintenance downtime, reducing wear and tear and avoiding damage. The tools re-cycle exhaust air to cool the bumper. **This enables quicker fastening rates**.
Time saving	Toolmatic tools are "ready to mount" with appropriate fixing brackets. **No unnecessary time or cost is wasted**. We forge partnerships together with automated line manufacturers and timber framers.
Health and Safety benefits	Since Toolmatics tools are designed for automation, there is minimal risk for injuries, resulting in an overall safer work environment. The tools work incredibly efficiently and **lower the noise level** significantly compared to manual production which is an added benefit in creating a healthier and safer work environment for employees.

Overview

Overview

ITW Construction Products is internationally renowned as an **innovator and leader in the manufacturing of automated fastening solutions for timber frame construction**.

We offer a wide range of pneumatic tools and toolmatic solutions for fasteners, that meet the needs of the timber frame, roof truss and engineered floor manufacturer.

Benefits of using Toolmatic solution

Toolmatic brings major benefits in **reliability**, **durability**, **high speed and long service intervals**. These tools are reliable due to the high precision hand built assembly in Germany. We provide onsite Toolmatic training and offer spare parts specific to each tool.

We work continually to advance our German engineered Toolmatic range with current market requirements. Designed for offsite customers with influence from leading manufacturers coupled with ITW's knowledge and flexible solutions, **we have the tools to meet the needs of timber frame manufactures**.

Benefits of using Paslode Pneumatic Nailing

For all your timber construction needs. Paslode is internationally renowned. Over many years the Paslode brand has built an enviable reputation for delivering best-in-class nailing systems, revolutionising construction methods and **maximizing product quality, reliability and offsite safety**.

What makes us unique

Our products have made a name for themselves by holding positions in niche markets where ITW technology can address customers' unique needs like higher global standards for safety and energy efficiency as well as the growth of offsite construction projects.

We are a fully integrated supply partner for all things related to the offsite and prefab industry in U.K, Ireland and Nordics.

With an experienced technical team, premium fixings and our own metalwork brand, **we are the only company that can provide a holistic service for all your truss, panel, joist and metalwork needs**.

Service offer

With dedicated professional service centres in the UK and Europe we're able to offer local supply that's backed by international support.

About Paslode

About Paslode

Founded in 1935, Paslode has become the world's leading manufacturer of timber to timber fastening systems.

Over many years the Paslode brand has built an enviable reputation for delivering best-in-class nailing systems, revolutionising construction methods and reducing labour time whilst increasing product reliability.

With in-house European production plants, rigorous quality control measures and supply chain assurances, Paslode boasts a high-quality tool and consumable manufacturing, providing subsequent peace of mind for customers when using their products.

Benefits

GREAT SERVICE OFFER > **RELIABLE** > **FLEXIBLE** > **QUALITY**
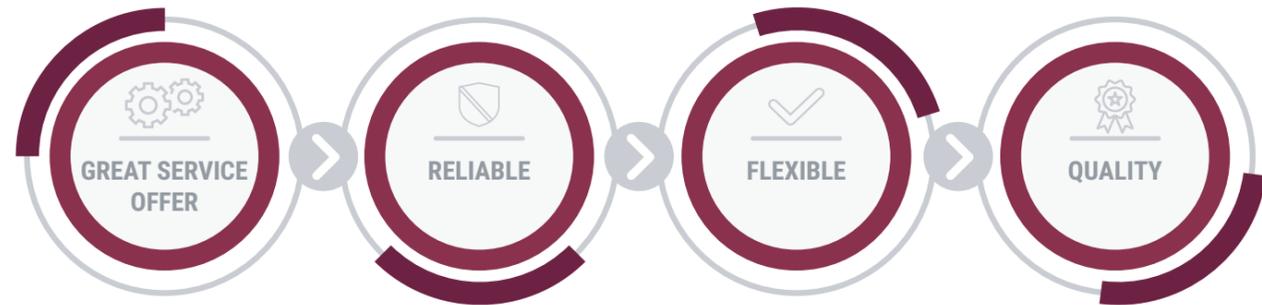
> ITW always provides a **high level of service.**

Service

Experience

We remain a leader in technology, research and development, regularly collaborating along the value chain. **We are constantly working with construction experts to create future-proof and innovative compliant solutions that increases productivity and solves industry problem**.

With more than a 100 years of experience in manufacturing globally, our ITW staff are highly trained and experienced in providing high-quality service to customers.

Service Team

We recognise that outstanding service is crucial in the construction industry and can assure a positive experience from a dedicated team of experts. With our service team, you are fully supported by our highly qualified technical teams. With decades of experience, our technical experts are ready to offer assistance in timber engineering related matters.

Our skilled professionals are not only experts within ITW, but they also play a **leading role in the industry's representative bodies across the globe**.

What makes us unique is that we have technical team members who are constantly involved in **finding and developing innovative solutions to future challenges** with these industry bodies. Assisting and driving the creations and updates for building legislation and standards.

Toolmatic 0 Degree
Plastic Collation Tools & Fixings

Plastic collation Toolmatics are the market leading tool option for automation.

CT550

CT850

Benefits

CT550	CT850	Applications
Reliable, quick, larger coil capacity, no lubrication required	Pusher system technology	Timber framed sheathing
Compact body, large air buffer for faster nailing	Very quiet, holds board to frame for enhanced fixing to frame and air tightness (0.1mm)	Timber framed Cladding
		Plasterboard* CT-850

Zero Degree Plastic Coil Nailer – IN Collation

Description	Nail Dia – mm	Nail Length – mm	Magazine Capacity	Degree	Nails per second	Air pressure (bar)	Tool Weight – Kg	Air Consumption
CT-550 Coil Nailer	2.5-2.9	50-65	1200	0	6	5 to 8	6.5	2.5
CT-850 Coil Nailer	2.5-2.9	50-65	1200	0	1	5 to 8	10	2.5

Fixings – Plastic Coil Collation

Code	Dia – mm	Length – mm	Shank Type	Point	Head Dia – mm	Finish	Service Class	Pallet Qty
395456	2.9	50	Smooth	Diamond	5.6	EG 12	2	36

Toolmatic Stapling & Staples

The Toolmatic stapler range is designed from smaller volume use with ease of loading to the higher volume where the advantage of large magazine capacities play a crucial role in minimized downtime.

These flexible tools operate through 360 degrees and can be used on bridges and on modern robotic arms.

S210

S220

S540

Tools								
Description	Crown	Length – mm	Magazine Capacity	Degree	Speed per Second	Air pressure (bar)	Tool Weight – Kg	Air Consumption
S-210 Stapler	12.9	10 to 14	560	0	5	5 to 8	1.8	0.4
S-220 Stapler	12.9	10 to 14	5000	0	6	6 to 8	4.3	0.45
S-540 Stapler	11.3	50 to 65	2500	0	8	5 to 8	11	2.5

Fixings – Staples							
Code	Crown	Length – mm	Point	Finish	Service Class	Strip Qty	Box Qty
503037	12.9	8	Chisel	Stainless	3	84	160,000
574943	11.3	50	Chisel	12	2	75	5,400
574947	11.3	63	Chisel	12	2	75	5,400

Benefits

S210	S220	S540
Simple and easy to load tool, robust and relaible	Compact tool, robust and reliable	High Speed fastening, robust and reliable
Low profile and compact, large air buffer for high speed fastening	Can be used through 360 degrees	Cassette magazines can be preloadedwith fixings and swapped over quickly
		Minimizing downtime

Applications		
S210/220	Breather membrane	House wrap
S540	Timber framed sheathing	Timber framed cladding

Toolmatic 34 Degree
Paper Collation Tools & Fixings

The RTM-PSN100.1 and RTM-PFS160 Paslode tools can be expertly enhanced for automated stud framing.

RTM-PSN100.1

RTM-PFS160

Benefits

RTM-PSN100.1/RTM-PFS160	Applications
Durable, fast and robust tool	Timber stud framing
Extended magazine top up during operation	Timber sub components
Very reliable	

Tools								
Description	Nail Dia – mm	Nail Length – mm	Standard Magazine Capacity	Degree	Speed per Second	Air pressure (bar)	Tool Weight – Kg	Air Consumption
PSN100.1 RTM Strip Nailer	3.1	75-90	180* Different magazine lengths are available	34	1	5 to 8	6.5	2.7
PFS-160 RTM Strip Nailer	3.8	130	168	34	1	5 to 8	15	3.81

Fixings – Paper Strip								
Code	Dia – mm	Length – mm	Shank Type	Point	Head Dia – mm	Finish	Service Class	Pallet Qty
140258	3.1	90	Ring	Diamond	7.6 - DH	12	2	48
140559	3.8	130	Ring	Diamond	7.8 - DH	12	2	60

Paslode 0 Degree
Plastic Collation Tools & Fixings

Our premium plastic coil system.

CNP65

Benefits

Our premium plastic coil system	Key applications
No waste debris during installation	Timber frame sheathing
Tool free depth adjustment	Offsite Cladding
Lightweight Magnesium housing	Floor decking/cassettes
Transparent magazine allows visual on remaining nails	
Compact and well balanced tool	
Ergonomic handle	

Accessories	
Code	Description
403720	Pneumatic tool oil spray

Tools										
Code	Description	Actuation	Nail Dia – mm	Nail Lengths – mm	Magazine Capacity	Air pressure (bar)	Weight Kg	Vibration – EN ISO 8662-11	Sound Pressure Level	Air Consumption
575186	CNP50.1	Sequential	2.5-2.9	50	325	5 to 8	2.1	2.5	82	1.28
505706	CNP65.1	Sequential	2.5-2.9	50-65	325	5 to 8	2.1	2.8	76	1.7

Fixings – Plastic Coil										
Code	Dia – mm	Length – mm	Shank Type	Point	Head Dia – mm	Finish	Service Class	Coil Qty	Box Qty	Pallet Qty
313403	2.7	50	Ring	Diamond	5.6	EG 12	2	325	9750	36
313439	2.9	50	Smooth	Diamond	5.6	EG 12	2	300	9000	36
313405	2.7	65	Ring	Diamond	5.6	EG 12	2	300	7800	36
391068	2.5	50	Ring	Diamond	5.6	Stainless	3	325	9750	36

Paslode 34 Degree
Paper Collation Tools & Fixings

Paper collation tools for standard framing and positive placement applications.

PSN100	PFS160	F250S
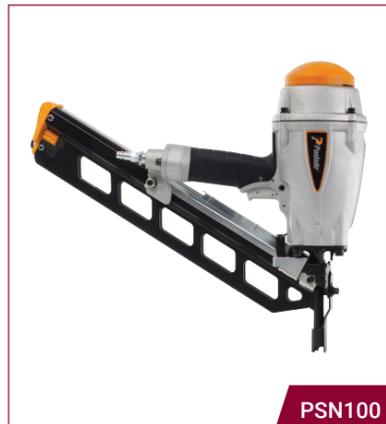
Benefits

PSN100/PFS160	Key applications PSN and PFS	F250S	Key applications F250S
Durable, fast and robust tool	Timber wall studs	Fast Hole Locator Probe for increased safety, working comfort & perfect finish	Structural metalwork
Powerful nailer specifically for driving nails up to 100mm ring	Cladding	Up to 3-5 times faster than hand hammering	Joist Hangers, straps & clips
Perfect balance and over moulded grip for comfort in extended use	Trusses	Depth of drive adjustment for correct finish of work	Floor metalwork including floor cassettes
Quiet	Floors	Capable of driving 60mm nails in C24 classified wood	Roof metalwork including roof cassettes

Accessories	
Code	**Description**
403720	Pneumatic tool oil spray

Tools										
Code	Description	Actuation	Nail Dia – mm	Nail Lengths – mm	Magazine Capacity	Air pressure (bar)	Weight Kg	Vibration – EN ISO 8662-11	Sound Pressure Level	Air Consumption
502900	PSN100.1	Sequential	2.8-3.2	51-98mm	90	5 to 8	3.9	3.5	85.1	2.7
576867	PFS160	Sequential	3.8	110-160mm	56	5.5 to 8.3	7.1	6.2	97	3.84
500855	F250S PPN NAILER	Sequential	3.4	35mm	48	5 to 8	4	3	86.8	2.9

Fixings – paper strip nails for PSN100 and PFS160									
Code	Dia – mm	Length – mm	Shank Type	Point	Head Dia – mm	Finish	Service Class	Strip Qty	Box Qty	Pallet Qty
141002	2.8	51	Ring	Diamond	7.3 – DH	12	2	43	8000	48
141052	2.8	63	Ring	Diamond	7.3 – DH	12	2	43	6000	48
141007	3.1	75	Ring	Diamond	7.3 – DH	12	2	40	4600	48
140258	3.1	90	Ring	Diamond	7.6 – DH	12	2	38	3800	48
140559	3.8	130	Ring	Diamond	7.8 – DH	12	2	28	1120	60

Fixings – Positive Placement F250S PPN									
Code	Dia – mm	Length – mm	Shank Type	Point	Head Dia – mm	Finish	Service Class	Strip Qty	Box Qty	Pallet Qty
140588	3.4	35	Screw	Diamond	8 – FH	12	2	23	3000	75

Paslode Stapling & Staples

Staplers for your hand held stapling requirements.

LDS5016

PN765

Benefits

LDS5016	Key applications for LDS5016	PN765	Key applications PN765
Industrial quality stapler for fine wire staples	Breather membrane	Robust heavy duty stapler for heavier gauge staples	Sheathing
Lightweight and well balanced with rubber handgrip for comfort	House wrap	Top loading	Plasterboard
High visibilty nose piece		Depth adjustment	

Accessories	
Code	**Description**
403720	Pneumatic tool oil spray

Tools									
Code	Description	Actuation	Staple lengths – mm	Magazine Capacity	Air pressure (bar)	Weight Kg	Vibration – EN ISO 8662-11	Sound Pressure Level	Air Consumption
394962	LDS5016 stapler	Sequential	10-14	100	4 to 6	0.9	1.1	84.3	0.13
574514	PN765 stapler	Sequential	50-63	140	5 to 8	2.9	2.1	91.6	1.6

Fixings – Staples								
Code	Crown – mm	Length – mm	Point	Finish	Service Class	Strip Qty	Box Qty	Pallet Qty
391330	12.5	10	Chisel	Stainless	3	84	50,000	60
574943	11.25	50	Chisel	12	2	75	5400	96
574947	11.3	63	Chisel	12	2	75	5400	90

Paslode Brad & Plasterboard & Corrugated Fastener Tools & Fixings

The Paslode LCP65.1 tool has been designed for use with plasterboard work, spandrel and gable panel manufacturing in an Offsite enviroment.

LCP65.1

WN15

Benefits

LCP65.1/WN15	Key applications LCP65.1	Key applications WN15
Light, well balanced and easy to use tool	Plasterboard/Drywall	Flexible timber jointing uses
High nail capacity	Spandrel panels	Timber boxes
Tool free depth adjustment for an accurate finish	Gable panels	Trusses

Accessories	
Code	Description
403720	Pneumatic tool oil spray

Tools										
Code	Description	Actuation	Fixing Dia – mm	Fixing Lengths – mm	Magazine Capacity	Air pressure (bar)	Weight Kg	Vibration – EN ISO 8662-11	Sound Pressure Level	Air Consumption
575900	LCP65.1 Nailer	Sequential	2.5 to 3.8	32 - 65	150	5 to 8	2.4	4	74.6	1.7
503639	WN15 Corrugated Fastener tool	Contact	25	13	126	5 to 7.5	2.3	3.1	82	1.1

Fixings – Plastic Coil – Drywall / Plasterboard										
Code	Dia – mm	Length – mm	Shank Type	Point	Head Dia – mm	Finish	Service Class	Coil Qty	Box Qty	Pallet Qty
123880	3.8	55	Screw	Stainless	8	5	1	150	4500	n/a
140616	2.5	50	Diamond	12	6.8	5	1	150	900	36
395635	2.5	65	Diamond	12	6.8	5	1	150	3600	36

Fixings – Corrugated Fasteners								
Code	Crown – mm	Length – mm	Type	Finish	Service Class	Strip Qty	Box Qty	Pallet Qty
120811	25	13	Straight	5	1	50	14,000	n/a

Brands for the Offsite Industry

About Cullen

Cullen Timber Engineering Connectors have been synonymous with innovation. Chosen for the highest quality and compliance, our range of timber engineering solutions will become a mainstay of your most valued business assets.

About Gang-Nail

Gang-Nail is re-defining offsite component productivity with its metal connecting systems and software raising industry standards for the manufacture of floor, roof and wall solutions.

The Gang-Nail brand of punched metal plate connectors and metal open web; SpaceJoist and SpaceRafter, is continuously chosen for its reliable quality and compliance.

About Paslode Gas

Paslode premium nails are manufactured to perfectly accompany your handheld Paslode tool, providing consistent optimised fixing performance, delivering a clean, flush finish even in the toughest materials and poor weather conditions.

The 360Xi and IM350+ Framing systems provide professional users with the best in class solutions for wood to wood fixings whilst the PPNXi is the 1st positive placement nailer on the market, providing an efficient and safe way of installing hangers, brackets and straps.

About Toolmatic

With our German engineered Toolmatic range you'll experience next level quality, productivity and service.

Known as the brand for the production of high-quality large-scale timber construction, Toolmatic automated fastenings maximises productivity, whilst eliminating the cost of unnecessary features.

**Automated Panel Manufacturing Solutions
Timber Frame**

January 2022*

*Subject to change at discretion
of ITW Construction Products Offsite

**CONSTRUCTION
PRODUCTS**