



Since 1948

# Genuine Patz Chain

## The Best Just Got Better!



# The Patz® Link...

your guarantee of quality and reliability

Patz has been the industry leader in gutter cleaner chain ever since Paul Patz invented and patented the hook-and-eye link chain in 1948. But we didn't stop there. With precise state-of-the-art processes and new technology,

### The Best Just Got Better!

**THE ORIGINAL PATZ HOOK-&EYE CHAIN IS NOW THE BEST WE'VE EVER OFFERED!**

#### Here's why:

- **Superior raw materials!** Special alloy steels are stronger, tougher, more wear-resistant!
- **Improved closed-die forging** to close tolerances never before seen in hook-and-eye chain provides more uniform chain and components that fit together better for smoother operation.
- **Heat treated** using precise state-of-the-art processes for maximum wear and longevity!
- Manufactured to meet **the highest world-class quality standards** to provide you with the best product ever offered by Patz.
- **Tests have proven and validated the superior performance** of the Patz Chain compared to others on the market.



#### Built to last!

Patz links are designed with the strength to match the high power output of Patz drive units. Even after years of service, Patz chain has strength to spare!

Patz links and flites are inspected to maintain exceptional quality standards, giving you the proven Patz reliability and longer service life.

The enlarged eye area of the Patz link provides increased chain flexibility. Hook two Patz links together and see the 90° flexibility in any direction. Patz chain goes around corners easily and can make a "U" turn on a 4-tooth sprocket. You get more flexibility to fit complicated layouts.

Optional powder coating retards corrosion.

#### Patz Chain is a true forging!

**Patz chain is manufactured using the most advanced closed-die forging methods for maximum strength, uniformity and consistency in every link.**

**Closed-die forging** refines the grain structure and develops the optimum grain flow, maximizing impact toughness, fracture toughness and fatigue strength. **Patz Chain is not a casting.**

# Patz® Flites



**Wider wear shoe on flites more than doubles surface wear area.**

#### Two types of flites to meet your needs:

- **The Model 467 flite** is four inches high at the end of an 18-inch (457 mm) flite. The added height helps prevent material rollback and carries more material. Also, the leading edge of the flite extends under the link to give you wall-to-wall conveying.
- **The Model 447 flite** is made from 2"x 2" (51 mm) angle steel. Patz flites can be spaced 12", 18" or 24" (305 mm, 457 mm, 610 mm) apart on the chain. Flite spacing can be changed easily at any time. Flites are available for right-hand or left-hand drive units. Optional powder coating retards corrosion.

**Just as valuable as the Patz link is the special design of the Patz flites, giving you a double bonus when you use Patz chain.**

The Patz wear shoe is the key to extra service life. This big 1/2" (13 mm) thick by 2" (51 mm) wide by 3-1/4" (83 mm) long Patz wear shoe prolongs flite life and protects the gutter or trough floor.

With a full 1/4" (6 mm) thickness, Patz flites provide maximum strength and durability.

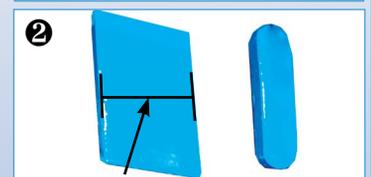
Patz flites are welded to the link at an angle to prevent binding against the sides while allowing close tolerance. And when material drops off the slide, the angle of the flite pushes material toward the outside, away from the slide beam and sprocket.

#### Rectangular vs. Oval Wear Shoe

Patz flites have a rectangular wear shoe, providing 124% additional surface wear area riding on the gutter floor. The larger wear shoe area extends the life of the flite bottoms and reduces gutter floor grooving for longer life.

Photo 1 compares the Patz flite with a rectangular wear shoe to our former oval design.

Photo 2 shows the additional surface wear area provided by the rectangular wear shoe.



2¼ times as large as oval design

**For maximum service life and reliable operation, never mix Patz Chain and components with other brands.**

# Why New Chain Deserves New Parts

*New contact points maximize the service life of new chain!*

*“Why do I need new corner wheels, shoes, and sprockets when I replace my gutter chain?”*

**Worn parts can ruin a new chain. All worn parts that come in contact with the new gutter chain need to be replaced.**



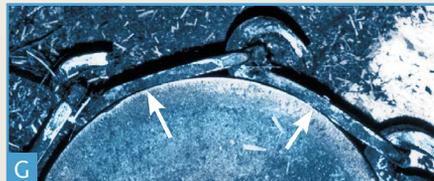
A worn drive sprocket (A) develops a pitch length to match the worn chain. Worn sprockets do not conform to a new chain. **A new chain will be forced to conform to the wear pattern of an old sprocket**, which puts undue stress on each link, causing fatigue and premature wear. Install a new drive sprocket (B) with a new chain.



**The guides on the bottom of the hold-down shoe must contact only the hook.** When worn enough to allow the side of each link to be worn away by the bottom of the groove, additional stress is placed on the side wall on each link (C). This leads to shorter chain life. Worn guides may also allow the flite to tip up. A new precleaner is often required to keep material from packing in the hold-down shoe. Install a new hold-down shoe (D) and precleaner with a new chain.



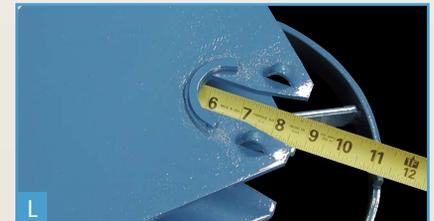
**A worn return corner shoe (E) will not allow the chain to travel smoothly through the return corner.** The shoe may wear or twist and bind the chain. Chain bound up in the return corner can result in the shoe being torn from the anchors. A worn return corner shoe could also lead to bent flites. When installing a new Patz chain, install a new return shoe with sub-anchor (F).



**The worn face of a corner wheel (G) will allow the top and bottom flange of the wheel to contact the sides of the links**, flexing the side wall of each link as it goes around the wheel. The flite links receive greater stress at the end of the welds when the link's side wall contacts the wheel. This can produce premature flite link failure. **The load must be carried on the back of the hook (H).** A worn or notched face on a wheel prevents the chain from moving freely around the wheel. Any added stress weakens all links which will lead to premature failure.



**Worn axles (I) and bearings allow the wheel to tilt**, resulting in flites tipping up or the chain jumping off the wheel. Install new axles (J) when installing a new chain. The grease reservoir is an important feature.



The wheel housing slots (K) need to be checked for severe corrosion. **Eroded slots will not keep the axle properly aligned** or may even allow the wheel to slide too far into the housing. A wheel too far in can bind against the back of the housing and allow the back of the hook on each link to wear into the gutter wall. This wear flattens the back of the hook, which prevents links from making proper contact on the wheel and the drive sprocket. The measurement from the end of the slot to the inside of the housing is 5<sup>3</sup>/<sub>4</sub>" (L). Install new corner wheel housings when slot measurement is 5<sup>5</sup>/<sub>8</sub>" or less or if wheel sits at an angle when housing is level.

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Just Got Better!**

**Patz**

**Since 1948**

## Printed Warranty

Patz chain is backed by a 15-year (5-year full) extended written warranty. Compare the Patz chain's warranty with any other hook-and-eye chain warranty. You will see why Patz chain is your best investment. For your protection, insist on a printed warranty that details all of the items covered and exactly how compensation will be made.



**CAUTION:** Never operate Patz equipment without all shields and guards in place. **Safety Is No Accident.** Before operating any piece of equipment, be sure to read and understand the operator's manual. This manual should be kept with the machine at all times. Additionally, make sure all safety shields and devices are functioning properly and are securely in place. Specifications and prices subject to change without notice.



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