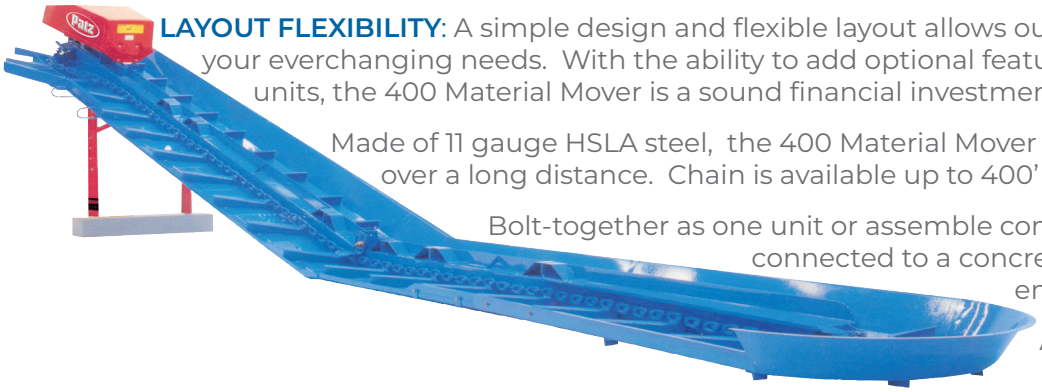
400 MATERIAL MOVER

DESIGNED FOR:

- Moving Large Volumes of Material Easily Through Troughs, Around Corners, and Up Inclines
- Continuous Operation
- Layout Flexibility and Versatility
- Low Maintenance
- Long Life

400 MATERIAL MOVER
Standard Features



LAYOUT FLEXIBILITY: A simple design and flexible layout allows our Material Mover systems to adapt to your everchanging needs. With the ability to add optional features or reconfigure or add additional units, the 400 Material Mover is a sound financial investment.

Made of 11 gauge HSLA steel, the 400 Material Mover can move large quantities of material over a long distance. Chain is available up to 400' long.

Bolt-together as one unit or assemble components into sections and connected to a concrete channel via concrete embedding.

Available for right or left hand applications.

LOW MAINTENANCE: The automatic chain tightener holds proper chain tension and allows for easy link removal.

Choice of Drive Units

Planetary Speed

PLANETARY SPEED REDUCER: Engineered for high efficiency for long run times, the planetary drive delivers maximum torque at optimal horsepower—less electrical load for moving heavier material! Planetary drives are available in multiple power configurations:

- 5 Convey speeds (12 – 36 FPM) to maximize load capacity.
- 4 Power packages from 2 – 7½ HP to minimize operating cost.
- Standard duty units utilize a belt-&-pulley are reliable and affordable.
- Upgrade to the planetary chain-&-sprocket drive with integrated motor brake and clutch for added system safety. Protect downstream machinery by eliminating back-spin and maintain proper chain tension when stopping. The motor clutch protects the drive for torque spikes resulting from chain circuit jams. The dedicated control panel allows operators and service techs to safely release tension with the press of a button for safe machine maintenance.

203 Gearbox

203 GEARBOX REDUCER: A robust worm-gear drive also minimizes back-spin with a belt-&-pulley where chain-&-sprocket drives are not preferred. Available in 24 or 36 FPM convey speeds.

HEAVY ROLLER CHAIN REDUCER: Belt-&-pulley drive with double-reduction chain-&-sprocket has been pulling for 75 years! Available in 18 and 36 FPM, the robust design is ideal for heavy loads when it absolutely has to move now!

Heavy Roller Chain

NOTE: DRIVE GUARDS are on ALL drive units

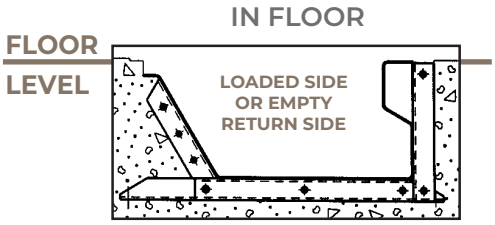
ASHES BARK CABBAGE CHIPS COAL COMPOST DRY FERTILIZER FEED FOUNDRY SAND FRUITS GRAINS GRAVEL METAL SHAVINGS M

VERSATILITY: A Patz Material Mover enables you to transport materials horizontally, around corners, up inclines, and then level out again.

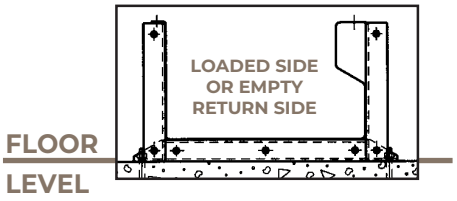
The steel troughs come in single or double bolt-together sections. Options of a 60° slanted sidewall or a 90° straight sidewall provide flexibility and adaptability for layout design. They may be anchored on top of a solid surface, embedded in concrete, or both. Sections are made of high-strength, corrosion-resistant steel.

60° SLANTED SIDEWALL for conveying wood blocks, bark, sawdust with cutoff pieces, compost, or dirt with clumps or small stones.
Note: Trough recess or chain cover required.

IN FLOOR

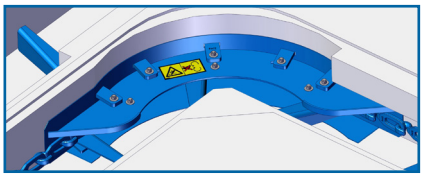


ABOVE FLOOR



90° SIDEWALL for moving pure fines and small particles such as sawdust, shavings, sand, dirt, compost, metal shavings, filings, or chips.

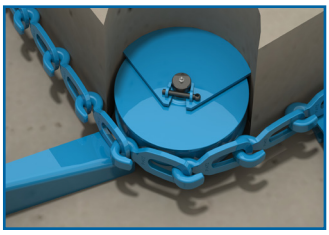
***See Technical Data and Layout Planner for Additional Layouts.**



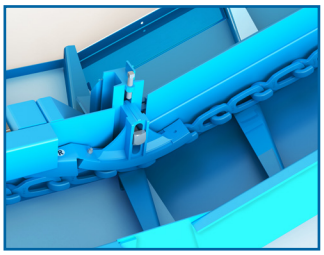
◂ **RETURN CORNERS** guide the returning chain around a 45° (concrete only) or 90° corner via a return shoe. This ultra-high-molecular-weight (UHMW) return shoe reduce friction when moving dry material.
Available in both a bolt-together section or as a concrete embedded component.

Note: Trough cover removed for viewing.

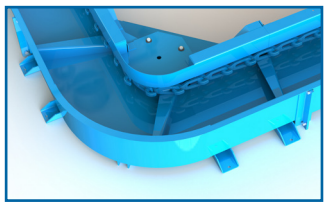
▸ **CORNER WHEEL** allows chain to go around a corner and maintain alignment in trough. Wheel flanges minimize floor wear. The wheel and axle are easily removed if replacement is necessary, meaning less down time! Corner wheel is through-hardened for greater service life.



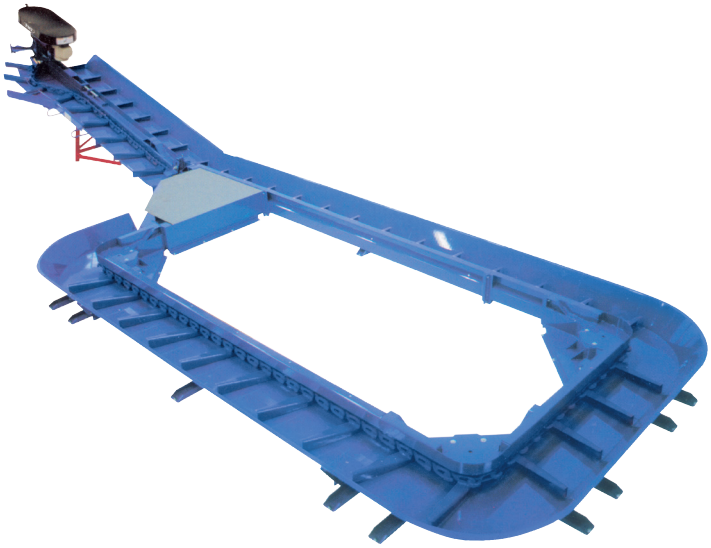
A graphite-impregnated, laminated bearing and grease zerk lubrication assure smooth turning. Optional double corner wheel consists of two 12" (30.48 cm) diameter wheels for smooth operation under heavy loads (for concrete troughs).



▲ **HOLD-DOWN POST SECTION:** Available in 4" (18°) or 6" (25°) pitch inclines.



▲ **CORNER SECTION:** A 90° corner section permits easy turns. A 22.5° corner section is also available in double trough sections for added versatility. Optional chain cover shown above.



MINERAL ORES NUTS OYSTER SHELLS POULTRY LITTER PULP RECYCLING SAWDUST SWEET CORN TRASH VEGETABLES WOOD SCRAPS

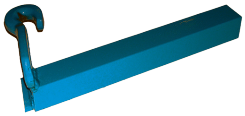
400 MATERIAL MOVER
Features and Specifications

FEATURES PATZ HOOK-AND-EYE CHAIN LINK: Each proven Patz hook-and-eye link is made from more than two pounds (907 g) of steel by advanced closed-die forging. The hook is designed for extra strength, and the eye allows free chain operation and flexibility.

Closed-die forging refines the grain structure and develops the optimum grain flow, which maximizes impact toughness, fracture toughness, and fatigue strength. Patz chain is not a casting. The rounded bearing surfaces produce a flexible chain and the smooth finish allows dependable drive sprocket action.

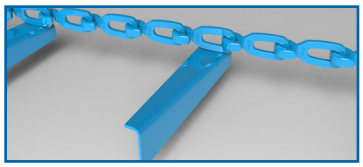
Patz links produce uniform hardness to resist wear while maintaining maximum strength. Look for the Patz imprint on each link – your guarantee of dependable, reliable performance year-round.

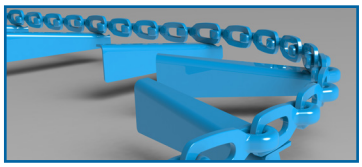
▲ 467



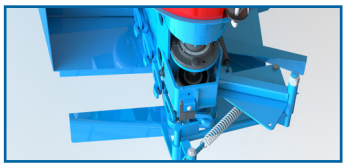
▲ 447

PATZ STEEL FLITES: Two models, 467 and 447, are available to meet your needs. Flites are welded to the link – not bolted. An extra wide wear shoe is welded to the bottom of the flite to protect the trough and to extend the operating life.





FLITE CLEANER helps prevent material build-up and carry over on flites.



400 Material Mover	
Chain	400 Hook-and-Eye, All-Steel Link, coated with high-gloss polyester powder coated paint
467 Flite *18"(457mm) wide trough*	4" (102mm) High on Outer Edge
447 Flite *18"(457mm) wide trough*	2" x 2" x ¼" (51mm x 51mm x 6.35mm) Angle
Flite Spacing	12" (305mm); 18" (457mm); 24" (610mm)
Trough Width	18" (457mm)
Motor	2 HP, 3 HP, 5 HP, 7.5 HP - Available in Single or Three Phase; *Brake Motors Available on Planetary Brake Drive Only*
Drive Unit (4 Options)	• Heavy-Duty Planetary Speed Reducer Standard Drive Unit: Belt-&-Pulley Drive (No Brake) • 203 Gearbox Reducer Drive Unit; Belt-Pulley Drive • Heavy-Duty Roller Chain Reducer Drive • Upgrade: Heavy-Duty Planetary Speed Reducer Drive Unit: Chain-Sprocket Drive with Brake & Clutch
Capacity	41 ft^3 at 36 FPM 18" (457mm)Flite Spacing; Through Trapdoor, 25 ft^3/minute

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.

Note: New Patz contact points must be installed at the same time as new Patz chain in order to qualify for warranty.

SAFETY! It's no accident

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.

For some photos in this brochure, guards were removed for photographic purposes only to allow viewing of the equipment features. Before operating equipment, all guards must be in place. Because Patz continually improves and updates products, Patz reserves the right to change the construction of machines or attachments or any part thereof without incurring any obligation to make like changes on Patz machines, or attachments previously delivered. Specifications and prices subject to change without notice.

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