

REPLACEMENT & AFTERMARKET

GRAVITY CONVEYOR OILERS



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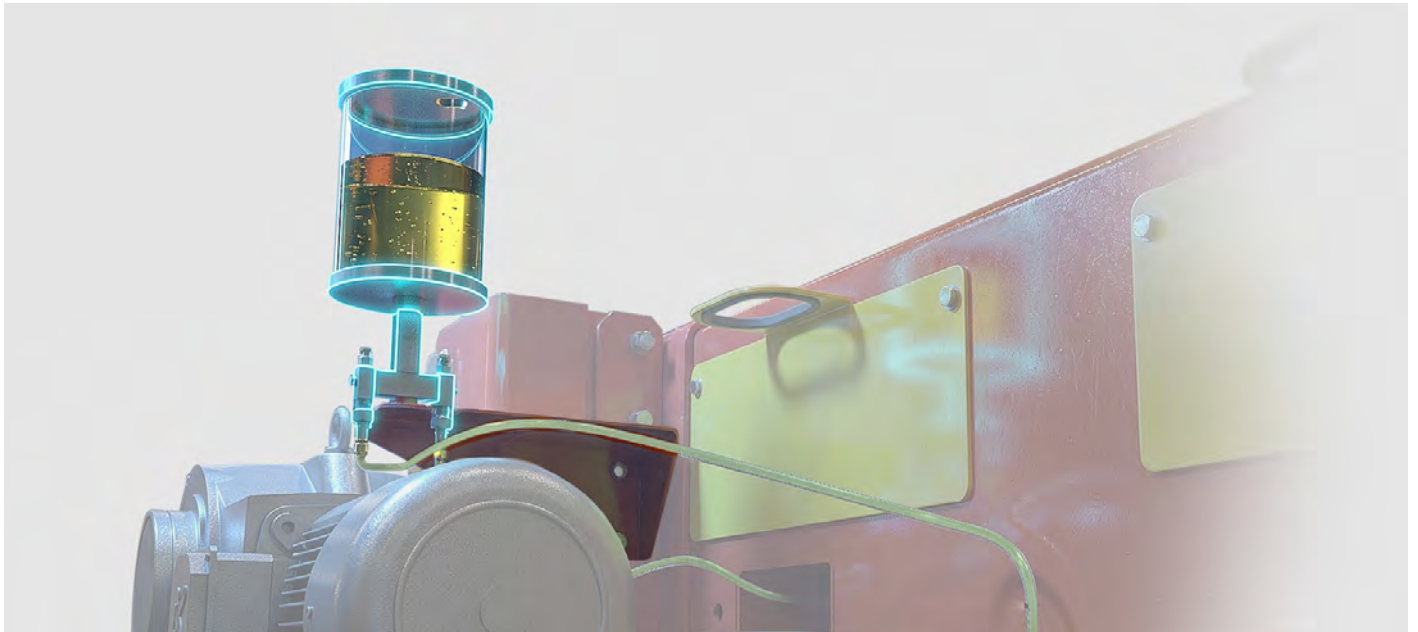
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GRAVITY CONVEYOR OILERS



Gravity Conveyor Oilers

Roller chain conveyors accumulate abrasive fines, dust, and moisture inside pin and bushing clearances with every revolution, and chains that run dry elongate, bind at their articulation points, and wear sprocket teeth out of profile. On drive chains without a nearby power source, or on lines where an automatic lubrication system is not justified, oiling often defaults to a manual schedule that rarely matches actual chain runtime. Every missed interval compounds into premature chain and sprocket replacement, unplanned line stops, and lost throughput.

Gravity oilers deliver oil from a vented reservoir through an adjustable needle valve to a brush applicator riding the chain surface, driven by head pressure alone with no pump, compressor, or electrical connection. Aluminum alloy valve bodies, friction lock metering, and acrylic, Pyrex, or polycarbonate reservoirs from 1 oz to 1 gal cover single feed units and multi feed systems of 2 to 24 outlets. Units mount to the conveyor frame through a 5/8" - 18 threaded shank or standard pipe thread, in direct or remote brush positions, on new installations and retrofits alike. Each configuration is matched to the chain specification, feed count, and mounting clearance of the system it serves.

APPLICATIONS



Recycling & Material Recovery

Sort line and transfer conveyor drive chains in recycling facilities run through airborne fines, shredded paper dust, and moisture that work into every pin and bushing clearance. Gravity oilers maintain continuous lubrication at each drive chain without an electrical supply, with stainless steel bristle brushes specified for the abrasive exposure common to recovery operations



Scrap Metal Processing

Shredder infeed and downstream chain conveyors carry dense, abrasive material that accelerates pin and bushing wear. Stainless steel bristle applicators withstand the metallic grit that breaks down standard nylon brushes in scrap environments.



Aggregate Operations

Crushing and screening plants expose drive chains to rock dust that mixes with oil into a grinding paste. Frequent low volume lubrication at a controlled drip rate flushes contaminated oil from the chain joints before it abrades the pins.



Construction & Demolition

C&D processing lines handle mixed debris that sheds concrete dust, wood fiber, and metal fragments onto drive chains. Independent needle valves meter each lubrication point separately so heavily loaded chains receive more oil than lightly loaded ones.



High Temperature Lines

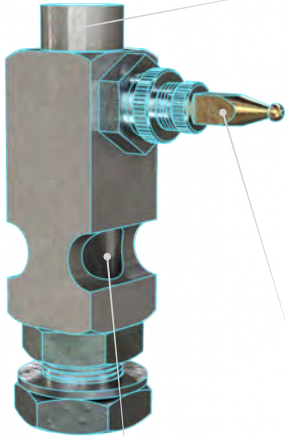
Conveyors serving ovens, dryers, and hot material discharge push chain surface temperatures beyond the range of standard applicators. Roto brushes mounted on the inside chain surface spread oil into the links by centrifugal force, with stainless bristles rated for service above 250°F.



Wide & Multi Chain Conveyors

Wide belts driven by multiple parallel chains distribute lubrication points across the full conveyor width. A single central dispenser feeds up to 24 valve brushes through one line, placing every drip rate under control from one station.

KEY FEATURES



01

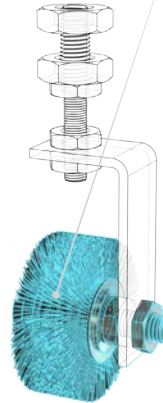
Manual Toggle Shutoff:

Stops oil flow with a single lever action while preserving the needle valve setting, so the set drip rate returns unchanged when the conveyor resumes.

03

Friction Lock Needle Valve:

Meters oil through a fine adjustment needle valve and holds the set drip rate against conveyor vibration with a friction lock on every valve.



02

Brush Applicator Configurations:

Follows the contour of the moving chain with flexible bristles in round, flat, and roto profiles, spreading oil to every load bearing pin and bushing interface.



04

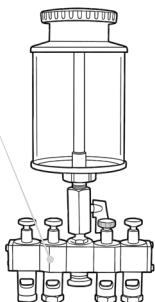
Lower Sight Glass:

Displays each falling drop in real time so the observed drip rate is verified against the set rate without disassembling the unit.

06

Modular Stacking Valve System:

Builds multi feed dispensers from 2 to 24 independently adjustable outlets and reconfigures in the field as lubrication points are added or relocated.



05

Vented Gravity Reservoir:

Holds 1 oz to 1 gal of oil in acrylic, Pyrex, or polycarbonate and feeds by head pressure alone, with high temperature reservoir materials rated to 225°F.

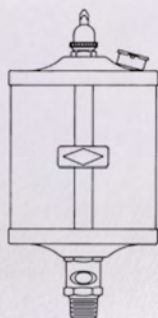


07

Threaded Mounting Shank:

Secures the unit to the conveyor frame through a 5/8" - 18 thread, with a 1/8" female NPT outlet for remote brush mounting in restricted clearances.





GRAVITY CONVEYOR OILERS SPECIFICATIONS

Parameter	Standard Specification
Shutoff type	Toggle shutoff (manual)
Metering	Adjustable needle valve with friction lock; drip rate observed through sight glass
Reservoir capacity	1 oz, 2 1/2 oz, 5 oz, 9 oz, 1 pt, 1 qt, 1/2 gal, 1 gal
Reservoir materials	Acrylic (standard, up to 160°F); Pyrex or polycarbonate (up to 225°F)
Pressure	Gravity feed only; reservoir and sight are vented
Seals	Buna-N
Valve body	Aluminum alloy
Covers	Aluminum alloy or polypropylene
Mounting shank	5/8"-18 threaded mounting shank (standard); remote mount via 5/8"-18 thread with 1/8" female NPT outlet
Mounting thread sizes	1/8", 1/4", 3/8", 1/2" male NPT
Brush configurations	Round (1/4"-1 1/2" dia.), flat (2 1/4" x 3/8"), roto (3" dia. x 1" wide)
Bristle materials	Nylon (standard); stainless steel (above 250°F or above 400 RPM)

GRAVITY CONVEYOR OILERS SPECIFICATIONS

Multi Feed Manual Models (2–24 Feeds)

Parameter	Specification
Shutoff type	Toggle shutoff (manual)
Metering	Independent adjustable needle valve per feed, each with friction lock
Feed outlets	2–24 (modular stacking valve system, field-configurable)
Reservoir capacity	5 oz, 9 oz, 1 pt, 1 qt, 1/2 gal, 1 gal
Reservoir materials	Acrylic (up to 160°F); Pyrex or polycarbonate (up to 225°F)
Pressure	Gravity feed only; reservoir and sight are vented
Seals	Buna-N (connector kits; other materials available)
Valve body	Aluminum alloy
Covers	Aluminum alloy or polypropylene
Mounting shank	Steel, plated

THE ENGINEERING ADVANTAGE

This section outlines the gravity feed metering and distribution principles behind Fluent Conveyors gravity oilers, covering passive flow design, single line and multiple line distribution, and remote mounting provisions to ensure a precise fit and reliable lubrication for every chain configuration.

Vented Gravity Feed Design:

Delivers oil by reservoir head pressure through a vented reservoir and sight assembly, removing pumps, compressors, and electrical connections from the lubrication circuit entirely.



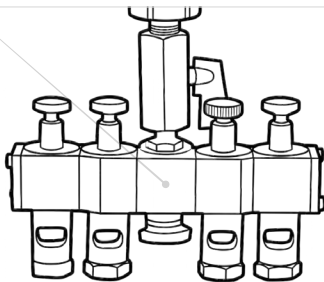
Single Line Distribution:

Feeds up to 24 valve brushes from one central full flow dispenser through a single line, with pressure dispenser configurations extending capacity to 60 valve brushes on larger installations.



Multiple Line Valve Manifold:

Routes oil from a central dispenser through 2 to 24 independent needle valves so the drip rate at every separated lubrication point is adjusted, locked, and confirmed from one station.



Remote Brush Mounting:

Positions the dispenser away from the chain with tubing runs to the brush applicator; allowing installation where clearance at the lubrication point is too restricted for a direct mounted unit.



CONTACT INFORMATION

OUR ENGINEERS WILL SPEC THE EXACT PART FOR YOUR SYSTEM

For product specifications, engineering support, or order inquiries, please contact our team using the information provided below. Our specialists are available to ensure accurate recommendations and efficient service for your application requirements.

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