

Scrap Management and Parts Handling

Stamping

Forging

Die-Casting

Laser / Plasma Cutting

Chip and Coolant Management

Moving materials with maximum efficiency



Aggregates

Solid Waste

Food Processing

Pharmaceuticals

MAYFRAN SHUFFLE DRIVE CONVEYOR SOLUTIONS



Mayfran's Shuffle Drive Technology sets a new standard for metalforming scrap removal.

Mayfran's press-mounted Shuffle Drive systems will significantly increase uptime, eliminate draw on shop air and run reliably shift after shift. The return on investment through increased machine utilization is astounding. That's why most of our customers have already installed multiple Shuffle Drive Conveyor systems, and are planning to install more.

The Shuffle Conveyor for in-the-floor applications is a perfect complement to steel belt conveyors in central scrap management systems. They can be installed to fit in tight places, above or below the floor to transport scrap to collection areas with no buildup of scrap carryover. The Shuffle Conveyor's maintenance free and reliable operation ensures availability in the most demanding operations.

Engineered to meet your specific material handling challenges.

The Shuffle Drive system is ideal for part and scrap extraction at the press. Mayfran application engineers work with your CAD drawings or digital photographs of your press to design the system to precisely fit your application. The compact and powerful Shuffle Drive motor can be mounted wherever needed to fit the material flow and available space, readily supporting rolling-bolster installations. The cross-shaft which drives the trays can be designed to rest within the bed if necessary. The trays are custom made to meet your specific material handling needs, and moving trays for die changeovers requires no tools and minimal time.

The Shuffle Conveyor can adapt to any situation, including moving parts as well as removing scrap. There is no vibration that can damage products, as with a vibrating conveyor. Trays can be made out of special materials to further improve impact or heat resistance or protect products. Additional applications include laser cutting, food processing, pharmaceuticals, plastics and aggregates.

The Shuffle Drive provides excellent return on investment.

Shuffle drive systems offer significant financial benefits compared to such alternatives as air shakers. The outstanding reliability, lower operating costs, easy die changes, and ability to start under a heavy load provide real operating benefits in the competitive metalforming arena.

SHUFFLE DRIVE BENEFITS

- > Virtually maintenance free
- > No shop air required
- > No operator training required
- > No adjustments to make during operation
- > Permanently lubricated
- > Not easily damaged by towmotor/lift trucks
- > Designed for operation 24/7/365
- > Starts under full load
- > Faster die changeovers – no tools needed for tray removal



PATENTED SIMPLICITY. PROVEN RELIABILITY.

The patented Shuffle Drive technology was developed by Press Room Techniques, and has proven itself in over 200 customers with 800 installations. Now this flexible, reliable technology is part of the Mayfran family of scrap removal and material handling solutions.

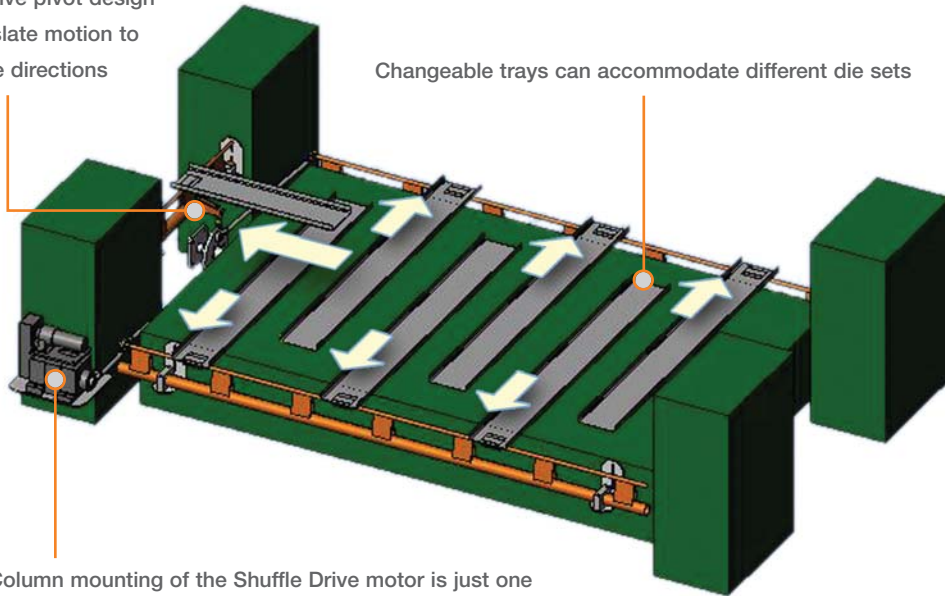


It's easy to see why a Shuffle Drive Conveyor solution works so well.

Mayfran Press-Mounted Shuffle Drive Solution

Innovative pivot design to translate motion to multiple directions

Changeable trays can accommodate different die sets



Press Column mounting of the Shuffle Drive motor is just one possibility that can be applied to provide easy access to the press

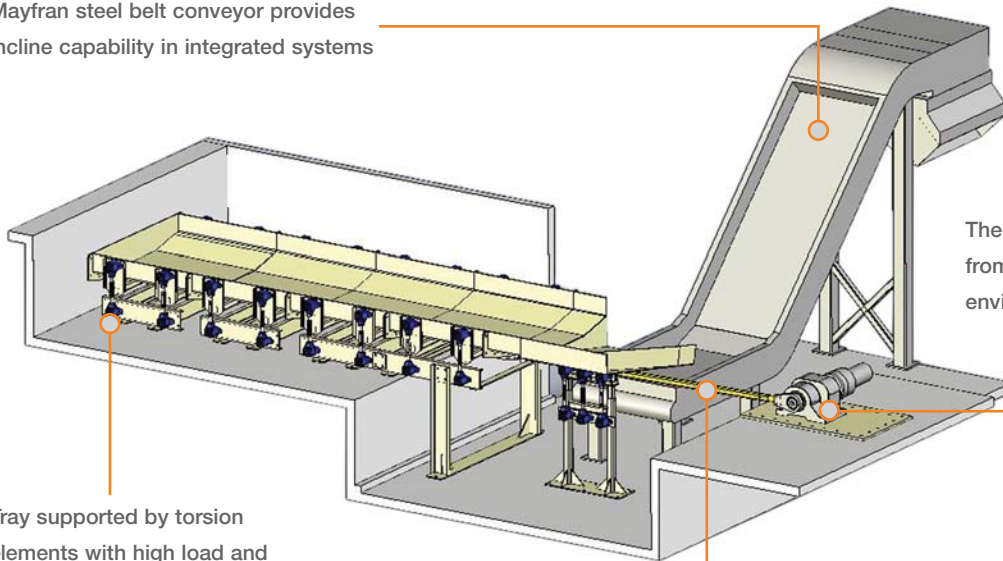
Mayfran Shuffle Conveyor Central Collection Solution

Mayfran steel belt conveyor provides incline capability in integrated systems

Tray supported by torsion elements with high load and impact resistance capability

Connecting rod has self-aligning spherical bearings with grease fittings or auto greasers (as determined by customer)

The drive is located away from the system where the environment is less harsh





- > A Shuffle Drive system can move a 400 foot tray of scrap on a single drive
- > The heavy-duty construction can handle the impact of heavy scrap
- > The Shuffle Drive Conveyor can be restarted even under a heavy load
- > A complete press-mounted Shuffle System is able to move up to 20,000lbs/hour of material at a rate of 40 feet/minute

Rapid return on investment – We’ve done the math.

Payback in a few months is a realistic expectation. Typical savings from using a press-mounted shuffle drive system are shown below. Your Mayfran representative will be happy to run the numbers to get a more accurate ROI for your specific operation.

| | |
|--|-----------------------------|
| Utility cost savings | \$2500/year ^{1*} |
| Savings and increased uptime through reduced repairs | \$5500/year ^{2*} |
| Savings through reduced setup time | \$20,000/year ^{3*} |

1* using electricity vs. compressed air

2* many air shakers require monthly repairs vs. Shuffle Drive Conveyor maintenance free operation

3* value of increased press utilization from faster die changeovers

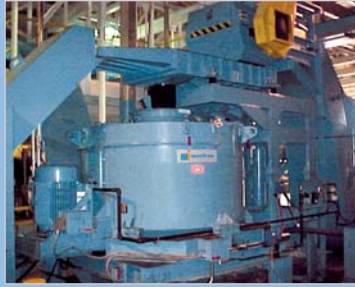
The next Shuffle Drive Conveyor we ship is probably being delivered to a company who previously bought “one to try out.”

We have over 800 Shuffle Drive Conveyor systems installed globally. Here’s what one of our customers has to say about our system.

“Our production department was having an issue with constant breakdown of our scrap removal system at our 1000 ton PTC press. We were using a large air type shaker system moving one large single tray, but we were experiencing excessive downtime and maintenance costs due to shaker failure. We installed a Shuffle Drive Conveyor to resolve the issue. We already had 5 of these units in operation for about 6 years with very positive results. Now the problem at our PTC press is non-existent. I think your product is awesome. It makes my life a lot easier.”

– Otto Costanzo, Engineering Manager, DBG, Mississauga, Ontario





Most of the major metalforming operations around the world include Mayfran conveyors!

Mayfran International is a global leader in providing solutions for scrap and coolant management and material handling in metalworking, recycling, solid waste processing, and other applications. Mayfran's products convey, filter, separate, shred, briquette and process scrap materials and fluids for the automotive, aerospace, consumer products, oil and gas, steel processing, solid waste, pulp and paper, medical products, heavy equipment and related industries. Headquartered in Cleveland, OH since 1933 and having operations throughout the world, Mayfran is well positioned to support it's customer base.

Take a closer look at the Shuffle Drive Conveyor system and see how it can increase productivity and reduce costs in your manufacturing operations. Visit our website www.mayfran.com, or call 440 461 4100 to find a Mayfran dealer near you.



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