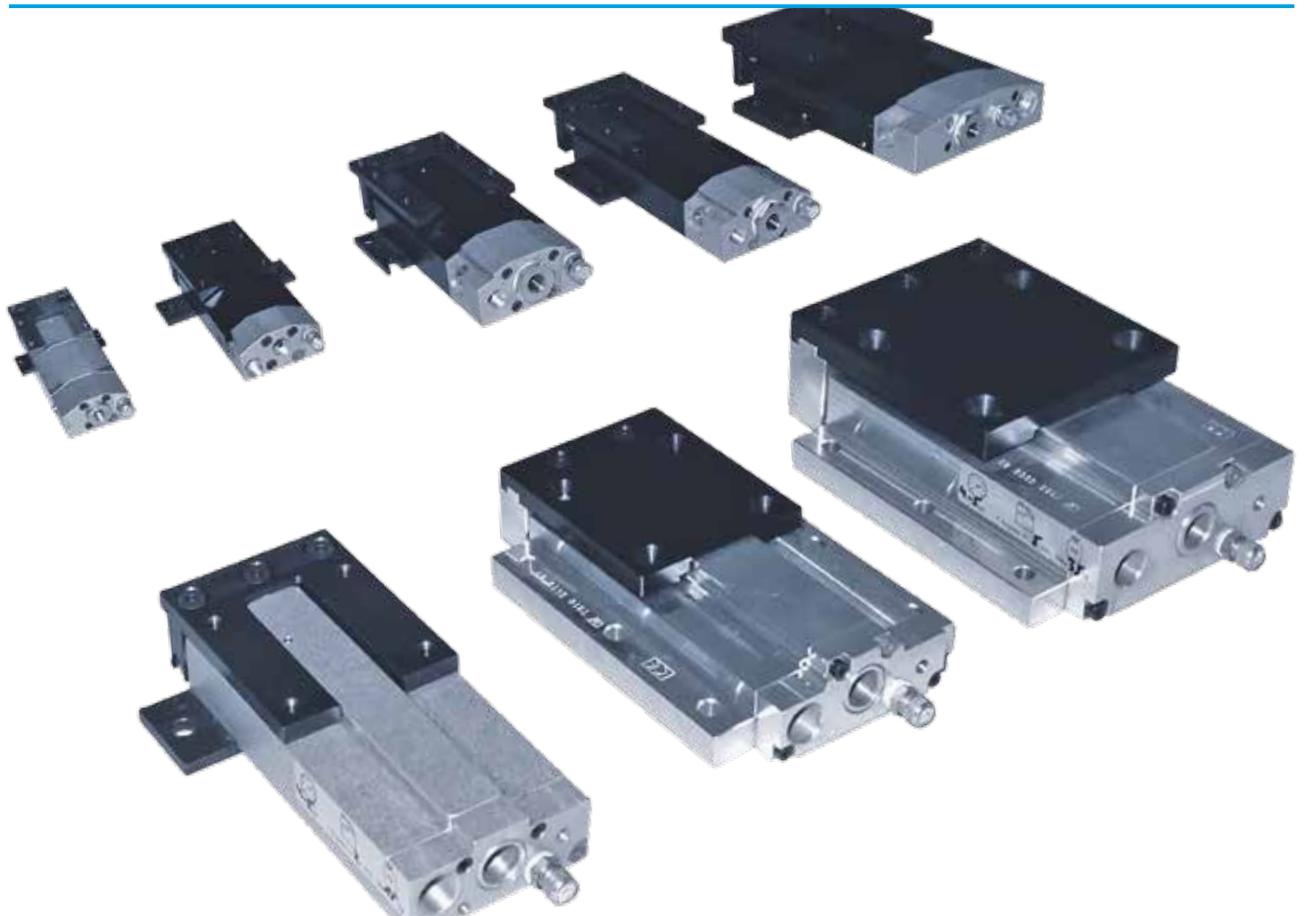


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## Transfer & Removal of Parts and Scrap

# Parts Transport Solutions



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SYSTEMS  
MACHINES  
SERVICE  
ACCESORIES

## Dear customers and friends,

For more than 30 years we have supported the stamping industry with a selection of press room accessories, one of which are the Linear Transporters. With this product line, we instantly came to be German market leaders and today our "shakers" help stampers worldwide, getting their scrap and parts removed. Their compact build and fast availability made them a stock item for many tool and die makers. But as we all know, awareness needs nurturing – so it was time to introduce the Linear Transporters to the next Generation. After our new Powerspeed model 61 was released, it stirred a lot of interest when introduced at shows and on the internet. It's a real pleasure being able to present to you this brochure with detailed information about our newest technology and range of use for these remarkable products.

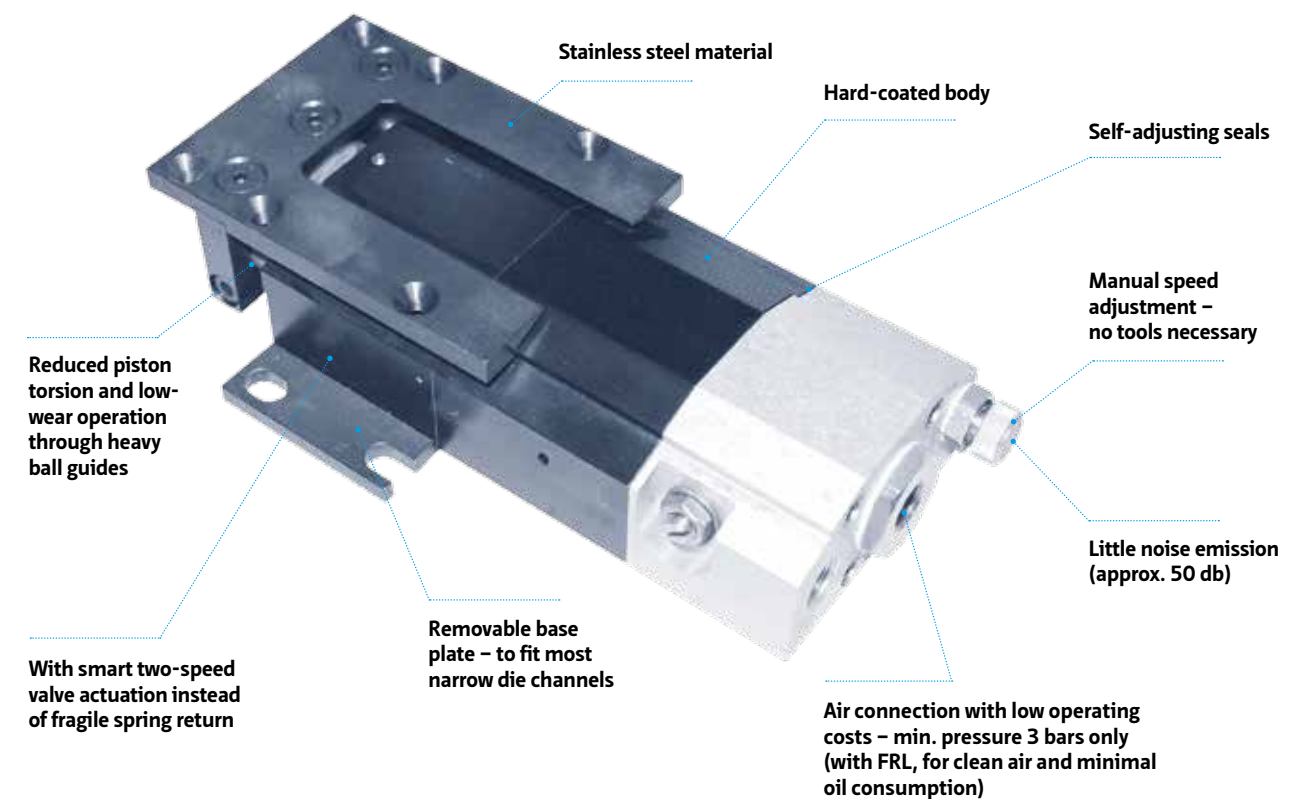
Greetings from the Sheet metal fans,



Benjamin Schwabe

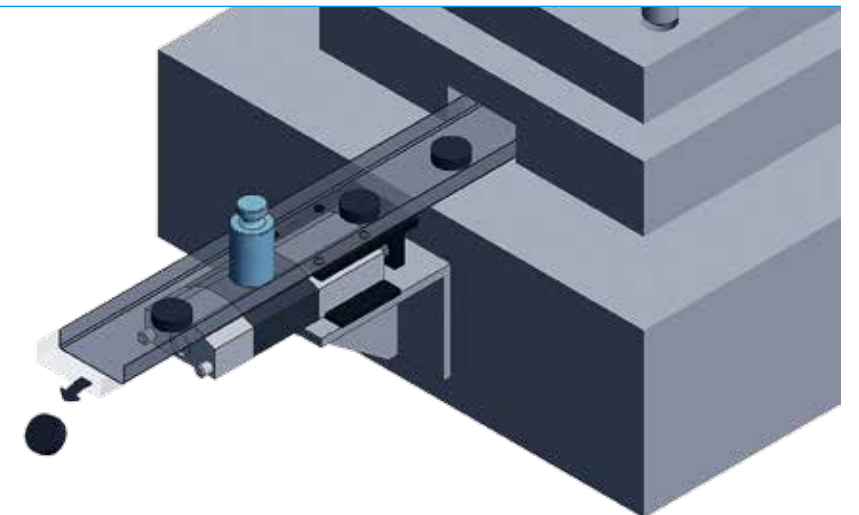
## Linear Transporter

The GSW Linear Transporters feature a far more durable alternative over belt conveyors for the removal of parts and scrap. With the most compact design and eight models with 6 to 100 kilogram capacity, their strong performance sets the worldwide standard.



### Advantages

- Operable from 5 mm channel height only
- For all typical tray dimensions up to 4000 mm length and 1500 mm width
- For up to 100 kilogram part weight



# Linear Transporter

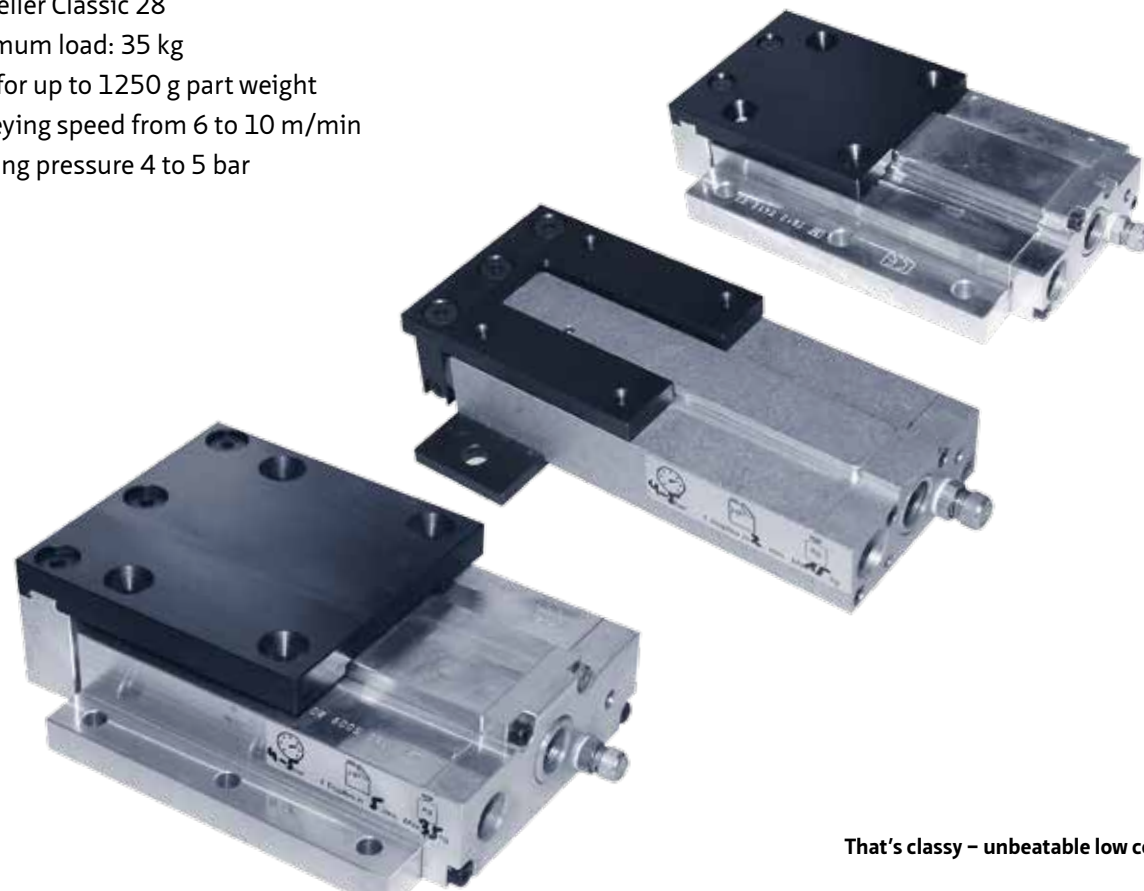


Left: Stamping die with prepared scrap channels for one each PS60 unit with tray

Right: Scrap channel during production

## Classic Series

- Over 30 years of production experience
- Bestseller Classic 28
- Maximum load: 35 kg
- Ideal for up to 1250 g part weight
- Conveying speed from 6 to 10 m/min
- Working pressure 4 to 5 bar



That's classy – unbeatable low costs



Five tough guys for hard work – three-shift even

## Powerspeed-Series

### Parts Transporter PS100

- The biggest and strongest (double piston drive) for extremely heavy parts or large tray sizes

### Parts Transporter PS60

- The best-seller for frequently occurring transportation problems in the upper load range

### Parts Transporter PS40

- The medium-sized model is a great choice for the best price-to-performance option

### Parts Transporter PS30

- The lowest priced, for common areas of application in the lower load range

### Parts Transporter PS20

- The smallest in dimensions, for tight-fit installations



A PS40 mounted directly on the die with removable tray construction and sensory stroke monitoring

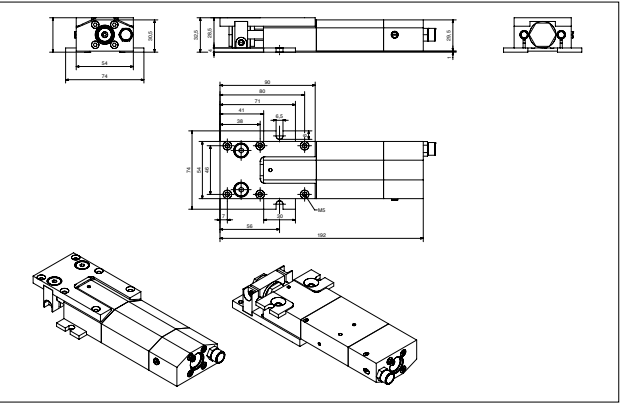
## References

- AEG, Allgaier, Audi, Bauknecht, BMW, Bosch, Buderus, Elring, Ford, Kemmerich, LUK, Magna, MAN, Miele, Stihl, Thyssen, VW, ZF

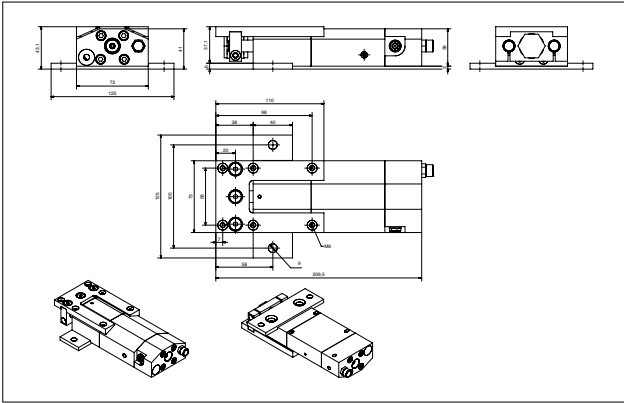


Linear Transporter

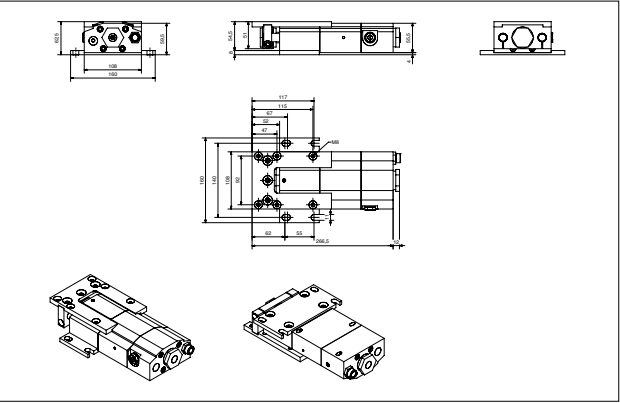
Dimensions



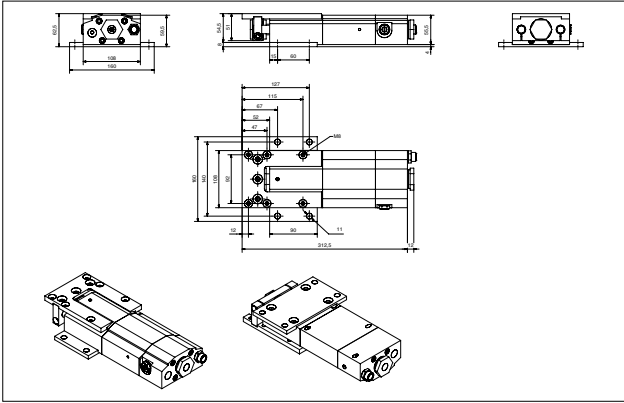
Powerspeed 20



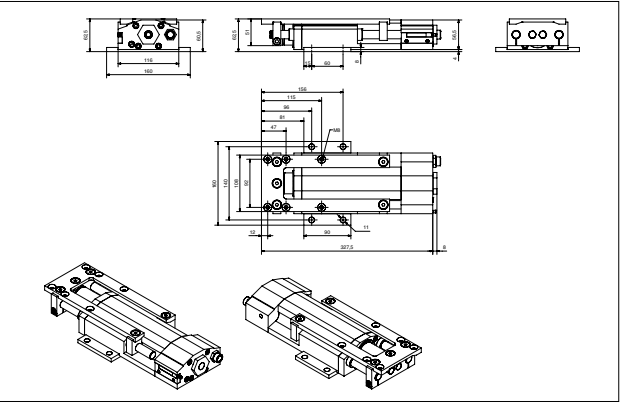
Powerspeed 30



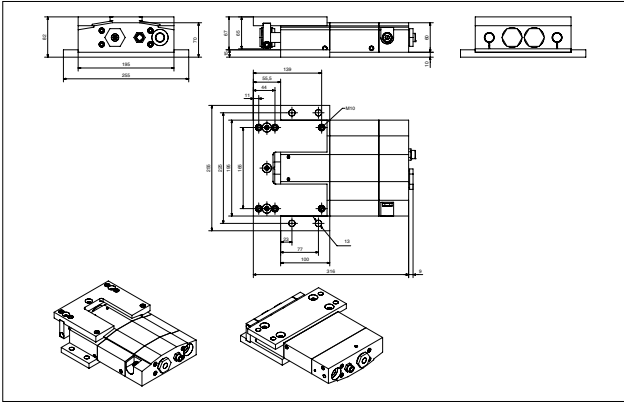
Powerspeed 40



Powerspeed 60



Powerspeed 61

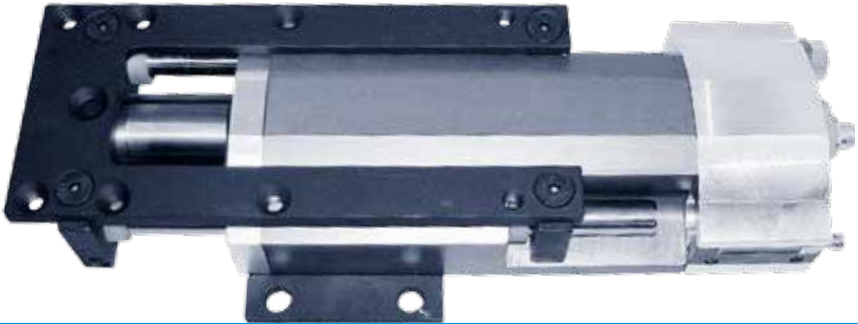


Powerspeed 100

Technical Data

Series	Maximum Peak Load	Maximum Permanent Load	Stroke Length	Recommended Part Weight	Empty Weight
	kg	kg	mm	g	kg
Classic 26	15	10	25	1 – 500	2.1
Classic 28	15	10	25	1 – 500	2.1
Classic 55	35	20	26	1 – 1.250	5.1
Powerspeed 20	6	3	22	0.5 – 150	1.0
Powerspeed 30	30	15	26	0.5 – 800	2.0
Powerspeed 40	40	30	33	1 – 1500	5.2
Powerspeed 60	60	45	47	1 – 3000	6.0
Powerspeed 61	60	45	55	1 – 3000	7.0
Powerspeed 100	100	80	36	1 – 8000	10.8

Series	Fitting Size	Recommended FRL Connection	Air Hose Diameter	Operating Pressure	Air Consumption
			mm	bar	l/min
Classic 26	G 3/8"	G 1/4"	8	5	39.2
Classic 28	G 3/8"	G 1/4"	8	5	57.1
Classic 55	G 3/8"	G 1/4"	8	4.5	55.1
Powerspeed 20	G 1/8"	G 1/4"	6	4.5	19.0
Powerspeed 30	G 3/8"	G 1/4"	8	4.5	14.4
Powerspeed 40	G 3/8"	G 1/4"	10	4.5	46.8
Powerspeed 60	G 3/8"	G 3/8"	12	4.5	78.3
Powerspeed 61	G 3/8"	G 3/8"	12	4.5	68.6
Powerspeed 100	G 3/8"	G 3/8"	12	4.5	78.8



Prototype of our new Athlete PS61 – with four point bearing support for highest torsional stiffness

# Linear Transporter

## Accessories

- FRL units with pressure regulator, filter and lube dispenser
- Precision tray supports in light, medium or heavy design
- Hand slide valve with quick disconnect



Left: Slide valve for fast start/stop selection

Right: Heavy tray support bearing for torsion-free operation



Series	Recommended For	Recommended For
	<b>Classic</b>	<b>Powerspeed</b>
FRL 1/4	–	20
FRL 3/8 (small)	26 / 28	30
FRL 3/8 (large)	55	40 / 60 / 100
Tray support RF 15	26 / 28	20
Tray support RF 30	55	30 / 40
Tray support RF 60	–	60 / 100
Hand slide valve	all units	all units
Initiator for tray monitoring	all units	all units

## Monitoring System

The movement of the Linear Transporter can be monitored. We use a non-contact proximity switch which allows for press shut-off if the unit stops. This can happen in rare cases (e.g. through loss of air pressure or parts jamming). We offer the switch with ready-made cable.

For protection, the proximity switch is mounted into a body recess. The cable (left) is easily plugged.



# Turn-Key Systems



## Powerspeed Multiple Tray System (PSKS)

### Automated scrap removal for increased efficiency

- Instead of mounting one or more Transporters to each die, the PSKS features one unit only – mounted directly to the face of the bolster. A height-adjustable mounting bracket allows flexible usage with multiple tools and dies. The only extra thing needed will be scrap trays in different sizes.
- On the left and right end of the system, height-adjustable brackets with linear bearings support a cross-mounted aluminum profile. The profile is fastened with standardized clamping brackets and will transfer the motion over the whole width.

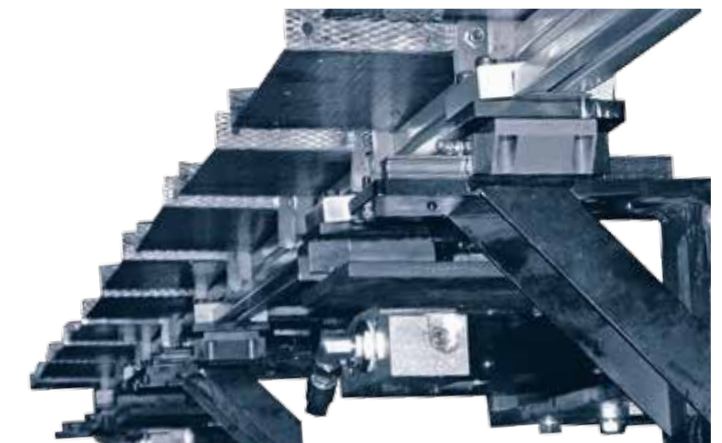
**Power-PSKS.** Two PS100 transporters, each with five trays, remove tons of scrap out of an 800 t stamping press with a 4 x 3 m bolster.



Left: Mounting detail with a PS100 unit with multiple tray design for light parts

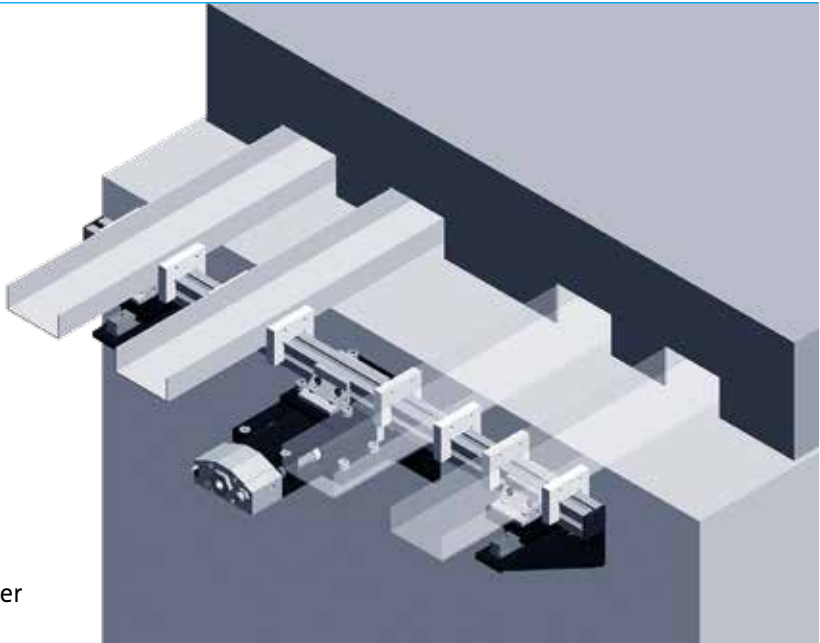
Right: Heavy application with two PS60s with large tray design and reinforced connectors

- Numerous trays can be mounted. Two rugged nylon U-shape clamps are permanently fastened to each of the trays. The fasteners are designed to slide and fit snug onto the aluminum profile so that exchanging of trays is just a matter of seconds. The length and width of the tray is determined by the size of the die slot.



# Turn-Key Systems

Capacious – Multiple-Tray schematic with centrally mounted Linear Transporter, mounting brackets, cross-bar with linear bearings and mounted trays



## Advantages

- Extreme potential to save equipment costs
- Only one or two Linear Transporters per press (depending on bolster size)
- Replaces multiple conveyors or high labor costs for manual scrap removal
- Low operating and maintenance costs
- Shortest set-up at change of tool (only tray exchange)
- Flexible mounting on either front or back of press
- Minimal wear inside the Linear Transporter as linear bearings take away torqueing damage from off-center loads
- Always right for the application as unit size is determined only once – depending on press size and max amount of trays

## Accessories and further equipment

- Dimpled stainless steel trays with 1.0 mm or 1.5 mm thickness
- Tray guiding system for the back-end side with aluminum cross-bar, brackets and sliding nylon guides with quick-locks
- Nylon plate to support the trays for screw-type or glue fixation
- Slide-in bracket adaptor for fast re-assembly of the system
- Manual on/off valve for quick start or stop of the system

Category	Model	Maximum Width*	Maximum Length	Number of Trays
		mm	mm	Pieces
For light scrap: 1 mm thick trays	PS 40	1200	1200	3
	PS 60	1800	1800	5
	PS 100	up to approx. 3600	up to approx. 2500	6
For heavy scrap: 1.5 mm thick trays	PS 40	1000	1000	2
	PS 60	1500	1500	3
	PS 100	up to approx. 3600	up to approx. 2500	5

\* data based on standard tray widths of < 250 mm

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