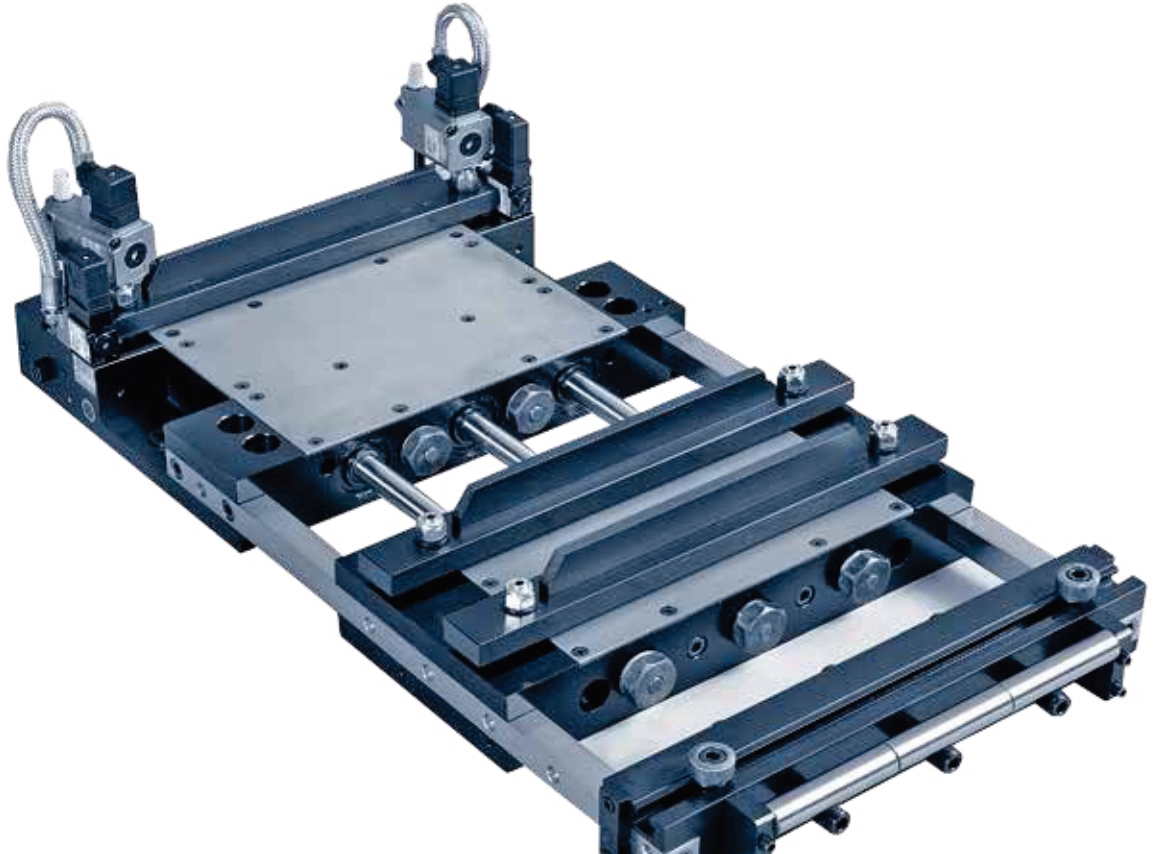

Main Catalog

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20th Anniversary of the GSW Accessories Catalog

Dear Customers,



It has now been 20 years since GSW put together for the first time a hand-picked list of accessories for the pressroom. Our goal then was to publish and distribute this information to as many potential customers in the stamping and forming industry as possible. This goal was more than reached and within months the booklet became known as the GSW Zubehörkatalog (then only available in German, the “GSW Accessories Catalog”).

Today we live in the age of the “Semantic Web”. The internet “intelligently” suggests products and vendors to its users ... Who would have dared to even dream of such a “wild idea” just ten years ago? There is, though, one thing the internet cannot replace: professional selection of products for specialized industries – this requires personal experience and competence!

The new Accessories Catalog 2011 is based upon that very experience from our own people and features a concise range of only the key products needed around the press.

There’s the all new and highly innovative, like the FC and MC contact lubrication systems. There’s also the mature and time-honored, like the Linear Parts Transporters and the Air Feeds – both number 1 in Europe.

I wish you a good time filing through these pages!

With best greetings from the Sheet metal fans,



Benjamin Schwabe

Coil Handling

Safety for the workers, no damage to the coils: This practical hoist is sturdy and easy to use – for years at a time. Part of the GSW lineup for over three decades.



Coil set-up with a Reel

Coil Tilting Hooks

Series T0-T8

load capacity up to 2,500 kg

Areas of use

- material sparing lift and drop of coils
- coil lift in standing and lying position
- hand-over to vertical or horizontal coil reel
- it is possible to singularize coil stacks as well as to temporarily store them at the production machine in upright or horizontal position

Technical characteristics

- suitable for material widths of up to 500 mm
- the automatic positioning of the tilt nose guarantees a straight uptake of the coil; the edge of the material is also treated with more care
- the largely scaled & rounded coil support in the tilt nose prevents material-damage at the coil eye

Safety

- secure handling with built-in guide handle, tilt nose automatically slides below the coil
- coil can be lifted jerk-free because of its unrolling coil nib
- it is not possible for the coil to slip off during transportation



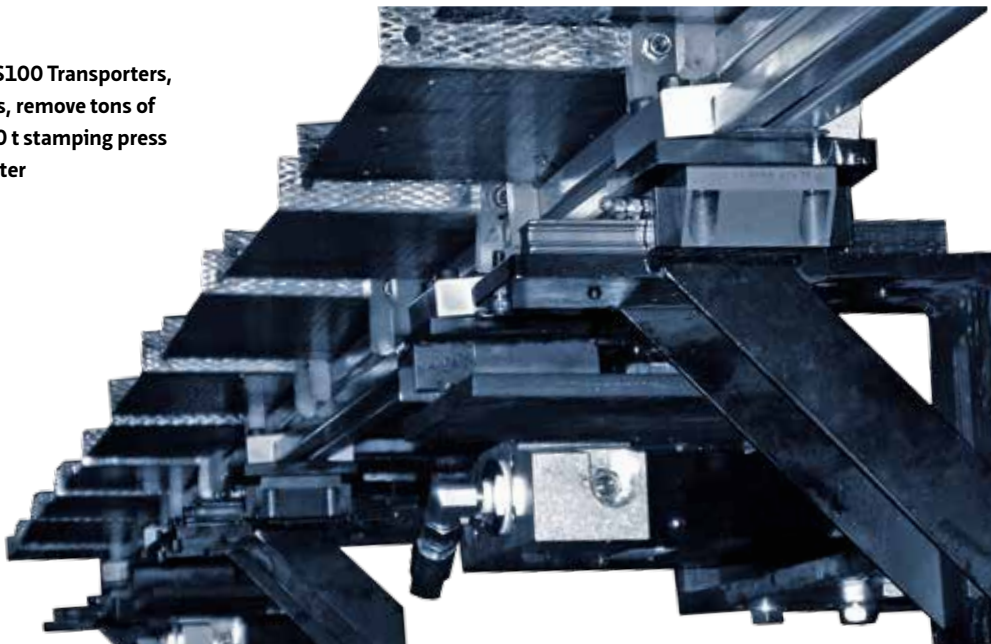
Tight grip –
coil take-up via
crane with shackle

Series	Maximum load capacity	Coil width	Coil inner Ø	Coil leg height	Hook height	Empty weight
	kg	mm	mm	mm	mm	kg
T0	600	10-180	280-800	350	650	9
T8	900	10-300	400-800	600	970	18
T1	1,250	10-180	280-800	350	650	16
T5	1,500	10-300	400-800	600	970	28
T2	1,750	10-200	300-800	450	770	20
T3	2,500	10-300	400-800	600	970	40
T6	2,500	10-450	500-800	600	970	50
T7	2,500	10-500	600-800	600	970	55

Transfer & Removal of Parts and Scrap

In the rugged press room environment, the GSW Linear Parts Transporters are the most durable alternative to belt conveyors. Only GSW offers eight different models, setting a worldwide standard with its compact construction and powerful performance. The Low Profile Conveyors help getting parts and scrap away fast and take good care of delicate parts.

Power-PSKS – 2 PS100 Transporters, each with five trays, remove tons of scrap out of an 800 t stamping press with a 4 x 3 m bolster

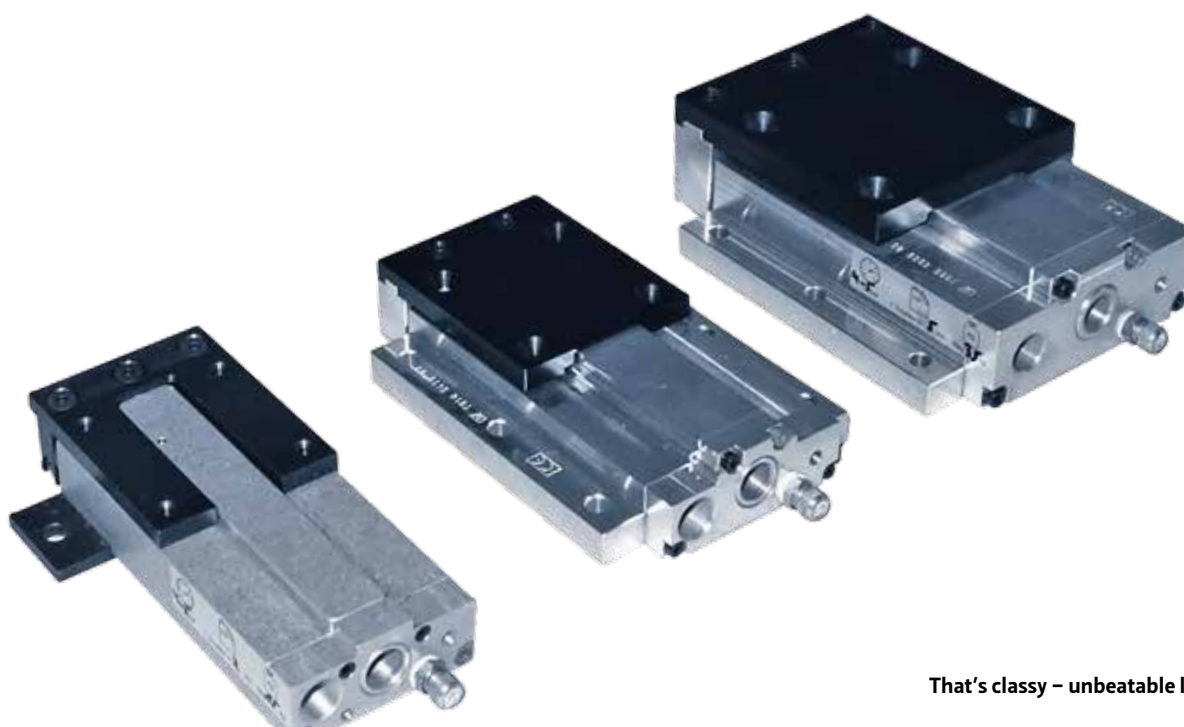


Linear Parts Transporter

Classic-Series

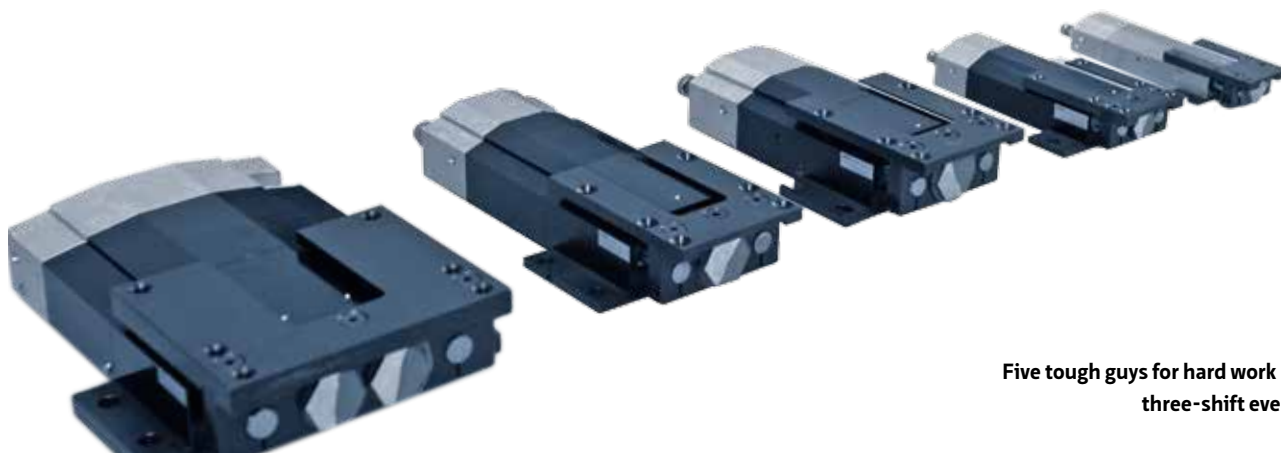
- tried and trusted a thousand times in practice
- the low price permits the economic use in single shift operation and with rarely used tools
- can be directly mounted to each tool, so no extra set-up costs

Series	Maximum peak load	Maximum permanent load	Recommended part weight	Stroke
	kg	kg	g	mm
Classic 26	15.0	10.0	1.0–500	25.0
Classic 28	15.0	10.0	1.0–500	25.0
Classic 55	35.0	20.0	1.0–1,250	26.0



That's classy – unbeatable low costs

Linear Parts Transporter



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

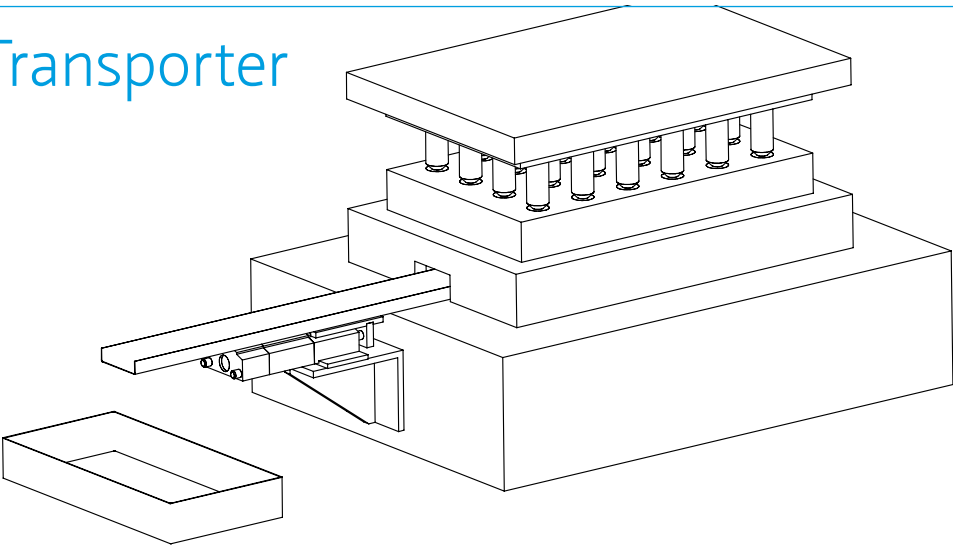
- the smallest in dimensions, for tight-fit installations

Series	Maximum peak load	Maximum permanent load	Recommended part weight	Stroke
	kg	kg	g	mm
PS 20	6.0	3.0	0.5–150	22.0
PS 30	30.0	15.0	0.5–800	26.0
PS 40	40.0	30.0	1.0–1,500	33.0
PS 60	60.0	45.0	1.0–3,000	47.0
PS 100	100.0	80.0	1.0–8,000	36.0

Linear Parts Transporter

Accessories

Complete – scrap removal
schematic with tool and
permanently mounted Linear
Transporter with tray



Series	Recommended for	Recommended for
	Classic	Powerspeed
Filter-Regulator-Lubricator (FRL) 1/4	–	20
FRL 3/8 (small)	26 / 28	30
FRL 3/8 (large)	55	40 / 60 / 100
Linear Tray Support RF 15	26 / 28	20
Linear Tray Support RF 30	55	30 / 40
Linear Tray Support RF 60	–	60 / 100
Quick Disconnect	all sizes	all sizes
External Motion Sensor w/ timer relay	all sizes	all sizes



Filter-Regulator-Lubricator – for a long Transporter life ...

Multiple Tray System



Decoupled – the linear guiding via outside heavy-duty slides prohibits torquing forces to wear on the system

Powerspeed Multiple Tray System (PSKS)

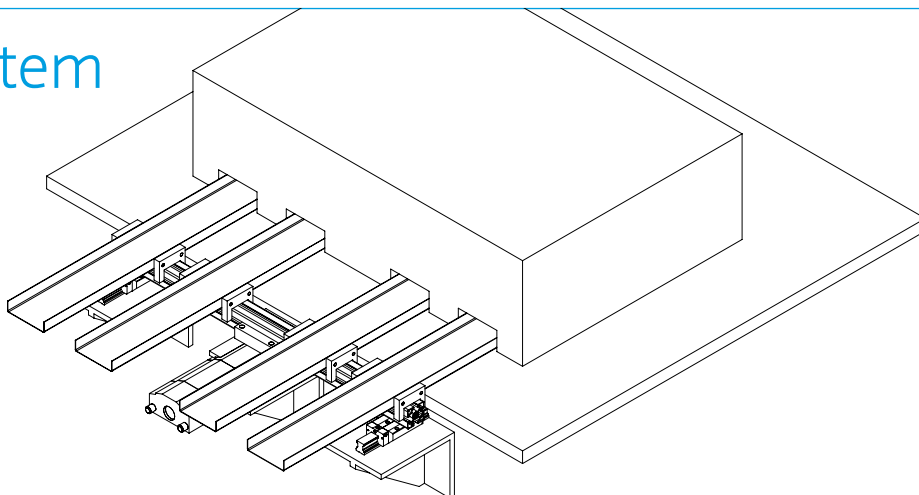
Automated scrap removal for increased efficiency

- 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
- 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.

Multiple Tray System

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



Powerspeed Multiple Tray System (PSKS)

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 costs
- very low maintenance costs
- shortest set-up at change of tool (only tray exchange)
- flexible mounting on either front or back of press
- very little 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 once only – 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	1,200	1,200	3
	PS 60	1,800	1,800	5
	PS 100	up to approx. 3,600	up to approx. 2,500	6
For heavy scrap: 1.5 mm thick trays	PS 40	1,000	1,000	2
	PS 60	1,500	1,500	3
	PS 100	up to approx. 3,600	up to approx. 2,500	5

* data based on standard tray widths of < 250 mm

Belt Conveyors

TB Mini

- thanks to its compact design the conveyor system GUF-P Mini BC is suitable especially for the integration into complex machines (e.g. removal of scrap from punching machines)
- the aluminum extrusion framework resists twisting and at the same time features good load capacities
- under the running surface of the belt, a stainless steel plate is mounted to secure a lasting resistance to abrasion
- material length: 300–6000 mm
- material width: 75, 100, 150 mm

Series	Conveyor length*	Conveyor width	Belt width	Drive position	Maximum load	High-performance belt in cut-resistant design
	mm	mm	mm		kg	
GUF-P Mini 75	1,000–3,000	75	60	head / center-mounted	25	optional
GUF-P Mini 100	1,000–3,000	100	85	head / center-mounted	25	optional
GUF-P Mini 150	1,000–3,000	150	135	head / center-mounted	25	optional

*other conveyor lengths on request



Compact – Conveyor Mini AC
with head-mounted drive

Belt Conveyors



**Central – Conveyor P2000 BC
with center drive**

TB 2000

- the conveyor system GUF-P 2000 AC distinguishes itself through its compact design. A modular scaling allows quick delivery while featuring a great variety of sizes
- large belt widths and higher capacities allow removal of scrap also with bigger presses
- The side grooves can be used for easy fastening onto base systems or for mounting of side guides etc.
- material length: 310–10,000 mm
- material width: 50–800 mm

Series	Conveyor length*	Conveyor width	Belt width	Drive position	Maximum load	High-performance belt in cut-resistant design
	mm	mm	mm		kg	
GUF-P 2000 200	1,500–5,000	200	190	head / center-mounted	75	optional
GUF-P 2000 300	1,500–5,000	300	290	head / center-mounted	75	optional
GUF-P 2000 500	1,500–5,000	500	490	head / center-mounted	75	optional

*other conveyor lengths on request

Belt Conveyors

Base Systems and Side Guides

Model FBST 51.2

- For widths from 50 to 150 mm
- Pass line height: 500 to 1,500 mm

Model FBST 53.1

- For widths from 200 to 500 mm
- Pass line height: 850 to 1,200 mm

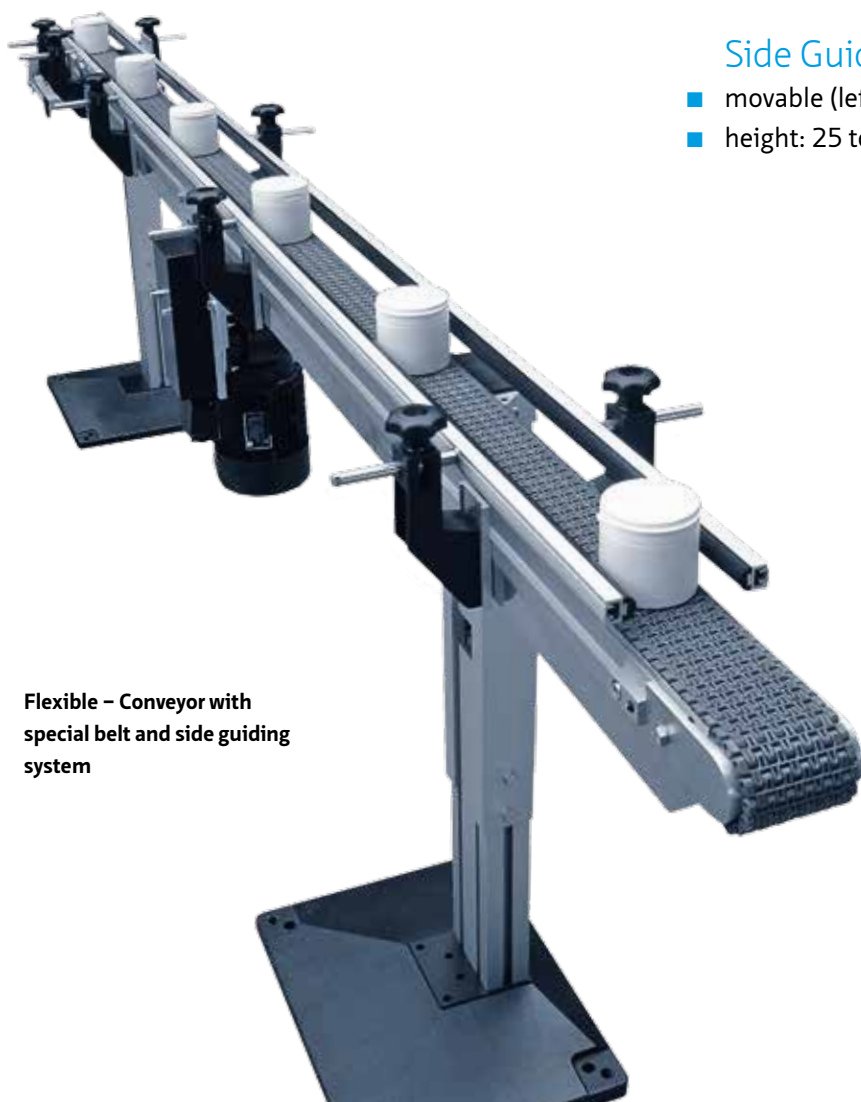
- the base systems can be simply married with the t-slots of the belt body
- the Base System 51.2 is mounted on one side only and supports widths of up to 150 mm; due to its very large floor plate, one base is usually enough
- the Base System 53.1 is mounted left and right of the belt body and thus suitable for wide units; since the mounting feet are relatively small, two bases are recommended

Side Guide SF 1.3

- fix
- height: 10 to 50 mm

Side Guide SF 3.1

- movable (left / right)
- height: 25 to 75 mm

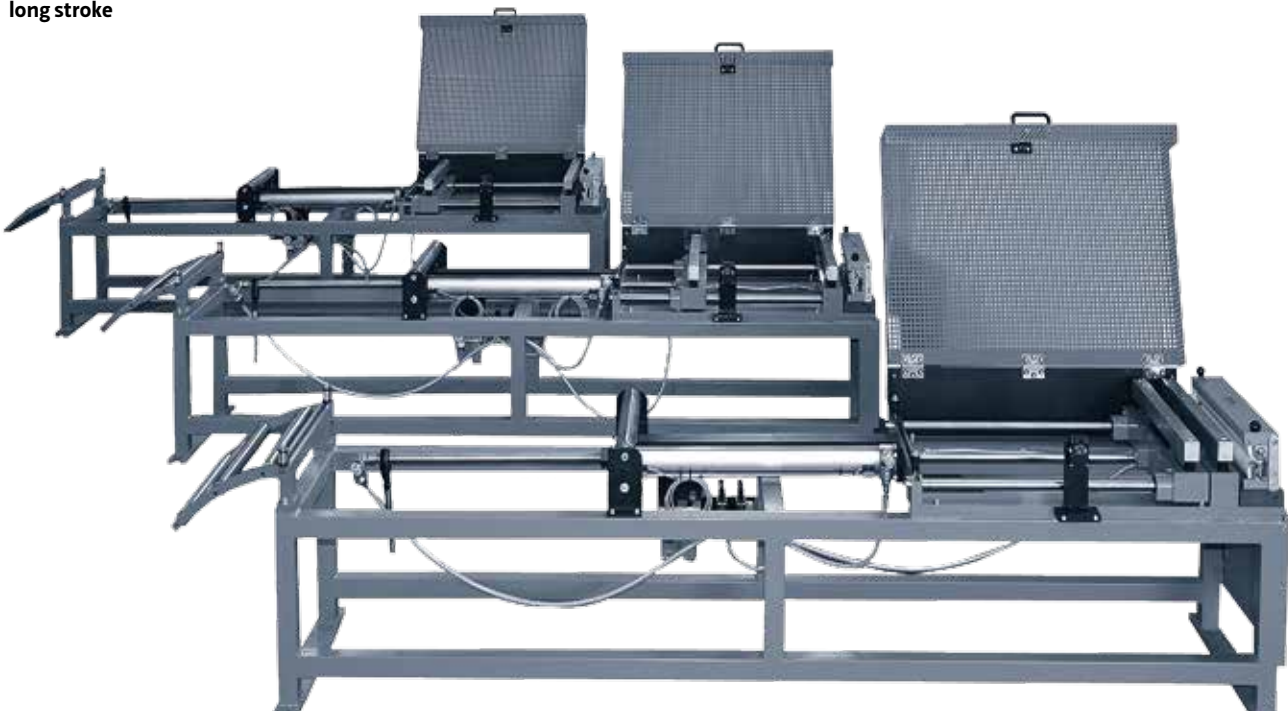


Flexible – Conveyor with special belt and side guiding system

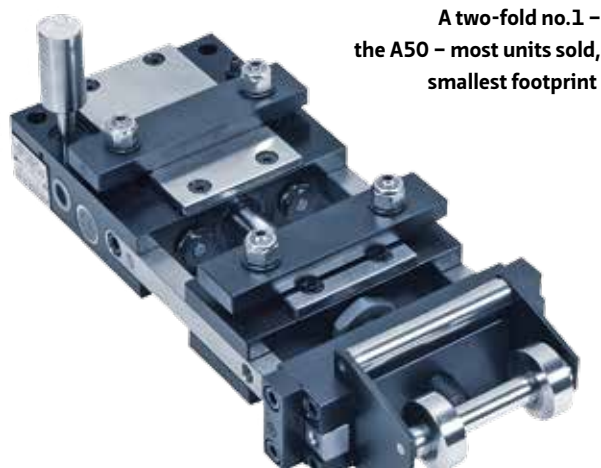
Air Feeds

Roll Feeds with servo drive: They revolutionized the advancement of strip material in the early 1980's. However, Air Feeds became far from obsolete: over 90 different GSW-Models show that even today demands for costs, material geometry or composition as well as mounting situations more than justify this technology.

**Far ranging – heavy-duty
Air Feeds with especially
long stroke**



Air Feeds



A two-fold no.1 –
the A50 – most units sold,
smallest footprint

For small to medium cross-sections

- solid design
- compact build, very versatile and most compact in design, simplest mounting
- to feed tube, strip, profile materials, as well as wire, steel, paper, cardboard and fabrics
- with little air consumption operating at lowest costs
- great feeding accuracy and repeatability
- with optional pilot release (pneumatic)
- for up to 610 mm stock width and up to 4.5 mm thickness
- all metric screws, bolts and fittings

A / B / C Series for up to 100 mm stock widths

- 250 mm max single feed stroke, other stroke lengths on request
- 240 N pulling power
- initiation directly by press slide (via crank) or via electro-pneumatic solenoid valves

BX / CX / DX Series for up to 150 mm stock widths

- 250 mm max single feed stroke, other stroke lengths on request
- 410 N pulling power
- initiation directly by press slide (via crank) or via electro-pneumatic solenoid valves

SZ / ZX Series for up to 304 mm stock widths

- 250 mm max single feed stroke, other stroke lengths on request
- 820 N pulling power
- initiation via electro-pneumatic solenoid valves (e.g. 24 V DC)

P / S / Z Series for up to 305 mm stock widths

- 300 mm max single feed stroke, other stroke lengths on request
- 1,080 N pulling power
- initiation directly by press slide (via crank) or via electro-pneumatic solenoid valves

V / K / TZ / 2TK Series for up to 610 mm stock widths

- 400 mm max single feed stroke, other stroke lengths on request
- with 2,160 / 3,240 / 4,300 N highest pulling powers through multi-piston design
- initiation via electro-pneumatic solenoid valves (e.g. 24 V DC)
- with optional pilot release (pneumatic)

Air Feeds

For small to medium cross-sections



**Buff – Air Feed 2TK –
the most powerful among the compacts**

Series	Maximum material width	Maximum feed stroke	Maximum material thickness	Pulling power
	mm	mm	mm	N
A	50	50-250	1,1-1,9	240
B	75	50-250	1,1-1,8	240
C	100	50-250	1,2-1,7	24
BX	75	50-250	1,5-2,2	410
CX	100	50-250	1,5-2,0	410
DX	150	50-250	1,0-1,6	410
SX	204	50-250	1,0-1,5	820
ZX	304	50-250	0,9-1,1	820
P	155	100-300	3,0-3,8	1.080
S	205	100-300	3,0	1.080
Z	305	100-300	2,5-3,0	1.080
V	460	100-400	1,8-3,0	2.160
K	610	100-400	1,5-2,5	2.160
TZ	305	100-300	3,5-4,5	3.240
2TK	610	100-300	2,0-3,0	4.300

Air Feeds

For large cross-sections

- high accuracy for feed-lengths of ± 0.05 mm
- high clamping force to serve even large material cross-sections
- serving a wide variety of materials, such as coil-, band-, bar- or profile stocks or even wires, cardboards, papers and fabrics
- operation in push- or pull mode or combined in push-pull mode
- special air cylinder design for reduced air consumption
- feed length adjustment via fine-threaded spindle

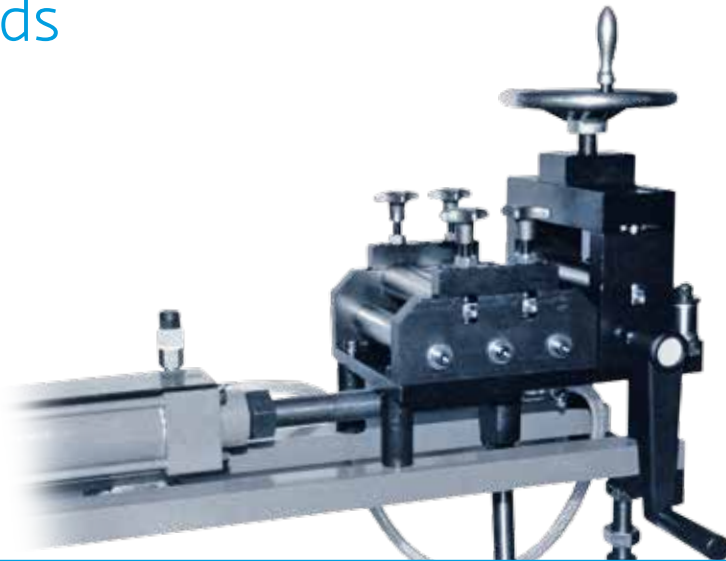
Series	Maximum material width	Maximum feed stroke	Maximum material thickness	Clamping force @ 6 bar	Pulling power @ 6 bar
	mm	mm	mm	N	N
ZVTMB 100	100	85-285	3,0	1.100	3.200
ZVTMB 150	150	185-585	3,5	1.800	5.600
ZVTMB 200	200	185-585	3,4	1.800	5.600
ZVTMB 300	300	185-585	3,2	1.800	5.600
ZVTMB 400	400	185-585	3,0	1.800	5.600
ZVTMB 500	500	185-585	2,5	1.800	5.600

* ask for hydraulic units for highest clamping and feeding power



**Tight grip –
Air Feed ZVTMB 150 –
for thickness up to 4 mm**

Air Feeds



**Quick - Pull-Thru Straightener
with manual feed rolls for fast
set-up**

Accessories

For small to medium cross-section Feeds

- electro-pneumatic initiation via solenoid valve (e.g. 24 V DC)
- electro-pneumatic pilot release via solenoid valve (e.g. 24 V DC)
- protecting cover
- Filter-Regulator-Lubricator to supply the air with oil and filter particles and condensation
- manual on / off valve
- manual on/off valve for quick disconnect
- single- or double belt attachment for surface-critical materials
- telescopic guide for thin wires
- thin-stock guiding device for materials of 1.0 mm and under
- special grippers and guides plates for profiles
- height adjustable mounting bracket with slotted holes
- machine base frames with optional height adjustment
- pull-thru strip- and wire straightener units etc.

For large cross-section Feeds

- elektro-pneumatic initiation via solenoid valve (e.g. 24 V DC)
- pneumatic pilot release via solenoid valve (e.g. 24 V DC)
- electrical control systems
- protective cover
- Filter-Regulator-Lubricator to supply the air with oil and filter particles and condensation
- manual on / off valve
- thin stock guiding system
- special grippers for very thin stocks, wires or profiles
- height adjustable mounting bracket
- machine base frames with optional height adjustment
- strip lubricators
- pull-thru straightener units etc.

Contact Lubri- cating Systems

Brand new and high-fashioned: Roller Lubricators with intelligent controls, stainless steel housing and smart technology.

Ready to go – the “plug-and-play” Roller Lubricator:
Just plug in and lube



Roller Lubricator

FC Series

- This line of Roller Lubricators will balance strip floating thanks to a spring-socketed inner box. Stainless steel housing, flexible pass line and special, individually controllable spray nozzles benefit set-up time and operating costs.

FC-1012

- for up to 300 mm stock width and max 10 mm thickness; roller diameter: 57 mm

FC-1020

- for up to 500 mm stock width and max 10 mm thickness; roller diameter: 57 mm

FC-1030

- for up to 750 mm stock width and max 10 mm thickness; roller diameter: 76 mm

FC-1036

- for up to 900 mm stock width and max 10 mm thickness; roller diameter: 76 mm

FC-1048

- for up to 1,200 mm stock width and max 10 mm thickness; roller diameter: 76 mm

FC-1060

- for up to 1,500 mm stock width and max 10 mm thickness; roller diameter: 101 mm

- less than 2 minutes for roll exchange
- spring-loaded pressurizing, pneumatic opening
- electrical control unit for flexible press interfacing
- reservoir with diaphragm pump in 3 sizes (15, 30 or 57 liter capacity)

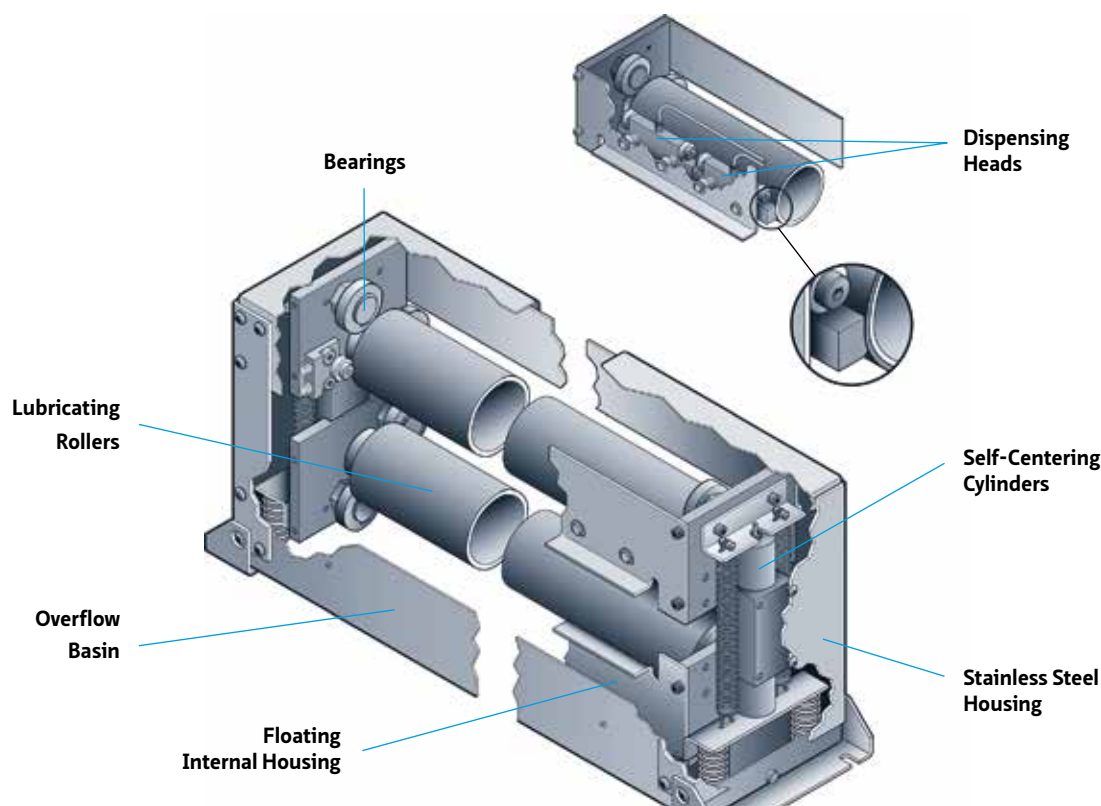
Accessories

- level control with optical signal, possible electrical tie-in for unit shut-off upon low-level detection; series E-155 / 158 / 165 for reservoir with 15 / 30 / 57 liter capacity
- diaphragm pump, series E-7310
- 24V DC solenoid valve, series FC-2125
- reservoir with diaphragm pump, series FC-7314 / 7319 / 7320 for reservoir capacity 15 / 30 / 57 liter
- electrical control unit, series E-205

Sleek – Roller Lubricator with strip balancing system and stainless steel housing



Roller Lubricator



Technology

Stainless Steel Housing

- no rust, tough shell – good as new after years

Electrically controlled

- lube allocation with smart electrical control
- operator chooses how much lube and when

Selective Lubrication

- special spray heads with individual activation will spread the lube evenly – for less lube cost, less cleaning effort and less maintenance cost

Flexible Lube choice

- utilizing of lubricants from light to heavy viscosity

Fast Roller exchange

- less than 2 minutes
- flexible and quick restart
- manual control mode for pre-lubrication

Fast Lube exchange

- compact reservoirs with pumps (see Accessories) for additional lubricants, seconds only to swap and minutes only to clean the hoses if necessary

Roller Lubricator

MC Series

- This small yet complete system with reservoir, controls, valve and tubing as well as all other necessary components can be very easily installed and is quickly set to use – even for 3 mm strip thickness

MC-101

- accepts stock up to one inch in width. Includes two felt rolls and two dispensing manifolds, one for each roll

MC-103

- accepts stock from 1/2 inch up to three inch in width. Includes felt rolls and two dispensing manifolds, one for each roll

MC-106

- accepts stock from two inches to six inches in width. Includes felt two rolls and four, three inch dispensing manifolds, two for each roll

MC-109

- accepts stock from five inches to nine inches in width. Includes two felt rolls and six, three inch dispensing manifolds, three for each roll

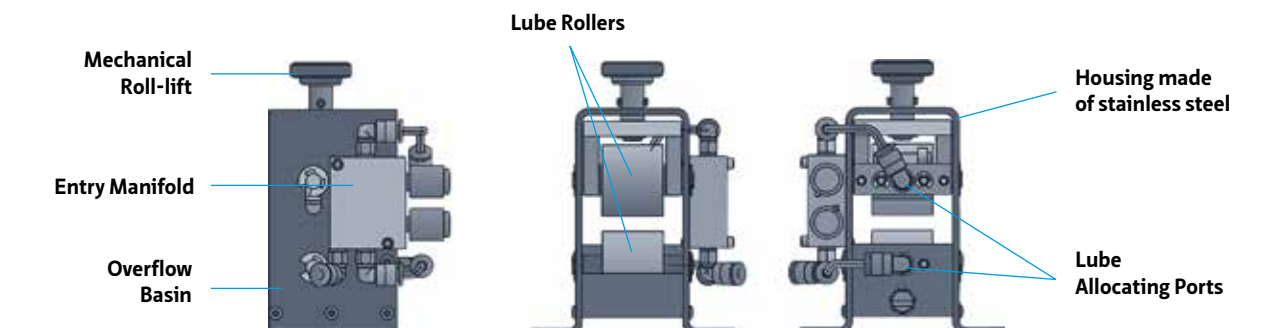
Accessories

- control unit with pulse-regulation from 1 to 300/min⁻¹, for tie-in with the press start / stop cycle; series E-315
- 24 V DC solenoid valve, possible tie-in with the press cycles; series E-230
- pressurized reservoir including blow-off valve and 100 micron filter; series MC-312

Smart – this small box contains big possibilities:
the E-315 Control Unit



Roller Lubricator



Technology

Housing made of stainless steel

- compact design to fit tight spaces
- effective protection of the functional inner part
- solid built to withstand strip buckling and -bounce

Mechanical Roll-lift

- quick-lock for easy opening of the upper lube roll at job change
- steady strip contact thru heavy-duty spring

Lube Rollers

- wear resistant and with highly absorbent felt surface
- lower roll fixed, upper roll spring-loaded

Entry Manifold

- controls the allocation of lubricant to the individual ports

Lube Allocation

- the lubricant is split within the entry manifold and sent to the upper and lower exit manifolds; from there it is evenly spread over the rollers

Pulse Controller

- the pulsing control unit intelligently initiates the solenoid valves according to the press cycles

Proximity Switch

- measures strip movement and sends signal to the controller

Overflow Basin

- excess lubricant is collected on the bottom of the MC Unit and drained back to the reservoir

24 V DC Solenoid Valve

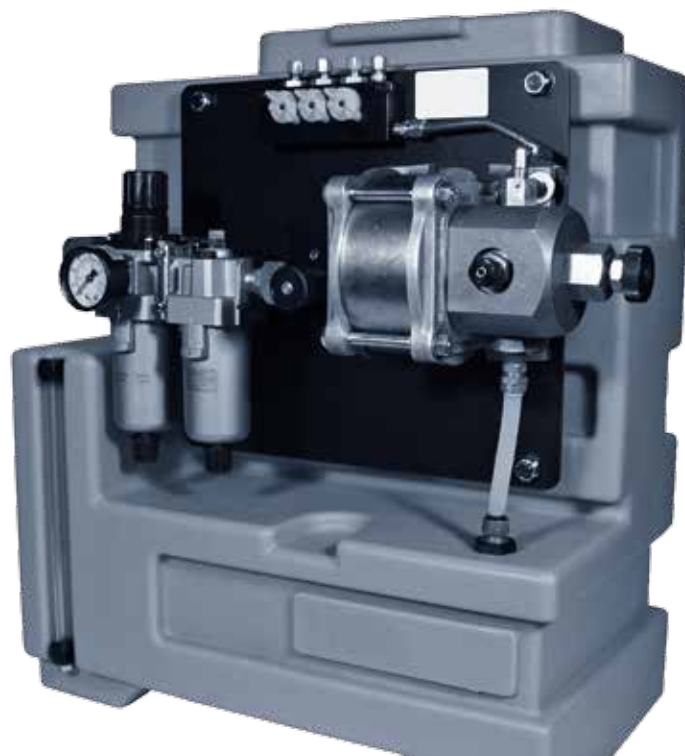
- to administrate the pulse signals and start or stop the lube flow

Reservoir

- pressurized reservoir with clear Lexan wall and 4-liter capacity, with blow-off valve and 100 micron filter

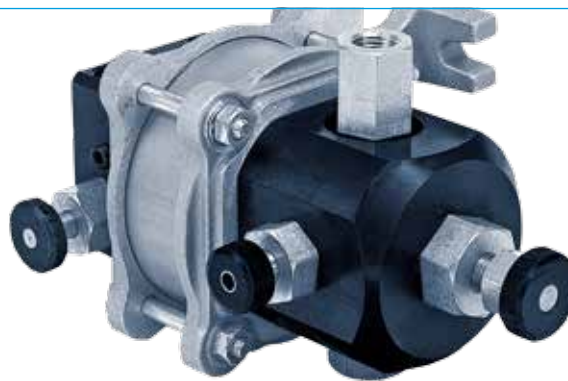
No-Contact Lubricating Systems

Precise: Fogless spray lubrication even with high-viscosity lubricants. Powerful pumps and sophisticated accessories make almost any lube application possible.



All-inclusive – pump, filter-regulator-lubricator, manifolds – in compact arrangement on one central reservoir

Press-Spray I



**Strong as a bull –
the Pump P-175 with extremely
high spray performance**

Pumps for different lube viscosities

- flexible lubrication thru individual nozzle activation
- better tool life-time and higher productivity thru well-directed lubrication
- air pressure only to operate the pumps but not to spray lubricant – thus no spray mist

Pump P-010 / P-040 for minute lubrication

- special designed pump for minimal lube consumption; viscosities up to 80 mm²/s, with one or two outlet ports
- super-fine coating, ideal for narrow strip or short feed advancements, e.g. on high-speed presses
- typical application: use of vanishing lubes on stamping parts that need quick cleaning

Pump P-125 / P-135 for all-purpose service

- universal pump for many applications; viscosities up to 125 mm²/s, with four outlet ports
- high frequencies for multiple pulses during one job cycle
- typical application: high-variety jobs with different tools and lubricants

High-Performance Pump P-175

- super-duty pump for reliant work also with high-viscosity jobs, e.g. the forming technology; viscosities up to 400 mm²/s, with four outlet ports
- high frequencies for multiple pulses during one job cycle
- typical application: large forming parts that need spray lubrication in several areas

Series	Maximum no. of nozzles with 80 mm ² viscosity	Maximum no. of nozzles with 150 mm ² viscosity	Maximum no. of nozzles with 200 mm ² viscosity	Maximum no. of nozzles with 400 mm ² viscosity	Volume per pulse cm ³	Maximum pulses per minute
P-010	1	–	–	–	0.01	450
P-040	2	1	–	–	0.06	400
P-125	5	3	2	–	0.21	350
P-135	10	6	5	4	0.77	300
P-175	20	12	10	7	1.73	200

Press-Spray II

Spray Jet

- flexible lubrication thru individual fine-adjustment of single pumps
- increase of tool lifetime thru well-directed lubrication – especially with complex tooling
- air pressure only to operate the pumps but not to spray lubricant – thus no spray mist
- optional electrical control for adaption of the press cycle

Series P-142 to P-158

- spray jet in compact build with integrated reservoir
- maximum viscosity: 150 mm²/s

Series P-160 to P-167

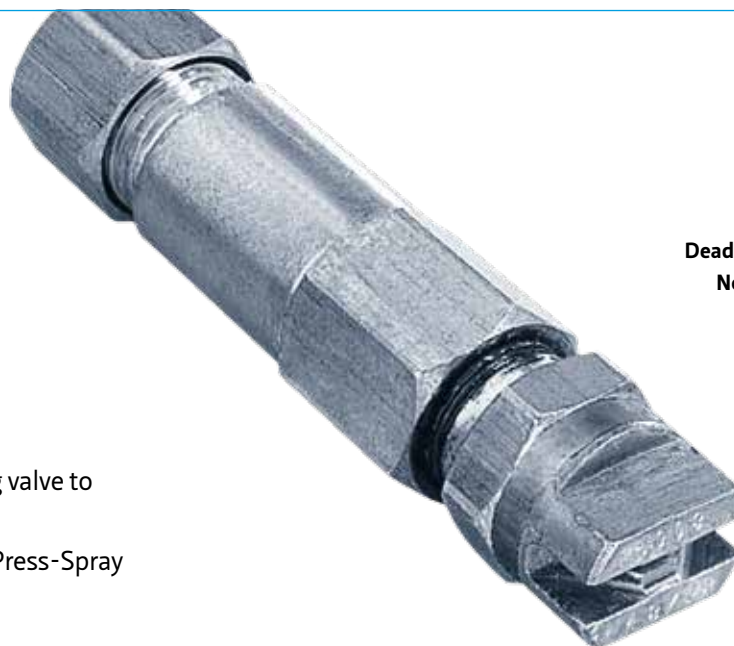
- spray-jet with pumps, base plate and mounting bracket but without reservoir
- maximum viscosity: 150 mm²/s

Series	No. of pumps	Reservoir
		liter
P-152	2	15
P-154	4	15
P-156	2	30
P-157	4	30
P-158	6	30
P-142	2	57
P-143	4	57
P-144	6	57
P-160	2	to 57
P-161	4	to 57
P-162	6	to 57
P-165	8	to 57
P-166	10	to 57
P-167	12	to 57



Extended – Pump for direct control of one extended lube axis

Press-Spray



Dead on target –
Nozzle P-201

Nozzles

- all nozzles are equipped with locking valve to prevent dripping after shut-off
- all nozzles come with fitting for the Press-Spray hose P-940

Category	Series	Spray-pattern side-view (rectangle)	Spray-pattern top view (oval)	Spray-angle	Length
					mm
Standard nozzle with sleeve	P-201	very low ▲	very wide ●	110°	57
	P-202	low ▲	wide ●	80°	57
	P-203	equal-sided ▲	medium wide ●	65°	57
	P-205	high ▲	narrow ●	25°	57
	P-207	equal-sided ▲	equal ●	55°	57
Standard nozzle with hose	P-211	very low ▲	very wide ●	110°	305
	P-212	low ▲	wide ●	80°	305
	P-213	equal-sided ▲	medium wide ●	65°	305
	P-215	high ▲	narrow ●	25°	305
	P-217	equal-sided ▲	equal ●	55°	305
Standard nozzle with hose and magnetic base	P-221	very low ▲	very wide ●	110°	305
	P-222	low ▲	wide ●	80°	305
	P-223	equal-sided ▲	medium wide ●	65°	305
	P-225	high ▲	narrow ●	25°	305
	P-227	equal-sided ▲	equal ●	55°	305
Special nozzle for minimal lube consumption with Pump P-010	P-230	very low ▲	very wide ●	110°	22.5
	P-233	low ▲	wide ●	80°	22.5
	P-234	equal-sided ▲	medium wide ●	65°	22.5
	P-235	high ▲	narrow ●	25°	22.5
	P-236 Tropfdüse				22.5
Nozzle for tool mounting	P-241	very low ▲	very wide ●	110°	22.5
	P-242	low ▲	wide ●	80°	22.5
	P-243	equal-sided ▲	medium wide ●	65°	22.5
	P-245	high ▲	narrow ●	25°	22.5

Press-Spray



Two of many smart accessories – manifolds for the Press-Spray I

Accessories

Series P-901

- mechanical actuator for pump initiation

Series P-902

- replacement pump for Press-Spray II

Series P-918

- quick disconnect (sleeve)

Series P-919

- quick disconnect (plug)

Series P-925

- nozzle bracket holder

Series P-932

- 2-port manifold for Press-Spray I

Series P-934

- 4-port manifold for Press-Spray I

Series P-940

- high-pressure hydraulic hose

Series P-943

- high-pressure hydraulic hose for Pump P-010

Series E-230

- electro-pneumatic solenoid valve for spray initiation

CompuSpray

Lube-Hybrid

- Hybrid-technology – just for cars? CompuSpray is the Lubrication-Hybrid: featuring a perfect addition to the Press-Spray Technology (pages 22 to 30) this system will allow selective spray lubrication while fully boxed in a stainless steel housing. Special brushes evenly spread the pulse-activated lube on the strip and prohibit any mist from exiting the system. Excess lube is collected and drained back into the reservoir.

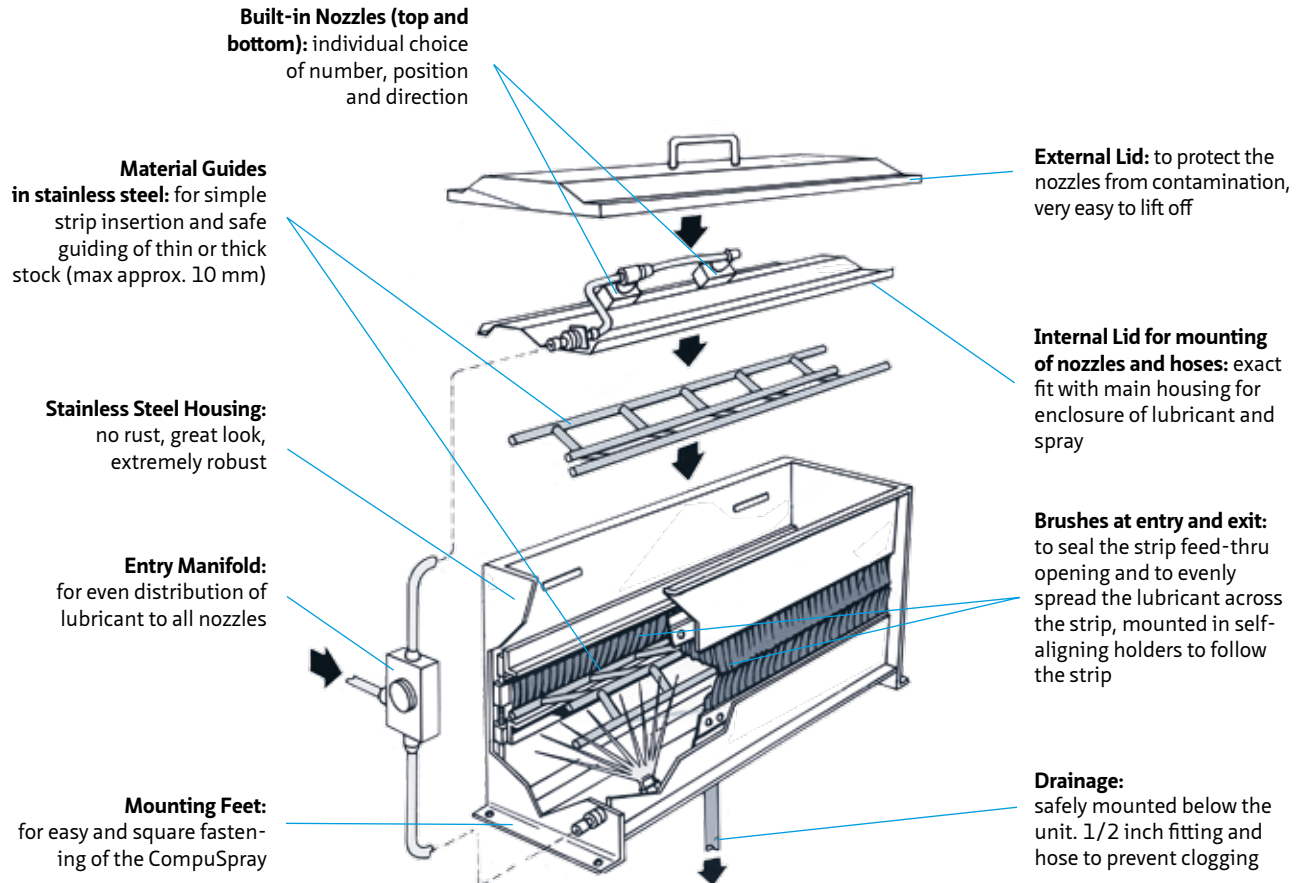
Accessories

- 45° angled entry or exit strip guide, made of stainless steel ; to support threading if CompuSpray is mounted right after the Feeder

GSW offers integration into its electrical controls system for intelligent choice of individual nozzles.

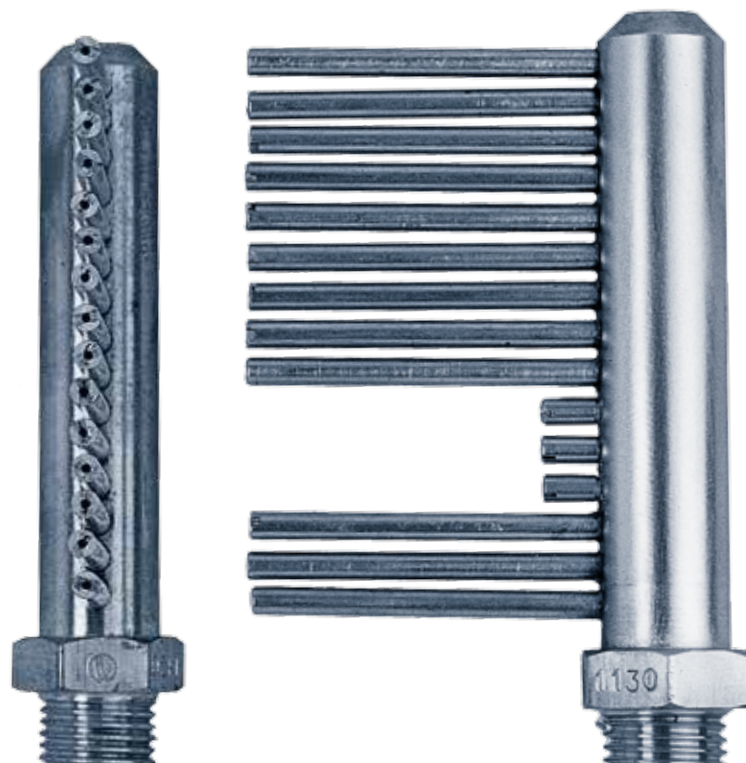
- this way, a minimal and exactly defined lubrication according to the feeding pattern is possible. The programming and visualization becomes part of the main PLC – for an unbeatable price-performance ratio!

Technology



Blow-Out & Cleaning Systems

Cleanliness pays off over time. GSW-Nozzles prove this on a daily basis. Always exactly fitting the application, these components free any machine of burrs, oil and dust – quickly and with little noise.



**Well combed – a universal nozzle
for finest airstreams**

Round Air Nozzle

The standard nozzle

- the good value-for-money choice for all standard applications
- high blowing power at low noise
- flexible in application
- low air consumption
- heat resistance: 90° C

Perfect shape – low price and flexible – the round nozzle



Series	Material	Maximum blow force	Maximum noise level at 1 m distance	Maximum air permeability
		N	dB	m³/h
Softy 808	Aluminium	3.0	77	12.5
Softy 986	Aluminium	5.0	87	25.0
Softy 987	Aluminium	6.0	92	40.0
Softy 828	Steel, galvanized	3.2	90	16.0
Softy 864	Brass	62.0	105	450.0
Softy 849	Brass	55.0	101	510.0
Softy 863	Brass	45.0	101	310.0

All data for 5 bar air pressure

Flat Air Nozzle

Special nozzles for special applications

- high blowing power at lowest consumption of compressed air and very low noise
- the right head-shape for every purpose
- flexibility for many tools
- ideal for blowing out punch parts
- heat resistance: 90° C

Specific – no single airstream to miss the object – our flat nozzles



Series	Material	Maximum blow force	Maximum noise level at 1 m distance	Maximum air permeability
		N	dB	m³/h
Softy 809	Steel, galvanized	5.8	87	40.0
Softy 823	Steel, galvanized	8.2	87	50.0
Softy 842	Brass	4.9	80	24.0
Softy 843	Brass	10.0	87	50.0
Softy 848	Brass	43.0	102	265.0
Softy 868	Steel, galvanized	10.0	90	61.0
Softy 874	Brass	12.0	87	48.0
Softy 875	Brass	16.0	92	90.0
Softy 881	Brass	35.0	100	275.0
Softy 962	Brass	27.0	98	135.0
Softy 836	Brass	5.2	91	40.0

All data for 5 bar air pressure

Clustered Air Nozzle

Special nozzles for large areas

- ideal for producing an air curtain or for drying of large surfaces
- high blowing power at low noise
- flexibility for many tasks
- heat resistance:
Softy 829b: 90° C, Softy 1130: 400° C

Series	Material	Maximum blow force	Maximum noise level at 1 m distance	Maximum air permeability
		N	dB	m³/h
Softy 829 b	Brass	38.0	97	230.0
Softy 1130	Brass	4.5	86	25.0

All data for 5 bar air pressure;
other designs on request (for bulk purchase only)



One for all – universal nozzle
for large surfaces

Blow-Out & Dosing

Blow-Out Fitting BOBBY

- self-adherent thru magnetic base
- suitable also for cooling liquid
- amount of escaping air/liquid fine-adjustable
- with 1/4" and 3/8" fitting
- with stable flex line for accurate positioning in different lengths (300 / 400 / 500 / 630 mm);
inside diameter for 1/4": 6mm
inside diameter for 3/8": 8 mm
outside diameter for 1/4": 13mm
outside diameter for 3/8": 16 mm



Stripped or complete – basic model with ball tap and 1/4" fitting only, or "turn-key" unit including flex hose

"In our
systems your
metal is well
invested."

Hans-Werner Preuß
Sales Systems

SYSTEMS MACHINES TOOLS & DIES ACCESSORIES



**Compact Cut-To-Length Lines
for large cross-sections**

GSW

Sheet metal fans since 1963.

Inquiry via fax to: +49 2152 2454

Company:

Contact:

Phone:

E-mail:

Please send me more information about the topics of the Accessories Catalog as checked below:

- | | | |
|---|---|--|
| <input type="checkbox"/> Coil Tilting Hooks | <input type="checkbox"/> Horizontal Belt Conveyors TB Mini | <input type="checkbox"/> Press-Spray I |
| <input type="checkbox"/> Linear Parts Transporter Classic-Series | <input type="checkbox"/> Horizontal Belt Conveyors TB 2000 | <input type="checkbox"/> Press-Spray II |
| <input type="checkbox"/> Linear Parts Transporter Powerspeed-Series | <input type="checkbox"/> Horizontal Belt Conveyors Accessories | <input type="checkbox"/> Press-Spray Nozzles |
| <input type="checkbox"/> Linear Parts Transporter Accessories | <input type="checkbox"/> Air Feeds for small to medium cross-sections | <input type="checkbox"/> Press-Spray Accessories |
| <input type="checkbox"/> Powerspeed Multiple Tray System | <input type="checkbox"/> Air Feeds for large cross-sections | <input type="checkbox"/> CompuSpray |
| | <input type="checkbox"/> Air Feeds Accessories | <input type="checkbox"/> Round Air Nozzle |
| | <input type="checkbox"/> Roller Lubricator FC Series | <input type="checkbox"/> Flat Air Nozzle |
| | <input type="checkbox"/> Roller Lubricator MC Series | <input type="checkbox"/> Clustered Air Nozzle |
| | | <input type="checkbox"/> Blow-Out Fitting |

Or provide me with a quote for a customized GSW Machine / Coil Line as specified below:

- ☐ Single Machine:
- ☐ Coil Feeding Line with Reel / Straightener / Servo Roll Feed
- ☐ Coil Feeding Line with Reel and Feeder-Straightener
- ☐ Coil Feeding Line with Cradle-Feeder-Straightener
- ☐ Cut-To-Length Line w/o Stacking
- ☐ Cut-To-Length Line with Stacking
- ☐ Slitting Line
- ☐ Combination Slitting / Cut-To-Length Line
- ☐ Coiling Line

Material:

Material Tensile Strength:

Cross-Section min:

Cross-Section max:

Desired Output:

Leveling preference: ☐ simple ☐ medium ☐ fine

Notes:



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Sheet metal fans since 1963.