

Feeding Technology



Screw Presenter

An economical way to automate your production

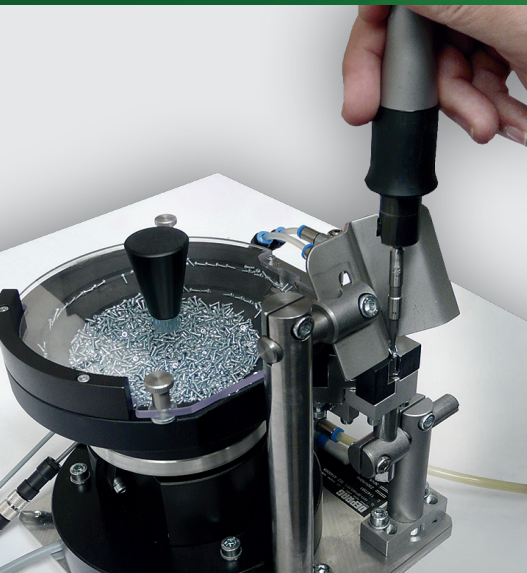
- flexible through interchangeable guide-rails
- suitable for virtually all screw-types
- feeding principle is gentle on screws
- self-sufficient because of its integrated control
- compact design



You are looking for a quick solution to automate your assembly, but an automatic screwfeeder is not feasible because of the low number of screws to be processed.

For such a case, the DEPRAG Screw Presenter is the ideal solution.

Screw Presenters are well-suited for the automatic presentation of screws to allow pickup with handheld- or stationary screwdriver.



ADVANTAGES OF THE DEPRAG SCREW-PRESENTERS

■ Flexible

Easily exchangeable parts, such as adjustable cover-rails and bit-guides, allow the processing of screws with different measurements in the same screw-presenter. With just a few steps, you can convert your screw presenter. Even screws with unfavourable measurements, which cannot be transported through a feedhose, can be presented with the screw-presenters.

■ Operator friendly

For the use in a handheld application, a special feed-rail allows a precise and swift pick-up of the presented screw by either a magnetic bit or by vacuum.

■ Gentle transporting of screws

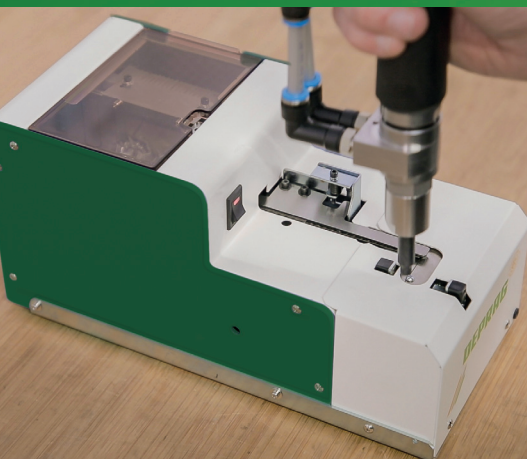
The transport of the screws occurs by two lift-segments in the screw-reservoir. The screws fall on top of a vibrating guide-rail, are accurately positioned by a brush and subsequently transported out of the reservoir. The procedure is especially gentle and quiet.

■ Stand-alone operation

The device is fully self-sufficient because of the integrated control. The sequence controller regulates the process reliable supply of screws, due to a light-barrier and micro-switch.

■ Compact design

Due to their compact design, multiple DEPRAG screw presenters can be arranged efficiently in limited work spaces.



SPECIAL SOLUTIONS

If required we also develop screw-presenters that are tailored to the requirements of a customer-specific application.

An Example: Particularly when the demands of industrial series production are very high, DEPRAG can offer an extremely robust and durable custom-design.

Such a system consists of a unit where the screw-supply is actually done by a vibratory-bowl.

A robust guide plate made from stainless steel allows the reliable and comfortable picking of the screw at a high mass-production rate.

SCREW PRESENTERS USED WITH HANDHELD TOOLS

For the supply of screws with a shaft-diameter of 1 mm to 5 mm and a shaft-length up to max. 25 mm.

The screw pick-up is done by magnetic bit or vacuum suction.

An operator can comfortably pick-up the screw with a forward motion.

SCREW PRESENTERS USED WITH STATIONARY TOOLS

For the supply of screws with a shaft-diameter of 1.4 mm to 5 mm and a shaft-length up to max. 18 mm.

This screw-presenter is especially well-suited for countersunk screws.

A screw-separator presents each individual screw to a pick-up position. The screw is removed using an upwards motion. A signal-output allows the control of the pick-up position by a host controller.



TECHNICAL DATA FOR SCREW-PRESENTERS USED WITH HANDHELD TOOLS

For shaft lengths up to 10 mm / 0.39 in.

Screw-presenter	Type Part no.	1211-ES/14 3788881D	1211-ES/17 3788882D
Max. feed rate	parts/min	120	
Filling capacity	liter / gal.	0.08 / 0.02	
Operating voltage (DC)	V	12	
Power consumption	mA	500	
Dimensions (W x D x H)	mm / in.	123 x 181 x 145 / 4 27/32 x 7 1/8 x 5 45/64	
Weight	kg / lbs	2.9 / 6.38	
for shaft diameter	mm / in.	to 1.4 / to .055	to 1.7 / to .067
for shaft length	mm / in.	2 - 10 / .080 - .394	2 - 10 / .080 - .394
Required Accessories	Power unit, part no. 125512 / 125590 - technical data please see page 4		

For shaft lengths up to 16 mm / 0.6 in.

Screw-presenter	Type Part no.	1211-ES-K/12 407254A	
Max. feed rate	parts/min	40	
Filling capacity	liter / gal.	0.05 / 0.013	
Operating voltage (DC)	V	15	
Power consumption	mA	1000	
Dimensions (W x D x H)	mm / in.	55 x 205 x 142.5 / 2 11/64 x 8 5/64 x 5 39/64	
Weight	kg / lbs	2.4 / 5.3	
Required Accessories			
Guide rail	Type Part no.	1211-K-10 832470	1211-K-12 832471
Distance between the guide rails	mm / in.	1 / .039	1.2 / .047
for shaft diameter	mm / in.	0.9 - 1 / .035 - .039	1.1 - 1.2 / .043 - .047
for shaft length	mm / in.	2 - 16 / .080 - .625	2 - 16 / .080 - .625
Power unit	Type Part no.	1211-ES-K 230 V/50 Hz 407636A	1211-ES-K 115 V/60 Hz 407637A
Source (AC)	V/Hz	230/50	115/60
Output (DC)	V	15	15

For shaft lengths up to 18 mm / 0.7 in.

Screw-presenter	Type Part no.	1211-ES/23 378889C		1211-ES/45 378890C				
Max. feed rate	parts/min	40		40				
Filling capacity	liter / gal.	0.1 / 0.03		0.1 / 0.03				
Operating voltage (DC)	V	12		12				
Power consumption	mA	500		500				
Dimensions (W x D x H)	mm	130 x 215 x 136		130 x 215 x 136				
	in.	5 1/8 x 8 15/32 x 5 3/8		5 1/8 x 8 15/32 x 5 3/8				
Weight	kg / lbs	3 / 6.6		3 / 6.6				
Required Accessories								
Guide rail	Type Part no.	1211-20 825573	1211-23 825574	1211-26 825575	1211-30 825576	1211-35 825577	1211-40 825578	1211-50 825579
Distance between the guide rails	mm / in.	2 / .080	2.3 / .091	2.6 / .103	3 / .120	3.5 / .140	4 / .158	5 / .198
for shaft diameter	mm	1.8 - 2	2.1 - 2.3	2.4 - 2.6	2.7 - 3	3.1 - 3.5	3.6 - 4	4.5 - 5
	in.	.071 - .080	.083 - .091	.095 - .103	.107 - .120	.123 - .140	.142 - .158	.178 - .198
for shaft length	mm	2.6 - 18	2.9 - 18	3.2 - 18	3.6 - 18	4.1 - 18	4.6 - 18	5.6 - 18
	in.	.103 - .710	.115 - .710	.126 - .710	.142 - .710	.162 - .710	.182 - .710	.221 - .710
Power unit		Part no. 125512 / 125590 – technical data please see page 4						

TECHNICAL DATA FOR SCREW-PRESENTERS USED WITH HANDHELD TOOLS

For shaft lengths up to 25 mm / 0.985 in.								
Screw-presenter	Type	1211-ES-G/23				1211-ES-G/45		
	Part no.	387672C				387673C		
Max. feed rate	parts/min	30				30		
Filling capacity	liter / gal.	0.1 / 0.03				0.1 / 0.03		
Operating voltage (DC)	V	12				12		
Power consumption	mA	500				500		
Dimensions (W x D x H)	mm / in.	130 x 215 x 136 / 5 1/8 x 8 15/32 x 5 3/8				130 x 215 x 136 / 5 1/8 x 8 15/32 x 5 3/8		
Weight	kg / lbs	3 / 6.6				3 / 6.6		
Required Accessories								
Guide rail	Type	1211-G-20	1211-G-23	1211-G-26	1211-G-30	1211-G-35	1211-G-40	1211-G-50
	Part no.	827560	827561	827562	827563	827679	827680	827681
Distance between the guide rails	mm / in.	2 / .080	2.3 / .091	2.6 / .103	3 / .120	3.5 / .140	4 / .158	5 / .198
for shaft diameter	mm	1.8 - 2	2.1 - 2.3	2.4 - 2.6	2.7 - 3	3.1 - 3.5	3.6 - 4	4.5 - 5
	in.	.071 - .080	.083 - .091	.095 - .103	.107 - .120	.123 - .140	.142 - .158	.178 - .198
for shaft length	mm	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25
	in.	.394 - .985	.394 - .985	.394 - .985	.394 - .985	.394 - .985	.394 - .985	.394 - .985
Power unit		Part no. 125512 / 125590 – technical data please see below						

Technical data power unit - required accessories for the screw presenters with shaft lengths up to 10 mm, 18 mm and 25 mm / 0.39 in., 0.7 in. and 0.985 in.			
Power unit	Type Part no.	SGx211-115-230-EU 125512	SGx211-115-230-US 125590
Source (AC)	V/Hz	115-230/50-60	115-230/50-60
Output (DC)	V	12	12
		Connection cable EU included	Connection cable US included
Additionally available: Connection cable UK (length 1.8 m), part no. 145550 Connection cable China (length 1.8 m), part no. 145719			

Counter-sunk-head screws cannot be handled by screw presenter type 1211-ES, but for these we would like to recommend type 0211-EP instead, where screws will be picked up by a vacuum system.

TECHNICAL DATA FOR SCREW-PRESENTERS USED WITH STATIONARY TOOLS

Technical data for screw-presenters used with stationary screwdrivers										
Screw-presenter	Type	0211- EP/12-14	0211- EP/12-17	0211- EP/23-20	0211- EP/23-23	0211- EP/23-26	0211- EP/23-30	0211- EP/45-35	0211- EP/45-40	0211- EP/45-50
	Part. no.	378891B	378892B	378893C	378894C	378895C	378896C	378897C	378898C	378899C
Max. feed rate	parts/min	40					40			
Filling capacity	liter / gal.	0.1 / 0.03					0.1 / 0.03			
Operating voltage (DC)	V	12					12			
Power consumption	mA	500					500			
Dimensions (W x D x H)	mm	122x180x140					130x274x136			
	in.	4 ⁵¹ / ₆₄ x 7 ³ / ₃₂ x 5 ³³ / ₆₄					5 ¹ / ₈ x 10 ³ / ₄ x 5 ³ / ₈			
Weight	kg / lbs	4.2 / 9.2					4.2 / 9.2			
Distance between the guide rails for shaft diameter	mm / in.	1.4 / .055	1.7 / .067	2 / .080	2.3 / .091	2.6 / .103	3 / .120	3.5 / .140	4 / .158	5 / .198
	mm	to 1.4	1.5 - 1.7	1.8 - 2	2.1 - 2.3	2.4 - 2.6	2.7 - 3	3.1 - 3.5	3.6 - 4	4.5 - 5
	in.	to .055	.060 - .067	.071 - .080	.083 - .091	.095 - .103	.107 - .120	.123 - .140	.142 - .158	.178 - .198
for shaft length	mm	2 - 10	2.3 - 10	2.6 - 18	2.9 - 18	3.2 - 18	3.6 - 18	4.1 - 18	4.6 - 18	5.6 - 18
	in.	.080 - .394	.091 - .394	.103 - .710	.115 - .710	.126 - .710	.142 - .710	.162 - .710	.182 - .710	.221 - .710

Required Accessories			
Power unit	Type	SGx211-115-230-EU	SGx211-115-230-US
	Part no.	125512	125590
Source (AC)	V/Hz	115-230/50-60	115-230/50-60
Output (DC)	V	12	12
		Connection cable EU included	Connection cable US included

Additionally available:
Connection cable UK (length 1.8 m), part no. 145550
Connection cable China (length 1.8 m), part no. 145719

Optional Equipment		
For screw presenters in conjunction with MICROMAT-F / MINIMAT-F screwdriver (→ product catalog D3440E) and controller fc11		
Sensor (for signal break screw presenter)	Part no.	399525A (for 1211-ES)
Adapter (for the connection of sensor and pc11)	Part no.	399526A
Sensor (for signal break screw presenter)	Part no.	399525B (for 0211-EP)
Adapter (for the connection of sensor and pc11)	Part no.	399526A

For screw presenters in conjunction with EC screwdriver and controller AST1x		
Sensor	Part no.	399525D (for 0211-EP)
Sensor	Part no.	399525E (for 1211-ES)

DEPRAG

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