GERMANN + FREI AG

State of the Art

Machinery for sustainable packaging

Company Description

Your Reliable Partner for More Than 60 Years

Germann + Frei AG, Switzerland, has been one of the world's leading innovative supplier of machines for the three-piece can making industry for over 60 years. Germann + Frei also supplies machines for the two-piece steel can making industry. The company has a sales office and experienced, trained service engineers in the USA.

Products and services

Germann + Frei products and services include single machines: parting machines, die neckers, spin flangers, beaders and seamers. Combination machines: spin flanger/beaders and synchronised combinations of single machines and/or combination machines.

The machines for the food can industry have a cylinder diameter range from 113 to 610 (45 mm to 165 mm), the production output is from 150 cpm up to 1200 cpm depending on machine type.

The Germann + Frei machines are also used in aerosol can manufacturing with a speed of up to 750 cpm.

The company provides installation and commissioning services for all their machines as well as in-house training. The G + F Academy offers special classes and workshops based on your needs.

Fast and Enduring

Parter PAV 800 / PAV 1200

This very compact machine has got 6 heads and is working with an outside rail and driven inside mandrels. It can be used for parting pre-scored welded can bodies.

The machine is designed vertically, very precise and thus best suitable for the use with very thin double reduced tinplate.

Technical data		PAV 800	PAV 1200
Diameter range	mm/imperial	52–105 / 202–404	52–105 / 202–404
Parted body height range	mm/imperial	35–140 / 106–508	35–140 / 106–508
Capacity per minute in	cans	400	600
Capacity per minute out	cans	800	1200

Compact and Reliable

Die Necker DNV 600

This machine has got 6 heads and is very compact. Working according to the well proven die necking principle it is suitable for necking welded can bodies for food, beverage or aerosols on one end or both ends.

The machine is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality.

Technical data		**DNV 600**	
		Necking one end	Necking both ends
Diameter range	mm/imperial	45–99 / 113–401	45–99 / 113–401
Cut body height range	mm/imperial	45–215 / 110–804	69–215 / 209–804
– Alternatively	mm/imperial	70–240 / 210–904	100–240 / 314–904
Capacity per minute	cans	150–600	150–600
– Alternatively	cans	150–750	150–750

For Heavy Duty Use

Die Necker DNV 1200

This machine has got 12 heads and is very compact. Working according to the well proven die necking principle it is suitable for necking welded can bodies for food, beverage or aerosols on one end or both ends.

The machine is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality.

Technical data		**DNV 1200**	
		Necking one end	Necking both ends
Diameter range	mm/imperial	52–99 / 202–401	52–99 / 202–401
Cut body height range	mm/imperial	45–215 / 110–804	69–215 / 205–804
Capacity per minute	cans	300–1200	300–1200

Long-lasting Quality

Spin Flanger SFV 600

This machine has got 6 heads and is very compact. Working according to the well proven spin flanging principle it is suitable for flanging welded can bodies for food, beverage or aerosols.

The machine is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality. For delicate BPA-free coatings a version suitable for both die and spin flanging is available, also as a retrofit.

Technical data		**SFV 600**
Diameter range	mm/imperial	45–108 / 113–404
Cut body height range Other height ranges on request	mm/imperial	40–215 / 109–804
Capacity per minute	cans	150–600
– Alternatively	cans	150–750

High Performance

Spin Flanger SFV 1200

This machine has got 12 heads and is very compact. Working according to the well proven spin flanging principle it is suitable for flanging welded can bodies for food, beverage or aerosols.

The machine is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality. For delicate BPA-free coatings a version suitable for both die and spin flanging is available, also as a retrofit.

Technical data		SFV 1200
Diameter range	mm/imperial	52–105 / 202–404
Cut body height range Other height ranges on request	mm/imperial	40–215 / 109–804
Capacity per minute	cans	300–1200

Sturdy and Dependable

Beader BEV 600

This machine has got 9 heads and is very compact. Working with an outside beading rail and inside mandrels it is suitable for beading welded can bodies.

The machine is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality.

Technical data		BEV 600
Diameter range	mm/imperial	52–99 / 202–401
Flanged body height range Shorter can heights on request	mm/imperial	76–125 / 300–415
Capacity per minute	cans	150–750

Developed for Efficiency

Beader LWB 1000

This machine has got 12 heads and is very compact. Working with an outside beading rail and inside mandrels which are synchronously driven it is suitable for beading welded can bodies.

The machine is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality.

Technical data		LWB 1000
Diameter range	mm/imperial	73–105 / 300–404
– Alternatively	mm/imperial	65–99 / 211–401
Flanged body height range	mm/imperial	58–208 / 204–803
Capacity per minute	cans	300–1000

Solid and Space-Saving

Combined Spin Flanger/ Beader SBV 600

This machine has got 6 flanging heads and 9 beading heads and is very compact. The flanging station is working according to the well proven spin flanging principle, the beading station with an outside rail and inside mandrels.

The machine can be used for the production of welded can bodies. It is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality. For delicate BPA-free coatings a version suitable for both die and spin flanging is available, also as a retrofit.

Technical data		SBV 600	SBV 602
Diameter range	mm/imperial	55–99 / 202–401	52–99 / 202–401
Cut body height range			
– Flanging only	mm/imperial	45–180 / 110–700	45–180 / 110–700
– Flanging and beading	mm/imperial	80–180 / 300–700	76–160 / 214–602
Capacity per minute	cans	150–600	150–750

Big Capacity

Combined Spin Flanger/ Beader SBV 1200

This machine has got 10 flanging heads and 12 beading heads and is very compact. The flanging station is working according to the well proven spin flanging principle, the beading station with an outside rail and inside mandrels.

The machine can be used for the production of welded can bodies as well as for two-piece cans. It is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality. For delicate BPA-free coatings a version suitable for both die and spin flanging is available, also as a retrofit.

Technical data		**SBV 1200 / SBV 1202**
Diameter range	mm/imperial	52–84 / 202–307
Cut body height range		
– Flanging only	mm/imperial	45–152 / 110–514
– Flanging and beading	mm/imperial	55–152 / 200–514
Capacity per minute	cans	300–1200

Designed for Durability

Combined Spin Flanger/ Beader SBV 400

This machine has got 6 flanging heads and 8 beading heads and is very compact. The flanging station is working according to the well proven spin flanging principle, the beading station with an outside and an inside mandrel.

The machine can be used for the production of welded can bodies. It is of vertical design, very precise and thus best suitable for the use with very thin double reduced tinplate in DR quality. For delicate BPA-free coatings a version suitable for both die and spin flanging is available, also as a retrofit.

Technical data		SBV 400	SBV 401	SBV 402
Diameter range	mm/imperial	99–166 / 401–610	99–153 / 401–603	99–153 / 401–603
Cut body height range				
– Flanging only	mm/imperial	78–208 / 300–800	88–258 / 305–1002	74–208 /214–800
– Flanging and beading	mm/imperial	122–208 / 411–800	157–258 / 600–1002	111–208 / 405–800
Capacity per minute	cans	80–330	80–330	80–400
– Alternatively	cans	40–165	40–165	

For a Smooth Work Flow

Can Seaming Machine CSM 800

This very compact machine has got 8 heads and is working according to the well-proven principle of double-seaming. The separately driven base plates and seaming chucks allow the setting of an optimal seaming spindle speed. This means that the cans can be seamed with all common types of ends.

The machine is designed vertically, very precise and thus best suitable for the use with very thin double reduced tinplate.

Technical data		CSM 800
Diameter range	mm/imperial	52–99 / 202–401
Number of seaming stations		8
Cut body height range	mm/imperial	58–208 / 204–803
Capacity per minute	cans	200–800
Connected load	kW	12,5

Compact Construction

Can Seaming Machine CSM 400

This very compact machine has got 4 heads and works according to the well-proven principle of double-seaming. The separately driven base plates and seaming chucks allow the setting of an optimal seaming spindle speed. This means that the cans can be seamed with all common types of ends.

The machine is designed vertically, very precisely and is best suitable for the use with very thin double reduced tinplate.

Technical data		CSM 400
Diameter range	mm/imperial	99–153 / 401–603
Number of seaming stations		4
Cut body height range	mm/imperial	74–258 / 214–1002
Capacity per minute	cans	80-400
Connected load	kW	12,5

High Capability

Light Tester VLT 1200

This very compact machine has got 10 heads and is suitable for testing 2-piece can bodies. It detects and ejects cans with pinholes larger than 0.002" as well as split flanges. It is equipped with an Eclipse can body light leak detection system.

The VLT 1200 is engineered according to the GERMANN + FREI philosophy. It is designed vertically, very precisely, and is best suitable to test cans in a protected environment.

Technical data		**VLT 1200**
Diameter range	mm/imperial	52–84 / 202–307
Number of stations		10
Cut body height range	mm/imperial	45–152 / 110–514
Capacity per minute	cans	300–1200
Connected load	kW	4

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