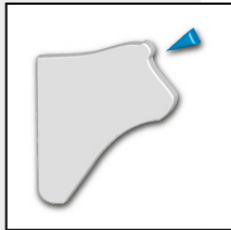
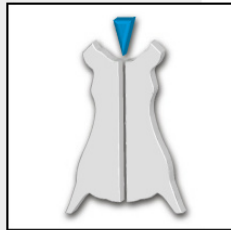


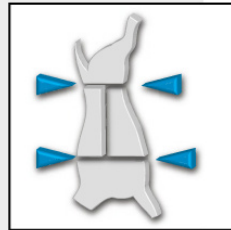
TRADITION + INNOVATION = FUTURE



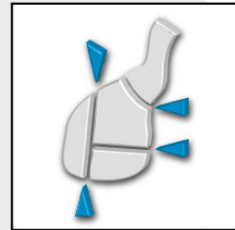
STUNNING



SLAUGHTERING



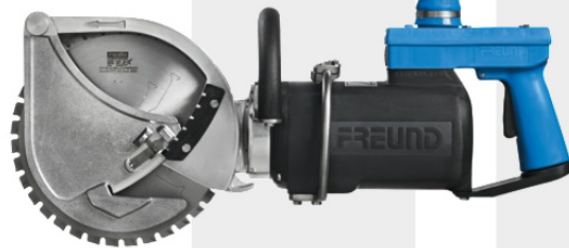
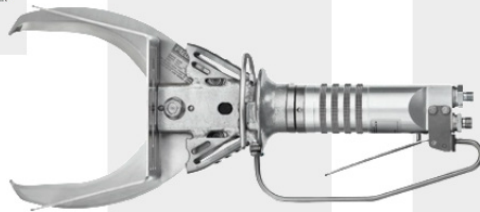
PRIMAL CUTTING



TRIMMING



SCHERMER
 STUNNER EXPERTS SINCE 1880
 A BRAND OF
FREUND



PRODUCT CATALOGUE
2023



www.freund-germany.com





A FAMILY-OWNED COMPANY THAT REFLECTS THE TIMES



SOLINGEN 18th century

Engagement with blade and cutlery manufacturing in Solingen (Barl & Wald)

As a result of the hunger crisis following World War I, the family flees to the countryside in the Paderborn area. Products and services relating to cutlery for butchers are offered there.

PADERBORN 1920



19th century WUPPERTAL

First mention of a forge in Wuppertal.



1928 PADERBORN

Walter Freund registers his fitter's shop for the production of blades, grinding machines and butcher's tools in Paderborn.

WALTER FREUND - 693 PADERBORN
RECHENSTRASSE 12 · 05273 PADERBORN
TELEFON 05271 34 11 11



Blade sharpening machines are developed and produced along side sausage lifters and other articles.

PADERBORN 1945

Walter Freund exhibits his own products for the first time at the IFFA trade fair.

COLOGNE 1959



1955 PADERBORN

Construction of the first circular rib saws Record R5 and Record Junior.



1962 PADERBORN

The success model, Record62, starts up, a rib saw with an electric drive.



Reinhard Freund builds a modern factory building in Schulze-Delitzsch-Straße in Paderborn.

PADERBORN 1965



1970 PADERBORN

The Record62 is replaced by the circular breaking saw K18-01 featuring a motor of protection class IP24 which was developed in-house. The strategy is increasingly aligned to tools for cutting and slaughtering.

PADERBORN 1977

The first jigsaw ST40-11 is produced.



1979 PADERBORN

Technology launch - the first CNC lathe enters service.



PADERBORN 1980

The first expansion of the production hall is carried out.

TRADITION + INNOVATION = FUTURE

As a globally operating manufacturer of tools for cutting and slaughtering, we have made it our goal to support the meat extraction process in a way that is conducive to the well-being of the animal, socially responsible and beneficial to our customers.

Ethical animal welfare requirements coupled with a highly cost-effective procedure and optimum meat quality is what needs to be achieved.

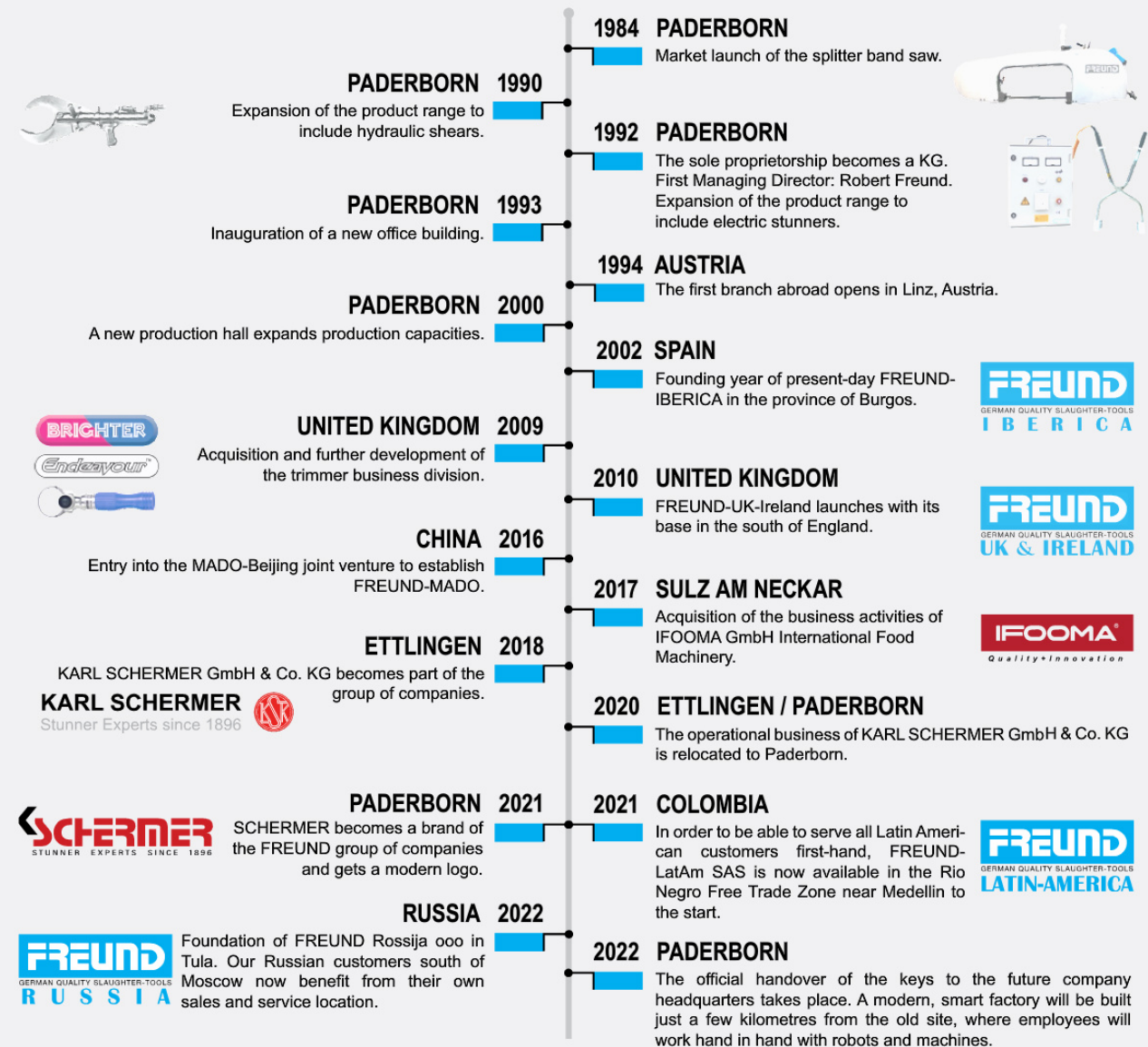
That is why we develop and produce extremely effective and stable machines for the entire process chain. From stunning and slaughtering to cutting up and refining, we ensure that our machines make your production process more efficient in a sustainable manner.

The development and improvement of our services always incorporates regular dialogue with our customers and partners in over 100 countries as well as centuries-old experience as a family-run and family-owned company.

Our FREUND in-house service department will be happy to provide you with comprehensive and expert advice and show you how you can use our services to generate the greatest benefit for your business.

Quality from a single source – For trade and industry

Made in Germany.





BETÄUBUNG

STUNNING





Professional stunning plays a very important role in the slaughtering process.

Ethical animal welfare requirements coupled with a sustainable, cost-effective procedure and optimum meat quality is what needs to be achieved. In this regard, FREUND offers the perfect solution with an extensive product range for electrical stunning with high-frequency constant current application.

Programmable stunners with a recording function for transparent documentation of the on-going process and suitable stun tongs for every animal size make an efficient slaughtering yield possible.

The FREUND service department supports the user by offering expert advice in all matters relating to the products.

CONTENTS

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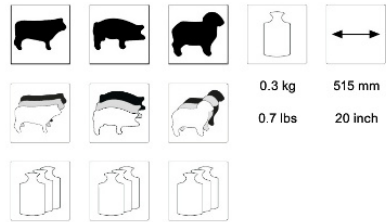
MOVIT-M

Animal drover / Droving aid



Swatter for effective droving in a manner conducive to the well-being of the animal

- Pain-free droving: no electric shocks, no sharp tips
- No sudden noise and contact trigger
- Reduced risk of bleeding and dead animals
- The MOVIT-M animal drover complies with the applicable animal welfare requirements



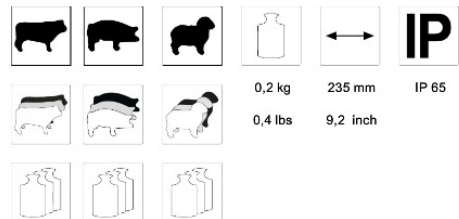
KAWE 8001

Animal drover (electronical)



Electronic animal drover for effective droving of the animal

- Electronic control, therefore no mechanical wear
- Battery-operated (2 Monocells 1,5V)*
- Maintenance-free electronics
- Housing made of robust plastic



*Not included in the scope of delivery due to transport regulations



▶ Not permissible for stunning in plants within a member state of the European Union (TierSchIV 1099 vom 01.03.2013)

KAWE 21

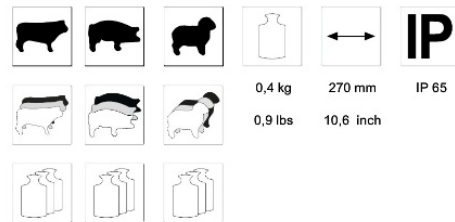
Animal drover (electrical)



Electronic animal drover for effective droving in a manner conducive to the well-being of the animal

- Automatic switch-off of the current pulse after 1 second
- Electronic control, therefore no mechanical wear
- Battery-operated (2 Monocells 1,5V)*
- Visual display
- Maintenance-free electronics
- Housing made of robust plastic
- The KAWE 21 complies with the applicable animal welfare requirements

*Not included in the scope of delivery due to transport regulations

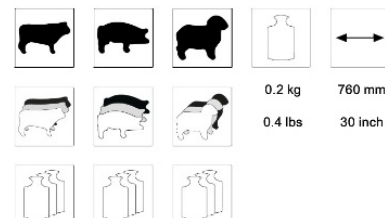


EXTENSION ROD / VERLÄNGERUNGSSTAB

Extension rod for KAWE 21 / KAWE 8001



- increases the user's reach
- effortless insertion
- compatible with KAWE 8001 and KAWE 21
- made of robust plastic





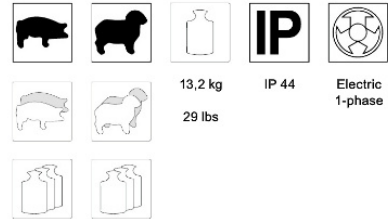
STUN-E512

Stunning device (constant current & high frequency)



Electronic, high-frequency, constant-current stunning device with data connection for up to 100 stuns per hour

- 7 pre-installed stunning programs, individually adaptable for different species of animals
- Programmable, electronic control of all stunning parameters
- Selectable head and heart stunning programs
- Improved meat quality
- Higher yield due to fewer blood spots and bone fractures
- Audible buzzer for minimum stunning time
- Visual stun error indication
- LED display for programme no., volts, amps etc,
- Integrated interface for data recording LED display for program no., volt, ampere etc,
- Integrated interface for data recording
- External data storage STUN-EMEM01 stores data for up to 6000 stuns (please order separately)



► Not permissible for stunning in plants within a member state of the European Union (TierSchIV 1099 vom 01.03.2013)

STUN-E513

Stunning device (constant current & high frequency)



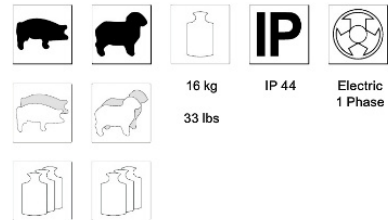
Programmable, electronic stunning device for continuous operation (latch or restrainer)

Additional to all identical features of STUN-E512:

- More powerful transformer (2.5 A)



► Not permissible for stunning in plants within a member state of the European Union (TierSchIV 1099 vom 01.03.2013)



STUN-E514

Stunning device (constant current & high frequency)



Programmable, electronic stunning device for continuous operation (latch or restrainer)

Additional to all identical features of STUN-E512:

- LCD display for program, volt, ampere etc.
- 6 buttons for program selection and programming (password-protected)
- More powerful transformer (2.5 A)
- Second outlet for separate heart-electrode

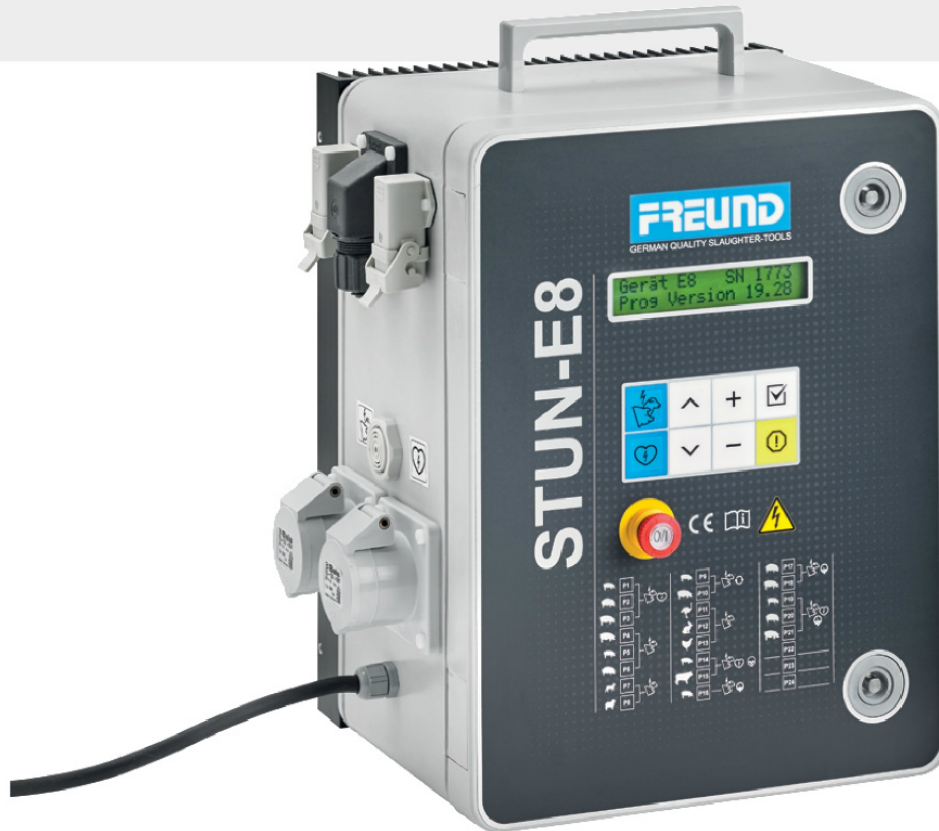


► Not permissible for stunning in plants within a member state of the European Union (TierSchIV 1099 vom 01.03.2013)



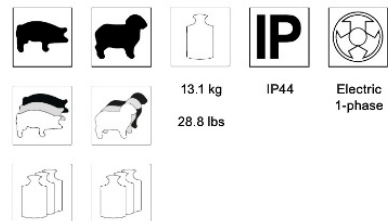
STUN-E8XXL

Stunning device with cooler (constant current & high frequency)



Electronic, high-frequency, constant-current with cooler, (cloud-enabled) stunning device for Industry. Also suitable for stunning animals in stun traps

- 8 pre-installed stunning programs, individually adaptable
- Can be extended to up to 24 stunning programs
- LCD display with 40 characters for real time display of program number, current, voltage, frequency and stunning time
- Linear frequency ramp, without abrupt gradations
- Acoustic and visual display for errors and the end of stunning
- 6 convenient buttons for program selection and programming
- Network-compatible (Ethernet RJ45)
- Second outlet for separate heart-electrode
- Remote programming of the parameter data sets possible via a web interface
- Access to stun data via the web interface with daily/weekly/monthly statistics
- Internal data storage for additional backup
- Remote control outlet for pneumatic stun tong and pneumatic heart electrode
- Stun data coupling of two stunners via master/slave control (all data of one stunning procedure in one diagram)



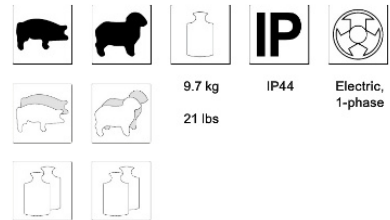
STUN-E4

Stunning device (constant current & high frequency)



Electronic, high-frequency, constant-current stunning device for the craft application suitable for trade

- 4 pre-installed stunning programs, individually adaptable
- Can be extended to up to 24 stunning programs
- LCD display with 40 characters for real time display of program number, current, voltage, frequency and stunning time
- Acoustic and visual display for errors and the end of stunning
- 6 convenient buttons for program selection and programming
- Network-compatible (Ethernet RJ45)
- Web interface with daily/weekly/monthly statistics



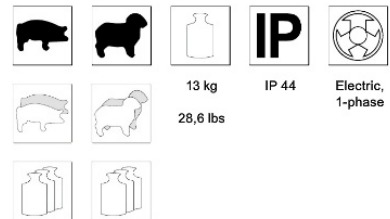
STUN-E6XXL

Stunning device with cooler (constant current & high frequency)



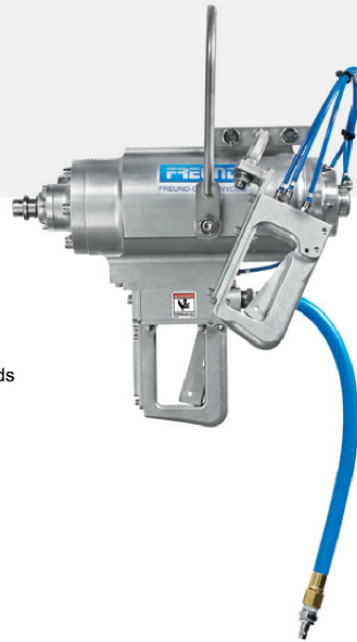
Electronic, high-frequency, constant-current with cooler, cloudenabled stunning device for the middle application

- 8 pre-installed stunning programs, individually adaptable
- Can be extended to up to 24 stunning programs
- LCD display with 40 characters for real time display of program number, current, voltage, frequency and stunning time
- Linear frequency ramp, without abrupt gradations
- Acoustic and visual display for errors and the end of stunning
- 6 convenient buttons for program selection and programming
- Network-compatible (Ethernet RJ45)
- Remote programming of the parameter data sets possible via a web interface
- Access to stun data via the web interface with daily/weekly/monthly statistics
- Internal data storage for additional backup



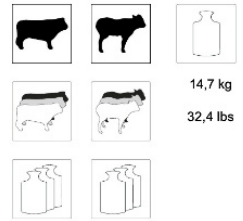
STUN-BP1

Captive bolt stunner (pneumatic)



Pneumatic captive bolt stunner for cattle, calves and solipeds

- 2-hand safety switch
- powerful one-shot stunning
- stunning suitable for animal protection
- penetrating



COMP-BP1-1

Compressed air compressor



Compressed air compressor for up to 60 stuns per hour
(mobile version on wheels)

- 90L tank
- 850 rpm
- incl. maintenance unit (filter, regulator, lubricator)
- 5 metre hose
- 1L oil
- ready for connection



108 kg
238 lbs



Electric
3 Phases



4000 watts
(50Hz)
5,4 hp
(50Hz)



COMP-BP1-2

Compressed air compressor



Compressed air compressor for up to 60 stuns per hour
(mobile version on wheels)

- 90L tank
- 850 rpm
- incl. maintenance unit (filter, regulator, lubricator)
- 5 metre hose
- 1L oil
- ready for connection



108 kg
238 lbs



Electric
1 Phase



4000 watts
(50Hz)
5,4 hp
(50Hz)

STUNG-TONG-EP STEEL

Electric stun tong



Electric stun tong for for suckling pig and pig head stunning

- spike electrodes provide better skin contact and prevent slipping
- Electrode quick-change system
- Stable stainless steel design ** INOX / rust-free **
- Robust pivot joint
- Non-slip handle
- Wear-resistant spiral cable SK



3.2 kg

7 lbs



STUN-TONG-EA STEEL

Electric stun tong



Electric stun tong for sheep, lambs & goats

- special sheep electrodes provide better skin contact and prevent slipping
- Extra long spike for optimum skin contact
- Electrode quick-change system
- Stable stainless steel design ** INOX / rust-free **
- Robust pivot joint
- Non-slip handle
- Wear-resistant spiral cable SK



3.2 kg

7 lbs



STUN-TONG-ES STEEL

Electric stun tong



Electric stun tong for pigs and sows

- hexagonal electrodes pre-assembled and U-electrodes included in the scope of delivery
- Electrode quick-change system
- Wide opening range for head and heart stunning
- Angled, ergonomic handle
- Stable stainless steel design ** INOX / rust-free **
- Wear-resistant spiral cable



3.5 kg

7.7 lbs



STUN-TONG-EPP2

Electric stun tong (pneumatic)



Electric stun tong, pneumatic

- Can be integrated for stunning animals in stun traps or stunning animals in restrainers
- Electrode quick-change system
- Significant relief for the user thanks to the pneumatic drive for opening and closing



3.2 kg

7 lbs



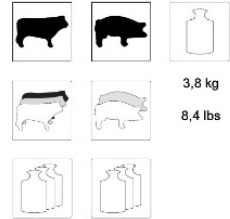


ZK-1

Electric stun tong



- Plastic side pieces
- Larger opening angle due to extended side pieces for combined heart-brain stunning in bays
- Spiral cable
- CEE plug

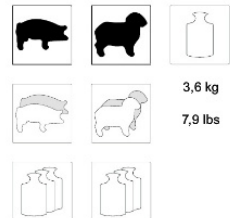


ZK-2

Electric stun tong (standard)

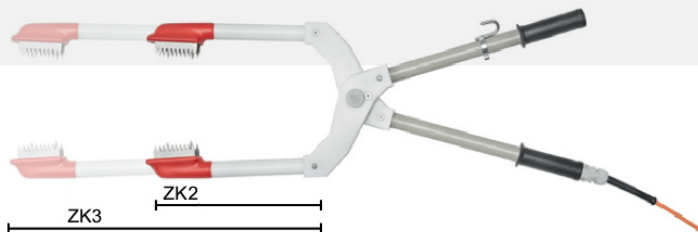


- Plastic side pieces
- Large opening angle for combined heart-brain stunning in bays
- Spiral cable



ZK-3

Electric stun tong

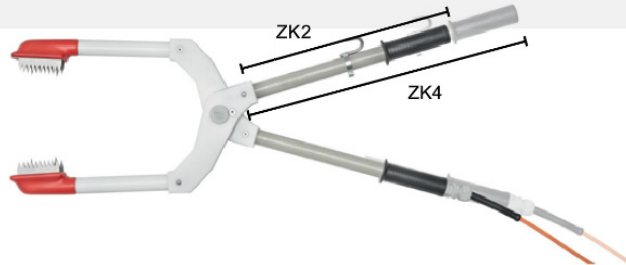


- Plastic side pieces
- Large opening angle for combined heart-brain stunning in bays
- Spiral cable



ZK-4

Electric stun tong



- Plastic side pieces
- Large opening angle for combined heart-brain stunning in bays
- Spiral cable



Z-KT

Electric stun tong



- Plastic side pieces
- Spiral cable



GP-1

Electric stun fork (pneumatic)



- For use in restrainers and stunning pens
- Significant relief for the user due to the pneumatic drive for opening and closing

*Image similar





STUN-E-INSPECTION

Inspection package for electric stunners of the FREUND brand



Electrical safety in accordance with DIN VDE 0701/0702/EN60204-1

All our electrical machines are tested for electrical safety prior to commissioning and following modification or repair in our factory by a qualified electrician in accordance with the electrical engineering rules of DIN VDE 0701-0702/EN 60204-1 and a test badge is attached to said machines.

This test badge indicates when the next repeat inspection must take place.

Inspection interval:

The inspection interval for electrical machines and equipment that is used in slaughtering and cutting plants is every six months.

Inspection in accordance with the German Animal Protection Slaughter Regulation (TierSchIV)

With regard to all FREUND electric stunners, all relevant stunning and work safety parameters are inspected prior to initial commissioning in accordance with the applicable German Animal Protection Slaughter Regulation (TierSchIV) and the EC Regulation 1099/2009, the operational safety regulation and the accident prevention regulation.

Regulation (EC) No. 1099/2009 applies to the slaughter and killing of vertebrate animals intended for the production of food and other products. It therefore contains provisions applicable to the slaughter or killing of animals kept for farming. An inspection sticker is attached to the device.

Inspection interval:

This inspection sticker indicates when the next annual repeat test must take place.

A replacement device (STUN-E4, E6 or E8) can be made available for the duration of the inspection/test in accordance with the applicable Animal Slaughter Protection Regulation, operational safety regulations and accident prevention regulations.

- You give us a call (+49 5251 1659-0)
- We send you a replacement device from the latest generation (premium package subject to an additional charge)
- You send us your device with the tong and we check that it complies with regulations
- Does the unit meet all test requirements, we issue a test sticker and a test certificate
- Does the unit not meet all test requirements, we put together a cost estimate for the repair work
- After the inspection/repair has been completed, you will receive your unit back.
The replacement appliance is collected (premium package subject to a charge).



STUN-CHECK-M

Test device for electric stunner



The "STUN-CHECK-M" test device checks the functions and programs (safety and stun functions) of electric stunners.

The STUN CHECK-M is used for checking the stunner, functional testing of individual programs and for checking that the tongs are working correctly (potential cable break or other damage to the tong). This is done in conformity with the legal standards



6.8 kg

15 lbs



400 watts

0.5 hp

STUN-EMEM01

External-Data-Memory



- Minimum stun time (4 s) maintained at minimum current in ampere-seconds (separately for head and heart)?
- Error Yes/No for each parameter
- Data output on PC or printer (using STUN data software, see accessories)
- Connection to commercially available RS232/USB interface
- Recording obligation in the EU as of 01/01/2013

DATENKABEL / DATA CABLE RS-485

Data recording cable



Scope of delivery:

- Connection cable to PC (serial / RS232)
- Adapter cable (serial to USB)



▶ Not permissible for stunning in plants within a member state of the European Union (TierSchIV 1099 vom 01.03.2013)

SCHERMER K SERIES

Captive bolt stunner of series K



Captive bolt stunner in different designs and sizes

- High penetrating power even for high slaughter throughput
- Effective trigger safety system
- Automatic cartridge ejector
- Quick-release bayonet lock
- Low wear thanks to robust design
- Low cleaning and maintenance costs
- Easy handling
- Economical high-performance cartridges, calibre .27 - 6.8/15 mm
- Bears a test mark from the PTB in Braunschweig



SCHERMER KR

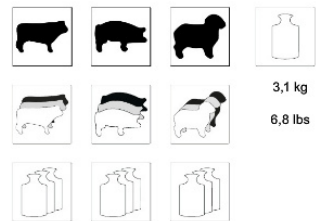
Captive bolt stunner with bolt discharge for maximum performance.



Captive bolt stunner with bolt discharge for maximum performance.

For pigs, sheep and horses or cattle up to 1000 kg

- Manual bolt return
- Bolt discharge: 85 mm
- Trigger safety system
- Maximum power performance due to undamped bolt discharge
- Only in combination with head fixation
- Calibre .27 - 6,8/15 mm
- PTB tested and certified according to CIP and CE



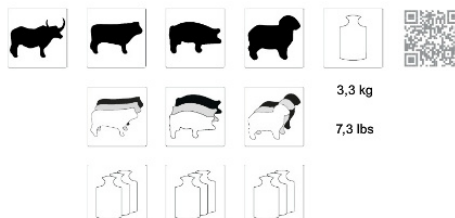
SCHERMER KL

Captive bolt stunner in extended design



Captive bolt stunner in extended design particularly suitable for large animals over 1000 kg such as breeding bulls and water buffaloes as well as for heavy boars

- Manual bolt return
- Bolt discharge: 125 mm
- Trigger safety system
- Elongated design with extra long bolt
- Only in combination with head fixation
- Calibre .27 - 6,8/15 mm
- PTB tested and certified according to CIP and CE



- Design is otherwise the same as that of captive bolt stunner type KR

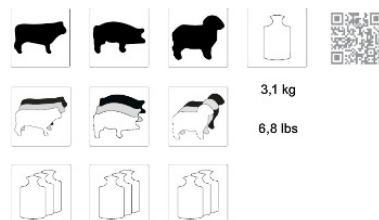
SCHERMER KS

Captive bolt stunner with automatic bolt retraction system



Captive bolt stunner with automatic bolt retraction system for cattle, pigs and sheep up to 650 kg

- Automatic bolt retraction system
- Bolt discharge: 80 - 85 mm
- Trigger safety system
- Calibre .27 - 6,8/15 mm
- PTB tested and certified according to CIP and CE



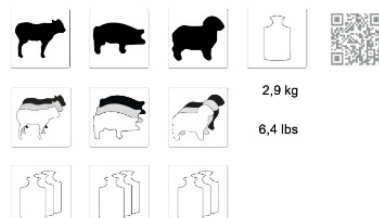
SCHERMER KK

Captive bolt stunner in shortened design



Viehschussgerät für Kälber, Schweine und Schafe bis 650 kg

- Manual bolt return
- Bolt discharge: 75 mm
- Trigger safety system
- Easy handling when space is limited, e.g. for stunning in a transport truck
- Calibre .27 - 6,8/15 mm
- PTB tested and certified according to CIP and CE



- Design is otherwise the same as that of captive bolt stunner type KR



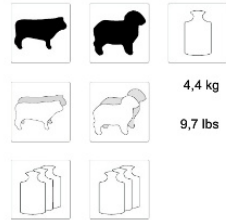
SCHERMER KC

Captive bolt stunner for concussion stunning



Captive bolt stunner for concussion stunning of cattle, calves and sheep up to 1000 kg

- Non penetrating
- Suitable for Halal slaughter
- Trigger safety system
- Calibre .27 - 6,8/15 mm
- Use may be subject to national regulations and restrictions



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STUN TEST-GERÄT

Test device for captive bolt stunners



The captive bolt stunners type KR, KL, KK and KS are tested for functionality in the firing mechanism of the test device before slaughter begins.

The bolt firing speed measured by 2 light barriers after triggering the shot is the measured variable for the calculated points.



STUN TESTHÜLSE

Test sleeve for ensuring constant test conditions



The captive bolt stunner is loaded with a test cartridge for the functional test. The test cartridge prevents any unnecessary wear on the captive bolt stunner.

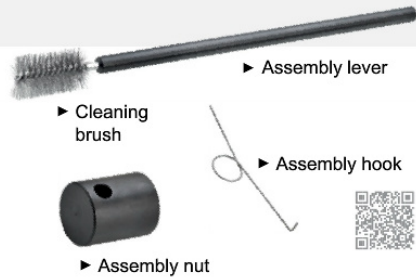
Constant test conditions are ensured by means of the captive bolt stunner inserted in the test sleeve. In this type of proof testing, the shot is fired into square timber. The penetration depth of the bolt is the measured value to be checked.

OPTIONAL



Accessory set for cleaning captive bolt stunners

- Included in the purchase of captive bolt stunners
- Also available as an option



High-performance cartridges Cal .27" 6,8/15 mm

When choosing a suitable cartridge strength, consider the following: age, weight, breed, hair coat, skin folds, sex of the animal and any head fixation



	KR	KS	KK	KL	KC
APPLICATIONS	RECOMMENDED CARTRIDGE CONFIGURATION				
> 1000 kg	-	-	-		-
650 - 1000 kg		-	-	-	
300 - 650 kg				-	
< 300 kg				-	
	-	-	-		-
				-	
> 150 kg		-	-		-
30 - 150 kg				-	-
< 30 kg				-	
> 40 kg				-	
< 30 kg				-	

*Specified weight relates to live weight



SCHLACHTUNG

SLAUGHTERING















The product group of ripsaws expands the FREUND machine range with state-of-the-art technology in the field of meat processing.

These machines are characterised by a robust design coupled with the most important features for optimum, user friendly operation in day-to-day slaughtering activities.

The saws are freely configurable and can be adapted accordingly to the needs of the user.

In technical matters, the FREUND service department will be happy to advise you.

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	Bleeding	27		Splitting	35-39
	Weasand clip	27	▶ Reciprocating saws	35	
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	Horns	31		Rectum	42
	Dehiding	33	SCHERMER Sprays	46-47	
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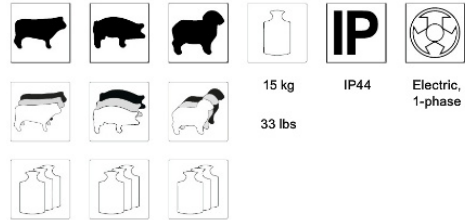
STIM-E512

Electronic stimulation device (electronical)



Fully programmable stimulation device for medium-sized and industrial companies

- Various programmes for different applications
- Better draining of blood
- Accelerated pH value drop and therefore faster onset of 'rigor mortis'
- Increased yield due to lower weight loss
- Nose clamp & overhead track connection with 10-meter cable



Benefits of low voltage stimulation (<50 Volt):

- Is not harmful to humans
- Improved product quality

RÜCKENMARKZERSTÖRER

Cranial insertion rod

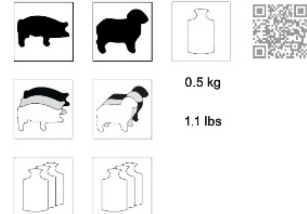


Use after stunning with captive bolt stunner if no blood withdrawal is planned

- Made from plastic
- Available in two lengths

EBH

Sticking knife

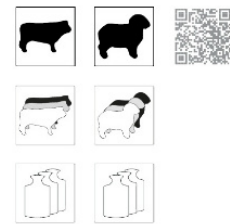


Sticking knife for hygienic blood extraction

- Blade and blade holder can be easily exchanged
- Cost-effective, modular design
- Blade available in 2 sizes 120 / 160 mm

WEASAND CLIP

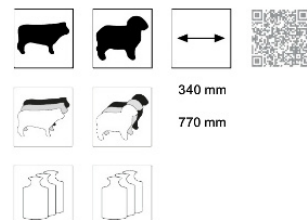
Weasand clip (oesophagus seal)



- Secure and straightforward sealing of the oesophagus prevents contamination by any stomach content being discharged
- Available in two different sizes (sheep and cattle), easy to use even when the oesophagus is full or damaged
- Secure seating: no slipping out of place, no leakage, no premature release
- Bio-degradable plastic (FDA approved)
- Affordable, graduated price scale

WEASAND ROD

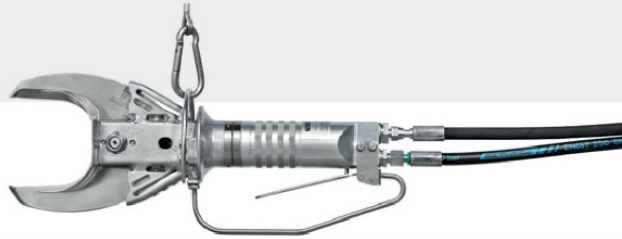
Weasand rod



- Made of stainless steel, to ensure correct placement of Weasand clip (oesophagus seal)
- Rod is guided along the esophagus in order to place a clip in front of the cardia
- Prevents the discharge of rumen fluid
- Available in 2 lengths:
340 mm for sheep
770 mm for cattle

FNS9

Foot and neck shear



Foot and neck saw for pigs and sheep in high throughput plants

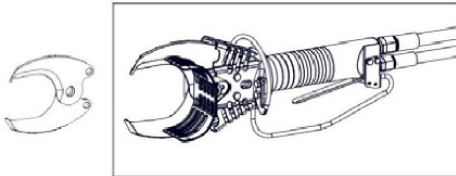
- For severing the head joint and removing the feet of halved pigs and sows by an operator
- user-friendly handling
- Also suitable for cutting the front feet of sows
- Perfect force distribution
- Excellent cut

		3.9 kg	90 mm	6 bar	
		8.6 lbs	3 1/2 inch	87 psi	

► konfigurierbar in 4 Optionen:

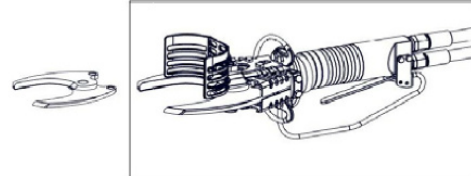
Option 1:

- vertical knife position



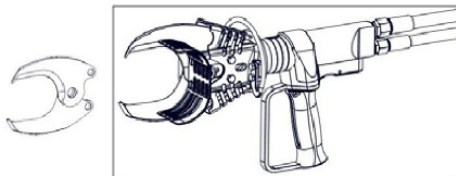
Variante 2:

- horizontal knife position



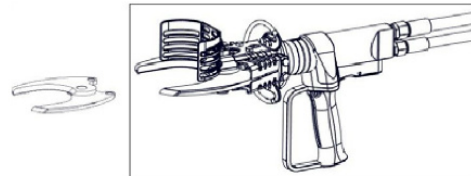
Option 3:

- vertical knife position
- Pistola Handle



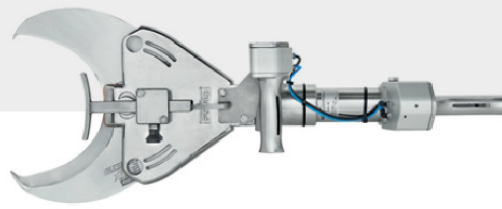
Variante 4:

- horizontal knife position
- Pistola Handle



NS21

Neck shear



Hydraulic neck saw for pigs in high throughput plants

- Adjustable handle for better ergonomics
- Two-hand safety switch
- with adjustable depth stop
- Excellent force distribution



23 kg

210 mm

6 bar

Electric/
hydraulic



51 lbs

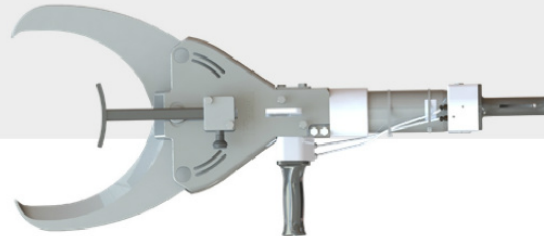
8,3 inch

87 psi



NS26

Neck shear



Hydraulic neck saw for removing the neck of sows & boars in high throughput plants

- Adjustable handle for better ergonomics
- Two-hand safety switch
- with adjustable depth stop
- Excellent force distribution



27 kg

265 mm

6 bar

Electric/
hydraulic



59 lbs

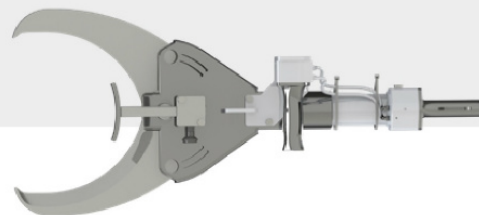
10,4 inch

87 psi



NS26-H1

Neck shear



Hydraulic neck saw for removing the neck of sows & boars in high throughput plants

- Adjustable handle for better ergonomics
- Two-hand safety switch
- with adjustable depth stop
- Excellent force distribution



24 kg

265 mm

6 bar

Electric/
hydraulic



53 lbs

10,4 inch

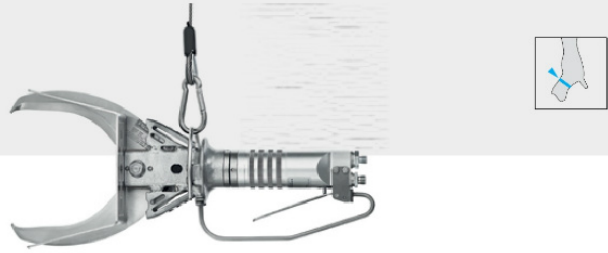
87 psi





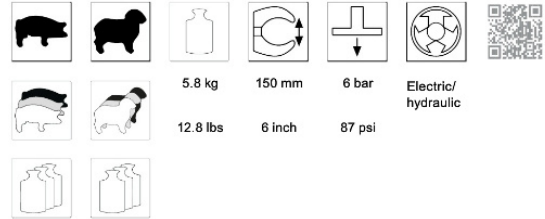
HDS15

Head dropper and general cutting shear



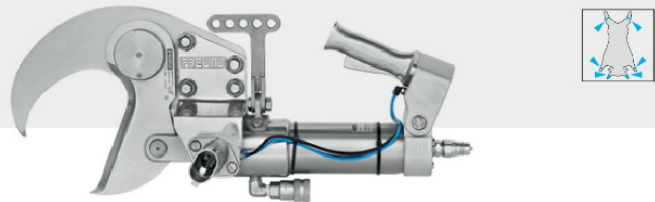
Hydraulic shear for high throughput plants:

- Application in pig cutting
- Severing of complete sheep and goat heads
- Single-hand operation



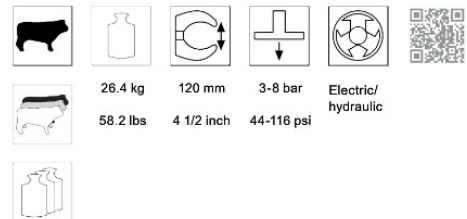
HLS12

Horn and leg shear



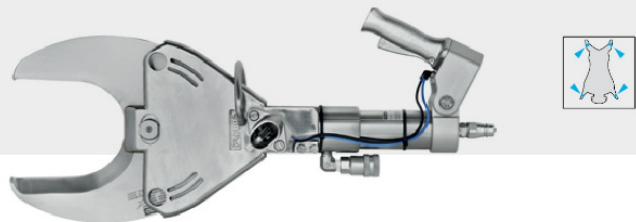
Horn and leg shear for industrial slaughter chains for cattle

- With one fixed and one moveable blade respectively
- Adjustable handle for better ergonomics
- Two-hand safety switch



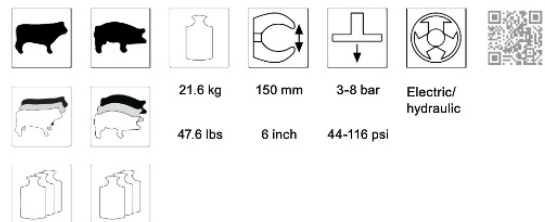
LS15

Leg shear



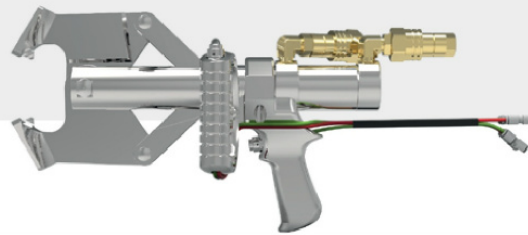
Leg shear for cattle and sows in high throughput plants

- With two movable blades
- Two-hand safety switch
- Adjustable handles for better ergonomics



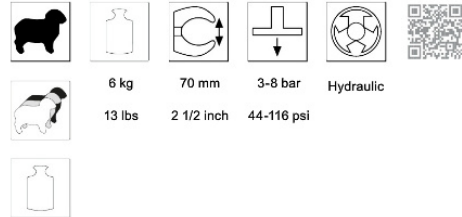
HZ7

Horn cutter



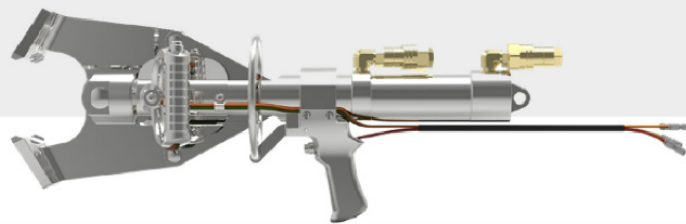
Hydraulic horn cutter for lambs in high throughput plants

- Two-hand safety switch

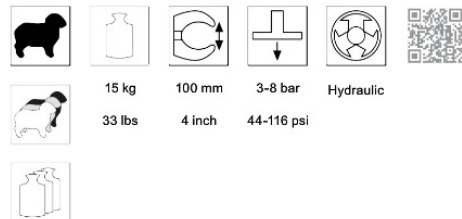


HZ10

Horn cutter

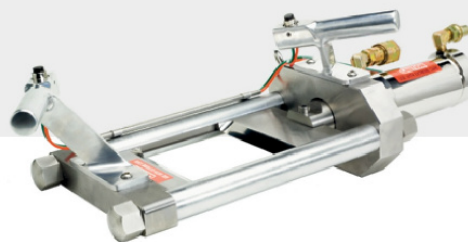


Hydraulic horn cutter for sheep in high throughput plants



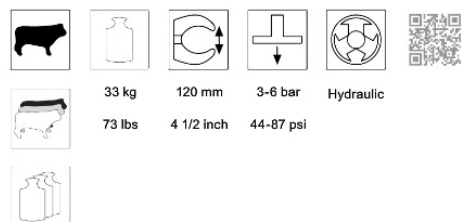
HG12

Horn guillotine



Hydraulic horn guillotine for the most arduous applications in high throughput plants

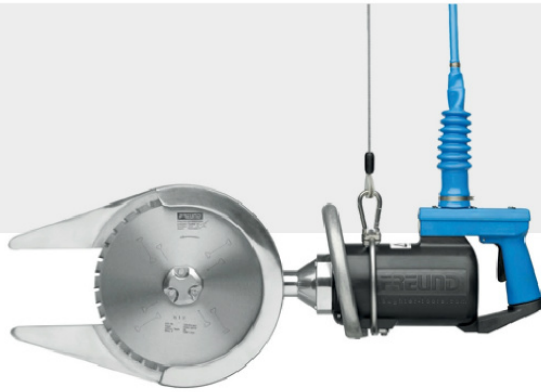
- Pneumatic 2-hand safety switch





HBK28-06

Circular horn and leg saw



Circular horn and leg saw for cattle in medium plants

- Mechanical motor brake MMB
- Two-hand safety switch

	21 kg	280 mm	100 mm	IP 65	Electric, 3-phase	1800 watts (50Hz) 2.4 hp (50Hz)
	46 lbs	11 inch	4 inch			

HBK33-08

Circular horn and leg saw



Circular horn and leg saw for cattle in high throughput plants

- Two-hand safety switch
- With smooth cable GK

	31 kg	330 mm	105 mm	IP 65	Electric, 3-phase	2300 watts (50Hz) 3.1 hp (50Hz)
	68 lbs	13 inch	4 inch			

SD11

Dehider



Pneumatic dehider with star-shaped blades

- Efficient, clean and safe dehydrating - avoids incisions, notches or holes
- Durable and low-maintenance
- Low own weight due to lightweight components

			1.4 kg	110 mm	3.5 bar	Pneumatic	410 watts
			3 lbs	4 1/2 inch	51 psi		0.55 hp

BBS14

Breastbone shear



Breastbone shear for sheep and goats in medium and high throughput plants

- with powerful compressed air cylinder
- with second ergonomic handle
- Flexible DL spiral hose 2.5 m

	14 kg	145 mm	7 bar	Pneumatic
	31 lbs	6 inch	102 psi	



BBKM25-06D

Circular brisket knife












Circular brisket knife for slaughtering pigs and sheep in medium and high throughput plants

Benefits of the micro-serrated circular knife:

- Optimised hygiene and longer service life
- Clean and smooth blade cut
- Spiral cable SK
- Round handle R (D type)
- Special blade protection prevents organ cutting

Optional:

- Upright rear handle for working position at belly height or higher

						
	21 kg	250 mm	85 mm	IP 65	Electric, 3-phases	1800 watts (50Hz)
	46 lbs	10 inch	3 1/2 inch			1.8 hp (50Hz)
						



SK32-06L

Circular splitting saw



Circular splitting saw for slaughtering pigs and sheep in medium plants (without head)

- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ320
- Spiral cable SK
- Upright handle on gear neck GH
- Water connection with spiral hose for cooling and rinsing the cutting surface

		19 kg	320 mm	120 mm	IP 65	Electric, 3-phases	1800 watts (50Hz) 2.4 hp (50Hz)
		42 lbs	12 1/2 inch	4 1/2 inch			

SK52-08L

Circular splitting saw



Circular splitting saw for slaughtering pigs in high throughput plants (sows to some extent)

- Circular saw blade, coarse tooth, splitting, low-noise, rust-free KGZ520SPGA
- With smooth cable GK
- Two-hand safety switch
- Water connection with spiral hose for cooling and rinsing the cutting surface
- With 2 guide rollers for splitting from the rear

	41 kg	520 mm	205 mm	IP 65	Electric, 3-phases	2300 watts (50Hz) 3.1 hp (50Hz)
	90 lbs	20 1/2 inch	8 inch			



BBST30-13

Reciprocating breastbone saw



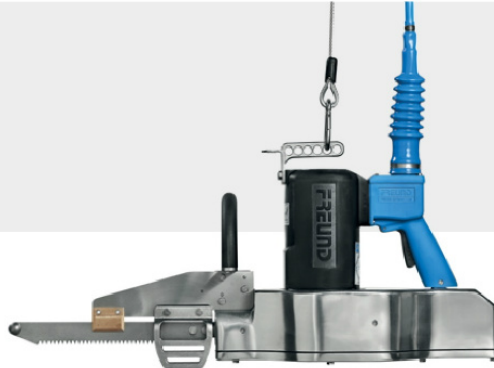
Reciprocating breastbone saw for slaughtering cattle & sows in small and medium plants

- Reciprocating saw blade, fine tooth, rust-free
- Spiral cable SK
- Round handle R (D type)
- Grease gun, filled
- Low dead weight

			12.3 kg	300 mm	IP 65	Electric, 3-phases	950 watts (50Hz)
			27 lbs	12 inch			1.3 hp (50Hz)

BBH30-03

Reciprocating breastbone saw



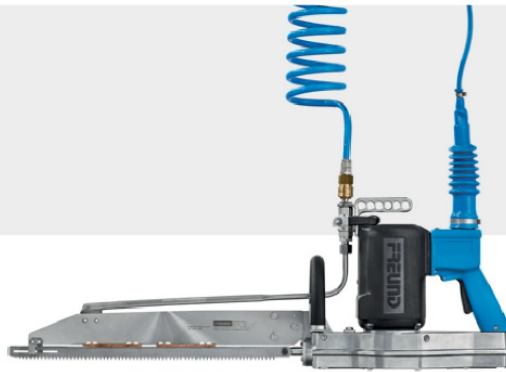
Reciprocating breastbone saw for slaughtering cattle and sows in all plants sizes

- Reciprocating saw blade, rust-free
- Spiral cable SK
- Round handle R (D type)
- Grease gun and 1 kg grease
- Control box, mounted

			21.5 kg	300 mm	IP 65	Electric, 3-phases	1300 watts (50Hz)
			47 lbs	12 inch			1.8 hp (50Hz)

SST50-13

Reciprocating splitting saw



Reciprocating splitting saw for up to 2 cattle, 15 pigs or 50 sheep per week

- Suitable for trade
- Smallest reciprocating splitting saw of its kind with a completely enclosed three-phase motor
- Low dead weight
- Saw blade made of rust-free steel STFZ 500 mm
- Spiral cable SK
- Round handle R (D type)
- Gun with special grease



11.5 kg

500 mm

IP 65

Electric,
3-phases

950 watts
(50Hz)
1.3 hp
(50Hz)



25 lbs

20 inch



SH60-03

Reciprocating splitter saw



Reciprocating splitter saw for halving up to 100 pigs or 20 cattle per week

- Suitable for trade
- Reciprocating saw blade, coarse tooth, rust-free HUGZ600SP
- Spiral cable SK
- Round handle R (D type)
- Direct connection to contactor/transformer
- Water connection with spiral hose for cooling and rinsing the cutting surface
- including grease gun



21.6 kg

600 mm

IP 65

Electric,
3-phases

1300 watts
(50Hz)
1.8 hp
(50Hz)



47.6 lbs

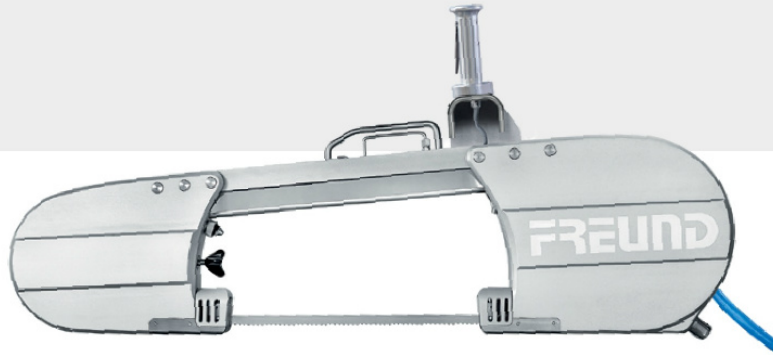
23 1/2 inch





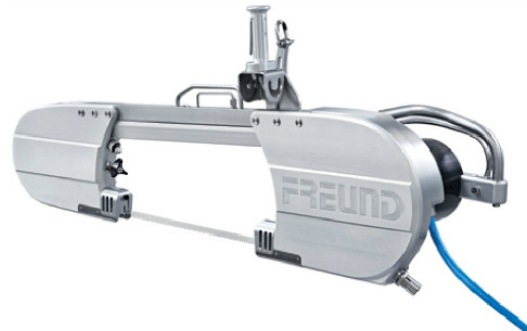
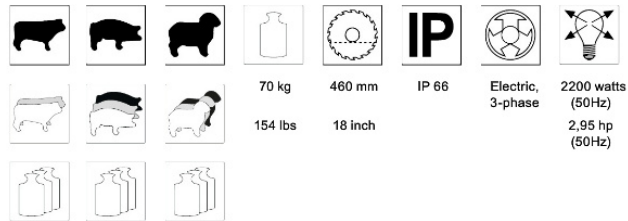
SB46-24

Splitter band saw



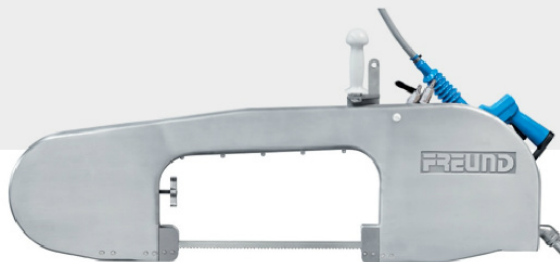
Splitter band saw for pigs and sheep in high throughput plants as well as for expansion brace slaughtering

- High cutting speed and long service life
- Very fast band saw blade replacement
- Significantly shorter familiarisation period
- 1-hand operation of the cover unit
- Significantly improved ergonomics and enhanced guide when cutting
- Cut surfaces with low levels of bonedust without final rinsing
- Tool-free exchange of the blade guide elements
- Simple precise belt tensioning system
- 2-hand safety switch with additional functionality
- Shift lever can be shifted in any hand position, ergonomic and easy to track
- 2nd front handle ergonomic and 90° tiltable



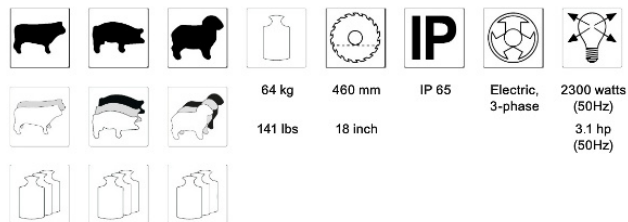
SB46-08

Splitter band saw



Splitter band saw for pigs/sheep (high throughput plants) and cattle (medium plants) in a combination slaughter line

- If using a low gambrel, halving of pigs is only possible with restrictions (in such cases SB49-08)



All BASIC models of SB46-08 / SB49-08 / SB50-08 are fitted with the following STANDARD equipment:

- Manual blade tensioning system MAN with lever blade guides HF
- Machine safety switch (cover sensor) MSS
- Water hose unit
- Inbuilt disinfection system DES-E
- 5 replacement saw blades

BOOKABLE AS OPTIONAL EXTRAS for standard equipment:

- Automatic tensioning system (hydraulic) for rapid band saw blade exchange and optimum blade tension at all times AUT with automatic band saw blade rotation for rapid band saw blade exchange with adjustable blade guides JF
- Two-hand safety switch 2HATD
- DES-PO7 inbuilt disinfection kit

SB49-08

Splitter band saw

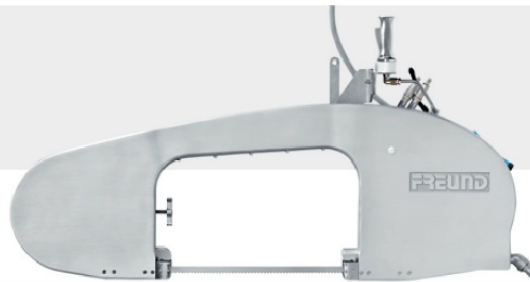


- Particularly suited to expansion brace slaughtering due to the low height (front: 300mm)
- Splitting of cattle is only possible with limitations for this reason

		64 kg	490 mm	IP 65	Electric, 3-phase	2300 watts (50Hz)
		141 lbs	19 1/2 inch			3.1 hp (50Hz)

SB50-08

Splitter band saw



Splitter band saw for cattle and sows in high throughput plants

		74 kg	500 mm	IP 65	Electric, 3-phase	2300 watts (50Hz)
		163 lbs	19 1/2 inch			3.1 hp (50Hz)

SVSS

Steam vacuum sanitizer system



SVSS

Steam vacuum sanitizer system

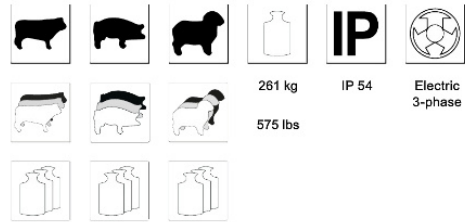


For efficient elimination of contamination and reduction of surface germ counts on carcasses

- Vacuum suctioning of contamination such as bowel contents, hair
- Simultaneous disinfection of the surface using steam
- Significantly better germ reduction compared to cutting with blades e.g. in relation to E.coli bacteria
- Greater food safety
- Increased yield due to lower weight loss compared to trimming
- Reduced risk of cross-contamination thanks to continuous steam disinfection of the hand piece
- No visible change to the surface of the meat

Optionally available:

- Steam generator SVG21
- Steam generator SVG28

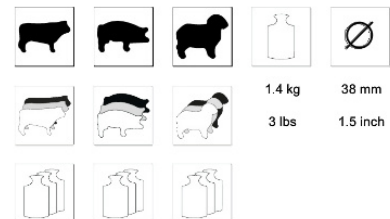


SVH-38A

Steam vacuum piece



- Disinfection by means of an integrated steam supply and suctioning by means of a vacuum suction line
- Component of the SVSS



VSS

Vacuum system



Vacuum suction system for vacuum suctioning of spinal cord, brain, leaf lard and grease residues, lungs of poultry etc.

- The equipment can be combined individually and consists of:
- Vacuum tank (rust-free - in different sizes)
- Various hoses
- Hand pieces for different applications
- Vacuum pump optionally available

Optionally also available as version:

- VSS-EDF, specifically for use with rectum cutter EDF64 or EDF76
- VSS-SCR, specifically for use with spinal cord remover-trimmer SCR

EDF

Rectum cutter



To optimally cut out the rectum of pigs and sows.

- Clean and even cut of the rear ham
 - Increased yield thanks to more meat on the carcass, on the ham and less on the rectum
 - Vacuum extraction of the faecal remains reduces the risk of contamination if the rectum falls into the abdominal cavity
 - Internal cleaning system for blades reduces cross-contamination
- Available in various knife sizes

	3.5 kg	6 bar	Pneumatic	750 watts
	7.7 lbs	87 psi		1 hp

VSS-VH38B

Hand piece for VSS vacuum suction system (optional)



Vacuum suction system hand piece with scraping edge for removing the spinal cord (from the halved carcass) of cattle, pigs and sheep



VSS-VH38G

Hand piece for VSS vacuum suction system (optional)



Suction handpiece with 2.2 m hose for removing the spinal cord of cattle with the carcass closed



VSS-VH38H

Hand piece for VSS vacuum suction system (optional)



Vacuum suction system hand piece with scraper mandrel for removing the spinal cord (from the halved carcass) of cattle, pigs and sheep



VSS-VH38E-2106

Hand piece for VSS vacuum suction system (optional)



Suction handpiece with 1.2 m hose for removing the spinal cord of lambs/sheep with the carcass closed



VSS-VH38I

Hand piece for VSS vacuum suction system (optional)



Vacuum suction system hand piece with extended nozzle for removing the spinal cord (from the halved carcass) of cattle, pigs and sheep





SCR

Spinal cord remover - Trimmer



- The modern way of removing spinal cord in which the risk material is completely isolated
- The spinal cord strand is suctioned by means of a vacuum (VSS vacuum system = accessories). The internal cutting edge separates the spinal ganglia without harming the spinal cord skin
- ▶ Available in 2 different blade sizes:
SCR16 for pigs
SCR19 for cattle

		16 / 19 mm	6 bar	Pneumatic	280 watts
		0.6 / 0.7 inch	87 psi		0.3 hp

VAKUUM TRIMMER 35

Vacuum suction trimmer



- Application-optimised design
- Various blade types (straight ring blade, hook ring blade)
- Minimal downtime and servicing costs thanks to low-wear quality components
- Ergonomic handle with robust and abrasion-free plastic design
- Quiet operation minimises vibrations on the hand piece
- Optionally powered electrically or pneumatically

			35 mm	Electric or pneumatic	250 watts
			1.4 inch		

VAKUUM TRIMMER 52

Vacuum trimmer



- Application-optimised design
- Easy handling thanks to spherical suction head
- Various blade types (straight ring blade, hook ring blade)
- Minimal downtime and servicing costs thanks to low-wear quality components
- Ergonomic handle with robust and abrasion-free plastic design
- Quiet operation minimises vibrations on the hand piece
- Optionally powered electrically or pneumatically

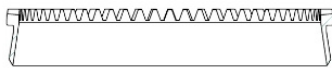
			52 mm	Electric or pneumatic	250 watts
			2 inch		

SCR / VAKUUM TRIMMER

Ring blade selection & application



RING BLADE SELECTION



■ A (straight)



■ B (hook)

APPLICATION

SLAUGHTERING	Ø 35 mm	Ø 52 mm	CUTTING	Ø 35 mm	Ø 52 mm
Trimming / vacuum suctioning tonsils in head	A		Trimming / vacuum suctioning auricles	A	
Trimming / vacuum suctioning spinal hole	A	A	Trimming / vacuum suctioning eyes	A	
Cleaning / vacuum suctioning carcasses	A	B	Cleaning / vacuum suctioning bones	A	
Trimming / vacuum suctioning cover fat	B		Deboning / vacuum suctioning long bones	A	B
Trimming / vacuum suctioning chest fat		B	Removing tendons in the shoulder		
Removing / trimming heart fat	B	B			
Trimming / vacuum suctioning spinal cord	B	A / B			
Trimming / vacuum suctioning blood vessels	B	B			
Trimming / vacuum suctioning leaf lard		B			
Trimming / vacuum					

BRAUSE

Spray Model "D"



SCHERMER Sprays for the food industry, agriculture and horticulture.

- High-quality processing and robust design
- Economical water consumption due to quick fastener
- Max temperature 90°C*
- Max. water pressure 6 bar

0,4 kg	180 mm	44 mm
0,9 lbs	7 inch	1,7 inch

* Food-safe plastic complies with Regulation 10/2011 and metal connections comply with the drinking water ordinance (Trinkwasserverordnung)

Colourcode: Plastic white Plastic red Plastic blue Metal

DESIGNS OF Model "D"

HOUSING		Plastic red			Plastic blue			Metal		
CONNECTION		1/2	3/4	-	1/2	3/4	-	1/2	3/4	-
VALVE	SCREEN									
	<input type="checkbox"/>	A / B	A / B	A / B	A	A	A	A	A	A
	<input type="checkbox"/>	A	A	A	A	A	A	A	A	A
	<input type="checkbox"/>	A	A	A	A	A	A	A	A	A
	<input type="checkbox"/>	A / B	A / B	A / B	A	A	A	A	A	A
	<input type="checkbox"/>	A	A	A	A	A	A	A	A	A
	<input type="checkbox"/>	A	A	A	A	A	A	A	A	A

BRAUSE

Spray Modell "E"



SCHERMER spray with adjustable spray nozzle for the food industry, agriculture and horticulture

- High-quality processing and robust design
- Adjustable water outlet for jet or spray
- Max temperature 90°C*
- Max. water pressure 6 bar



0,6 kg	205 mm	6 mm
1,3 lbs	8 inch	0,23 inch

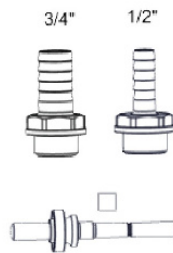
BRAUSE

Spray Modell "F"



SCHERMER spray with spray nozzle for the food industry, agriculture and horticulture

- High-quality processing
- Efficiently bundled jet
- Max temperature 90°C*
- Max. water pressure 6 bar – diameter 5 mm



0,5 kg	220 mm	4,8 mm
1,1 lbs	8,7 inch	0,18 inch

BRAUSE

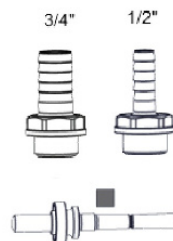
Spray Modell "H"



SCHERMER spray with elongated nozzle for the slaughtering industry

- High-quality processing
- Max temperature 90°C*

Max. water pressure 6 bar



0,8 kg	365 mm	15 mm
1,8 lbs	14,4 inch	0,6 inch

* Food-safe plastic complies with Regulation 10/2011 and metal connections comply with the drinking water ordinance (Trinkwasserverordnung)



GROBZERLEGUNG

PRIMAL CUTTING





FREUND circular breaking and quartering saws offer state-of-the-art technology of the highest quality.

Tailored to each application, the individual products provide the right configuration for every kind of processing.

Safety and flexibility when handling saws is just as much at the core of this product group as high-quality processing.

The FREUND service department supports the user by offering expert advice in all technical matters relating to the individual machines.

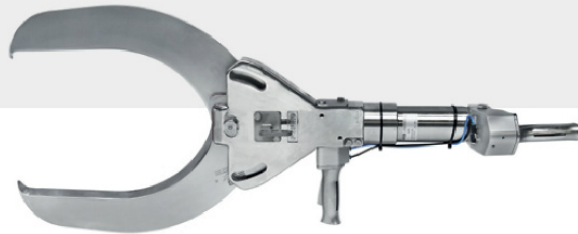
CONTENTS

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AS28

Quartering shear



Hydraulic shear for quartering cattle

- Clean and smooth cut through the backbone and back muscles
- Two-hand safety switch
- Adjustable handle for better ergonomics



32 kg

280 mm

6 bar

Hydraulic



71 lbs

11 inch

87 psi

ST40-13

Quartering breaking saw



- Smallest machine of its kind with a completely enclosed three-phase motor
- Breaking saw blade, fine tooth STFZ
- Spiral cable SK
- Round handle R (D type)
- Low-vibration operation thanks to the counterweights installed



12.7 kg

400 mm

IP 65

Electric,
3-phases

950 watts
(50-60Hz)

28 lbs

15 1/2 inch

1.3 hp
(50-60Hz)



ST30-11S

Quartering breaking saw



- Breaking saw blade, fine tooth STFZ
- Spiral cable SK
- Round handle R (D type)
- Low-vibration operation thanks to the counterweights installed
- High speed (S)
- Due to the low dead weight of the machine, no spring balancer is mandatory.

			6.5 kg	300 mm	IP 24	Electric, 1-phase	860 watts (50-60Hz)
			14 lbs	12 inch			1.17 hp (50-60Hz)

ST40-11S

Quartering breaking saw



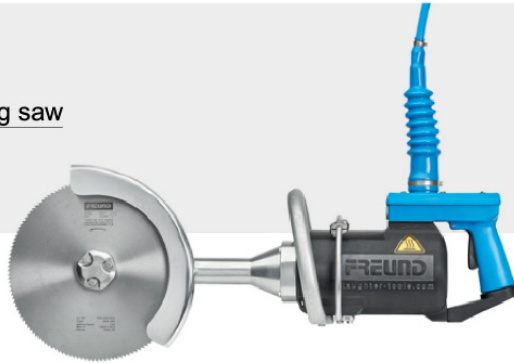
- Breaking saw blade, fine tooth STFZ
- Spiral cable SK
- Round handle R (D type)
- Low-vibration operation thanks to the counterweights installed
- High speed (S)

			7.4 kg	400 mm	IP 24	Electric, 1-phase	860 watts (50-60Hz)
			16.3 lbs	15 1/2 inch			1.17 hp (50-60Hz)



K28-06L

Quartering and circular breaking saw



Quartering and circular breaking saw for general cutting work in high throughput plants

- Long gear neck as a second handle
- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ
- Spiral cable SK

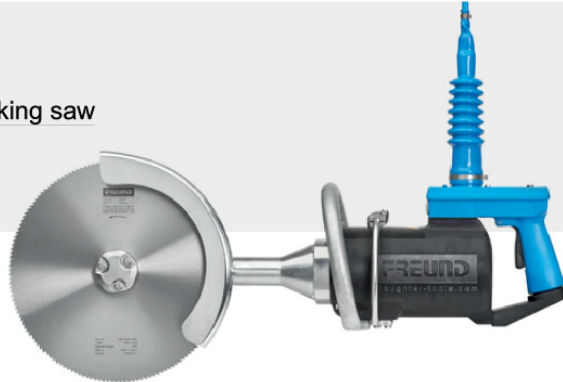
Optional:

- Two-hand safety switch

				IP		
	19 kg	280 mm	100 mm	IP 65	Electric, 3-phase	1700 watts (50Hz)
	42 lbs	11 inch	4 inch			2.4 hp (50Hz)

K32-06L

Quartering and circular breaking saw



Circular quartering saw for general cutting work in high throughput plants

- Long gear neck as a second handle
- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ
- Spiral cable SK

Optional:

- Two-hand safety switch

				IP		
	19 kg	320 mm	120 mm	IP 65	Electric, 3-phase	1700 watts (50Hz)
	42 lbs	12 1/2 inch	4 1/2 inch			2.4 hp (50Hz)














ZKM25-13PC

Circular cutting knife - Tabletop version



Designed for cutting poultry (chicken, fowl, turkey), small game and small pieces of pig, sheep and calf.

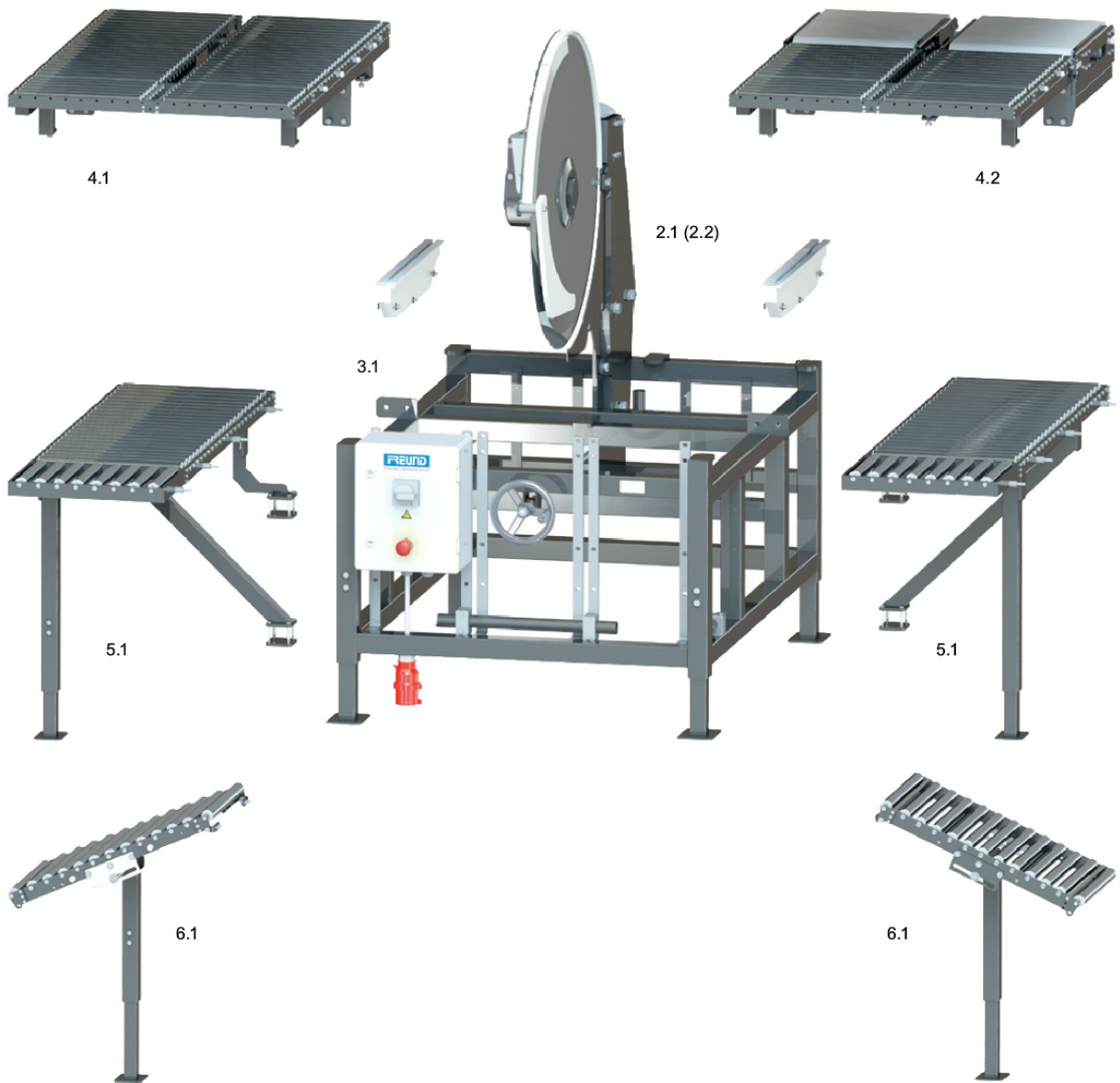
- Optimum ergonomics thanks to open work area on both sides
- Space-saving design with motor above the working area
- Stable bevel gear with lasting durability for the circular breaking saw
- Safety devices and hygiene standard according to CE standard
- Completely enclosed three-phase motor (IP65)

								
			33 kg 73 lbs	250 mm 10 inch	75 mm 3 inch	IP 65	Electric, 3-phase	950 watts (50Hz)/VA 1.3 hp (50Hz)
								



ZKM75-T

Circular cutting knife as a modular table version



ZKM75-T

Circular cutting knife as a modular table version



Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor. Also suitable for halving sheep.



- Compact unit for pre-head positioning in advance of a pig/sheep cutting line
- Loss-free, cleaner and hygienic cut without any smearing
- One operator can coarse cut up to 160 pig halves (3 cuts) per hour
- Design: Table with modular, exchangeable roller frame
- Stainless steel circular knife blade **INOX / rust-free**
- GS-certified: EC type examination as per German Product Safety Act



300 kg
661 lbs

750 mm
29 1/2 inch

300 mm
12 inch

IP 65

Electric,
3-phases

2300 watts
(50Hz)
3.1 hp
(50Hz)



Pos.	Designation
1	ZKM75-08-T basic model
2.1	KM750S-1F circular knife for pigs
2.2	KM750S-2F circular knife for sheep
3.1	Guide insert for pigs
3.2	Guide insert for sheep
4.1	ZKM-T roller conveyors (left/right)
4.2	ZKM-T roller conveyors with conveyor belts (left/right)
5.1	Roller table attachment RTA
6.1	Buffer roller conveyor RTA

Page 51 Modular circular foot saw FK40-08 for lateral attachment



ZKM75-DA

Circular cutting knife



Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor

- Manual lifting of the blade up to 200 mm above the cutting belt
- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- ▶ Optionally available with powerful motors:
 - 08 (2300 watts) / 190 rpm
 - 46 (3000 watts) / 190 rpm
 - 46B (3000 watts) / 94 rpm

					IP		
		140 kg	750 mm	300 mm	IP 65	Electric, 3-phase	2300 watts (50Hz)
		309 lbs	30 inch	12 inch			3.1 hp (50Hz)
							3000 watts (50Hz)
							4 hp (50Hz)

ZKM75-DA-JHS

Circular cutting knife



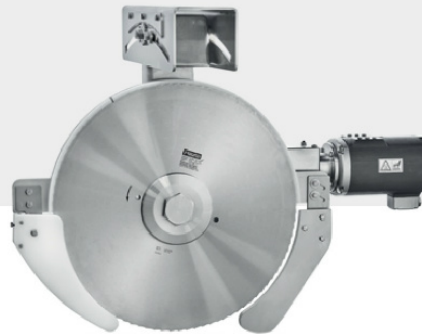
Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor

- Height adjustable up to 200 mm via the cutting belt
- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- With lateral movement option
- ▶ Optionally available with powerful motors:
 - 08 (2300 watts) / 190 rpm
 - 46 (3000 watts) / 190 rpm
 - 46B (3000 watts) / 94 rpm

					IP		
		200 kg	750 mm	300 mm	IP 65	Electric, 3-phase	2300 watts (50Hz)
		440 lbs	30 inch	12 inch			3.1 hp (50Hz)
							3000 watts (50Hz)
							4 hp (50Hz)

ZKM60-DA-MS

Middle splitter circular knife blade



Circular knife blade for optimum separation of pig mid-sections in belly & cutlet series

- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- Continuous cutting angle adjustment $\pm 15^\circ$ can be set for optimum yield
- ▶ Optionally available with powerful motors:
 - 08 (2300 watts) / 190 rpm
 - 46 (3000 watts) / 190 rpm



120 kg
265 lbs

600 mm
23 1/2 inch

175 mm
7 inch

IP 65

Electric,
3-phase

2300 watts
(50Hz)
3.1 hp
(50Hz)



3000 watts
(50Hz)
4 hp
(50Hz)

ZKM95-DA

Circular cutting knife



Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor

- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- Motor in stainless steel housing with fan cooling
- Large saw blade with a diameter of 950 mm
- Cutting depth of the circular knife blade is 340 mm
- Powerful motor 46B (3000 watts) / 94 rpm



210 kg
485 lbs

950 mm
37 inch

340 mm
13 inch

IP 65

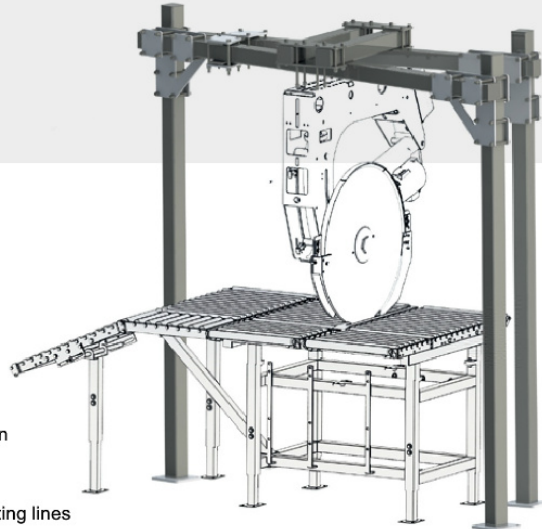
Electric,
3-phase

3000 watts
(50Hz)
4 hp
(50Hz)



UNI-PORTAL UP3

Universal portal frame

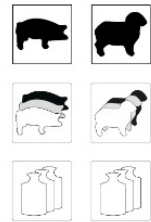


Universally combinable frame design

- for ZKM circular breaking knife and other machines
- Diverse configuration options thanks to the modular design
- Straightforward adjustment of dimensions on-site

For easy set-up or integration of circular knife blades in cutting lines for example:

- ZKM75-DA
- ZKM60-DA-MS



ZKM-T-2CB

Cutting table with automatic discharge conveyor (foldable)



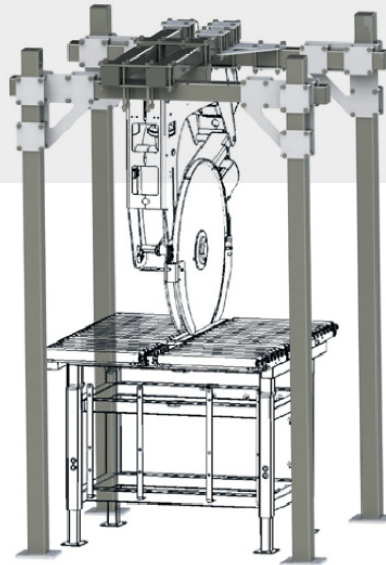
Space-saving cutting table with automatic discharge conveyor, suitable for use with ZKM60-DA-MS

- Space-saving 1x1 design principle (1000x1000 mm work surface)
- Effortless cleaning thanks to table modules at the side that can be folded up/down
- Optimised installation options thanks to easily accessible drum motors and optimised chain link belts, thereby significantly reducing installation time
- Enhanced flushing of the chain link belts
- Automatic outward conveyance of the product
- Significant reduction in bone fragments thanks to stable body
- Tailored to ceiling-suspended ZKM-DA-MS and portal solutions



UNI-PORTAL UP4

Universal portal frame



Universally combinable frame design

- for ZKM circular breaking knife and other machines
- Diverse configuration options thanks to the modular design
- Straightforward adjustment of dimensions on-site

For easy set-up or integration of circular knife blades in cutting lines for example:

- ZKM75-DA
- ZKM60-DA-MS



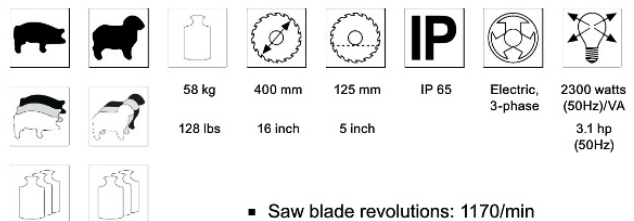
FK40-08

Circular foot saw



Circular foot saw for lateral attachment of cutting equipment

- Circular saw swivel-mounted on the tabletop for optimum cleaning
- Completely encased, powerful bevel gear drive: specifically designed for use in slaughtering & cutting up
- Stable stainless steel design **INOX / rust-free **
- Left and right-hand version available respectively for installation on a table or belt (please specify)
- Including electronic motor brake
- Up to 1200 cuts per hour



- Saw blade revolutions: 1170/min
- Cutting speed: 1470 m/min.



K16-P4_evo2

Circular breaking saw



Circular breaking saw for universal use

- Adjustable depth control
- Powerful 800W pneumatic- motor "Made in Germany"
- Stainless steel blade guard & depth control
- Even balance and force transmission protects the wrist joints
- Robust and low-wear gear unit
- Adjustable handle for better ergonomics

	3.1 kg	160 mm	15-51 mm	6 bar	Pneumatic
	7 lbs	6 1/2 inch	0.6-2 inch	87 psi	

K18-01

Circular breaking saw



Circular breaking saw for general cutting work in medium plants

- Suitable for trade
- Integrated electronic motor brake (standstill in less than 3 seconds)
- Adjustable depth control
- Round handle R (D type)
- Spiral cable SK

						IP		
			6.3 kg	180 mm	15-65 mm	IP 24	Electric, 1-phase	1050 watts (50-60Hz)
			14 lbs	7 inch	1/2 - 2 inch			1.4 hp (50-60Hz)

K18-13

Circular breaking saw



Circular breaking saw for general cutting work in medium plants

- Integrated electronic motor brake (standstill in less than 3 seconds)
- Adjustable depth control
- Round handle R (D type)
- Spiral cable SK

						IP		
			11.5 kg	180 mm	15 - 65 mm	IP 65	Electric, 3-phase	950 watts (50-60Hz)
			25.4 lbs	7 inch	1/2 - 2 inch			1.3 hp (50-60Hz)

K23-03

Circular breaking saw



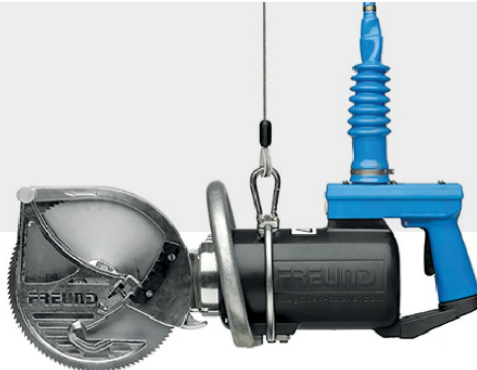
Circular breaking saw for general cutting work in medium plants

- Adjustable depth control 15-75 mm
- Mechanical motor brake MMB
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Circular saw blades available in various designs
- Round handle R (D type)
- Spiral cable SK

			14.5 kg	230 mm	15 - 75 mm	IP 65	Electric, 3-phase	1300 watts (50-60Hz)
			32 lbs	9 inch	1/2 - 3 inch			1.8 hp (50-60Hz)

K23-06

Circular breaking saw



Circular breaking saw for general cutting work

- Adjustable depth control
- Mechanical motor brake MMB
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Circular saw blades available in various designs
- Round handle R (D type)
- Spiral cable SK

			19 kg	230 mm	15 - 75 mm	IP 65	Electric, 3-phase	1800 watts (50Hz)
			42 lbs	9 inch	1/2 - 3 inch			2.4 hp (50Hz)



K28-06

Circular breaking saw



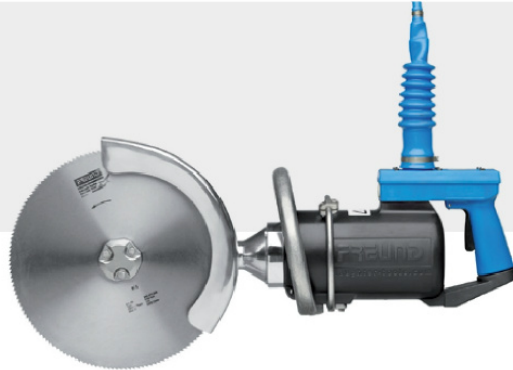
Circular breaking saw for general cutting work

- Saw blade stop within 3 seconds after switch-off (EU standard)
- Mechanical motor brake MMB
- Circular saw blades available in various designs
- Round handle R (D type)
- Spiral cable SK

						IP		
			19.5 kg	280 mm	100 mm	IP 65	Electric, 3-phase	1800 watts (50Hz)
			43 lbs	11 inch	4 inch			2.4 hp (50Hz)

K32-06

Circular breaking saw



Circular breaking saw for general cutting work

- Saw blade stop within 3 seconds after switch-off (EU standard)
- Mechanical motor brake MMB
- Circular saw blades available in various designs
- Round handle R (D type)
- Spiral cable SK

						IP		
			20 kg	320 mm	120 mm	IP 65	Electric, 3-phase	1800 watts (50Hz)
			44 lbs	12 1/2 inch	4 1/2 inch			2.4 hp (50Hz)

RTK18-13

Rib top circular saw



For separating the loin ribs of the spinal column on the complete mid-section

Two adjustable depth stops for

- precise cutting guide
- optimum yield
- high degree of operator safety

Horizontal cutting guide

Thin saw blade 0.8 mm for

- clean cuts and surfaces
- low germ counts
- less sawdust
- optimum yield



12.3 kg

160 mm

15 - 55 mm

IP 65

Electric,
3-phase

950 watts
(50-60Hz)
1.3 hp (50-
60Hz)

27 lbs

6 1/2 inch

1/2 - 2 inch



BCK23-03

Circular bacon saw



Circular breaking saw with horizontal saw blade for medium & high throughput plants

For coarse cutting, cutting out the backbone of bacon half-carcasses of pigs

- Circular saw blade, coarse tooth, rust-free KGZ
- Spiral cable SK
- Round handle R (D type)
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Mechanical motor brake MMB



13 kg

230 mm

75 mm

IP 65

Electric,
3-phase

1300 watts
(50-60Hz)
1.8 hp (50-
60Hz)

29 lbs

9 inch

3 inch



SRC34-H5_evo2

Spare ribs cutter



For optimum separation of the ribs (loin or back ribs) of split backbone

- Up to 2000 items/hour with trained personnel
- Clean, smooth and even cut
- Optimum extraction of the meat thanks to an additional extraction plate
- Consistent yield (practically no meat loss)
- Longer shelf life of the product thanks to better hygiene (hardly any sawdust)
- Safe working
- Laterally integrated conveyor belt for the ribs
- Low space requirement
- Transport rollers for a quick change of location



250 kg

551 lbs

345 mm

13 1/2 inch

IP 65

Electric,
3-phase

2800 watts
(50Hz)

3.0 hp
(50Hz)

- High degree of stability for the guides thanks to being locked via the tension lever
- Quick payback time due to the attractive price/performance ratio
- Circular knife blade can be re-sharpened
- Quick and easy to clean

RTC34

Rib Top Cutter



- High performance with up to 1500 cutlet strands per hour
- Circular knife blade technology
- Automatic cutting guide and ejection as well as outward conveyance of the portions
- Consistent precise cuts, less bone removal
- Less bone dust
- Good level of adjustability, including quick adjustment of the cutting depth
- Easy maintenance and cleaning
- Proven SRC drive technology
- Highly robust design
- Increased operator safety



260 kg

573 lbs



345 mm

13 1/2 inch



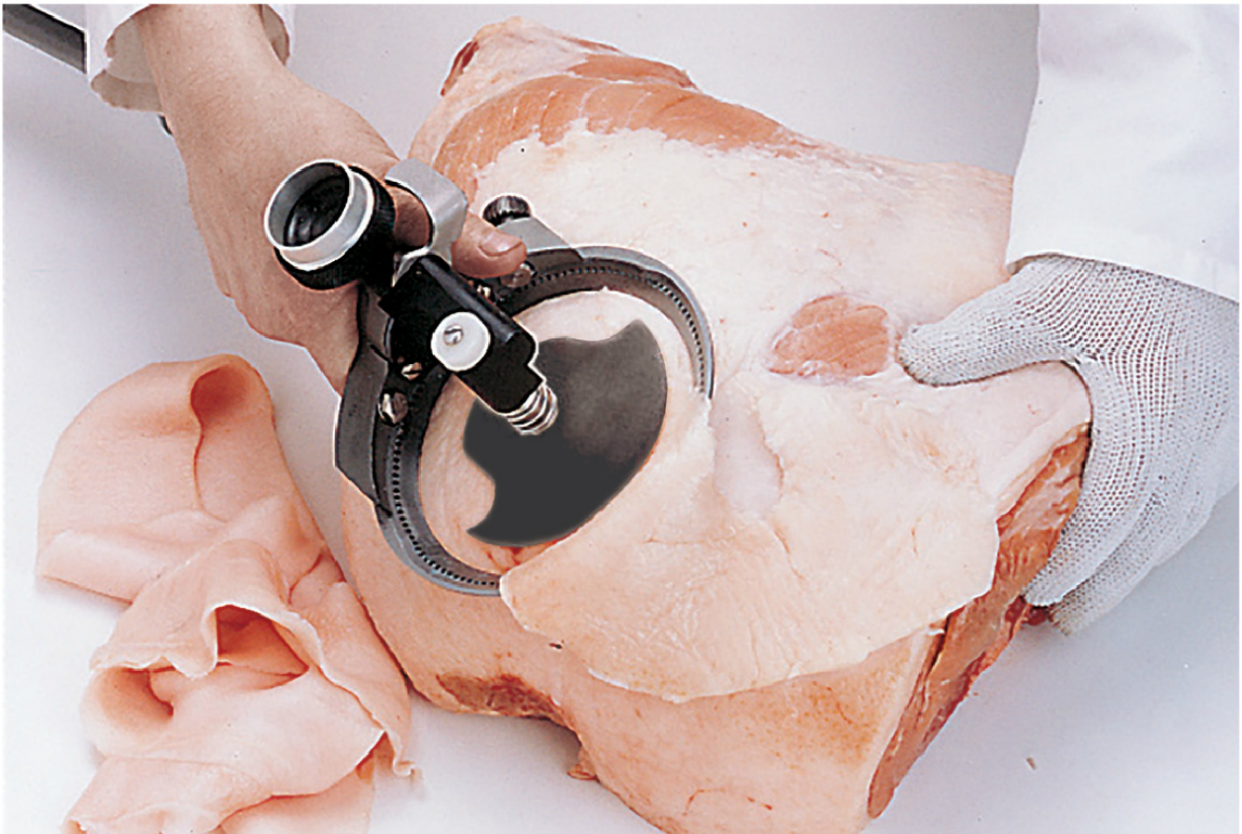
IP 65



Electric,
3-phase



2800 watts
(50Hz)
3.0 hp
(50Hz)



FEINZERLEGUNG

TRIMMING




CONTENTS

In modern meat processing, the type, efficiency and quality of the tools used have a significant influence on the quality of the end product and on the achievable yields.

It is not uncommon for high demands to be placed on such tools. This can result in maintenance-related downtimes and considerable servicing costs.

For this reason, developers of modern trimmers have the task of creating a product that is not only powerful and economical, but also low-wear and therefore cost-efficient. This is exactly the approach that we take here at FREUND.

With our latest Series 2 trimmers, we have created a product that - thanks the use of proven components and high-quality materials - is a low-maintenance and therefore cost-saving alternative to the trimmers widely available on the market

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TRIMMER

Quality trimmer



- Optionally powered electrically or pneumatically
- Further enhanced trimmer blade surface
- Less downtime and lower servicing costs thanks to low-wear quality components



35-128 mm

- Ergonomic handle with robust and abrasion-free plastic design
- Patented quick-change blade system for toolless trimmer blade change
- Significant improvement of user safety thanks to optional start-stop safety system
- Quiet operation minimises vibrations on the hand piece
- Four different measurement types A, B, C and D in diameters Ø 35, 52, 65, 90 and 128 mm
- Optionally available with depth control in three different user-oriented designs

PNM2

Pneumatic-motor



PNM2-D34



*Figure also shows trimmer head Ø 35 mm



- Hand piece with integrated pneumatic-motor for compressed air operation with 6 bar
- new PNM2-D34 handpiece with 34mm diameter for better handling
- Can be used with all FREUND trimmer heads
- Start-stop safety system with stop lever
- Non-slip handle
- Available with pneumatic connecting kit including service unit and couplings (recommended)

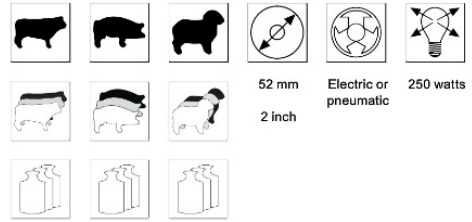
0.6 kg 6 bar pneumatisch 250 watts
1.3 lbs 87 psi

VAKUUM TRIMMER 52

Vacuum trimmer



- Application-optimised design
- Easy handling thanks to spherical suction head
- Various blade types (straight ring blade, hook ring blade)
- Minimal downtime and servicing costs thanks to low-wear quality components
- Ergonomic handle with robust and abrasion-free plastic design
- Quiet operation minimises vibrations on the hand piece
- Optionally powered electrically or pneumatically



TM-E6001 EF2_evo2

Electric motor (100Hz)



- Integrated hand piece suspension
- adjustable to 6500rpm
- Less downtime thanks to low-wear operation
- Compact and lightweight aluminium housing
- Hygienic design
- All hand pieces and trimmer heads can be used individually with both systems



TM-E6001 EF2_evo2
230V - 100Hz - 4500 U/min



From defatting degreasing of meat, poultry and fish products to precision cutting of wafer-thin salmon slices – with our optionally electrically or pneumatically powered trimmers, we offer you the right tool for the diverse requirements of your plant.

At the same time, the modular design of our trimmers gives you the option of choosing from four different blade types in five diameters (35, 52, 69, 90 and 128 mm) and countless optional features such as an ergonomic thumb rest, depth control in a robust and hygienic stainless steel design and many other features.

TRIMMER FEATURES

The right machine for every application

Trimmer modules



Depth control

- Even cutting depth (individually adjustable)
- Higher yield thanks to lower number of rejects
- Especially suited to cutting & filleting salmon and kebab in variant DCS (plastic) and DC2S (stainless steel)
- Especially suited for degreasing hard and cold meat in variants DCF (plastic) and DC2F (stainless steel)

Thumb rest

- Ergonomically shaped to enable fatigue-free working
- Freely adjustable for right- and left-handers
- Significant increase in user safety



Trimmer handpieces

- Ergonomically shaped, abrasion-free and hygienic
- Optimal handling thanks to different handle shapes
- Available in handle diameters 31, 34 and 38 mm

Connecting kits EF1 / EF2 / ADAPTIVE

- Low-maintenance thanks to integrated coupling sleeve
- Compatible with all FREUND hand pieces
- Also available as a special ADAPTIVE version to enable further use of your existing trimmer motor¹



¹) compatible with common trimmer motors

OPTIONS

	Ø (mm)	35	52	69	90	128
A (straight)		•	•	•	•	
B (hook)		•	•	•	•	
C (short flat)					•	•
D (long flat)						•
Depth control					DCF / DCS	DCF / DCS / DC2F / DC2S
Pinion gear and Bushing		Small	Small	Small	Large	Large
Thumb rest		•	•	•	•	•
Grease cup		Small/large	Small/large	Small/large	Small/large	Small/large
Steeling device only					•	•
Pneumatic-motor PNM2		•	•	•	•	•
Start-stop safety system		•	•	•	•	•
Grease fitting and vacuum suction system		•	•			



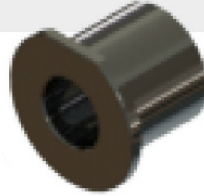
TRIMMER

Bearing plastic design



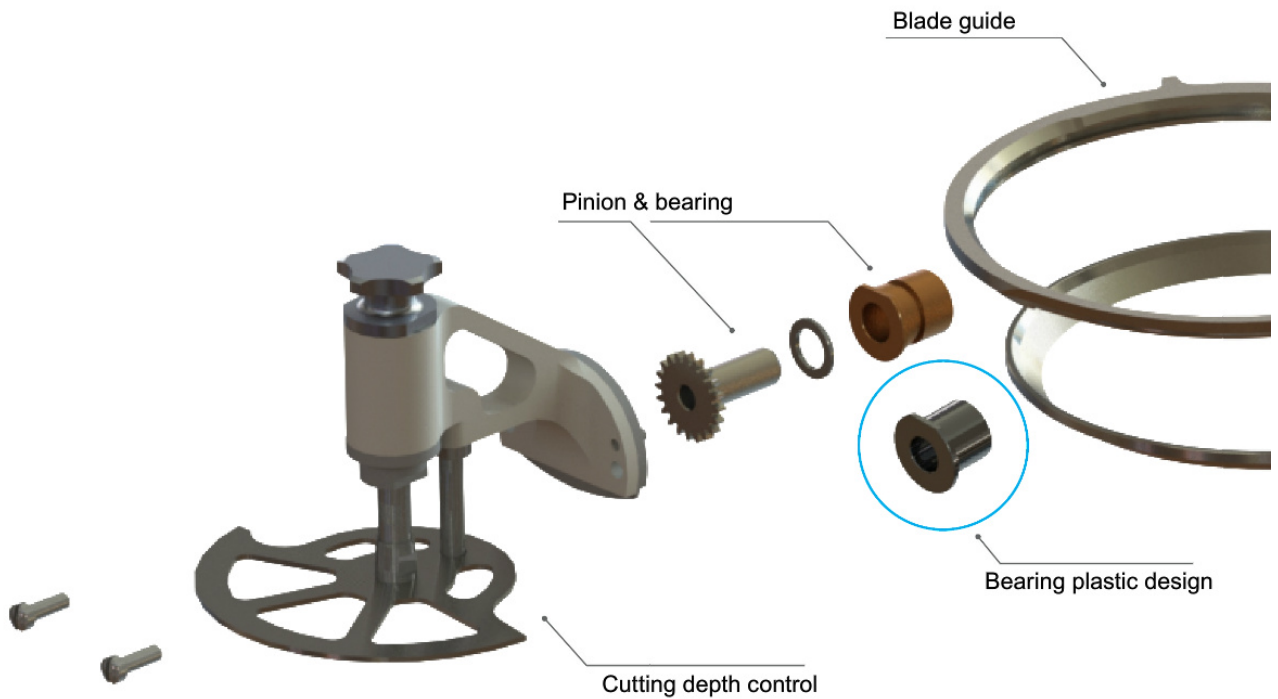
NEU!

NEW!

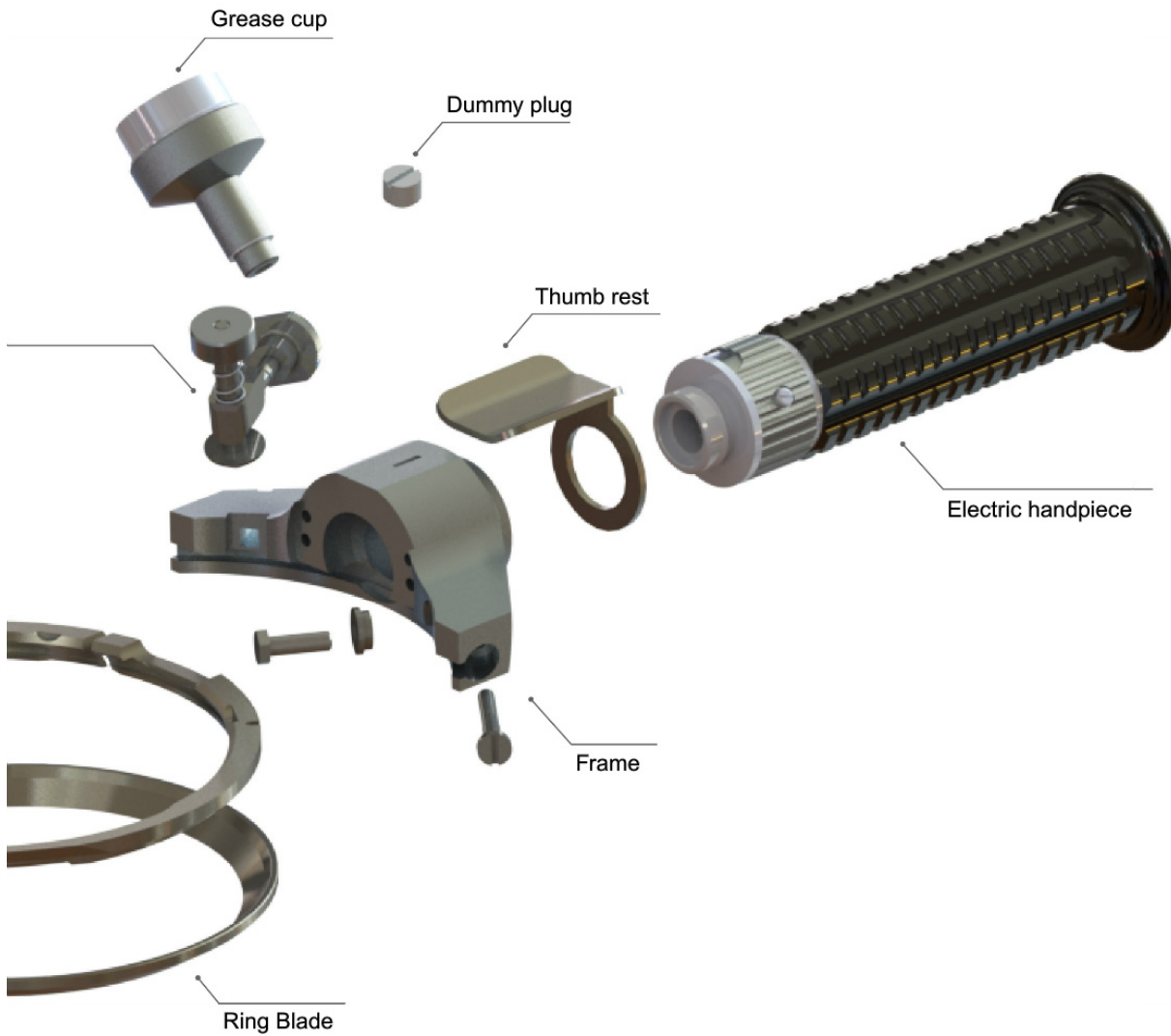


- all saleable trimmer handpieces can be equipped with the newly configurable plastic plain bearing
- available without an extra charge
- high endurance
- additional lubrication of the pinion is not necessary
- the daily greasing of the plain bearing is no longer necessary
- minimal weight reduction of the handpiece
- the handpiece is supplied without grease nipple and grease bushing (a blind plug is fitted)

Extractor



TRIMMER



*Figure shows one of the configuration options

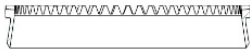
TRIMMER

Ring blade selection

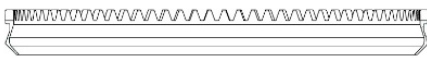


RING BLADE SELECTION

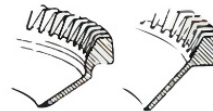
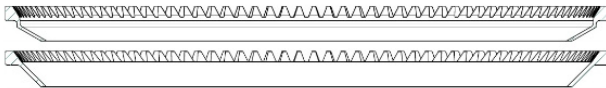
Type	Ø (mm)	35	52	69	90	128
A (straight)		•	•	•	•	
B (hook)		•	•	•	•	
C (short flat)					•	•
D (long flat)						•



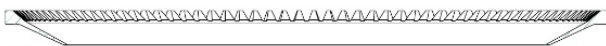
■ A (straight)



■ B (hook)



■ C (short flat)
30° / 45°



■ D (long flat)



TRIMMER

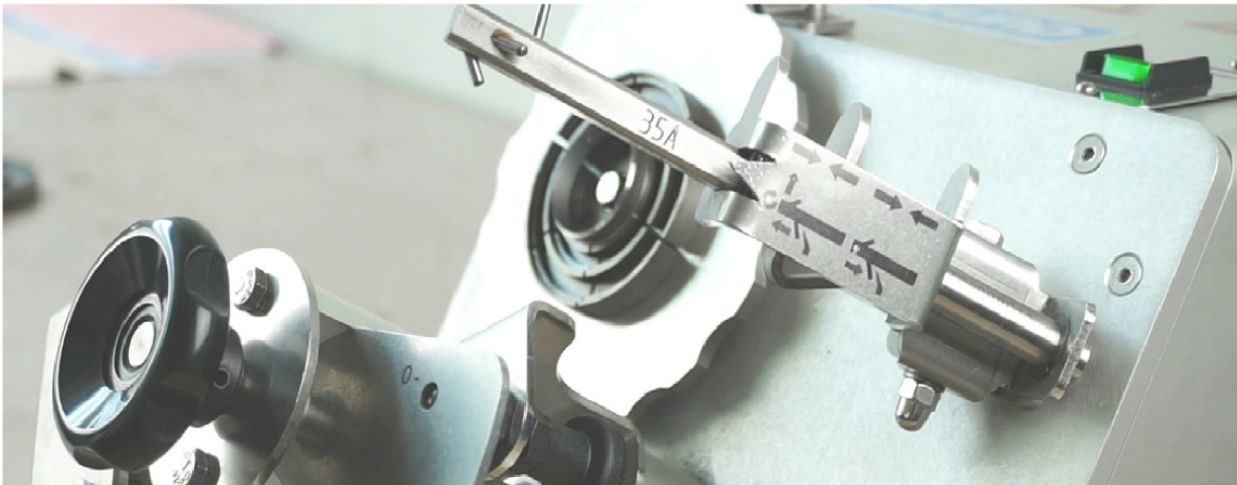
Ring blade application



APPLICATION

	Ø (mm)	35	52	69	90	128
Deboning / cleaning						
Bones		A	A	A		
Heads		A	A	A	A	
Chicken thighs		A	A			
Ribs from belly		A				
Removal						
Cheeks				A	A	
Chicken breast			B	B	B	
Spinal cord			A / B			
Remaining skin					C	C
Veins and glands	A	A				
Pig eyes	A					
Pork fillet				A	A	
Lean meat from fat						C
Tuna					C	C
Degreasing / trimming						
Skins					C	C
Warm fat trimming					C	C
Hard fat trimming					B	D
Ham / shoulder / cutlet					B / C	C
Slicing						
Salmon						C
Gyros / doner kebab					C	C





TSM-E1

Trimmer sharpening machine



*Figure: Standard variant with steeling device for blades Ø 69 -128mm

Trimmer sharpening machine for optimum sharpening results

- Precision sharpening of trimmer blades of all diameters
 - Quick clamp device in two different sizes enables rapid insertion of the trimmer blade with minimal installation effort
 - Spring-loaded deburring lever prevents contact being too forceful
 - Pre-coated precision grinding disc enables optimum sharpening results while, at the same time, ensuring the maximum service life for the grinding unit
 - Integrated overload display indicates potential overload
 - Compact aluminium housing with stable design
 - Drive with up to 8000 rpm
- Steeling device for Ø 35 and 52 mm OPTIONALLY available



13.8 kg
30 lbs



IP 32



Electric,
1-phase



150 watts
(50 Hz)

SCHÄRFSTAHL

Sharpening steel



- Precision resharpening of trimmer blades of type A 35 / 52 / 69 mm and trimmer blades of type B,C and D 90 / 128 mm
- Significant improvement of surface thanks to fine removal of material from the blade
- Increased service life for trimmer blades thanks to improved surface
- Design made of resistant chrome/vanadium alloy tool steel



344 g

0.8 lbs



248 mm

9.8 inch



12.9 mm

0.5 inch

SCHÄRFSTAHL-HAKEN

Sharpening steel hook



- Precision resharpening of trimmer blades of type A 35 / 52 / 69 mm and trimmer blades of type B,C and D 90 / 128 mm
- Significant improvement of surface thanks to fine removal of material from the blade
- Increased service life for trimmer blades thanks to improved surface
- Design made of resistant chrome/vanadium alloy tool steel



92 g

0.2 lbs



190 mm

7.5 inch



6.5 mm

0.25 inch

SCHÄRFSTAHL FÜR ARBEITSTISCHE

Sharpening steel for work tables



- Precision resharpening of trimmer blades of type B, C and D 90 / 128 mm
- Significant improvement of surface thanks to fine removal of material from the blade
- Increased service life for trimmer blades thanks to improved surface
- special design enables clamping in screwing device and attachment to work table
- Design made of hardened chrome/vanadium alloy cold work steel



270 g

0.6 lbs



160 mm

6.3 inch



9.5 mm

0.37 inch

HSK8-P5

Hand-Skinner (pneumatic)



NEU!



NEW!

- Bayonet catch
- Exhaust air outside the working area



		1,8 kg	76 mm	3,5 mm	6 bar	pneumatic	660 watts
		4 lbs	3 inch	0,14 inch	87 psi		0,89 hp

Hand skinner for easy skinning of pork halves and pig sections (cold fat trimming)

- Blade quick-change system for tool-less blade change
- High degree of operational safety
- Easy cleaning thanks to the hygienic design
- No dead spaces where dirt can accumulate
- Stable design
- With stainless steel safety guard
- Stainless steel scraper
- Low-noise operation
- Suitable for right- and left-handers

Powerful pneumatic-motor "Made in Germany"

Maintenance-friendly:

- Easy disassembly
- All parts of the roller are individually replaceable

HSK8-P3_evo2

Hand-Skinner (pneumatic)



- Direct compressed air connection to the motor

		1,6 kg	76 mm	3,5 mm	6 bar	pneumatic	320 watts
		3,5 lbs	3 inch	0,14 inch	87 psi		0,43 hp

TECHNICAL SUPPORT

OPTIMUM PLANNING

Excellent service is an important factor for customer loyalty – all of us at FREUND embody this belief. Whether it's maintenance, complaints or repairs – efficient service processes not only ensure satisfied customers, but also set us apart from the competition thanks to the comprehensive and meticulous technical service we offer.

PROFESSIONAL SERVICE

The basis for optimum service is the precise planning and handling of all our service offers. Based on a history of your existing machines, our team members are highly knowledgeable when it comes to your FREUND machines. In compliance with statutory requirements, you will receive a test certificate after any repair work.

ARRANGING AN APPOINTMENT

When a service request is received, our service team members immediately see which equipment is available and when. In order to keep your production downtime to a minimum, we offer you rental equipment of equal value during the repair period. Service lives are lengthened and downtimes are minimised, which has a positive impact on the life of FREUND machines and ensures a faultless production process. Our collection service will also save you time and effort and guarantees secure packaging for the transport process.

SERVICING

Special tools and decades of industry experience allow for flawless repair work in accordance with technical requirements. Only original parts and auxiliary materials are used - all of which have been approved via our in-house quality control. Thanks to the updates that are directly accounted for in the repair process, your product always complies with the latest technological standards.

Lower your operating costs via regular maintenance and repairs.

DIVERSE SERVICE PORTFOLIO

Multiple tasks can be entered for a service order. Such tasks are assigned to our service team. Our qualified employees provide professional advice and support, which is carried out in a skilful manner, on time and carefully according to our company philosophy.

You can reach our technical service via the following channels.:

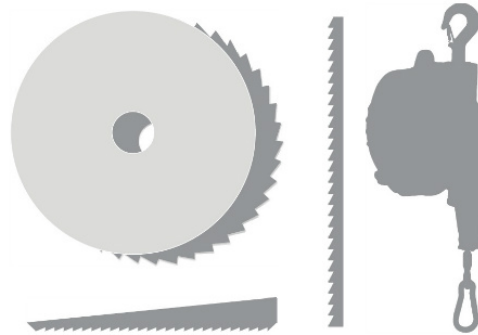
Phone: +49 (5251) 1659-46

E-Mail: service@freund.eu



OPTIONAL

OPTIONAL ACCESSORIES



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OPTIONAL

Circular saw blades (optional accessories)



TYPE	Ø mm	APPLICATION			Q	mm	TYPE	PART NO.
Fine tooth	160		•	•	120	1.1	KFZ160	220-000-011
Fine tooth			•	•	120	0.8	KFZ160	220-000-012
Coarse tooth			•	•	60	0.8	KGZ160	220-005-014
Fine tooth	180		•	•	120	1.3	KFZ180	220-000-004
Coarse tooth		•			90	1.3	KGZ180	220-005-003
Special tooth		•	•		14	1.3	KSZ180	220-010-004
Special tooth, low-noise	230	•	•	•	120*	1.2	KSZ180GA	220-000-506
Hard metal circular saw blade		•	•		30	1.4	KHZ180GH	220-100-001
Fine tooth		•	•	•	150	1.5	KFZ230	220-000-005
Coarse tooth	280	•			110	1.5	KGZ230	220-005-000
Coarse tooth, low-noise		•	•		60	1.5	KGZ230-60GA	220-005-550
Special tooth		•	•		18	1.3	KSZ230-16	220-010-050
Special tooth, low-noise	320	•	•	•	120*	1.7	KSZ230GA	220-000-507
Hard metal circular saw blade		•	•		36	1.7	KHZ230GA	220-100-003
Fine tooth		•	•		200	1.5	KFZ280	200-000-006
Coarse tooth	400	•			140	1.6	KGZ280	220-005-005
Special tooth for horns and legs		•			18	2.2	KSZ280H	220-010-006
Special tooth, low-noise		•	•		144*	1.7	KSZ280GA	220-000-508
Hard metal circular saw blade	for	•	•		40	1.7	KHZ280GA	220-100-005
Coarse tooth		•			160	1.6	KGZ320	220-005-006
Special tooth, low-noise		•	•		144*	1.7	KSZ320GA	220-000-509
Hard metal circular saw blade	HBK33-08	•	•		40	1.7	KHZ320GA	220-100-006
Special tooth for horns and legs		•			28	2.2	KSZ320H	220-010-008
Hard metal coarse tooth for horns		•			40	2.2	KHZ320HGA	220-100-010
Coarse tooth for splitting	FK40-08		•		100	1.2	KGZ400SPGA	220-006-001
Special tooth for splitting		•			180*	1.7	KSZ400SPGA	220-000-512
Hard metal coarse tooth for splitting		•			52	1.6	KHZ400SPGA	220-100-013
Hard metal coarse tooth	520		•		52	2.2	KHZ400GA-FK	220-100-014
Special tooth, low-noise		•			64	1.2	KSZ400-64GA	220-000-515
Coarse tooth for splitting		•			130	1.2	KGZ520SPGA	220-006-002
Special tooth for splitting	520		•		272	1.3	KSZ520SPGA	220-000-513
Hard metal coarse tooth for splitting		•			60	1.6	KHZ520SP	220-100-012

*Number of cutting teeth without intermediate teeth



OPTIONAL

Breaking saw / reciprocating saw / band saw blades (optional accessories)



BREAKING SAW BLADES

TOOTHING	LENGTH [MM]	TYPE	PART NO.
Fine tooth	300	STFZ 300	222-000-002
Coarse tooth		STGZ 300	On request
Fine tooth for breastbone	315	STFZ 315 BB	222-000-510
Fine tooth	400	STFZ 400	222-000-003
Coarse tooth		STGZ 400	On request
Fine tooth	500	STFZ 500	222-000-011

RECIPROCATING SAW BLADES

TOOTHING	LENGTH [MM]	TYPE	PART NO.
Fine tooth for breastbone	300	HUFZ 300 BB	223-000-001
Coarse tooth for breastbone		HUGZ 300 BB	223-005-007
Fine tooth for splitting	600	HUFZ 600 SP	223-000-102
Coarse tooth for splitting		HUGZ 600 SP	223-005-102

BAND SAW BLADES FOR TABLE BAND SAWS

for FREUND model	TYPE	PART NO.
TBS19KT	BA6/1750X16	225-200-002
TBS23KT	BA6/2170X16	225-200-022
TBS28FT / ST	BA6/2430X16	225-212-004
TBS40FT / ST	BA6/315X16	225-200-001



OPTIONAL

Band saw blades / circular knife blades (optional accessories)



BAND SAW BLADES FOR SPLITTER BAND SAWS

► Packaging unit:
5 items per box

► Minimum purchase quantity:
20 items per size



for FREUND model	TYPE	PART NO.	
SB 46-08	BA 46 FA	224-010-004	
	BA 46 GA	224-011-004	
	BA 46 GC	224-011-204	
SB49-08	BA 49 FA	224-010-006	
	BA 49 FC	224-010-206	
	BA 49 GA	224-011-006	
	BA 49 GC	224-011-206	
	SB 50-08	BA 50 FA	224-010-005
		BA 50 FC	224-010-205
BA 50 GA		224-011-005	
	BA 50 GC	224-011-205	

QUALITY	PITCH	TOOTHING
FA	8 mm / 3 tpi	Standard 8 mm
FC	10 mm	Cleaning tooth
GA	8 mm / 3 tpi	Standard 8 mm
GC	10 mm	Cleaning tooth

For band saw blades for machines of other manufacturers, please contact our sales team by calling +49 5251 1659 46

CIRCULAR KNIFE BLADE



For FREUND model	TYPE	PART NO.
BBKM / ZKM 25	KM250W-2F	230-250-002
	KM250A-2F	230-250-004
	KM250N-2F	230-250-001
SRC 34	KM345WD-1F	230-345-001
ZKM 60	KM600S-1F	230-600-006
	KM600Z-1F	230-600-007
ZKM 75	KM750S-1F	230-750-002
	KM750Z-1F	230-750-013
	KM750Z-2F	230-750-011
ZKM 95	KM950-1F	230-950-001
	KM950Z-2F	230-950-002



OPTIONAL

Spring balancers - special hygienic design for the food industry



SPRING BALANCERS WITH CABLE EXTENSIONS UP TO 2,0 M

TYPE		CABLE EXTENSION		BALANCING RANGE		WEIGHT, GROSS		PART NO.
		m	ft	kg	lbs	kg	lbs	
F14-2SK	S	2,0	6,5	10 - 14	22 - 31	7	16	920-426-100
F18-2SK	S	2,0	6,5	14 - 18	31 - 40	8	18	920-430-100
F22-2SK	S	2,0	6,5	18 - 22	40 - 49	8	18	920-431-100
F25-2SK	S	2,0	6,5	20 - 25	44 - 56	8	18	920-432-100
F30-2	S	2,0	6,5	25 - 30	56 - 67	12	26	920-436-000
F35-2	S	2,0	6,5	30 - 35	67 - 78	12	26	920-437-000
F45-2	S	2,0	6,5	35 - 45	78 - 100	13	28	920-438-000
F55-2SK	S	2,0	6,5	45 - 55	100 - 122	13	28	920-439-100
F65-2	S	2,0	6,5	55 - 65	122 - 143	14	30	920-440-000
F75-2		2,0	6,5	65 - 75	143 - 165	15	32	920-441-000

SPRING BALANCERS WITH CABLE EXTENSIONS UP TO 2,5 M

TYPE		CABLE EXTENSION		BALANCING RANGE		WEIGHT, GROSS		PART NO.
		m	ft	kg	lbs	kg	lbs	
F4-2,5	S	2,5	8	2-4	4-9	3	7	920-414-001
F6-2,5SK	S	2,5	8	4-6	9-13	4	9	920-415-102
F8-2,5SK	S	2,5	8	6-8	13-18	4	9	920-416-101
F10-2,5SK	S	2,5	8	8-10	18-22	4	9	920-417-101
F14-2,5SK	S	2,5	8	10-14	22-31	4	9	920-418-101

OPTIONAL



SPRING BALANCERS WITH CABLE EXTENSIONS UP TO 3,0 M

TYPE		CABLE EXTENSION		BALANCING RANGE		WEIGHT, GROSS		PART NO.
		m	ft	kg	lbs	kg	lbs	
F20-3SK	S	3	10	15-20	33-44	19	42	920-470-100
F25-3		3	10	20-25	44-56	20	44	920-471-000
F35-3	S	3	10	25-35	56-78	21	46	920-472-000
F45-3	S	3	10	35-45	78-100	24	53	920-473-000
F50-3	S	3	10	40-50	89-111	24	53	920-474-000
F60-3	S	3	10	50-60	111-133	25	56	920-475-000
F70-3	S	3	10	60-70	133-156	27	60	920-476-000
F80-3		3	10	70-80	156-178	28	62	920-477-000
F90-3	S	3	10	80-90	178-200	29	64	920-478-000
F100-3	S	3	10	80-100	178-222	29	64	920-479-000
F115-3		3	10	100-115	222-253	40	88	920-480-000
F130-3		3	10	115-130	253-260	40	88	920-481-000
F140-3		3	10	130-140	260-308	43	95	920-482-000
F150-3		3	10	140-150	308-330	46	100	920-483-000
F160-3		3	10	150-160	330-352	49	108	920-484-000
F180-3		3	10	160-180	352-396	50	110	920-485-000



OPTIONAL

Disinfection cabinets / disinfection pools (optional accessories)



DISINFECTION CABINETS	TYPE	FOR FREUND MACHINES		PART NO.
DES-K01	BBH30-03	BBST30-13		913-501-502
	FNS9P	HDS15		
	FNS9	K18-13		
	FS6			
DES-K02	BBK23-03	K23-03		913-506-003
	BBK28-06D	K23-03L		
	BBKM25-03	K23-06		
	HBK28-06	K28-03		
	HLS12	K28-03L		
	HZ7	K28-06		
	HZ10	K32-06		
	LS15			
	PFK23-03			
DES-K03	SH60-03	SST50-13		913-503-502
	ST40-13			
DES-K04	SB46-08	SB49-08		913-505-002
	SB50-08			
DES-K05	LS15	NS21		913-509-00
	NS26	AS28		
DES-K06-ROD				913-508-002
DES-K07	HBK33-08	SK40-08L		913-510-000
	SK52-08L			
DES-K08	HG12			913-511-000

DISINFECTION POOLS	TYPE	FOR FREUND MACHINES		PART NO.
DES-B01	VH38B	VH38I		913-101-220
	VH38E	SVH38A		
	VH38G	SVH38B		
	VH38H	SD11		



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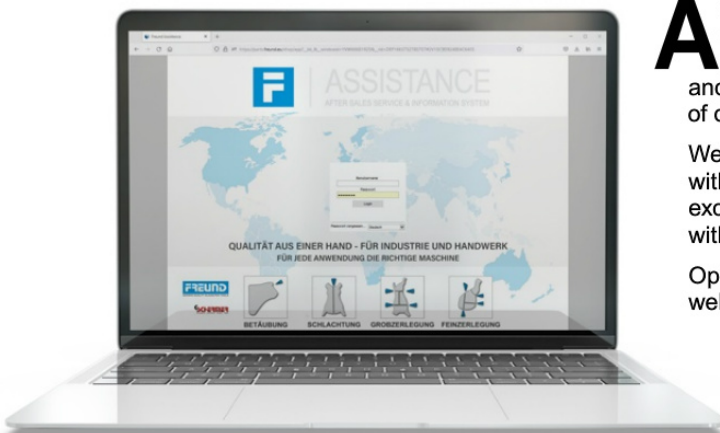


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NOTES

FREUND ASSISTANCE

WE ARE DIGITAL



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A couple of clicks, no waiting times, using a PC, smartphone or tablet at any time of day or night: our customer portal provides you with information and functions relating to our machines - at any time of day!

We're going digital for you to unite you as a customer with us on one platform – communication and data exchange as you have never experienced it before with FREUND.

Operating manual and login can be found on our website :

<https://www.freund.eu/freund-assistance.html>

ADVANTAGES FOR OUR CUSTOMERS

- Find your FREUND machines and FREUND devices
- You can navigate your way around the respective machine
- Find, view and print a spare parts list
- Operating manuals for our machines/devices
- Installation manuals for our machines/devices
- SRC technical information
- Send order requests directly to FREUND Sales by email, done directly from the customer portal
- Further users (multi-user login) can be created per customer on request

The advantages to the customer are at the forefront of everything we do. Our customer portal is of course available to you free of charge. After all, customer relations is a top priority for FREUND. Please give us a call on

+49 (5251) 1659-0 .

ANIMAL SPECIES



ANIMALS PER WEEK

Trade	Medium plants	Industry
1 - 20	21 - 500	> 500
1 - 100	101 - 5 000	> 5 000
1 - 200	201 - 10 000	> 10 000

CARCASS (DEAD) WEIGHT

	< 200 kg	200 - 400 kg	> 400 kg
	< 80 kg	80 - 120 kg	> 120 kg
	< 15 kg	15 - 25 kg	> 25 kg

TECHNICAL DATA

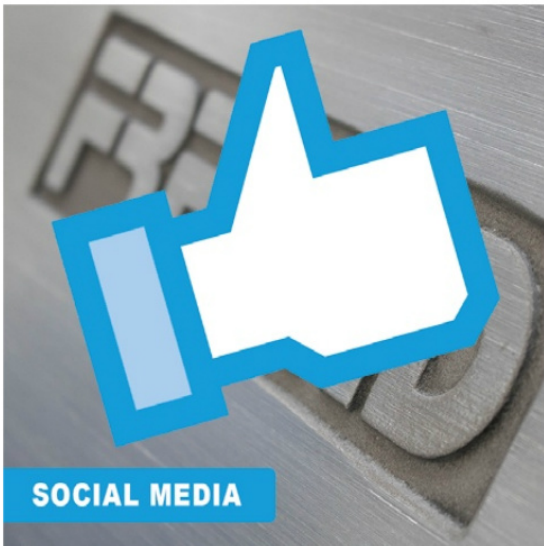
Weight (of the tool)	IP Protection class
Saw blade diameter	Drive type
Saw blade / Cutting length	Pressure
Cutting depth	Power
Shear opening	Cable extension
Stroke	Tensile strength of cable
Diameter	Saw blade teeth
Saw blade thickness	

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SOCIAL MEDIA

FREUND - SOCIAL MEDIA



Over 150 million people in Europe alone are active on social and digital media every day.

Platforms such as Facebook and LinkedIn are becoming ever more important in the fast-moving communications mix.

Each individual “user” predominantly makes use of such platforms on a mobile device.

The social media measures of FREUND Maschinenfabrik GmbH & Co. KG are tailored to the development for different channels.

The goal of all these measures from FREUND is to offer the respective “user” inspiration for products, developments and general information.

At FREUND, we use our social media not only to further develop our own offers, but also as an efficient way to increase awareness of our in-house product developments and customer information.

To ensure you are always fully up-to-date, visit and follow us on our social media channels as well.



<https://www.facebook.com/FREUND-Germany-374611402632603/>



<https://www.linkedin.com/company/freund-germany>



https://www.instagram.com/freund_germany/



<https://www.youtube.com/@freund-germany>

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