

# STUNNING



**TRADITION + INNOVATION = FUTURE**





# STUNNING




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**P**rofessional 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.

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# ELECTRONIC STUNNER



## STUN DATA ONLINE



## ONE-CLICK REMOTE PARAMETERISATION

<div>Senden</div>																
Max. Strom																
0																
Netzspann.																
131																
Sprache																
1																
An																
24																
Nr	Kopf Startfreq	Kopf Endfreq	Kopf Verzug	Kopf RampZeit	Herz Endfreq	Herz Verzug	Herz RampZeit	Herz Ladungszeit	Herz Strom	Herz Ges Zeit	Kopf min.Strom	Kopf min.Zeit	Herz min.Strom	Herz min.Zeit		
1	800 Hz	600 Hz	0 sek	0.5 sek	100 Hz	50 Hz	0 sek	0.5 sek	0 As	0 sek	1.3 A	3.9 sek	0.3 A	0 sek		
2	400 Hz	50 Hz	1.5 sek	2.3 sek	7 As	1 A	1.5 sek	2.5 sek	7.4 As	1.5 A	7 sek	1.3 A	4 sek	0.8 A	4 sek	
3	150 Hz	100 Hz	0 sek	0.5 sek	10 As	1.5 A	4 sek	50 Hz	50 Hz	0 sek	0 As	0 sek	0.4 A	1.4 sek	0.3 A	0 sek
4	800 Hz	600 Hz	0 sek	0.5 sek	10 As	1.5 A	4 sek	50 Hz	50 Hz	0 sek	0 As	0 sek	1.3 A	4 sek	0.3 A	0 sek
5	800 Hz	600 Hz	0 sek	0.5 sek	10 As	1.8 A	4 sek	50 Hz	50 Hz	0 sek	0 As	0 sek	1.3 A	4 sek	0.3 A	0 sek
6	150 Hz	120 Hz	0 sek	0.5 sek	7 As	0.7 A	1.5 sek	50 Hz	50 Hz	0 sek	0 As	0 sek	0.4 A	1.4 sek	0.3 A	0 sek
7	150 Hz	120 Hz	0 sek	0.5 sek	7 As	0.6 A	1.5 sek	50 Hz	50 Hz	0 sek	0 As	0 sek	0.4 A	1.4 sek	0.3 A	0 sek

## STUN-E6XXL

Electronic, high-frequency, constant-current, cloudenabled stunner with Cooling System 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

## TECHNICAL DATA

	STUN-E4	STUN-E6XXL	STUN-E8XXL
Dimensions H x B x T (mm)	350 x 305 x 165	400 x 300 x 200	400 x 300 x 200
Weight (kg)	9,7	13	13,1
Operating voltage (V)	115V/230V	90-260V	90-260V
Protection class	IP 44	IP 44	IP 44
Stun current (A)	max. 2,5A	max. 2,5A	max. 2,5A

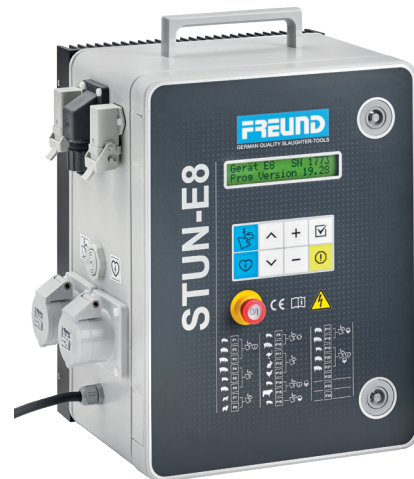


### STUN-E4



Electronic, high-frequency, constant-current, cloudenabled stunner for the craft application

- 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
- Web interface with daily/weekly/monthly statistics



### STUN-E8XXL



Electronic, high-frequency, constant-current, cloudenabled stunner with Cooling System for Industry. Also suitable for stunning animals in stun traps.

In addition to the otherwise identical technical features of the STUN-E6XXL:

- 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)
- Second outlet for separate heart-electrode

# STUNNING

## ELECTRIC STUN TONGS



### STUN-TONG-EP STEEL



Electric stun tong 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



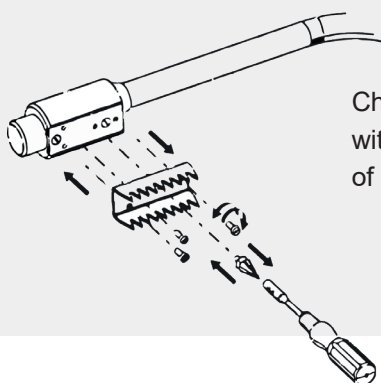
### STUN-TONG-EA STEEL



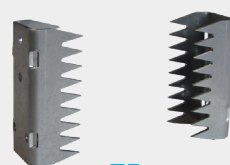
Electric stun tong for sheep, lambs & goats

- Extra 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

## ELECTRODE QUICK-CHANGE SYSTEM



Change of electrodes without disassembly of tong head



EP

(for pigs)

for: STUN-TONG-STEEL



EA

(for sheep)

for: STUN-TONG-STEEL

## TECHNICAL DATA

	STUN-TONG-EP STEEL	STUN-TONG-EA STEEL	STUN-TONG-ES STEEL	STUN-TONG-EPP2
Length (mm)	850	850	940	640
Weight (kg)	3,2	3,2	3,5	3,2

### ■ F3-1,6N

Spring balancer with cable extensions up to 1,6 m

optional for:  
STUN-TONG-EF



### ■ F6-2,5SK

Spring balancer with cable extensions up to 2,5 m

optional for:  
STUN-TONG-EPP2



## STUN-TONG-ES STEEL

Electric stunning tong for pigs and sows

- Hexagonal electrodes
- Wide opening range for head and heart stunning
- Electrode quick-change system
- Angled, ergonomic handle
- Stable stainless steel design  
\*\* INOX / rust-free \*\*
- Wear-resistant spiral cable



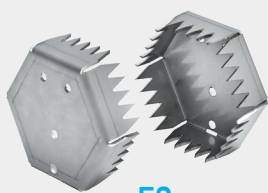
## STUN-TONG-EPP2

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



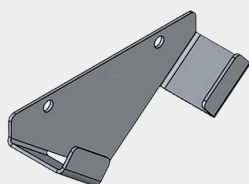
## ACCESSORIES: WALL BRACKETS



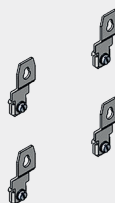
ES

(for pigs)

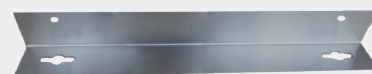
for: STUN-TONG-ES-STEEL



- for STUN Tongs



- for electric stunner STUN-E4



- for electric stunners  
STUN-E6XXL / STUN-E8XXL



## SCHERMER K SERIES



### SCHERMER K SERIES

Captive bolt stunner in different designs and sizes

- High penetrating power even for high slaughter output
- 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 and moisture-resistant 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. 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
- Head fixation is recommended
- Calibre .27 - 6,8/15 mm
- PTB tested and certified according to CIP and CE



## CAPTIVE BOLT STUNNERS

# STUNNING



### SCHERMER KS

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 KL

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
- Head fixation is recommended
- 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

# STUNNING

## CAPTIVE BOLT STUNNERS



### SCHERMER KK

Captive bolt stunner in shortened design for cattle, pigs and sheep up to 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 of cattle, calves and sheep up to 1000 kg

- Non penetrating
- Suitable for Halal slaughter
- Trigger safety system
- Use may be subject to national regulations and restrictions
- Not permissible for stunning in plants within a member state of the European Union
- Calibre .27 - 6,8/15 mm
- PTB tested and certified according to CIP and CE













































## TECHNICAL DATA

	SCHERMER KR	SCHERMER KS	SCHERMER KL	SCHERMER KK	SCHERMER KC
Weight (kg)	3,1	3,1	3,3	2,9	4,4

### High performance cartridges calibre .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



APPLICATIONS	RECOMMENDED CARTRIDGE CONFIGURATION				
	KR	KS	KK	KL	KC
 Cattle > 1000 kg	-	-	-		-
 Cattle 650 - 1000 kg		-	-	-	
 Cattle 300 - 650 kg				-	
 Calf < 300 kg				-	
 Buffalo	-	-	-		-
 Horse				-	
 Pig > 150 kg		-	-		-
 Pig 30 - 150 kg				-	-
 Piglet < 30 kg				-	
 Sheep > 40 kg				-	
 Lamb < 40 kg				-	

\*Specified weight relates to live weight



## 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 test must be carried out.

Inspection interval:

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

Inspection interval:

This inspection sticker indicates when the next annual repeat test must be carried out.

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
- If the device is compliant, we issue a test sticker and a test certificate
- If necessary, we put together a cost estimate for the repair work
- You get your device back and we collect the replacement device (premium package subject to an additional charge)





# 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. To ensure operational safety, we provide you with equivalent rental equipment for the duration of the repair work. 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](mailto:service@freund.eu)

# FREUND ASSISTANCE

## WE ARE DIGITAL



**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 :

**[www.freund.eu/assistance](http://www.freund.eu/assistance)**

## ADVANTAGES FOR OUR CUSTOMERS

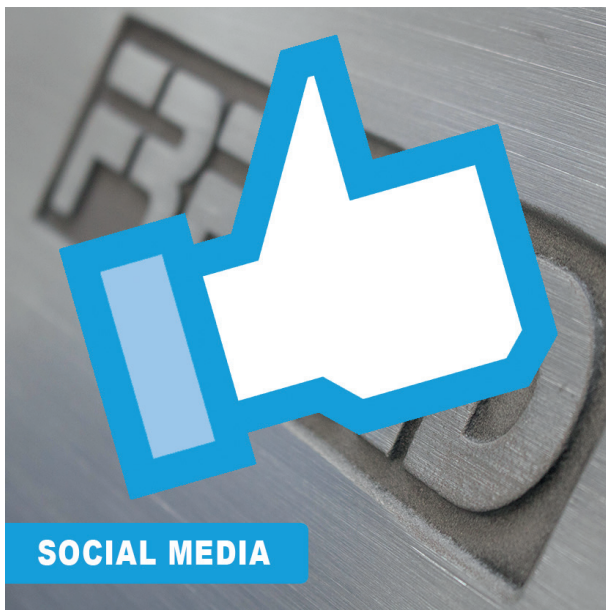
- Find your FREUND machines and FREUND devices
- You can navigate your way around the respective machine
- Find, view and print a spare parts list
- Operating manuals for our machines/devices
- Installation manuals for our machines/devices
- SRC technical information
- Send order requests directly to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

**T**he 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 .**

# 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>

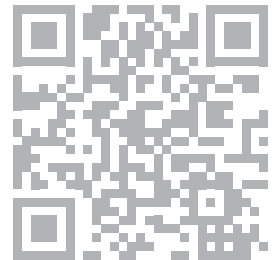


[https://www.instagram.com/freund\\_germany/](https://www.instagram.com/freund_germany/)

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