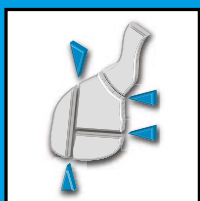


TRIMMER_evo3



TRIMMING



TRADITION
+ INNOVATION
= FUTURE





FEEL THE NEW POWER IN PERFECTION



TRIMMER_ev03

TRIMMING



TRIMMER_evo3

Our new Trimmer_evo3 are a cost saving alternative, designed with durable, robust components to provide excellent performance with low maintenance costs.

We present a variable modular system with quality components that offers advantages such as higher productivity, higher yields, more profits and improved safety. The new system minimizes the need for spare parts and maintenance and service are more customerfriendly.

Thanks to the new ergonomic shape of the new series, comfortable, fatigue-free and more efficient work is guaranteed.



CONTENTS

▶ Trimmer_evo3	6-7
▶ Trimmer_evo3 Features	8-11
▶ Exploded views / spare parts	12-13
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▶ Ring blade selection & application	16-17

▶ Trimmer_evo3 in the salmon industry	18-25
▶ Trimmer_evo3 - Variant with vacuum suction	26-31
▶ Sharpening of blades	32-33
FREUND Assistance / Technical support	35

TRIMMER_evo3

TRIMMING



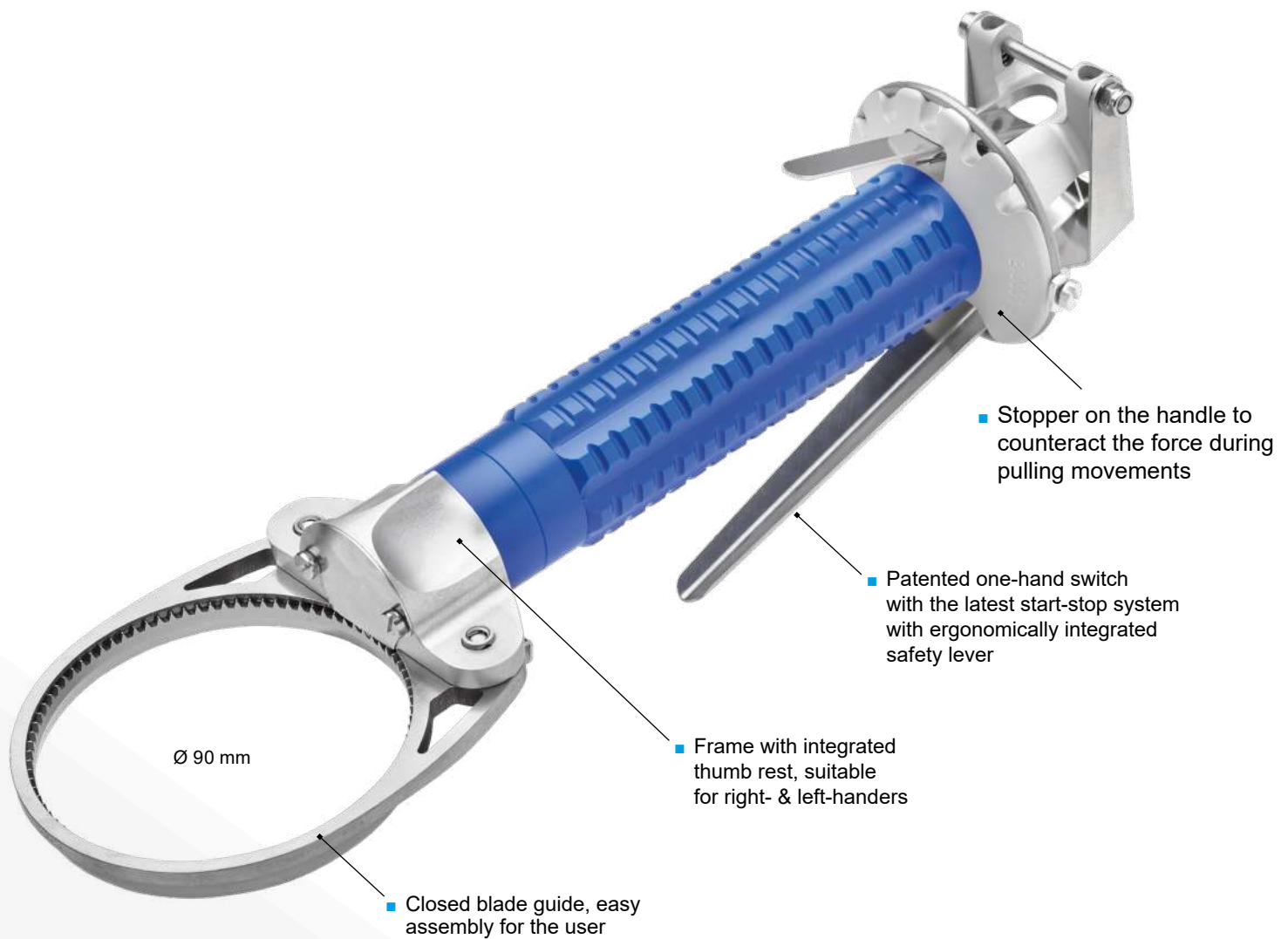
- Better cutting performance for all applications
- Modular Design
- Improved power transmission of the drive to the blade
- Improved ergonomics thanks to perfectly balanced handpiece
- Weight reduction reduces hand fatigue
- The “fat-free variant” reduces the number of foreign bodies
- A puller for 6 different blades reduces costs and errors
- Patented one-hand switch with the latest start-stop system with ergonomically integrated safety lever
- Quality blades made from corrosion-resistant heavy-duty steel for many trimming/protein applications
- Low maintenance costs thanks to low-wear quality components



► **NOTE:** Sharpening of suitable blades only with the TSM-E1 trimmer sharpener

TRIMMING

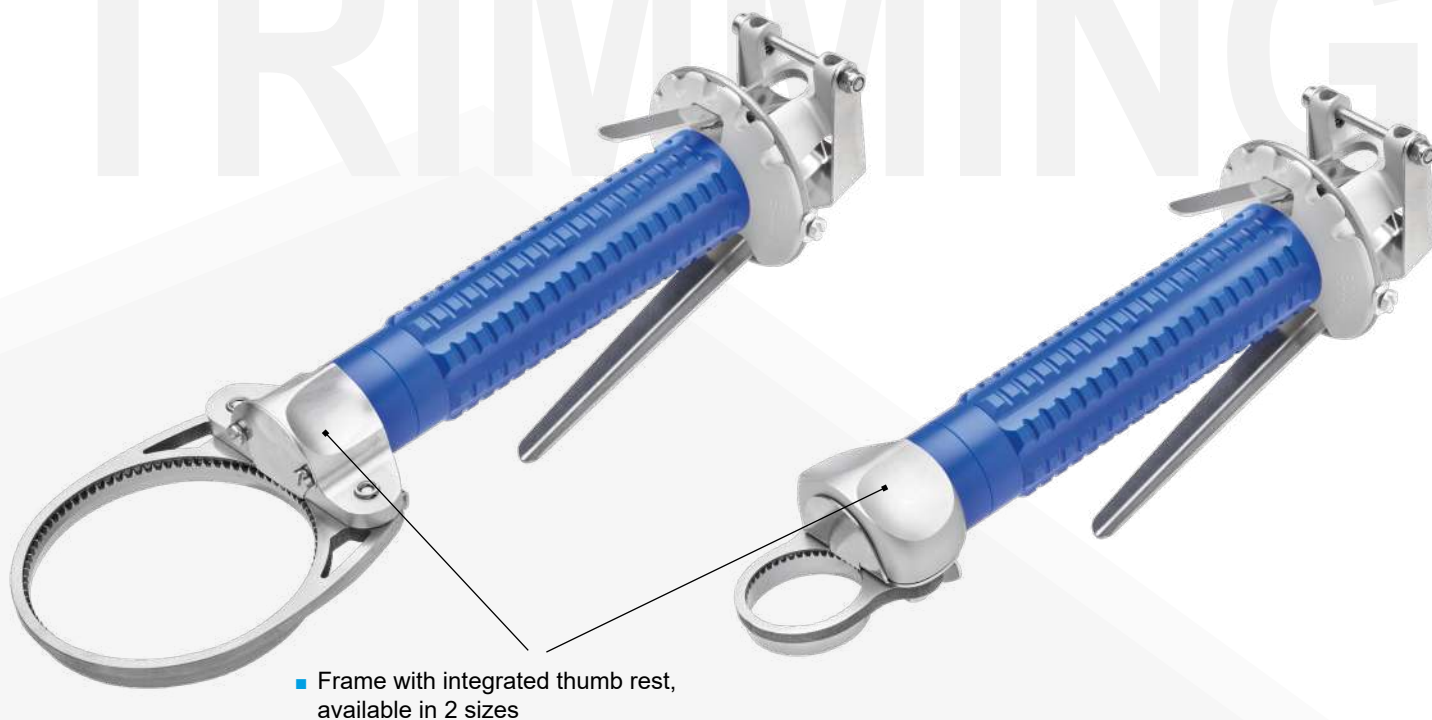
TRIMMER_evo3



Videos on maintenance & care

* The images show Trimmer_evo3 'Fat-free variants'

TRIMMING



* The images show Trimmer E90_evo3 / Trimmer E35_evo3 'Fat-free variants'



for Ø 128 mm



for Ø 90 mm

■ Frame 'large'



for Ø 69 mm



for Ø 52 mm



for Ø 35 mm

■ Frame 'small'



► **NOTE:** Sharpening of suitable blades only with the TSM-E1 trimmer sharpener

TRIMMING

TRIMMER FEATURES

■ new multifunctional grease ring



► with grease nipple



► with grease cup
(also suitable as a
hand strap holder)



► com suporte
de correia



► ergonomically designed
for fatigue-free work



Videos on maintenance and care of Trimmer_evo3

* The images show Trimmer_evo3 'Fat-free variants'

FEATURES

TRIMMER evo3



DEPTH CONTROL

- uniform cutting depth (individually adjustable)
- higher yield due to reduced rejects
- in 2 stainless steel versions DCF(FAT) / DCS(SKIN)

MULTIFUNCTIONAL GREASE RING

- Various versions, including with/without grease nipples, with hand strap holder or with grease bushing (also suitable as a hand strap holder)

THUMB SUPPORT

- Ergonomically designed for fatigue-free work
- Infinitely adjustable for right- and left-handed users
- significant increase in user safety

ONE-HAND SWITCH

- Low-vibration one-handed operation with start-stop safety system
- Separate grip and functional areas
- perfectly balanced by mass in the rear area
- Stop to counteract the force of pulling movements
- Binding the hand strap and vacuum hose holder

TRIMMER HANDLE

- hygienic and abrasion-resistant
- 2 versions (cylindrical/ergonomic) in 2 sizes (S/M)

DRIVE LINE

- High flexibility & lightweight
- Longer service life thanks to reinforced inner core (special fiber fabric) and vibration reduction



STANDARD VERSION

Ø (mm)	35	52	69	90	128
One hand switch cp	•	•	•	•	•
Frame	small	small	small	large	large
Bearing (plastic)	•	•	•	•	•
Pinion	small	small	small	large	large
Steeling device				•	•
Quick release	•	•	•	•	•
Handle ergonomic EM (middle)	•	•	•	•	•
Blade	A (straight)	A (straight)	A (straight)	C 45°	C 45°

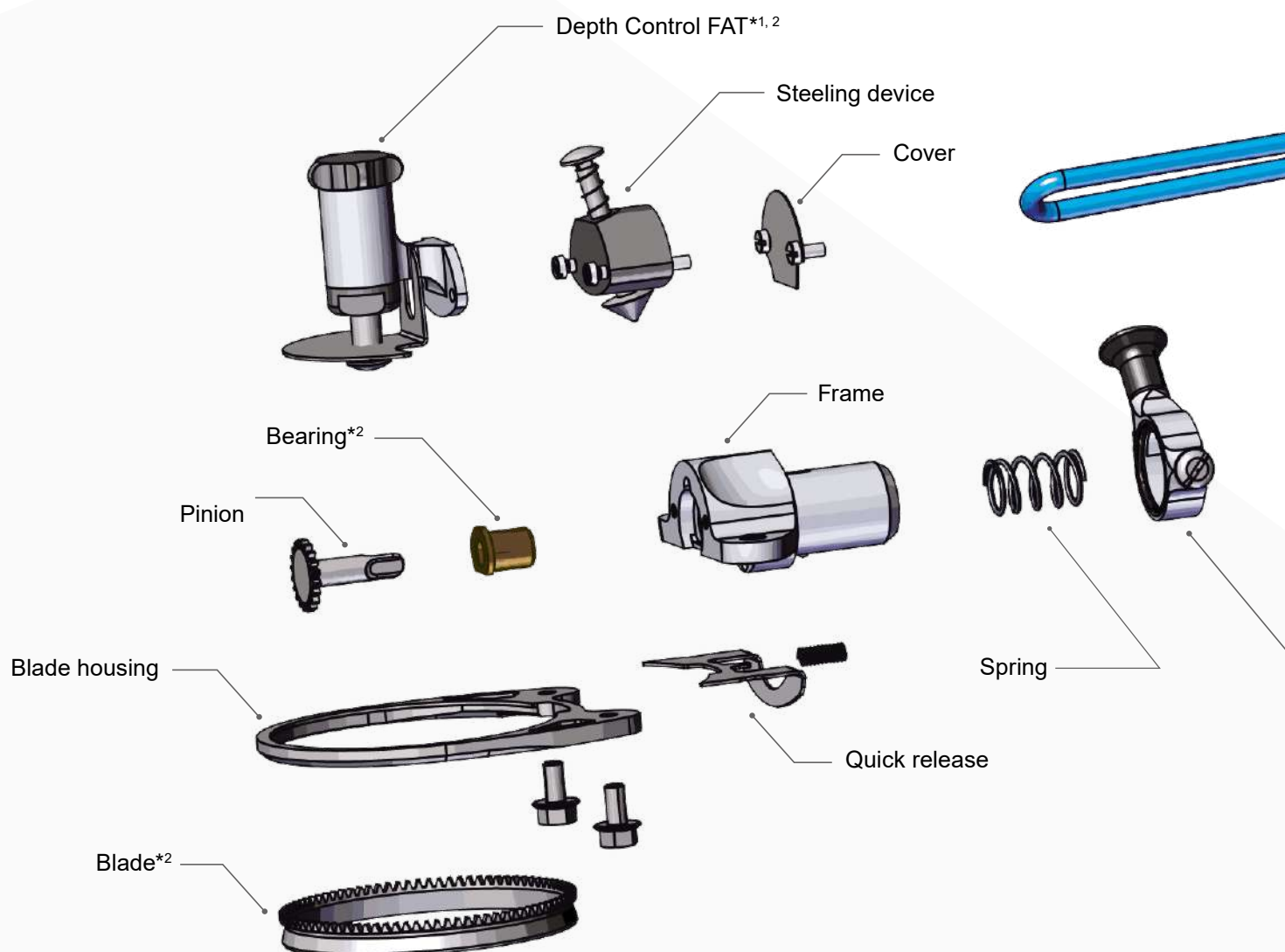
OPTIONAL

Blade SCR16	•				
Blade SCR19	•				
Blade A (straight)	•	•	•	•	
Blade B (hook)	•	•		•	
Blade C (30°)					•
C (45°)			•	•	•
C (45°) serrated			•	•	• NEW!
Blade D (30°)					•
D (30°) serrated					• NEW!
Depth control			DCS NEW!	DCF/DCS	DCS/ NEW! DCF/DCF2/DCF3
Hose adapter and hose bracket for vacuum hose	•	•			
Bearing (bronze)	•	•	•	•	•
Grease ring w/o grease bush	•	•	•	•	•
Thumb support (plastic)	•	•	•	•	•
Handle ergonomic ES (small)	•	•	•	•	•
Handle cylindric M (middle)	•	•	•	•	•
S (small)	•	•	•	•	•
Strap	•	•	•	•	•



* The Images show some of the possible configurations

TRIMMING

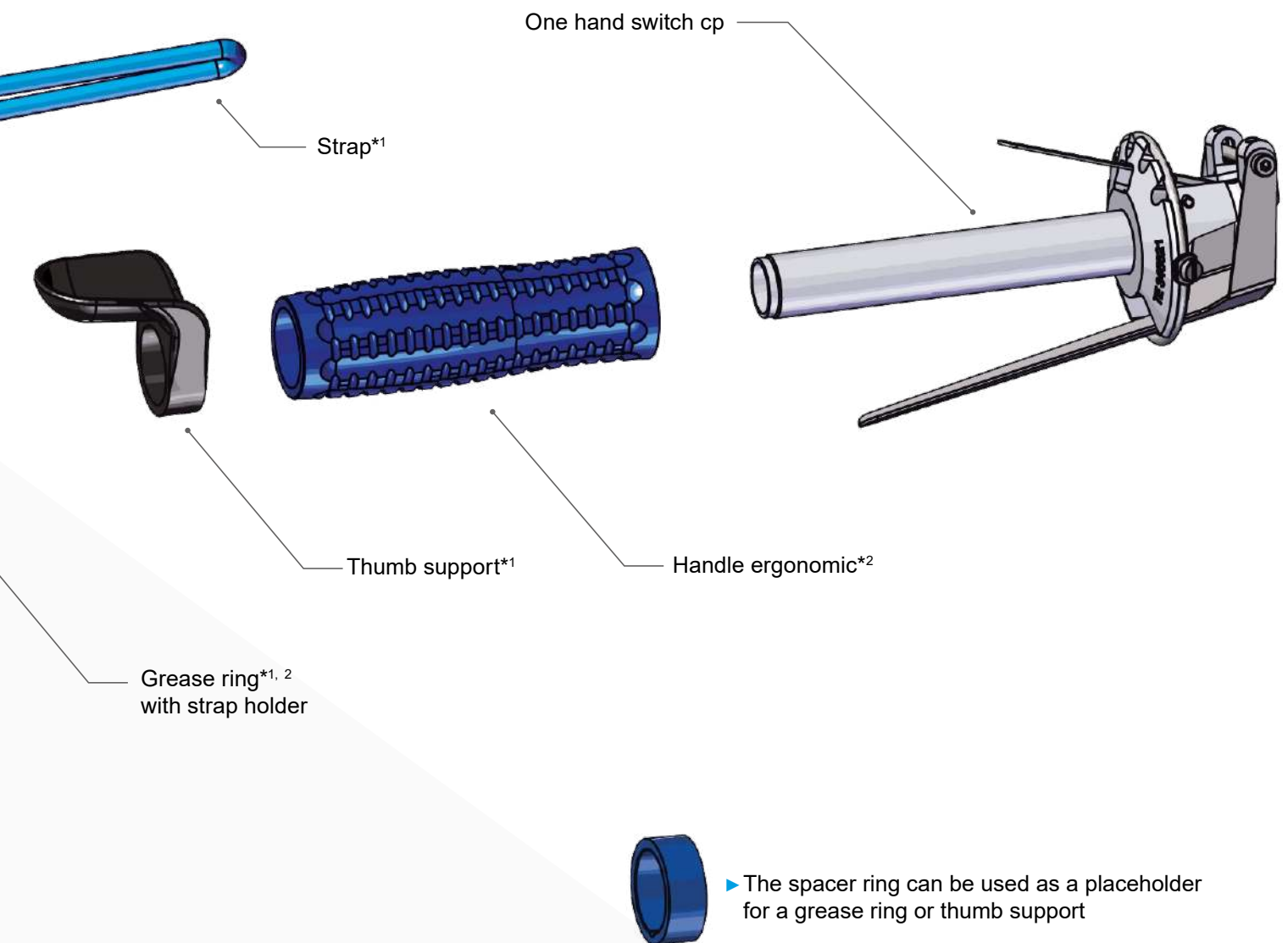


*1 optional / *2 available in various versions



Exploded views & spare parts
of Trimmer_evo3 / electric

VARIANT TRIMMER E90_evo3



*Figure shows one of the configuration options



MDL1



ELECTRIC MOTOR MDL1

- Constant speed, available in 3 speed variants:
 - 3000 rpm
 - 4500 rpm
 - 6000 rpm
- "Soft start" and "quick stop" of the rotating blade in conjunction with the rest position of the stainless steel handpiece holder for the highest safety standard
- Extremely robust and waterproof (the completely sealed aluminium housing allows for trouble-free use in wet/damp environments, e.g. in slaughterhouses, on deep-sea fishing trawlers, etc.)
- The hygienic design allows for easy cleaning
- Energy-efficient and safe – automatic switch-off after 30 minutes of idle time or in case of overload
- Available in version 230V~
- Available with clamp holder

► NOTE:

MDL1 and TM-E6000_evo3 motors can only be used in conjunction with Trimmer_evo3

TM-E6000_evo3

TRIMMER MOTOR



TECHNICAL DATA

	TM-E6000_evo3	MDL1
Weight (kg)	16,5	12
Revolutions (rpm)	up to 6000	3000 4500 6000
Protection class	IP 65	IP 65
Drive	electric, 1 phase	electric, 1 phase
Power	550 watts 0,74 hp	500 watts 0,67 hp



ELECTRIC MOTOR TM-E6000_evo3

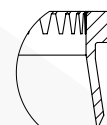
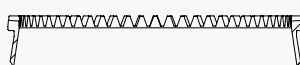
- Infinitely adjustable up to 6000 rpm
- "Soft start" and "quick stop" of the rotating blade in conjunction with the rest position of the stainless steel handpiece holder for the highest safety standard
- 2-hand operation, maximum operator control/safety
- Extremely robust and waterproof (the completely sealed aluminium housing allows for trouble-free use in wet/damp environments, e.g. in slaughterhouses, on deep-sea fishing trawlers, etc.)
- The hygienic design allows for easy cleaning
- EU standard technology - stable supply chains reduce the risk of delivery bottlenecks
- Available in 2 versions: 230V~ or 115V~

- Engaging and disengaging the driveline on MDL1 and TM-E6000_evo3:
 - ▶ faster
 - ▶ less complicated
 - ▶ to the highest safety standard

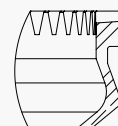
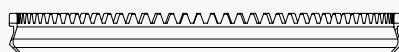
RING BLADE SELECTION



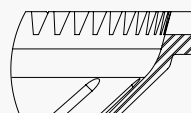
TYPE	Ø (MM)	35	52	69	90	128
A (straight)		•	•	•	•	
B (hook)		•	•		•	
C (30°)						•
C (45°)				•	•	•
C (45°) serrated				•	•	•
D (30°)						•
D (30°) serrated						•



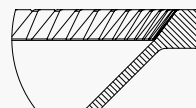
■ A (straight)



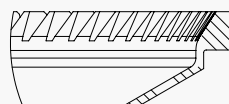
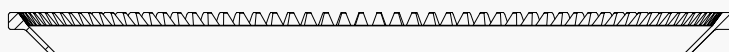
■ B (hook)



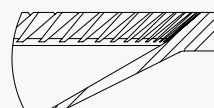
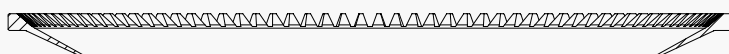
■ C (45°) serrated



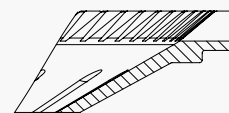
■ C (45°)



■ C (30°)



■ D (30°)



■ D (30°) serrated

APPLICATION



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



► **NOTE:** Sharpening of suitable blades only with the TSM-E1 trimmer sharpener

TRIMMER_evo3 IN THE SALMON INDUSTRY



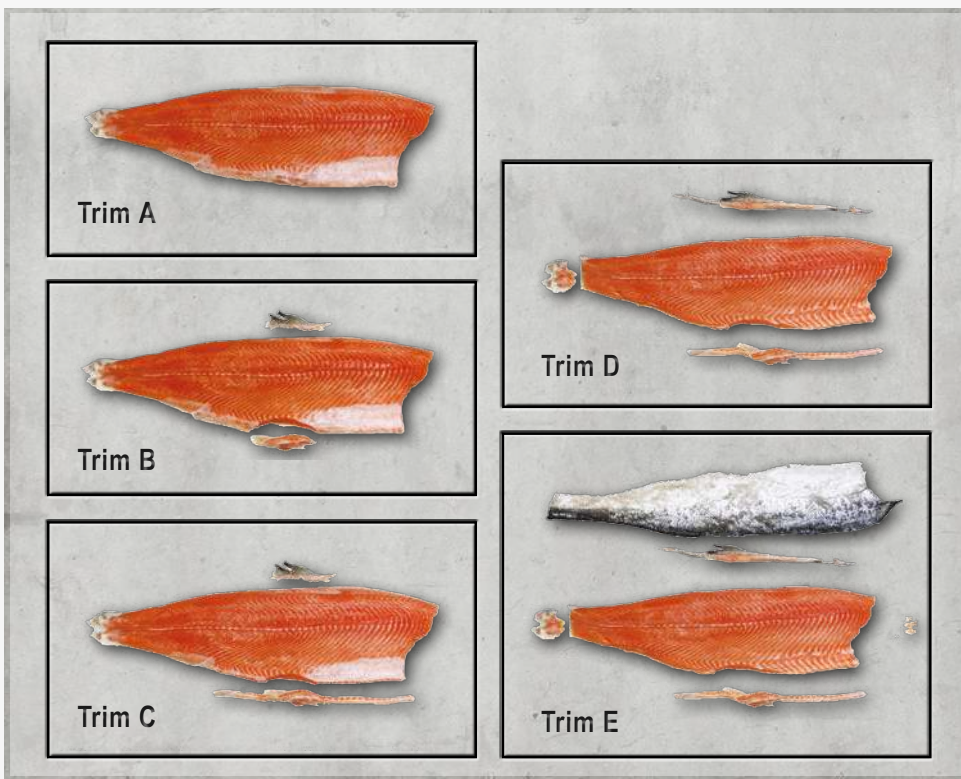


TRIMS FROM A-F

EFFECTIVE

CONTROLLED

MAXIMUM YIELD



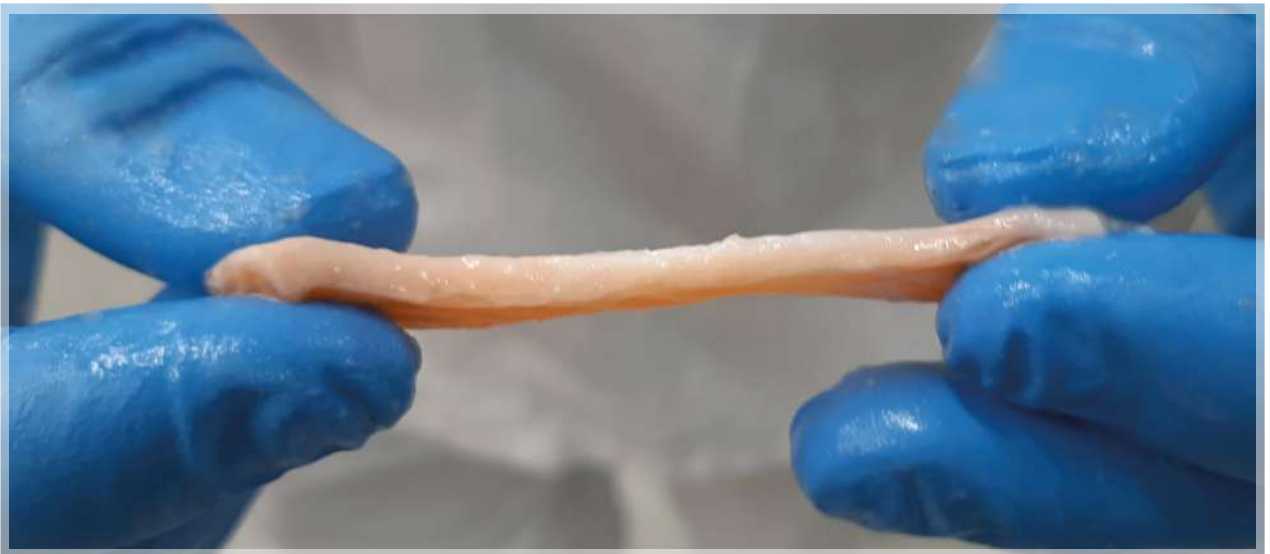
SUITABLE FOR ALL TYPES OF TRIM!

With our trimmers you can perform any trim with high yields on the fillet.

With a choice of electrically operated trimmers, we offer you the right hand tool for the diverse requirements on your farm.

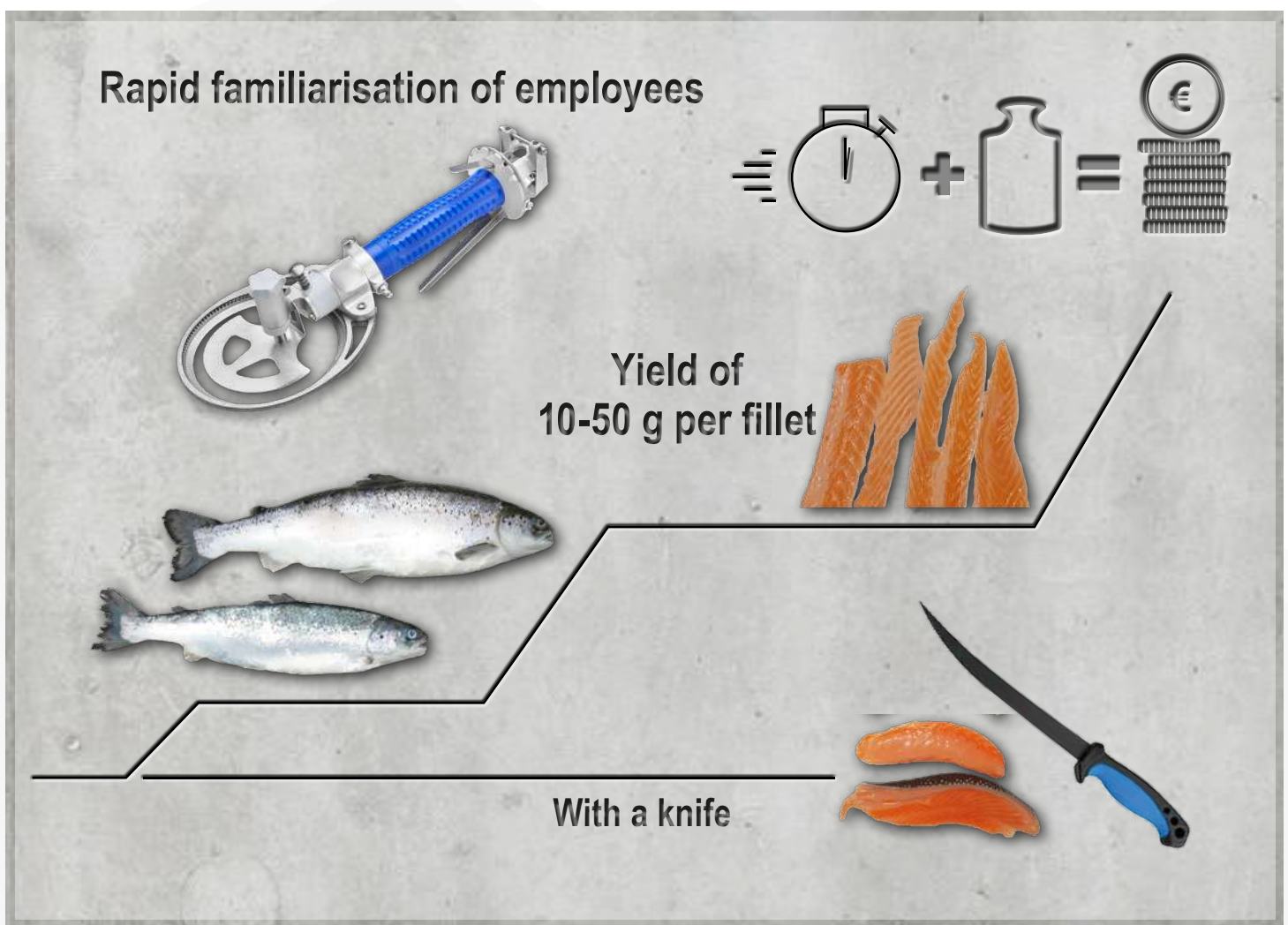


**CLEAN & TIDY CUT
DUE TO DEPTH CONTROL**



TRIMMING

MORE PROFIT THROUGH HIGHER YIELD!



TECHNICAL ADVANTAGES AT A GLANCE

- ▶ Suitable for all common types of trimming in salmon processing
- ▶ Precise, controlled cutting
- ▶ High yield for all trims
- ▶ Designed for continuous industrial operation
- ▶ Proven worldwide in leading salmon processing plants

TECHNOLOGY FOR CONSISTENT RESULTS

PRECISE TRIMMING SOLUTION FOR INDUSTRIAL SALMON PROCESSING

The Trimmer_evo3 was also developed to meet the requirements of industrial salmon processing.

It enables precise, controlled trimming processes while maintaining high line performance and consistent product quality – regardless of product size or trimming requirements.

The Trimmer_evo3 is designed for continuous use in production lines and meets the highest requirements for process reliability and operability:

- High cutting performance with consistent precision
- Intuitive operation to minimise operating errors
- Ergonomic design to reduce fatigue in multi-shift operation
- Precise cuts with a particularly clean, smooth surface
- Optimal control during cutting and trimming
- Higher yield compared to using a knife
- Reduced training requirements compared to working with a knife

ROBUST DESIGN ENSURES

- low downtime
- long service life even under demanding production conditions

THE POWERFUL BLADE SYSTEM OF THE TRIMMER_EVO3 OFFERS:

- Long service life
- Consistent cutting performance throughout the entire period of use
- Reduced maintenance and replacement intervals

Thanks to its precise blade guidance and stable construction, the Trimmer_evo3 ensures clean cuts with minimal material loss. This results in:

- Reproducible trimming quality
- Reduced over-trimming rate
- Measurable increase in raw material yield



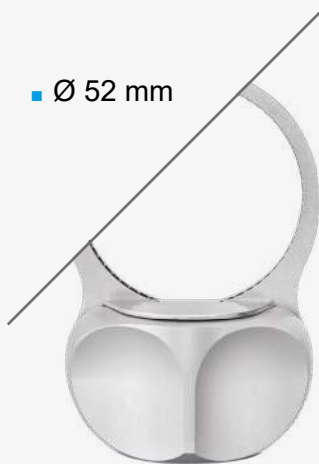


<https://www.leroyseafood.com/sv/om-leroy/fran-fjord-till-bord/>

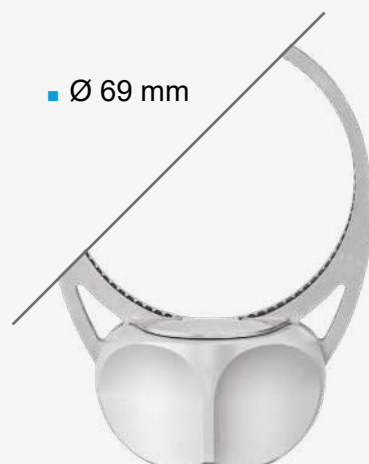
■ Ø 35 mm



■ Ø 52 mm

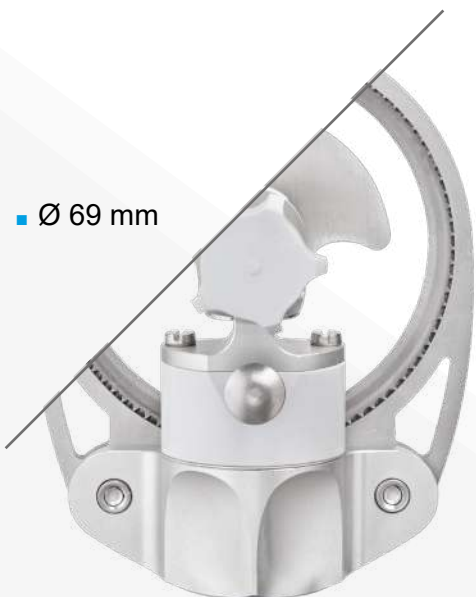


■ Ø 69 mm

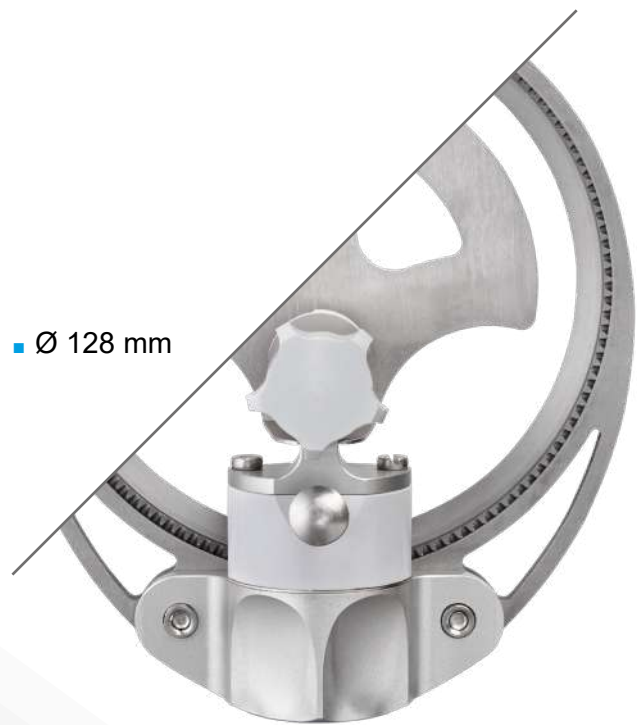




■ Ø 69 mm



■ Ø 128 mm



TRIMMER_evo3

NEW!

NEW!



Electric motor
MDL1

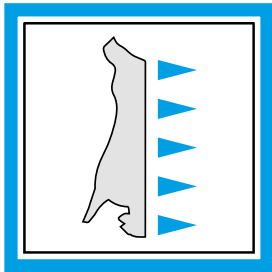


Electric motor
TM-E6000_evo3



VARIANTS WITH VACUUM SUCTION

SLAUGHTERING



With the use of our FREUND trimmer variants with vacuum extraction the slaughtering in your plant will be even more profitable for you.

Often materials that should be removed remain in the carcass. With our FREUND trimmer variants with vacuum suction these can be removed and vacuumed away. Hugely increasing carcass yield.

Among other things, up to 0.5 kg of material can be removed from the carcass per half pig. For 1,000 pig halves, this amounts to up to 500 kg of material.



Fat and flare material
approx. 0.2 kg*

bloody material
approx. 0.2 kg*

tonsils and brains
approx. 0,1 kg*

*material to be removed from the carcass. Data per pig half.

TRIMMER_evo3 -

VARIANTS WITH VACUUM SUCTION

SLAUGHTERING



TRIMMER 35_evo3 -

VARIANT SCR SPINAL CORD REMOVER

- Ergonomic handle
- New flexible suction and delivery hose
- 2 ring blade sizes available:
 - ▶ SCR16 for pigs
 - ▶ SCR19 for cattle
- One-hand control with the latest start-stop system
- Suitable for right & left-handed users

TRIMMER 35_evo3 -

VARIANT WITH VACUUM SUCTION

- New flexible suction and delivery hose
- Ring blade types 35A or 35B for almost any application with vacuum suction
- One-hand control with the latest start-stop system
- Suitable for right & left-handed users

EFFICIENCY AND QUALITY

SLAUGHTERING



TRIMMER 52_evo3 - VARIANT WITH VACUUM SUCTION

- New flexible suction and delivery hose
- Ring blade types 52A or 52B for almost any application with vacuum suction
- One-hand control with the latest start-stop system
- Suitable for right & left-handed users



Elektromotor
TM-E6000_evo3

VSS - VACUUM-SUCTION-SYSTEM*

- Vacuum tank (stainless steel), optional:
 - 110 l for mounting on trolley/wall
 - 220 l for mounting on trolley/wall
 - 330 l for wall mounting
- Vacuum pump: VPSC300
- 5m each vacuum pump hose and handpiece hose
- Trolley: VSS



*available on request

SLAUGHTERING

MODULAR DESIGN

= Trimmer 35_evo3
variant SCR
spinal cord remover



+

= Trimmer 35_evo3
variant with
vacuum extraction



+



+



+



+

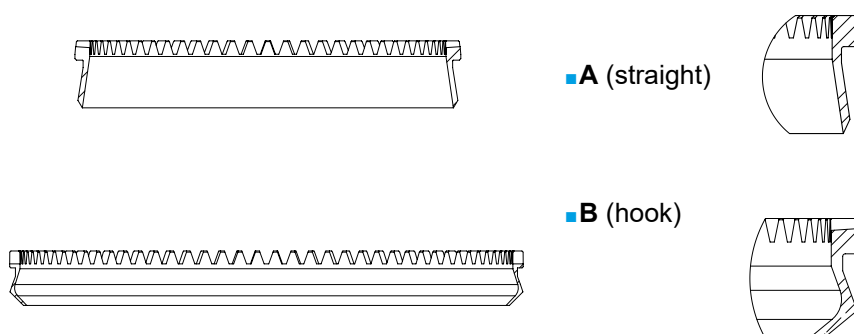
= Trimmer 52_evo3
variant with vacuum extraction



Exploded views & spare parts
of Trimmer_evo3 / electrical

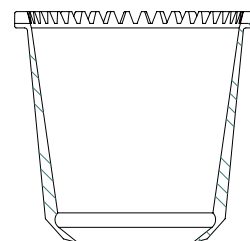


RING BLADE SELECTION

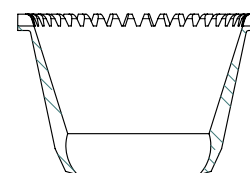


FOR SPINAL CORD REMOVAL

■ SCR16



■ SCR19



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		Cleaning / vacuum suctioning bones	A	
Trimming / vacuum suctioning cover fat	A	B	Deboning / vacuum suctioning long bones	A	
Trimming / vacuum suctioning chest fat	B		Removing tendons in the shoulder		B
Removing / trimming heart fat		B			
Trimming / vacuum suctioning spinal cord	B	B			
Trimming / vacuum suctioning blood vessels	B	A / B			
Trimming / vacuum suctioning leaf lard	B	B			
Trimming / vacuum suctioning filets		B			

TRIMMING

RING BLADES SHARPENING



*Figure: Standard variant with steeling device for blades Ø 35-52 mm



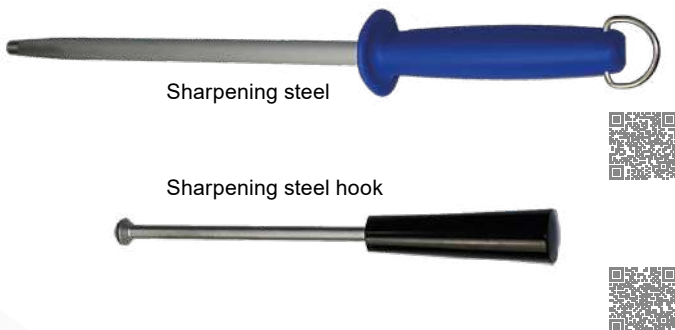
TSM-E1 - TRIMMER SHARPENING MACHINE

- Precise sharpening of suitable trimmer blades for all FREUND trimmers except SCR16 and SCR19
- Quick clamp device in two different sizes enables rapid insertion of the trimmer blade with minimal installation effort
- Steeling device available in 3 sizes:
 - for Ø 35 und 52 mm
 - for Ø 69 und 90 mm
 - for Ø 128 mm
- 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 load indicator potential overload
- Compact aluminium housing with stable design
- Drive with up to 8000 rpm



TECHNICAL DATA

	TSM-E1	SHARPENING STEEL	SHARPENING STEEL HOOK	SHARPENING STEEL FOR WORK TABLE
Length (mm)		248	190	160
Diameter (mm)		12,9	6,5	9,5
Weight (g)	1380	344	092	270
Revolutions (rpm)	up to 8000			
Protection class	IP32			
Drive type	electrical, 1-phase			
Power	150 Watt (50Hz)			



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



SHARPENING STEEL FOR WORK TABLE

- 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

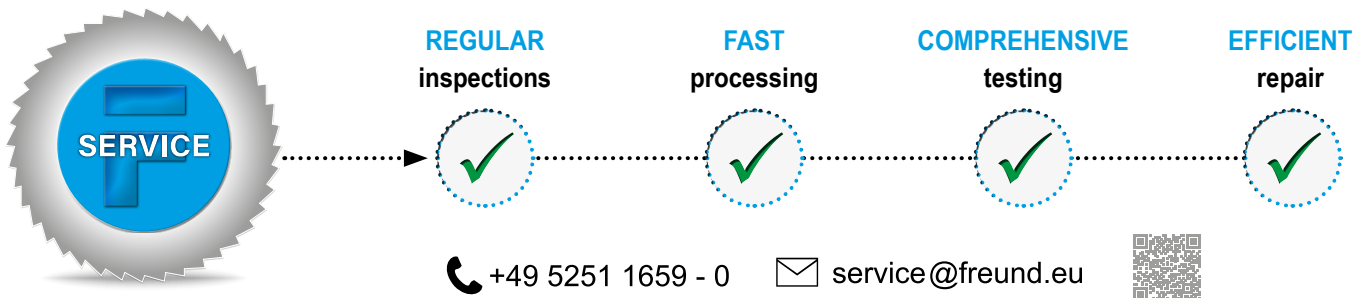


FEEL THE NEW POWER IN PERFECTION



TECHNICAL SUPPORT

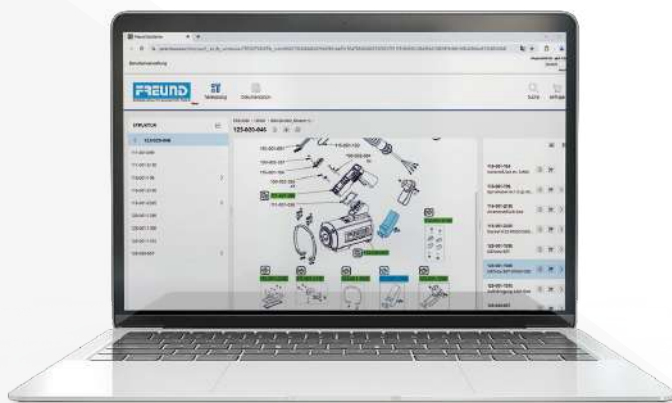
YOUR REQUEST IS OUR MISSION!



Here you will find detailed information about the FREUND technical service.

FREUND ASSISTANCE

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<https://parts.freund.eu>



Here you can find out more about the benefits of FREUND Assistance.

FREUND Maschinenfabrik GmbH & Co. KG

Greifswalder Straße 5
33106 Paderborn, GERMANY

☎ +49 5251 1659 - 0

✉ mail@freund.eu

🌐 www.freund-germany.com



GERMAN QUALITY SLAUGHTER-TOOLS



DE



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NL



PT

