

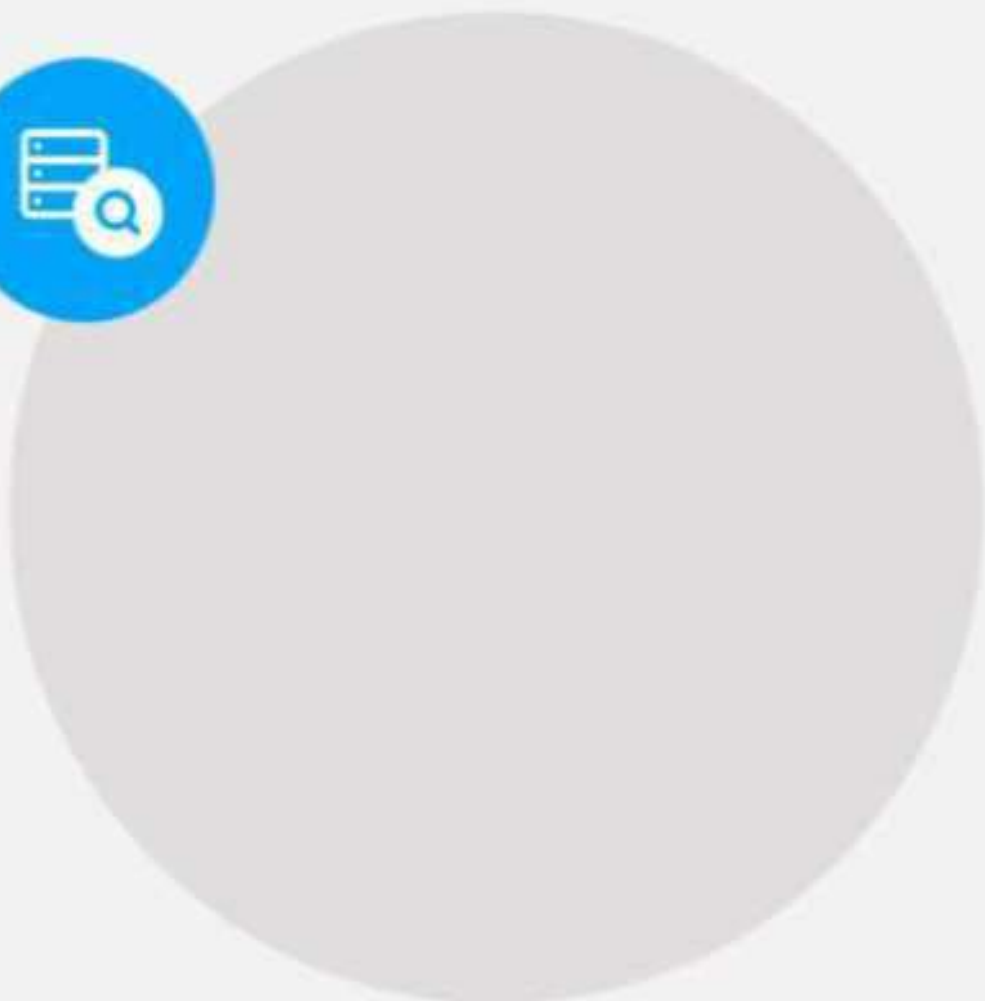


Nuclear Medicine, Radyology, NDT

ADASU & ADARAD



DISCOVER INNOVATIVE RADIATION PROTECTION SOLUTIONS



LEAD PLATE



Product code: GN-KLVH



SUMMARY

- High degree of purity
- Custom size order option
- Supply of products in different thicknesses
- Certificated by TSE

EXPLANATION



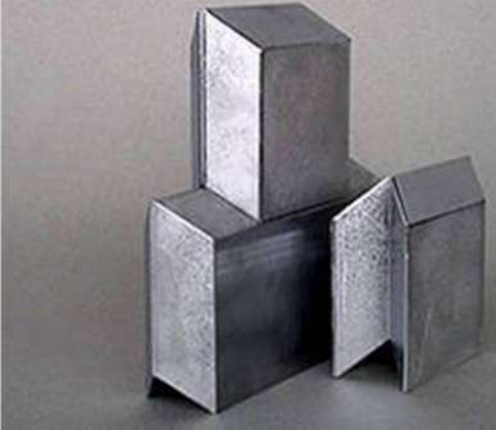
Lead sheets are a kind of material which is strong in terms of physical properties and is generally used to block X-rays or sound waves. Today, radiology centers, conferences, show centers and ship building and so on. sectors continue to use. It has TS EN 12588 quality certificate.

TECHNICAL SPECIFICATIONS

STANDARD LEAD PLATE SIZES		
Most	Size	Thickness
100cm	200cm	1mm
100cm	200cm	1,5mm
100cm	200cm	2mm
100cm	200cm	2,5mm
100cm	200cm	3mm
100cm	100cm	4mm
100cm	100cm	5mm
100cm	100cm	6mm

LEAD BRICK

Product code: GN-KT



NOTES

90 degree interlock system

Custom size order option

Easy installation

Max. Radiation safety

EXPLANATION

Lead brick is a protection product conforming to TS 8030 standard which can be cellularized and used in hot room (nuclear medicine, radioactive and radiopharmaceutical) fields.

TECHNICAL SPECIFICATIONS

STANDARD LEAD BRICK SIZES			
Width x Length	Thickness	Width x Length	Thickness
20cm x 20cm	12mm	20cm x 20cm	30mm
	14mm		36mm
	15mm	10cm x 10cm	4cm
	16mm		5cm
	18mm		6cm
	20mm		7,5cm
	22mm		8cm
	24mm		10cm

LEAD CHEST SHIELDING L-BLOCK (For I-131, Tc99M)

Product code: NT-GZ-I131



NOTES

- Lead glass
- Lead shielded front and bottom protection
- Easy cleaning

EXPLANATION

Thanks to its design, the L-Type Chest shield gives you the best working position. This effectively designed unit is perfect in confined working areas where injectors or vials are temporarily stored or dosed. Additional protection can be provided with side shielding or lead bricks in high activity applications.

TECHNICAL SPECIFICATIONS

26cm width x 30cm depth x 36cm height

2mm, 3mm lead equivalent to glass

6mm lead and base lead shielding

Optional painted 1,5mm DKP sheet body or stainless steel coated body

Additional 2, 4, 6, 8, 10mm lead shielding for optional additional front / bottom protection

LEAD CHEST SHIELDING L-BLOCK (For PET)

Product code: NT-GZ-PET



NOTES

- Lead glass
- Lead armored front and bottom protection
- Easy cleaning

EXPLANATION

The new PET “L” type benchtop shielding is designed to create a protected work area in front of the dosing unit and for safe use of 511 keV isotopes. The front wall and base of the unit are constructed with lead shielding in a steel structure. The 4 kurşun (10 cm) thick glazed window offers maximum protection and unlimited viewing space. In addition, Lead Glass is protected from scratches and scrapings by window glass.

TECHNICAL SPECIFICATIONS

20 "W x 17.88" D x 28.75 "D (51 x 45 x 73 cm)

5cm bulletproof shielded

8 "H x 8" W x 4 "D (20 x 20 x 10 cm) lead glass size

Bullet glass with a density of 5.2 g / cc

Electrostatic painted

RADIOPHARMACEUTICAL WORKING CABINET (fume hood)

Product code: NT-ÇKR02



TECHNICAL SPECIFICATIONS

650 x 1200 mm work area,

Work bench in AISI 304 stainless steel,

Dosing Calibrator Well and Waste Well are available on the work bench,

Needle Waste Container can be assembled to the Waste Well,

Work Bench is designed to use PET Chest Shielding,

Optional 6 mm Tempered Glass can be applied,

Bottom cabinet is designed as double door cabinet and lead shielding can be made in desired thickness,

There are two adjustable shelves in each section,

Fume hood body is electrostatic powder coated,

Workbench and Suction Guide Plate are manufactured by using AISI 304 quality stainless steel material,

Number 300 x 600 LED Lighting is available.

3 Sockets available

Different color alternatives can be applied in Body and Side Claddings

4 industrial fans are available

EXPLANATION

Designed for Nuclear Medicine Departments. It is a robust and reliable construction that you can easily use your equipment such as lead brick, lead glazed chest barrier, dose calibrator. There is a standard cabinet with two doors under the work bench that you can use for your various needs.

INJECTOR CARRYING BOX

Product code: NT-KET



NOTES

Electrostatic DKP sheet or stainless steel

Lock cover

Easy transport

Maximum radiation safety

EXPLANATION

Specially designed for low and high energy radioactive materials.

TECHNICAL SPECIFICATIONS

External Dimensions: 24cm x 12cm x 9cm

Lead Shielding: 2mm, 4mm, 6mm, 10mm

Internal and external surfaces are stainless steel coated or oven painted steel coating.

Top hinged, with lock lid and fixed carrying handle mounted on the body for easy transport.

It can be prepared according to needs and has the ability to measure and shielding.

STEEL FRAME AND STEEL WING LEAD DOOR

Product code: GN-KK



NOTES

Radiation safety
Production in desired dimensions
Strong
Steel case and Steel wing option
Aesthetics
Different color options

EXPLANATION

It is used as in-room doors to radiation in nuclear medicine units and radiology rooms. Complies with IAEA standards. Maximum protection is provided by applying lead shielding in accordance with the regulations.

TECHNICAL SPECIFICATIONS

Body and wing made of ST 37 sheet up to 2mm -4mm according to lead thickness
Wood-looking laminate coating on steel body
The room can be integrated with lead shielding.
150 kg/adet capacity shaft hinge total 3 pcs.=450 kg

RADIOACTIVE WASTE CONTAINER (Large)

Product code: NT-PPAK 45*45*80



NOTES

High radioactive protection

Door opening with hydraulic pedal

Electrostatic paint on DKP sheet

Easy to transport

EXPLANATION

Lead thickness is optional. Hydraulic pedal door opening system. It has 2 swivel and 2 fixed castors. External protection and internal protection are manufactured as 304 stainless steel or DKP. Desired different sizes can be designed and produced.

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS Dimensions:

45cm x 45cm Height: 80cm

2 fixed, 2 swivel casters available

Top hinge cover

Lead Shielding: 2 mm, 4 mm, 6 mm, 10 mm

STEEL FRAME AND STEEL WING or AUTOMATIC SLIDING CYLOTRON DOOR

Product code: GN-CD



NOTES

Radiation safety
Production in desired dimensions
Strong
Steel case and Steel wing option
Aesthetics
Different color options

EXPLANATION

It is used as in-room doors to Used in irradiation plants. Complies with IAEA standards. Maximum protection is provided by applying lead shielding, Polyethylene and steel in accordance with the regulations.

TECHNICAL SPECIFICATIONS

2.5mm steel + 5mm lead + 60mm polyethylene+2.5mm steel is used

Wood-looking MDF laminate coating on steel body or

60mm lead +100mm polyethylene automatic sliding door



Lead Shielded Radiopharmaceutical Dry Heater (RADHEATER)

Product Code: ADARAD RADHEATER

Explanation



- 4mm lead shielding built in all sides
- Digital temperature control and countdown timer
- Digital thermostat temperature display
- 4 different heating slots for all used kits
- Adaptable to other bottle sizes at customer's request
- Temperature Range - 41°-392°F (5°-200°C)
- Resolution - 33.8°F (1°C)
- Accuracy - +5%
- Mains Input - 230V (-15%; +10%) 50 / 60Hz
- Case – Electrostatic powder painted on steel
- Box contents: ADAHEATER power cord, user manual

Technical Specifications

Dimensions: 260mm x 127mm Height: 120mm

Product color ; Black / White electrostatic painted

4 vial slots

Lead shielding: 4 mm

TUNGSTEN INJECTOR SHIELDING

Product Code : NT-TEZ



NOTES

7mm thickness tungsten shielding

Lead glass display

511 KeV energy protection safety

Max. Radiation safety

EXPLANATION

It is designed to reduce the amount of radiation dose received by finger and palm from health personnel in charge of injections in nuclear medicine applications. Lead glass injector shielding are available in different types of injector sizes.

TECHNICAL SPECIFICATIONS

Product Code	Injector Size	Lenght	Thickness	Weight
ENJ01	1cc	75mm	9mm	442gr
ENJ02	2cc	52mm	12mm	332gr
ENJ03	2,5cc	58mm	12mm	370gr
ENJ04	3cc	67mm	12mm	430gr
ENJ05	5cc	65mm	15mm	530gr
ENJ06	10cc	83mm	20mm	700gr

RADIOPHARMACEUTICAL WORKING CABINET (Fume hood)

Product code: NT-ÇKR



NOTES

Electrostatic DKP sheet or Stainless steel

Lock cover

Easy Assembly

Maximum radiation safety

EXPLANATION

Designed for Nuclear Medicine Departments. It is a robust and reliable construction that you can easily use your equipment such as lead brick, lead glass chest barrier, dose calibrator. There is a standard cabinet with two doors under the work bench that you can use for your various needs.

TECHNICAL SPECIFICATIONS

Lead Shielding: 2mm, 4mm, 6mm, 10mm

Dimensions: 115cm x 65cm x 200cm

3 mm 304 stainless steel inner worktop surface, Working voltage: 220V ± AC 50Hz

2200 rev / min high suction engine with chimney connection for evacuation of cabin air,

Lighting lamp and 2 electrical outlets in the cab.

LEAD Apron (Overcoat Type)

Product code: GN-KOPT



NOTES

Suitable for long-term use

Flexible and lightweight

Increased protection

EXPLANATION

Radiation protective lead apron, made of vinyl and lead. The distribution of the weight on the shoulders allows long-term work without fatigue. Thanks to its flexible structure that fits body movements, it provides comfort in use. Front closes. It is used in radiology and nuclear medicine units by technicians or doctors for protection.

TECHNICAL SPECIFICATIONS

Front 0.5mm lead equivalent protection

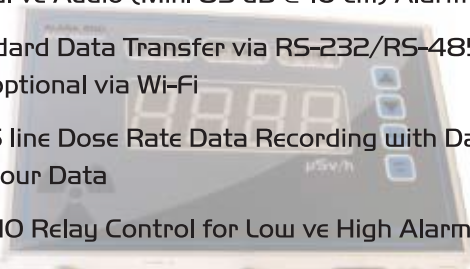
0.3mm bullet equivalent protection at the rear

S, M and L size options

ARM Series

Radiation Area Monitor

- 2 Years Global Warranty
- 4 Digit 38 mm Large LED Display
- Radiation Dose Rate Unit can be Ordered as R/h, Sv/h or CPM Dose Rate Unit
- Built-in Long Life Battery
- Easy Setup and User Friendly Menu
- Setable Calibration Factor on Menu
- Adjustable Low and High Alarm
- Visual ve Audio (Min. 85 dB @ 10 cm) Alarm
- Standard Data Transfer via RS-232/RS-485, USB and optional via Wi-Fi
- 4096 line Dose Rate Data Recording with Date and Hour Data
- NC/NO Relay Control for Low ve High Alarm
- Optional LDS Wide Screen, RLY Relay Control and ALM Alarm Module
- Data management with free ARC Software



ARM Series, Area Monitors are presented to the users with 6 different Geiger Muller (GM) tubes with internal and external probes in order to determine the radiation dose rate in the radiation areas accurately and quickly.

ARM Series Radiation Area Monitor	ARM-1		ARM-3	ARM-4	ARM-5	ARM-6
	ARM-1P	ARM-2P	ARM-3P	ARM-4P	ARM-5P	ARM-6P
GM Tube	J302 or equivalent	LND712 ZP1401 or equivalent	LND713 ZP1320 or equivalent	LND714 ZP1310 or equivalent	LND7139 or equivalent	LND716 ZP1300 or equivalent
Measur. Range	0-5 mSv/h	0-2 mSv/h	0-20 mSv/h	0-200 mSv/h	0-20 mSv/h	0-2 Sv/h
GM Tube Specs.	Gamma, X-Ray and Beta Radiation Measurement for Low/Medium Dose Rate	Alpha, Beta and Sensitive Gamma, X-Ray Radiation Measurement	Gamma, X-Ray and Beta Radiation Measurement for Medium Dose Rate	Gamma, X-Ray and Beta Radiation Measurement for High Dose Rate	Gamma, X-Ray and Beta Radiation Measurement with Energy Compensated GM Tube	Gamma, X-Ray and Beta Radiation Measurement for Very High Dose Rate

SPECIFICATIONS

Display: 4 digit 38 mm Wide LED Display

Case Material: Aluminum

Unit: R/hr, Sv/h or CPM

Response: Each 2 seconds

Low Alarm: Audio and Yellow Visual Alert

High Alarm: Audio and Red Visual Alert

Linearity: Maximum $\pm 15\%$

Calibration: Setable on Menu

Dead Time: 5-100 μ Sn

Audio Alarm: 85 dB @ 10 cm

Data Transfer: via RS-232/RS-485 and USB

Power: 5 VDC (2A)

Battery Life: 24 saat

Working Temp: - 20° to 50°C.

Dimensions: 250 x 156 x 44 mm (Gen.xYük.xDer.)

Weight: 1.1 kg

MANUFACTURER

ALARA Radiation Safety Consulting Ltd.

Bagdat Cad. Trion Plaza 505/10

Maltepe/Istanbul/TURKEY

Phone: +90 216 482 00 36 Fax: +90 216 482 87 38

www.alarargd.com

ADA Series Ionizing Radiation Detector

- 2 Years Global Warranty
- Color TFT Screen
- Dose Rate and Total Dose Monitoring on a Single Main Screen
- Selectable Sv/h, R/h, CPS Radiation Units
- USB Chargeable Long Life Battery
- English, German, France and Turkish Menu Language
- Audio, Vibration and Visual Dose Rate and Total Dose Alarm
- Shock Resistant Silicone Case
- Settable Calibration Factor on Menu
- 4096 Row, Total Hp(10) Dose and Dose Rate Recording with Time and Date Data
- Data management with free ARC Software



ADA Series Radiation Detectors have been presented to the users with 6 different Geiger Muller (GM) tubes with internal and external probes in order to determine the ambient radiation dose rate accurately and quickly.

ADA Series Ionizing Radiation Detector	ADA-1	ADA-2	ADA-3	ADA-4	ADA-5	ADA-6
	ADA-1P	ADA-2P	ADA-3P	ADA-4P	ADA-5P	ADA-6P
GM Tube	J302 or equivalent	LND712 ZP1401 or equivalent	LND713 ZP1320 or equivalent	LND714 ZP1310 or equivalent	LND7139 or equivalent	LND716 ZP1300 or equivalent
Measur. Range	0-5 mSv/h	0-2 mSv/h	0-20 mSv/h	0-200 mSv/h	0-20 mSv/h	0-2 Sv/h
GM Tube Specs.	Gamma, X-Ray and Beta Radiation Measurement for Low/Medium Dose Rate	Alpha, Beta and Sensitive Gamma, X-Ray Radiation Measurement	Gamma, X-Ray and Beta Radiation Measurement for Medium Dose Rate	Gamma, X-Ray and Beta Radiation Measurement for High Dose Rate	Gamma, X-Ray and Beta Radiation Measurement with Energy Compensated GM Tube	Gamma, X-Ray and Beta Radiation Measurement for Very High Dose Rate

SPECIFICATIONS

Display: 128 x 64 Colour TFT Display
Case Material: ABS Plastic in Silicone Case
Dose Unit: R/hr, Sv/h or CPM
Response: Each 2 seconds
Alarm: Setable Audio, Visual and Vibration
Linearity: Maximum $\pm 15\%$
Calibration: Setable on Menu
Dead Time: 5-100 μ Sn
Audio Alarm: 85 dB @ 10 cm
Data Transfer: Via USB
Working Temp: - 20° to 50°C.
Dimensions: 84 mm x 154 mm x 30 mm
Weight: 220 gr
Probe Dims.: 180 mm x Ø 22 mm
Probe Weight: 120 gr

MANUFACTURER

ALARA Radation Safety Consulting Ltd.
 Bagdat Cad. Trion Plaza 505/10
 Maltepe/Istanbul/TURKEY

Phone: +90 216 482 00 36 Fax: +90 216 482 87 38
www.alarargd.com

LEAD GLASS



NOTES

Maximum radiation safety

Cutting to standard sizes

EXPLANATION

It is used in observation and insulation glasses for X-ray and CT rooms, medical diagnostic screens, protective windows in the laboratory, protective glasses lenses, airport security screens. Maximum protection with lead coating of glass sills.

TECHNICAL SPECIFICATIONS

Due to its high density, it has high radiation absorption capacity with a thin thickness.

It provides protection against radiation emitted from equipment in the range of 100-300kV.

Provides optimum protection due to high barium and lead content.

Transparent (clear) image, suitable for lamination, large dimensions, ready to use products up to 2000mm x 1000mm

Density is at least 5.05 g / cm³ and thickness is between 8 and 9 mm.

STANDARD LEAD COMPONENT GLASS SIZES

20 cm x 20 cm
35 cm x 35 cm
40 cm x 50 cm
80 cm x 100 cm
100 cm x 120 cm
100 cm x 150 cm
100 cm x 200 cm

LEAD GLOVES

Product code: GN-KELD



NOTES

Comfortable use

Touch sensitivity

Reducing radiation effect



EXPLANATION

The gloves that reduce the radiation effect are special latex gloves which are designed to be used in special works. These gloves are used to reduce the intensity of the radiation beam reflected from the polymer X-ray. Due to its slim structure, it reduces finger fatigue by increasing the tactile sensitivity of fingers while working with sensitive instruments.

TECHNICAL SPECIFICATIONS

0.25mm lead equivalent protection

Dimensions		
6,5	7,0	7,5
8,0	8,5	9,0

LEAD GONATE PROTECTOR

Product code: GN-KGONK



NOTES

Protecting ovary and gonate

Adjustable belt

Velcro tapes

EXPLANATION

Specifically designed to protect the genital area.
Velcro-Velcro straps can be easily connected from the waist.

TECHNICAL SPECIFICATIONS

0.5-1.0 mm lead equivalent protection

Adjustable belt

S, M and L size options

LEAD PARAVANA

Product code: GN-MOBİL PRV.



NOTES

- Radiation safety
- Production in desired dimensions
- Different color options

EXPLANATION

Nuclear medicine units and radiology chambers are used to create radiation within the chamber. Complies with IAEA standards. Maximum protection is provided by using lead shielding in accordance with the regulations..

TECHNICAL SPECIFICATIONS

Production with lead thicknesses between 2mm-10mm

Sandwich panels are applied as a result of placing lead plates between two MDF's.

The lead screen is portable. The wheels are movable with ½ braked and ½ mobility without brake.

Available with or without glass.

LEAD THYROID PROTECTOR

Product code:GN-KTROK



NOTES

Easy to use

Plug-in collar type

Different color options

EXPLANATION

The Thyroid Protector is specially designed for the protection of thyroid glands. It provides protection to the thyroid which is one of the most important points in the body. It is a plug-and-take collar type, which allows the user to insert and remove. Different color options are available.

TECHNICAL SPECIFICATIONS

0.5 mm lead equivalent protection

Length measurements: 57.1 cm and 64.8 cm

RADIOACTIVE WASTE CONTAINER (small)

Product code: NT-PPAK 25*25*40



NOTES

High radioactive protection

Door opening with hydraulic pedal

DKP sheet coating

Easy to transport

EXPLANATION

Lead thickness is optional. Hydraulic pedal door opening system. It has 2 swivel and 2 fixed castors. External protection and internal protection are manufactured as 304 stainless steel or DKP. Desired different sizes can be designed and produced.

TECHNICAL SPECIFICATIONS

Dimensions: 25cm x 25cm Height: 40cm

2 fixed, 2 swivel casters available

Top hinge cover

Lead Shielding: 2 mm, 4 mm, 6 mm, 10 mm

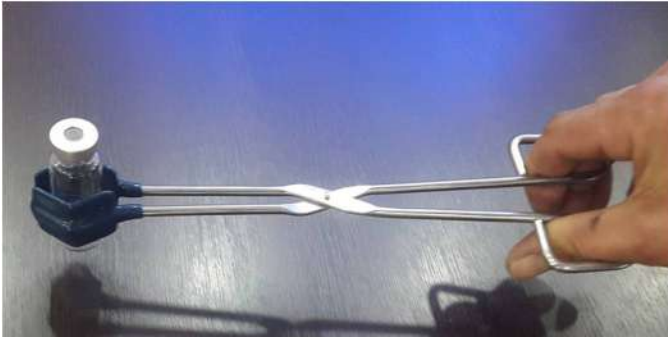
VIAL HANDLE

Product code: NT-VİAL TUTUCU



NOTES

- Easy to use
- Different size options
- Ene Jaw types according to need



EXPLANATION

Helps protect against the harmful effects of radiation. Manufactured to hold vials of FDG or radiopharmaceutical.

TECHNICAL SPECIFICATIONS

25, 30 and 40 cm length options

Jaw and jawless type

Stainless Steel Material