SIUS

Electronic scoring systems

HS10 HYBRIDSCORE®

ISSF approval phase 1

Basic configuration of the target for airguns and small bore rifles

Installation overview and components

Cost-optimized configuration
from a stand-alone installation to a system for small competitions...

The HYBRIDSCORE target meets all requirements to assemble an optimal low-cost configuration for all needs. From the extension of a single lane configuration to multiple lanes, or even to a complete competition outfit with central control, data evaluation and display on widescreen TV or projection screens – anything is possible.
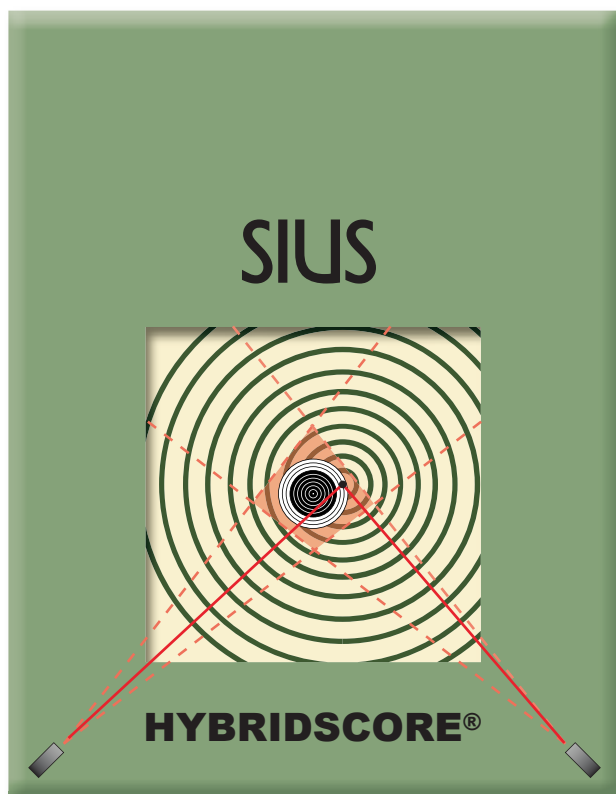
How it works: When the projectile passes through the inner target plane, it is detected completely contact- and wear-free by two independent HD-infrared beams. This new technology allows for projectile detection with the outstanding accuracy of a few hundredths of a millimeter. In the outer zone of the target plane (mainly the white area of the airpistol target) the projectile is located by five independent sound transducers. The combination of the two detection methods gives the target an outstanding cost/performance ratio.

Since the measurement is taken at the horizontal target plane there is no risk of parallax errors when shooting at an angle on the target. A target illumination LED is already integrated. A suitable bullet trap is available as an option. The completely sealed electronics enables the use of the target, not only for air rifle and pistol, but also for small bore rifle outdoor. HYBRIDSCORE is compatible with all other SIUS-LON-systems. The current control-unit CU 941 includes the complete software for all disciplines, distances and targets from 10 up to 300 meters. Existing 10-meters or 50-meters SIUS-LON-systems can be easily converted by only changing the target.

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like this...

Stand-alone configuration

Target HS10 with digital display; no control unit / monitor necessary (only for 10m distance).

...like this

Standard configuration

Target HS10 with / without digital display and basic equipment SA941.
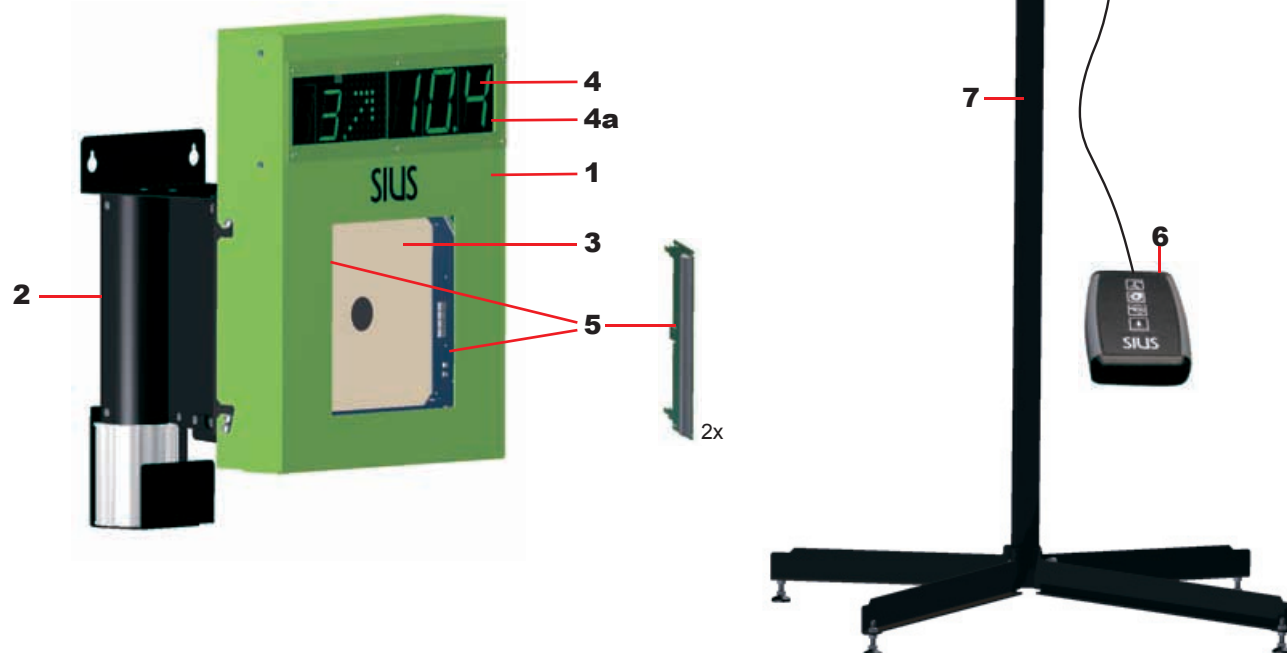
...or like that

Option

Target HS10 with/without digital display and Windows based PC or Laptop (Windows 7 / 8 / 10), USB-LON-Dongle and SIUSLANE software.

> see brochure SIUSLANE

C10

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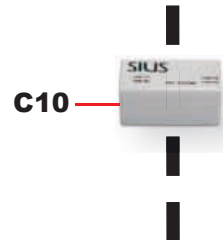
Air rifle / air pistol installation 10m

Stand-alone configuration HS10

The stand-alone configuration for the HS10 target allows you to setup a single lane installation at minimum costs. The power supply feeds the target – no additional cabling is necessary. The integrated digital display shows shot number, shot direction and shot value to the shooter and the spectators. This enables the use of the target without any any control unit / monitor. Mobile or fixed installation is possible.
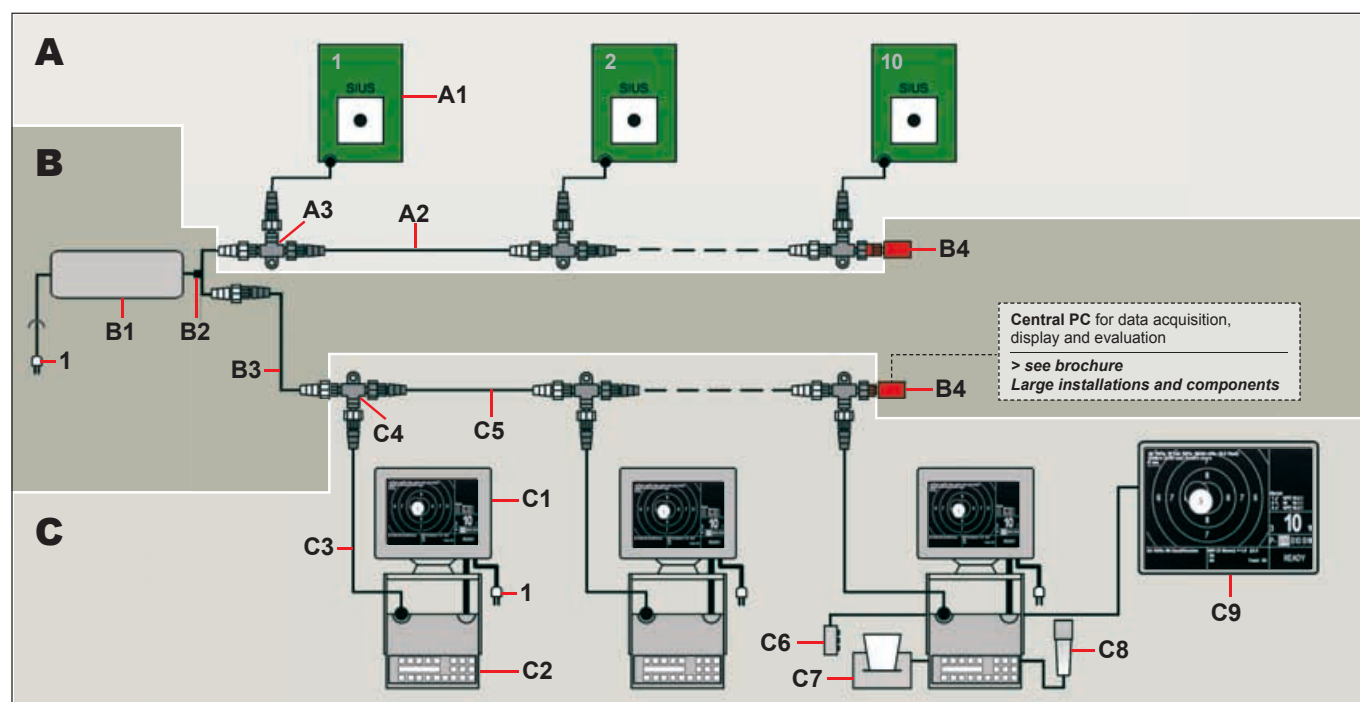
Pos.	Article no.	Description
	Target HS10	
1	HS10V0	Complete target incl. reinforced front frame for airguns, incl. LED illumination, with integrated digital display and power supply
		Size (WxHxD): 392x310x75mm, weight: 4.0 kg (without accessory), color: RAL6021 pale green
		Consumption: 20,4W, detection surface: 170x170mm, optical measurement range Ø 60mm.
	Optional accessory and spare parts	
2	HS10AN003	Target holder incl. bullet trap for airguns.
		Size (WxHxD): 388x305x240mm, weight: 3.3 kg (without target).
3	LS10A043	ISSF air rifle front mask, bulls eye Ø 30.5mm.
	LS10A044	ISSF air pistol front mask, bulls eye Ø 59.5mm.
4	HS10B005	Digital display (display incl. print) for HS10V0.
		Shows shot number, shot direction and shot value.
		Size (WxHxD): 303x120x30mm, weight: 0.35 kg
4a	HS10A019	Protective glass small, pc, 303x109x5mm
	HS10A047	Protective glass large, pc, 402x320x5mm
5	HS10B003	LED target illumination for HS10, 1 row module
		Size (WxHxD): 168x35x8mm, weight: 0.025kg
6	HS10D007	Remote control incl. cable (15m).
		Size (WxHxD): 80x115x25mm, weight: 0.085kg
7	SHS08	Pedestal for LS10 and HS10, variable vertical adjustment > 3 positions.
		Permits free set-up of the target. The target holder HS10AN003 is needed for mounting the target on the pedestal.
		Size (WxHxD): 775x1550x810mm, weight: 7,5kg (without target), center of target: 50cm/80cm/140cm.
	HS10AN009	Case protection transparent, polycarbonate 3mm (protects the target case from missed shots) → picture on page 6
	Reference	Country-specific power supply cable > page 11

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Air rifle / air pistol installation 10m and small bore rifle installation 50m

Installation overview HS10

The installation is divided into 3 article groups: article group target line (A), article group for cables and power supply (B) and article group firing line (C). The article group for cables and power supply (B) is designed to support up to 10 lanes. In addition, power supply cables are required (connection cable: device to country specific plug) (Pos. 1).
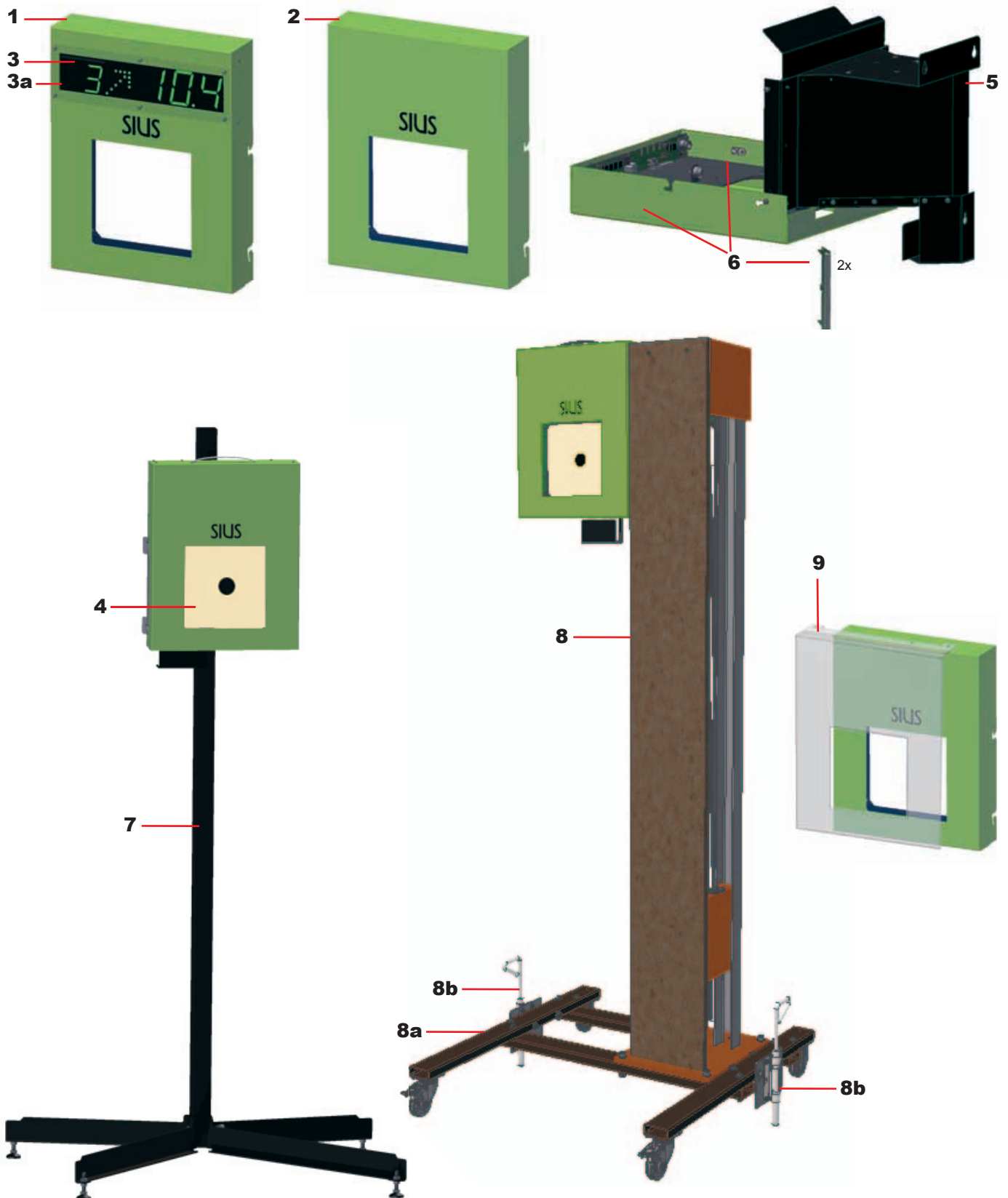
Each lane is equipped with its own control unit / monitor, which enables a individual control of the device by every single shooter. The installation can be extended to a complete competition outfit (central PC for data acquisition, display and evaluation, wide screen TV, beamer/projection screens).

Pos.	Article no.	Pcs.	Description
A	**Article group target line**		
A1	HS10V1	1	Target 10m resp. 50m, incl. LED Illumination, without integrated digital display
A2	KL001-2.0	1	Cable LTW male–fem 2.0m
A3	KL001-T	1	T-Adapter fem/fem/male LTW IP67
B	**Article group cables and power supply**		
B1	NT211V0	1	Power supply for 10 lines 225W with LTW 230V
B2	KL013	1	Y power cable for NT211
B3	KL001-20.0	1	Cable LTW male–fem 20.0m (for 10m installation)
B3	KL001-65.0	1	Cable LTW male–fem 65.0m (for 50m installation)
B4	KL001-R	2	Terminating resistor, red, male LTW IP67
C	**Article group firing line**		
C1	M941	1	Monitor TFT 10.4" (26cm)
C2	CU941-CLUB	1	Control unit, for clubs, schools etc. (ISSF approval phase 1 and 2)
C3	KL003-2.0	1	Cable LTW male–RJ45 2.0m
C4	KL001-T	1	T-Adapter fem/fem/male LTW IP67
C5	KL001-2.0	1	Cable LTW male–fem 2.0m
C6	RC941	1	Remote control RC941 (option)
C7	D112-N	1	Thermal printer incl. power supply (option)
C8	AAG133	1	Barcode scanner (option)
C9			Monitor for spectators incl. connection cable (on request)
C10	SNI210-LANE	1	USB-LON-Dongle (yellow), option with PC/Laptop > see page 3
	SIL	1	Evaluation and display program SIUSLANE
1	Reference		Country-specific power supply cable > page 11

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HS10
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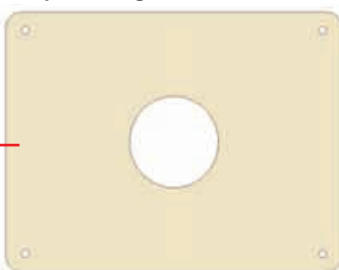
Target for air rifles / air pistols, HS10

The target HS10 is designed for all airguns and small bore rifles (see page 8). The combination of the high definition infrared detection with acoustic sound transducers guarantees highest accuracy.

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HS10 HYBRIDSCORE®

Air rifle target front mask 10m

Air pistol target front mask 10m

Witness paper

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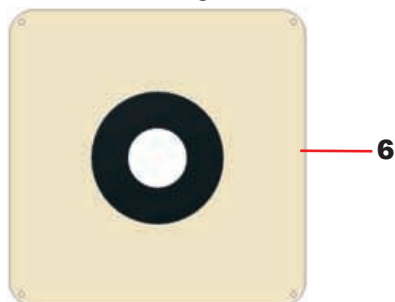| Pos.	Article no.	Description
	Target HS10	
1	HS10V0	Complete target incl. reinforced front frame for airguns, incl. LED illumination, with integrated digital display and power supply
		Size (WxHxD): 310x392x75mm, weight: 4.0 kg (without accessory), color: RAL6021 pale green
		Consumption: 20,4W, detection surface: 170x170mm, optical measurement range Ø 60mm.
2	HS10V1	Complete target incl. reinforced front frame for airguns, incl. LED illumination, without integrated digital display
		Size (WxHxD): 310x392x75mm, weight: 3.6 kg (without accessory), color: RAL6021 pale green
		Consumption: 14,4W, detection surface: 170x170mm, optical measurement range Ø 60mm.
	Optional accessory and spare parts	
3	HS10B005	Digital display (display incl. print) for HS10V0.
		Shows shot number, shot direction and shot value.
		Size (WxHxD): 303x120x30mm, weight: 0.35 kg
	AAG200	Power supply for digital display.
3a	HS10A019	Protective glass small, pc, 303x109x5mm
	HS10A047	Protective glass large, pc, 402x320x5mm
4	LS10A043	ISSF air rifle target front mask, bulls eye Ø 30.5mm.
	LS10A044	ISSF air pistol target front mask, bulls eye Ø 59.5mm.
5	HS10AN003	Target holder incl. bullet trap for airguns
		Size (WxHxD): 388x305x240mm, weight: 3.3 kg (without target).
6	HS10B003	LED target illumination for HS10, 1 row module
		Size (WxHxD): 168x35x8mm, weight: 0.025kg,
7	SHS08	Pedestal for HS10 and LS10, variable vertical adjustment > 3 positions.
		Permits free set-up of the target. The target holder HS10AN003 is needed for mounting the target on the pedestal.
		Size (WxHxD): 775x1550x810mm, weight: 7,5kg (without target), center of target: 50cm/80cm/140cm.
8	ATE10G2V1	Automated target elevator for HS10, 3 positions.
		Integrated in LON-network, controlled by control unit / central PC.
		Mobile or fixed installation possible.
		Size (WxHxD): 330x1610x200mm, weight: 13kg (without target).
		Consumption: 20W à 24V.
8a	ATE10AN001	Caster for target elevator (option)
8b	ATE10AN002	Floor fixation, temporarily, for caster (option), set with 2 pieces
9	HS10AN009	Case protection transparent, polycarbonate 3mm (protects the target case from missed shots)
10	AZF046	Witness paper for replacement (option) > manual shot control (to be inserted into the provided slot in the bullet trap)
	Reference	Country-specific power supply cable > page 11

Target for small bore rifles, HS10

A reinforced front frame for small bore rifle and an enhanced bullet trap enables the use of the HS10 target for 50m small bore rifles as well.

Small bore rifle target front mask 50m

— **6**

Pos.	Article no.	Description
		Target HS10
1	HS10V1	Complete target incl. reinforced front frame for airguns, incl. LED illumination (2xHS10B003), without integrated digital display
		Size (WxHxD): 310x392x75mm, weight: 3.6 kg (without accessory), color: RAL6021 pale green
		Consumption: 14,4W, detection surface: 170x170mm, optical measurement range Ø 60mm.
		Optional accessory and spare parts
2	HS10AN001	Target holder for mounting on mounting plate LS10AN008.
		It serves also as backboard of the target and protects it (incl. rubber sheet HS10A042).
		Size (WxHxD): 308x436x121mm, weight: 1.8 kg (without target).
2a	LS10A042	Rubber sheet used for sun protection at the back and blocking slivers from the bullet trap.
3	HS10A026	Rubber membrane in front (used for acoustic measurement)
4	HS10AN007	Reinforced front frame for small bore rifles.
		Size (WxHxD): 470x557x6mm, weight: 11.6 kg (without target), color: RAL1015 light ivory
5	LS10AN008	Mounting plate – needed for mounting the target holder (2) and the reinforced target front frame (3).
		Size (WxHxD): 475x70x190mm, weight: 4.4kg (without target).
6	HS10A052	ISSF small bore rifle target front mask 50m, bulls eye Ø 112.4mm.
7	LS10AN010	Weather protection box
		Closable, guarantees highest protection from weather influences.
		Size (WxHxD): 650x635x382mm, weight: 16.5kg (without target).
8	ATE10G2V2	Automated target elevator for HS10, 3 positions, incl. reinforced front frame for small bore rifles ATE10D015.
		Integrated in LON-network, controlled by control unit / central PC.
		Mobile or fixed installation possible.
		Size (WxHxD): 330x1610x200mm, weight: 13kg (without target).
		Consumption: 20W à 24V.
8a	ATE10AN001	Caster for target elevator (option)
8b	ATE10AN002	Floor fixation, temporarily, for caster (option), set with 2 pieces
9	ATE10D015	Reinforced front frame for small bore rifles (used with electric target lifter).
		Size (WxHxD): 468x330x97mm, weight: 2,6kg, color: RAL6021 pale green
10	HS10AN008	Bullet catcher connection plate (option) – connection between target holder HS10AN001 and bullet catcher HS10AN003
	Reference	Country-specific power supply cable > page 11

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Country specific power supply cables

The connection between device and socket is achieved with the use of country specific power supply cables. This is provided with the device coupling on one side and with a country specific plug on the other side.
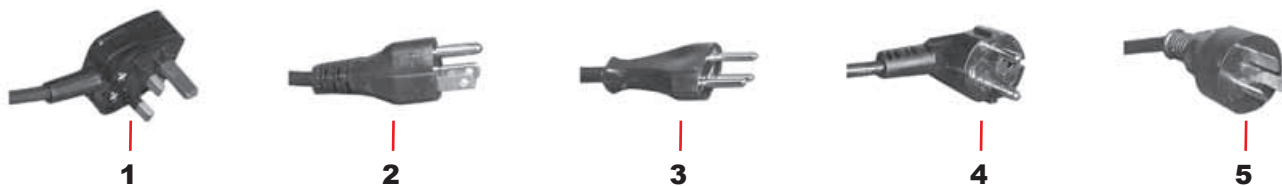
Pos.	Artikel-Nr.	Bezeichnung
1	AA101	Power supply cable 2m GB
2	AA102	Power supply cable 2m USA
3	AA109	Power supply cable 2m CH
4	AA110	Power supply cable 2m EU
5	AA126	Power supply cable 2m AUS

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