



ASC3 - FALSE START DETECTION SYSTEM

Start monitoring systems are used for athletics events, especially during major competitions.

ASC3 (Automatic Start Control) is suitable for all levels of athletics, and is compatible with timing installations manufactured by Swiss Timing. It enables up to 10 lanes to be monitored simultaneously.

The starting block sensors take in account the physiological response time, i.e. the time elapsed between the starting signal and the thrust of the athlete's foot against the starting block. The system memorizes and prints the reaction times occurring in the interval of 0.3 second before and 0.7 seconds after the starting gunshot. Each athlete's force curve is displayed on the computer screen and can be zoomed for deeper analysis.

In the event of a false start, an acoustic signal is transmitted by the central station to the starter's headphones and to the starting block loudspeakers.

Online data transfer is made possible via a RS422 serial line to a data handling unit and camera SCAN'O'VISION.

The instructions given by the starter are amplified and easily understandable by the athletes in their individual loudspeakers. The volume of the voice calls and the volume of the false start warning sound can be adjusted individually.

With its handle and wheels, ASC3 is easily movable between the different start positions.

TOP FEATURES

- Suitable for all competitions' level
- Monitore up to 10 lanes simultaneous
- Accoustic signal in case of false start
- Force curve display for each lane
- Electronic starting system - E-gun - included



ASC3 SET CONTENTS

- Cabinet: aluminium construction, braked carriage, rain-proof casing
- ASC3 - Quantum timing unit
- Interface for starting blocks sensors & loudspeakers
- 24 V, 17Ah battery
- E-gun with 7m cable (3481.704)
- Starter headset with microphone
- One internal loudspeaker
- Printer

OPTIONS

- Tablet compatible ASC3 Athletics false start (3397.970)
- Cable extension for E-gun (20m) (1929.020)



Waterproof tablet compatible ASC3

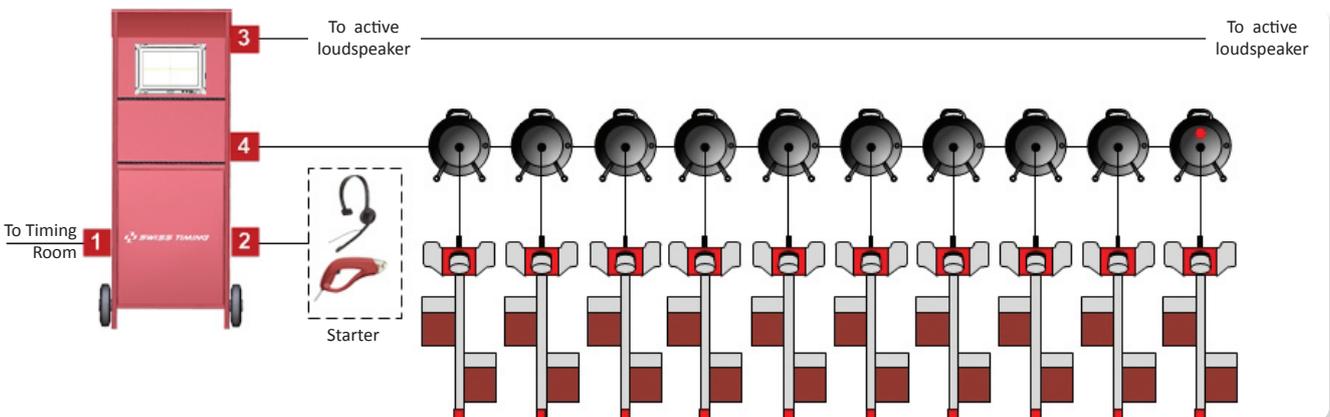
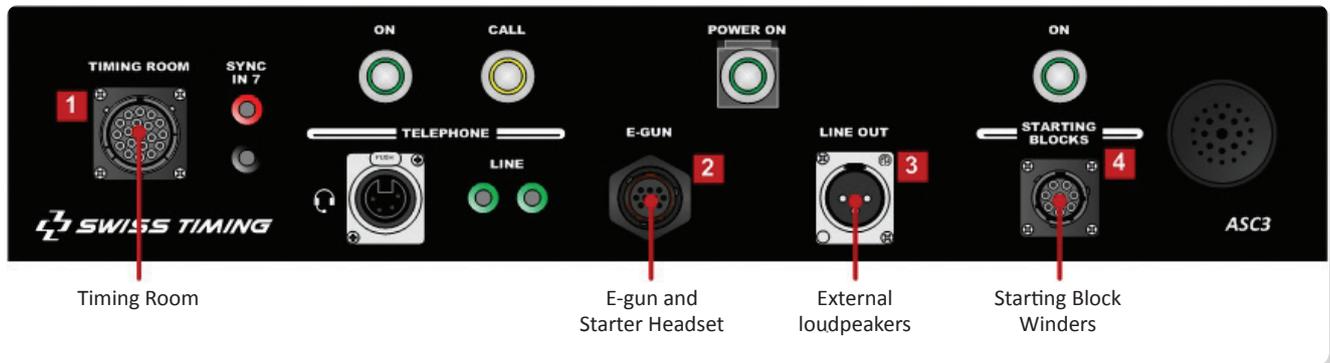
ASC3 CONTROL CABINET SPECIFICATIONS

Art. number	3457.900 (without laptop)
Dimensions	660 x 700 x 1400 mm
Weight	69 kg
Power supply	115-230 VAC
Power consumption	50 VA (incl. starting blocks)
Battery autonomy	6 hours @ 20°C
Audio amplifier power	120 W RMS
Internal loudspeaker	110 db @ 1m
Timing precision	1 ms
Data connection	RS422 to timing room
Operating temperature	0 to +50°C
Storage temperature	-10°C to +50°C
Protection	IP43
Certifications	CE and RoHS compliant



E-gun and starter headset with microphone

TYPICAL WIRING CONFIGURATION



STARTING BLOCK FEATURES

These sturdy starting blocks, made of aluminium and stainless steel, feature an extra large non-slip adjustable footrest for optimal stability, fully assisting the athlete's performance. The loudspeaker transmits the starter's instructions, the gunshot, and the possible false start signal. The distance between the feet, as well as the foot's starting angle can be freely adjusted.



Footrest angle can be adjusted by 4 positions between 55° and 73°. Footrest can be moved horizontally within 16 positions spaced of 35.5 mm giving a maximum distance of 502.5 mm between front and back feet.

STARTING BLOCKS SPECIFICATIONS

3457.700	Track & field starting block with loudspeaker
Dimensions (LxWxH)	990 x 410 x 220 to 260 mm (depend to the position of the footrest)
Weight	13 kg
Acoustic signals	Flase start: 104 dB @ 1m Gun shot: 114 dB @ 1m 1x Tuchel 7pMT (for thrust sensors and loudspeaker)
Operating temperature	0 to +50°C
Storage temperature	-10°C to +60°C
Protection	IP44
Certifications	CE and RoHS compliant IAAF Certified Product

AVAILABLE STARTING BLOCKS SETS

The ASC3 system can handle up to 10 starting blocks, to be ordered as sets.

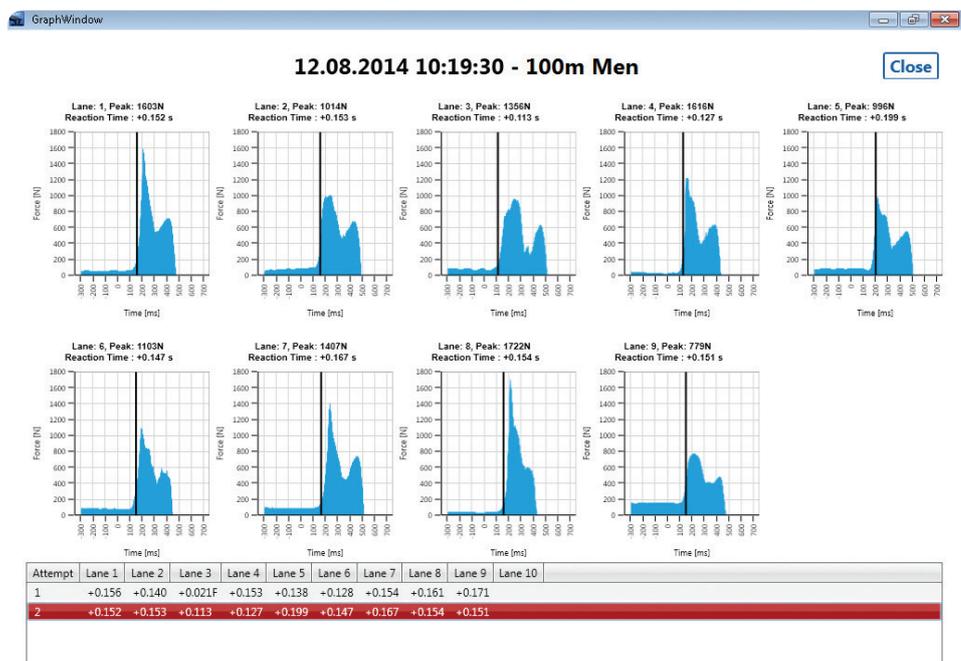
The sets include 6, 8 or 10 winders (3457.620).

3457.906	Track & Field starting blocks set of 6
3457.908	Track & Field starting blocks set of 8
3457.910	Track & Field starting blocks set of 10

RACK TIMER ASC3 QUANTUM FEATURES

Thanks to the new sensor technology, the athletes' starts can be analysed, and thus also serve as an ideal training tool.

The athlete's force [N] is measured before and after the gunshot (at 0 sec) in order to detect a false start. The black line shows the reaction time of the athlete. At the first attempt, the athlete in lane 3 performed a false start. The illustrated graphs represent the second attempt.



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