

### 100V Screw On Horn Drivers & Horn Flare

Order codes:

**CRSP52**

**SHD 35 - 35W 100V Screw On Horn Driver**

**CRSP53**

**SHD 60 - 60W 100V Screw On Horn Driver**

**CRSP55**

**HF 20 - 20" Aluminium Horn Flare**

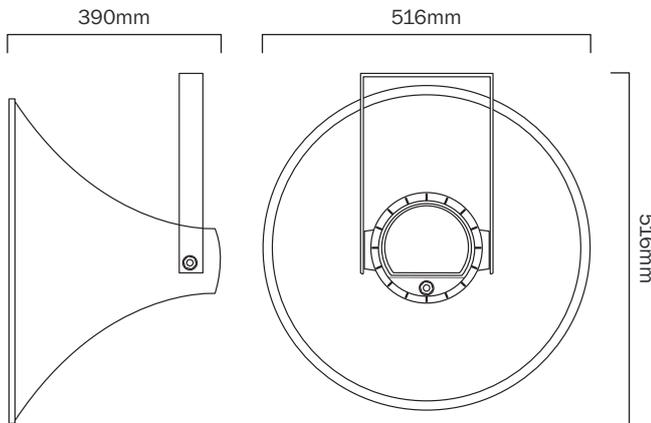


### HF 20 - 20" Aluminium Horn Flare

Constructed from rugged powder coated, spun aluminium this public address horn flare is suitable for outdoor paging across show grounds and large spaces. Designed to accept most screw-on drivers, the flare has 1 3/8" female threads and is supplied with an adjustable mounting bracket.

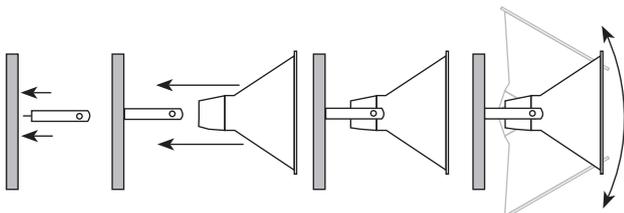
Specifications	HF 20
Dimensions	390 x 516mmØ
Weight	1.9kg
Order code	CRSP55

In the box: **1 x horn flare & 1 x user manual**



### Installation

The horn speaker is designed to be installed onto a wall or overhead using suitable fixings. Before installing the speaker, make sure that the installation area can hold a minimum point load of 10 times the installations weight (e.g. 12kg x 10 = 120kg point load). The durability of the installation depends very much on the material used at the installation area (building material), such as wood, concrete and brick etc. This is why the fixing material must be chosen to suit the ceiling material. Always ask a specialist for the correct plug/screw combination indicating the maximum load and building material.



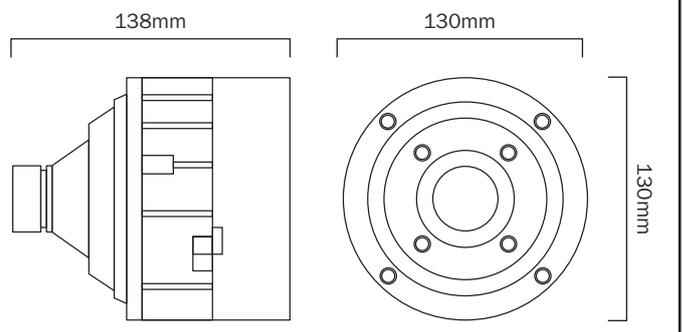
### SHD - 100V Screw On Horn Drivers

High efficiency, screw-on, 100V horn drivers suitable for use with most public address horn flares fitted with a 1 3/8" thread. Manufactured using a die-cast aluminium chassis with a durable plastic rear cover, the drivers feature a flying lead and selectable output wattage taps.

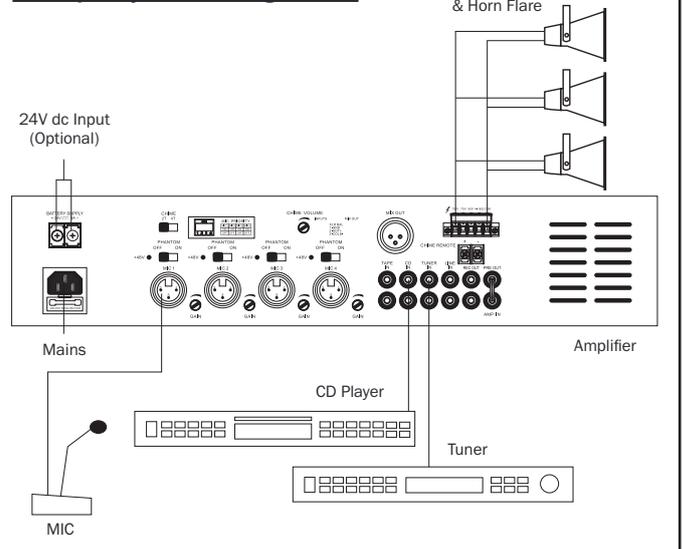
Specifications	SHD 35	SHD 60
Power (RMS)	35W	60W
Power taps	10W, 20W, 35W	20W, 40W, 60W
Impedance	1KΩ, 500Ω, 290Ω	500Ω, 250Ω, 170Ω
Sensitivity (when coupled to a CRSP55 horn)	114dB	114dB
Frequency response	150Hz-6kHz	150Hz-6kHz
Dimensions	138 x 130mmØ	138 x 130mmØ
Weight	1.9kg	2.5kg
Order code	CRSP52	CRSP53

Connections	SHD 35	SHD 60
Black	Common	Common
Orange	35W (290Ω)	60W (170Ω)
Red	20W (500Ω)	40W (2950Ω)
Brown	10W (1kΩ)	20W (500Ω)

In the box: **1 x horn driver & 1 x user manual**



### Example system configuration



### WARNING!

#### FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all the parts are present.
- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- Retain the carton and all packaging materials.
- In the event that a fixture must be returned to the supplier, it is important that the fixture is returned in the original carton and packaging.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.

### IMPORTANT:

#### The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never leave any cables lying around.
- Do not use the unit near stoves, heaters, radiators, or other heat producing devices.
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not expose to flammable sources, liquids or gases.
- Do not use the incorrect cables or defective cables.
- Never let the loudspeaker cable come into contact with other cables. Handle the loudspeaker cable and all mains voltage connections with particular caution.
- Make sure that the loudspeaker cable is never crimped or damaged. Check the equipment and the loudspeaker cable periodically.
- Do not drive the inputs with a signal level higher than required to drive the equipment to its full output
- Prevent distortion! Make sure that all components connected to the speaker have sufficient power ratings. Distortion will be generated if the components are operated at their limits.
- The user is responsible for correct positioning and operation of this fixture. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this equipment.
- Repairs, servicing and power connection must only be carried out by a qualified technician.  
THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY: Three year from date of purchase.

### OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Incase of malfunction this device should be returned for service or inspection.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.



### DANGER TO LIFE!

**BEFORE OPERATING THE SPEAKER FOR THE FIRST TIME, THE INSTALLATION HAS TO BE APPROVED BY AN EXPERT**

**SWITCH OFF AMPLIFIER AND DISCONNECT SPEAKER BEFORE STARTING ANY MAINTENANCE**

**CAUTION! INPUT VOLTAGE OF 70-100V**

### Important installation advice

- All loudspeakers have to be connected to either the constant voltage line and wired in parallel, or low impedance and wired to provide the correct load to the amplifier.
- The output power is selectable using the wires provided on the base of the speaker.
- As the voltage on the line can approach 100V, installation must follow the best practice with double insulated cable being used. Cable runs should be kept away from any potential source of interference such as 3 phase mains, data cables, telecom cables etc.
- 100V line systems must always be wired in parallel and the total load presented to the amplifier must not exceed the rated output of the amplifier or damage can result.
- You must NEVER mix 100V line and low impedance speakers on the same system.
- DO NOT run microphone cables near mains, data, telephone or 100V line cables.
- DO NOT exceed 90% of the amplifiers output power when using 100V line (speech only).
- DO NOT exceed 70% of the amplifiers output power when using 100V line (high level background music only).
- Note: The total load impedance presented to the amplifier must never be below the rated amplifier impedance, otherwise damage can result.

### Connection instructions

- Prior to connecting the speaker, switch off the amplifier to which the speaker is to be connected.
- Remove the protective cap from the horn driver and carefully to avoid cross threading screw the horn driver clockwise onto the horn flare.
- Using a suitable IP rated junction box, connect the appropriate wires into the feed from the 100V amplifier ensuring unused connections are insulated to prevent short circuits or cross polarity. When connecting several loudspeakers, make sure they all have the same polarity and the amplifier is not overloaded.
- Protect the unit against extreme high or low temperatures (admissible ambient temperature range  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ ).

### Correct Disposal of this Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

