CERTIFICATE OF CALIBRATION

ISSUED BY **Avery Weigh-Tronix**

DATE OF ISSUE: **09 November 2022** CERTIFICATE NUMBER: **UK220613**

UKAS CALIBRATION

0450

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Approved Signatory

J Fitzmaurice

Submitter : Avery Weigh-Tronix, Foundry Lane, Smethwick, West Midlands. B66 2LP. On behalf of :-

Trent Valley Kart Club
Brandon
Grantham
NG32 2AY

Date of Calibration: 09 November 2022

Condition : Good

Description & Identification:
A collection of four painted cast iron weights of nominal value 25 kg submitted as class M1. The weights are of octahedron construction with an integral handle, with an adjusting chamber, containing adjustment material set into the body of the weight.

Weights are identified as: **DH 1** to **DH 4** as listed on page 2.

The weights are marked with an identification and nominal value.

Calibration Method :
The values of the weights were determined by comparison through substitution weighing (Borda's Method).

Convention :
The values quoted represent the mass of a hypothetical weight of density 8000 kg/m^3 which in air of density 1.2 kg/m^3 would balance that weight at 20°C.

Place of calibration:
This calibration was carried out in our UKAS accredited laboratory at the above Smethwick address.

The following reported results relate only to the items calibrated.

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UKAS Accredited Calibration Laboratory 0450

Certificate Number UK220613

Table of results:

Identity	Nominal Mass	Conventional Mass		Uncertainty of Measurement
	(g)	As found (g)	Post adjustment (g)	(± mg)
DH 1	25 000	25 000.73		500
DH 2	25 000	25 000.68		500
DH 3	25 000	25 000.74		500
DH 4	25 000	25 000.75		500

Note: The 25 kg weights above as calibrated, and when extended by the relevant quoted uncertainty of measurement, are within the maximum permissible error (M.P.E.) for class M1 weights of nominal value 50 kg as specified in the International Recommendation O.I.M.L. R 111-1 Edition 2004 (E).

END OF CERTIFICATE

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.