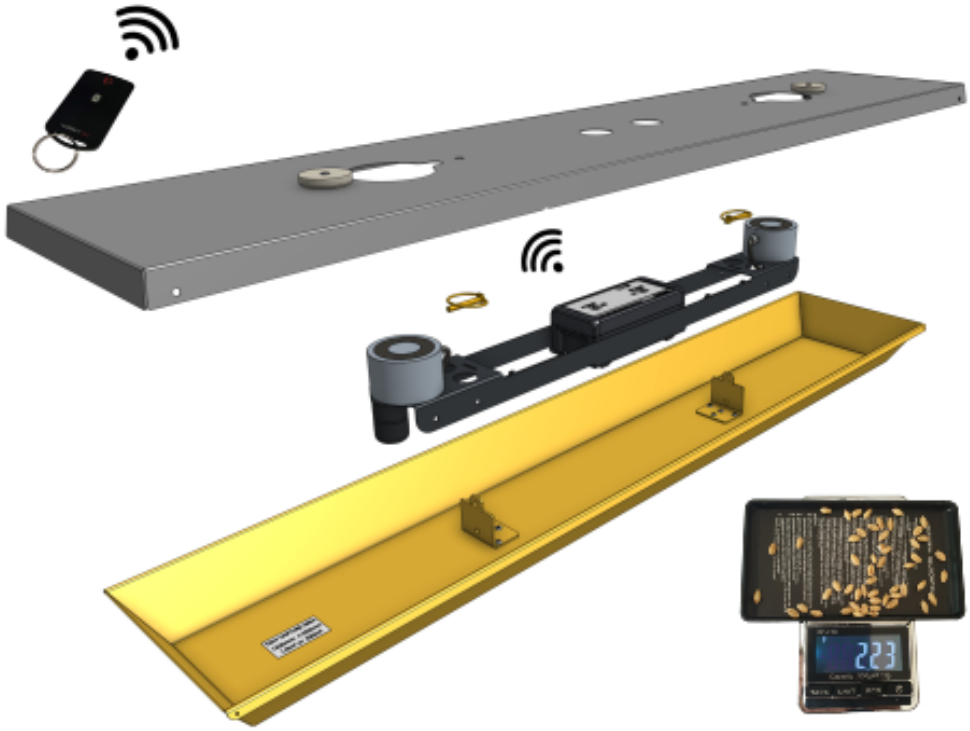
Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

Thankyou for purchasing our Harvest Calibration/LossTray. We look forward to you getting many years of use out of this product and reaping the rewards with more grain in the bin and less on the ground. Please read and understand this manual to get the most out of the product. If you have any queries please contact your local agent or reseller.



Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

Safety:

- Owners must give clear operating instructions to operators or employees before allowing them to use this product and at least annually thereafter per local derestriction legislation, EU-OSH legislation or U.S. DOL OSHA 1970.
- The most important safety device is a SAFE operator. It is the operators responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. All accidents may be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to use this product. An untrained operator exposes himself and bystanders to possible serious injury or death.
- Do not modify the equipment in any way.
- Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- When approaching harvester always ensure the operator can see you and is aware you are there.
- Ensure the harvester is disengaged and in a safe mode before proceeding to fit the tray.
- Magnets fitted. Metal objects can be attracted to magnets causing a pinch point.
- Rechargeable Battery LiFePo4 12v - 2Ah Ensure Safe Disposal, Do Not Incinerate
- Think SAFETY! Work SAFELY!

Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

Kit Includes:

- Sample Tray, 0.333m² or .5m² tray, Powder Coated Yellow.
- Fully Integrated Battery System and Charger.
- Removable Centre Battery and Magnets for easy sample retrieval.
- 2 x Key Ring Transmitters
- Scales in hard case

Features:

- Magnetic Mount To Machine
- Under Rear Axle or Cutting Platform, On any flat steel surface
- Remotely Operated Release
- ⅓ or ½ Meter Square Area Tray Std or Other options as requested
- Ideal For Use With Calibration Apps
- Easy Removal of Centre Frame For Sample Retrieval.
- 2 x Key Ring Transmitters
- Fully Integrated Battery System
- Seasonal Recharge Required
- Digital Scale

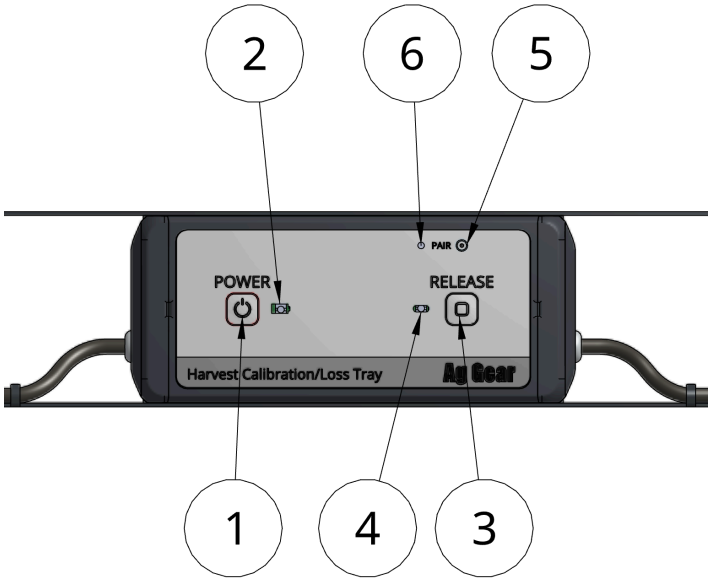
Alternate Accessory:

A sample cleaner is also available. This can be used to separate the grain from the charf collected in the tray.

Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

Controller Button Operations and Indicators:



1. **Power Button**. Press to turn on. Press to turn off. Auto power off after 3 hrs.

2. **Power and Battery Indicator**. When powered on and battery charged, LED flashes “green”. When powered on with a low battery will “flash red”. Caution, when flashing red it will auto shut and cease to operate. When charging shows solid “green” once charged quick flash green.

   If flashing “red” recharge

3. **Release Button** Unlatching the magnets. Same as in remote operation, ie. Can be used to release magnets without a remote when placing on the machine or accidentally attached to metal.

4. **Release Indicator**. LED flashing green indicates when operated either remotely or manually.

5. **Pair Button.** Push the blue button to activate pairing function.Press the remote button to pair. Stops once paired and green release indicator will flash in unison with the pair indicator.

6. **Pair Indicator**. LED flashes when the signal from the remote is seen. Shows solid when pairing initialised.

Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

Field Operation:

Connect tray via magnets to harvester, connecting the hood first followed by the tray. Ensure that the power has been turned on and the indicator is flashing green. DO NOT mount in front of wheels!

When the harvester is at normal operating conditions, using the keyring remote press and hold for two seconds allowing the tray to drop on the ground and collect a sample as the harvester passes over the tray.

After sample has been collected from the rear of the harvester, the centre frame of the tray with magnets can be removed, ensure to include any grains on top. Separate the seeds from the chaff and either manually calculate or enter grain count or weight into the app for calculations.

Grain Loss Formula

Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

NOTE: For discharge width, reduce if not fully spread across cut width. For windrowing use

$$\text{Loss (kg/ha)} = \frac{\text{Grain Weight (g)} \times 10}{\text{Pan Area (m}^2\text{)}} \times \left(\frac{\text{Discharge Width (m)}}{\text{Cut Width (m)}} \right)$$

OR

$$\text{Loss (kg/ha)} = \text{Grain Weight (g)} \times \text{Settings Factor (see charts)}$$

$$\text{Loss \%} = \frac{\text{Loss (kg/ha)}}{\text{Yield (t/ha)} \times 10}$$

the separator width. For charfline use tray width, assuming full capture of product and minimal spread loss.

Setting Factor Chart - ⅓ m^2 or 0.333m^2

Harvest Grain Loss - Settings Factor														
1/3m² Tray Area		Cut Width/ Front Size												
		9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15
Spread Width	1.3	4.38	4.15	3.94	3.75	3.58	3.43	3.28	3.15	3.03	2.92	2.81	2.72	2.63
	1.5	5.05	4.78	4.55	4.33	4.13	3.95	3.79	3.64	3.50	3.37	3.25	3.13	3.03
	1.7	5.72	5.42	5.15	4.91	4.68	4.48	4.29	4.12	3.96	3.82	3.68	3.55	3.43
	2	6.73	6.38	6.06	5.77	5.51	5.27	5.05	4.85	4.66	4.49	4.33	4.18	4.04
	3	10.10	9.57	9.09	8.66	8.26	7.91	7.58	7.27	6.99	6.73	6.49	6.27	6.06
	4	13.47	12.76	12.12	11.54	11.02	10.54	10.10	9.70	9.32	8.98	8.66	8.36	8.08
	5	16.84	15.95	15.15	14.43	13.77	13.18	12.63	12.12	11.66	11.22	10.82	10.45	10.10
	6	20.20	19.14	18.18	17.32	16.53	15.81	15.15	14.55	13.99	13.47	12.99	12.54	12.12
	7	23.57	22.33	21.21	20.20	19.28	18.45	17.68	16.97	16.32	15.71	15.15	14.63	14.14
	8	26.94	25.52	24.24	23.09	22.04	21.08	20.20	19.39	18.65	17.96	17.32	16.72	16.16
	9	30.30	28.71	27.27	25.97	24.79	23.72	22.73	21.82	20.98	20.20	19.48	18.81	18.18
	10	33.67	31.90	30.30	28.86	27.55	26.35	25.25	24.24	23.31	22.45	21.65	20.90	20.20
	11	37.04	35.09	33.33	31.75	30.30	28.99	27.78	26.67	25.64	24.69	23.81	22.99	22.22
	12	40.40	38.28	36.36	34.63	33.06	31.62	30.30	29.09	27.97	26.94	25.97	25.08	24.24
	13	43.77	41.47	39.39	37.52	35.81	34.26	32.83	31.52	30.30	29.18	28.14	27.17	26.26
	14	47.14	44.66	42.42	40.40	38.57	36.89	35.35	33.94	32.63	31.43	30.30	29.26	28.28
	15	50.51	47.85	45.45	43.29	41.32	39.53	37.88	36.36	34.97	33.67	32.47	31.35	30.30
	16	53.87	51.04	48.48	46.18	44.08	42.16	40.40	38.79	37.30	35.91	34.63	33.44	32.32
	17	57.24	54.23	51.52	49.06	46.83	44.80	42.93	41.21	39.63	38.16	36.80	35.53	34.34
	18	60.61	57.42	54.55	51.95	49.59	47.43	45.45	43.64	41.96	40.40	38.96	37.62	36.36

Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

Setting Factor Chart - ½ m^2 or 0.5m^2

Harvest Grain Loss - Settings Factor															
1/2m² Tray Area		Cut Width/ Front Size													
		9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	18
Spread Width	1.3	2.89	2.74	2.60	2.48	2.36	2.26	2.17	2.08	2.00	1.93	1.86	1.79	1.73	1.44
	1.5	3.33	3.16	3.00	2.86	2.73	2.61	2.50	2.40	2.31	2.22	2.14	2.07	2.00	1.67
	1.7	3.78	3.58	3.40	3.24	3.09	2.96	2.83	2.72	2.62	2.52	2.43	2.34	2.27	1.89
	2	4.44	4.21	4.00	3.81	3.64	3.48	3.33	3.20	3.08	2.96	2.86	2.76	2.67	2.22
	3	6.67	6.32	6.00	5.71	5.45	5.22	5.00	4.80	4.62	4.44	4.29	4.14	4.00	3.33
	4	8.89	8.42	8.00	7.62	7.27	6.96	6.67	6.40	6.15	5.93	5.71	5.52	5.33	4.44
	5	11.11	10.53	10.00	9.52	9.09	8.70	8.33	8.00	7.69	7.41	7.14	6.90	6.67	5.56
	6	13.33	12.63	12.00	11.43	10.91	10.43	10.00	9.60	9.23	8.89	8.57	8.28	8.00	6.67
	7	15.56	14.74	14.00	13.33	12.73	12.17	11.67	11.20	10.77	10.37	10.00	9.66	9.33	7.78
	8	17.78	16.84	16.00	15.24	14.55	13.91	13.33	12.80	12.31	11.85	11.43	11.03	10.67	8.89
	9	20.00	18.95	18.00	17.14	16.36	15.65	15.00	14.40	13.85	13.33	12.86	12.41	12.00	10.00
	10	22.22	21.05	20.00	19.05	18.18	17.39	16.67	16.00	15.38	14.81	14.29	13.79	13.33	11.11
	11	24.44	23.16	22.00	20.95	20.00	19.13	18.33	17.60	16.92	16.30	15.71	15.17	14.67	12.22
	12	26.67	25.26	24.00	22.86	21.82	20.87	20.00	19.20	18.46	17.78	17.14	16.55	16.00	13.33
	13	28.89	27.37	26.00	24.76	23.64	22.61	21.67	20.80	20.00	19.26	18.57	17.93	17.33	14.44
	14	31.11	29.47	28.00	26.67	25.45	24.35	23.33	22.40	21.54	20.74	20.00	19.31	18.67	15.56
	15	33.33	31.58	30.00	28.57	27.27	26.09	25.00	24.00	23.08	22.22	21.43	20.69	20.00	16.67
	16	35.56	33.68	32.00	30.48	29.09	27.83	26.67	25.60	24.62	23.70	22.86	22.07	21.33	17.78
	17	37.78	35.79	34.00	32.38	30.91	29.57	28.33	27.20	26.15	25.19	24.29	23.45	22.67	18.89
	18	40.00	37.89	36.00	34.29	32.73	31.30	30.00	28.80	27.69	26.67	25.71	24.83	24.00	20.00

Harvest Calibration/Loss Tray

Integrated Battery and Remotely Deactivated Magnets

Tips and Tricks

- Ensure the tray is clean immediately before taking sampe.
- Ensure loose chaff or grain around the mount are removed prior to fitting the tray for a sample.
- If using the hood, ensure it is firmly fitted with the magnets and not sitting on the tray.
- Make sure the tray controller is turned on and flashing green, before connecting with magnets.
- Single quick press of power button to turn on. Long press may turn it back off. Ensure the battery indicator is flashing green.
- Magnets can be removed and tray thrown or placed manually to get samples out wide on the front.