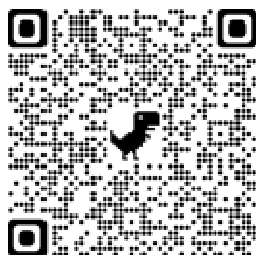




High Speed Coin Counter

HCS-25

User Manual



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Matters needing attention:

Dear customer, thank you very much for choosing products from Suzhou Ribao Technology Co., LTD.

Dedicated to provide you with good pre-sale, sale, after-sales service.

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For future use, please keep the warranty card together with the instruction manual.

Warranty terms are at the discretion of each distributor, please consult the distributor of the product for details.

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1 . Introduction and intended use

1.1 Safety information

Always follow basic safety precautions when using this product to reduce risk of injury from fire or electric shock.

Observe all warnings and instructions marked on the product.

Do not install or use this device outdoors, near water, or when you are wet.

Install the product securely on a stable surface. See also chapter “Installation”

Do not exceed the specified load of the bag, given in chapter “Installation”. Otherwise the machine can tilt and drop down.

Do not touch the coin disc when it is in operation. Take extra care of long hairs or loose clothing (e.g. tie). If it is caught in the machine, switch off the power immediately.

Unplug the HCS-25 from wall outlets before cleaning.

Do not clean the machine with chemical cleaner and do not use blowing gas. Otherwise parts can be damaged or explosion / flash may occur.

If the product does not operate normally, see chapter “Troubleshooting”.

Do not operate the machine when covers are removed. Servicing must be carried out by qualified service personnel.

1.2 Warnings

On the machine and in this manual standardised warning symbols are used. These are explained as followed:



Warning

Warning of possible danger, such as moving parts.



Electrical danger

Warning of possible injuries through electrical shocks



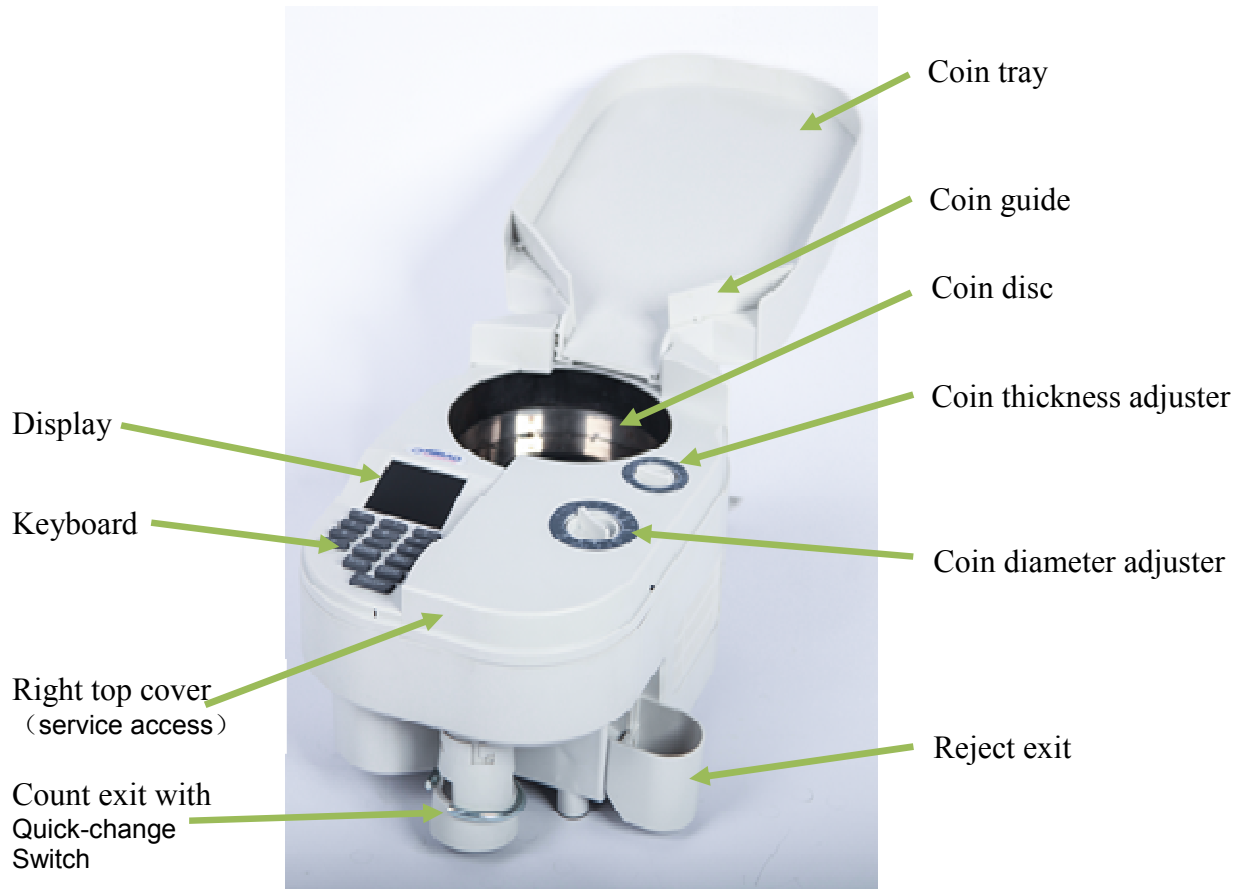
Risk of tilting

Warning of possible device tilting.

Do not exceed the weight of 9 kg in the counting bag and 7 kg in the reject bag. (see also Chapter “Installation”)

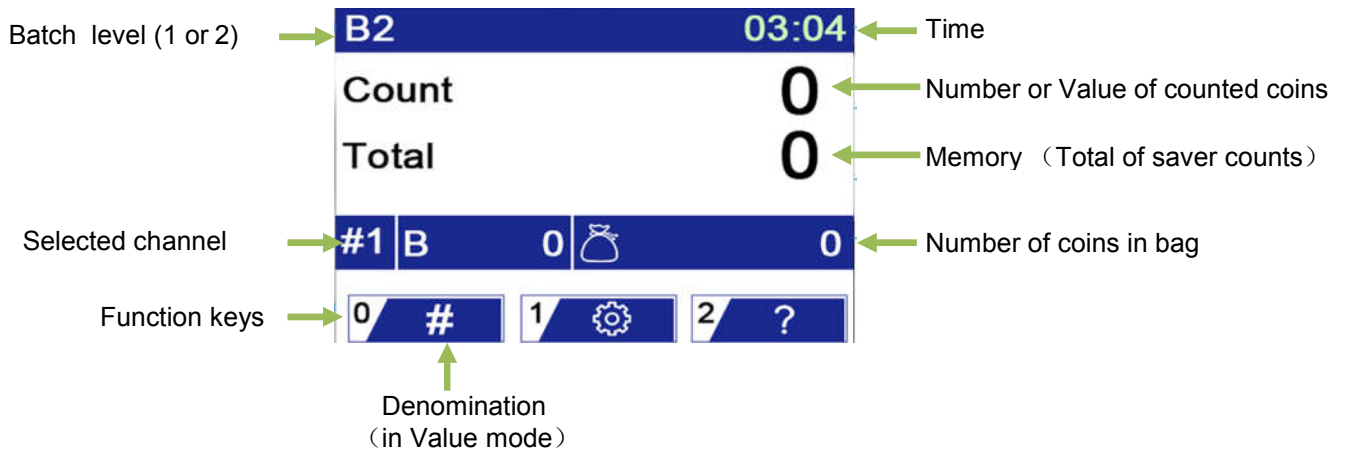
2 . Machine overview

2.1 Front / Rear view



2.2 User interface

2.2.1 Display



2.2.2 Key chart

Key	Description	Normal key stroke	3 seconds key stroke
START/STOP	Start/ Stop	Start or stop counting	
MEMORY	Add memory	Add the count to the memory	
PRINT	Print	Print ticket	
BATCH	Batch stop	Set batch stop	Clear bag content
CLEAR	Clear	Delete count result and bag content	Delete memory
0	Denomination	Select new denomination or coin number. Show memory total.	
1	Setting	Enter setting menu	
2	Help	Show key functions	

3. Installation

3.1 Environment and working space

Make sure the environment does comply with the specifications given in chapter 1.1 and 11.

Make sure the HCS-25 has proper electrical grounding.

The main fuse protection must be minimum 1,5A.

Install the HCS-25 where no one can step on it or trip over the line cord, and the line cord cannot be damaged.

The seat area must be stable, solid, and smooth.

The bagging unit of the machine must protrude the table edge so that the connected bag hangs freely.

But take care that the front feet of the HCS-25 remain in full size on the desk.



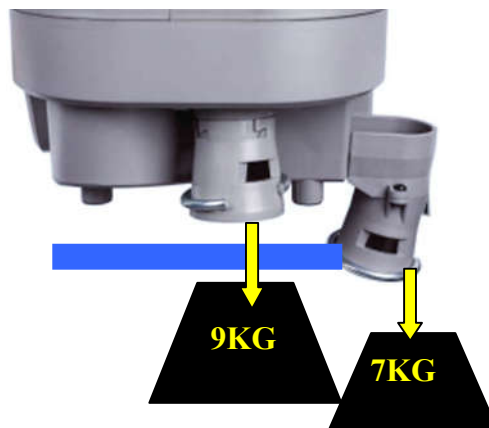
3.2 Bag, Reject device installation

The HCS-25 has one counting and one reject exit. The counting exit is provided to clamp a coin bag on it, but can be also used for the optional tubing kit. On the reject exit a cup or a bagging unit can be attached. When using the reject bagging unit the HCS-25 must be placed on the right side of the desk, so the reject bag hangs freely.



Warning of possible device tilting.

Do not exceed the weight of 9 kg (about 1000x 2€ coins) in the counting bag and 7 kg (about 800x2€ coins) in the reject bag. Install a support shelf where the bag rest on it, if higher weights are in use.



Connect the reject cup

or

reject bagging unit



A bag is fixed by: Move the metal ring upwards, wrap the bag around the tube and clamp it by moving down the ring

Before you start counting, set always the thickness and diameter according the coin size you want to count.

Note: Smaller coins will rejected but larger coins will stay in the machine and may cause jams.



Thickness adjuster

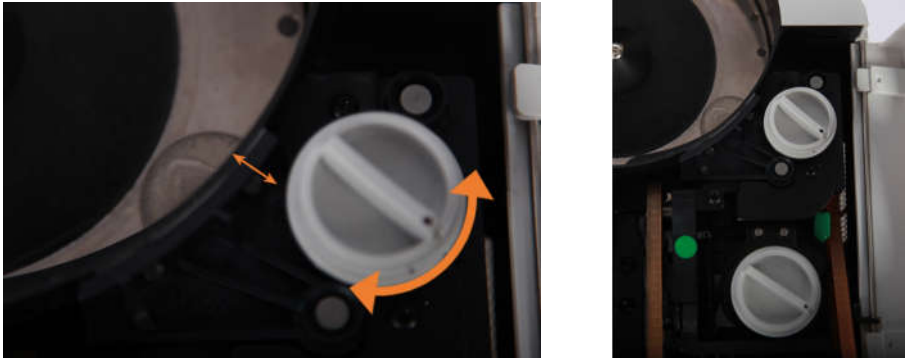


Diameter adjuster

If tokens or other coins need to be count, those are not marked on the scale, set the correct size as follow:

a) Thickness

Open the right top cover. Turn the Thickness adjuster to maximum. Place the token under the thickness block and turn the adjuster slowly down until it gently touch the token. Turn the adjuster backward until the token moves freely, without resistance, between disc and thickness block



b) Diameter

Lift up the transport belt. Turn the Diameter adjuster to maximum. Place the token on the transport track and turn the adjuster slowly narrow until it gently touch the token. Turn the adjuster backward until the token moves freely and has side clearance of about 0.4 mm.



4 . Coin preparation

Before loading coins into the machine inspect and remove all foreign objects. Also sort off damaged, lubricated or sticking coins.

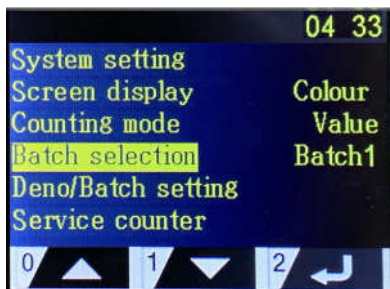
- a) Insert the coin guides on the tray.
- b) Make sure the support rod of the tray is vertical aligned.



Warning possible machine dump

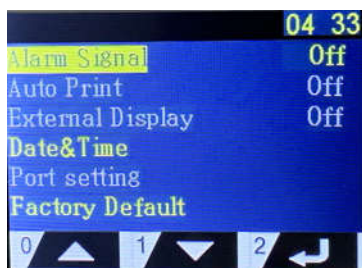
5. Setting menu

To enter the Setting menu press the “1” key. Use “0” to scroll up, “1” to scroll down and “2” to enter or change the selected option. To return to the main setting menu or go back to counting press the “On/Off” key.



5.1 System Setting

Currently there are three sub menus available.



Alarm signal: ON (beep always) / Off (no beep) / Error (beep only by error)

Date & Time: Enter numbers with numeric keypad and press On/Off to save and exit

Factory Default: Press "2" and confirm with "1" to reset all settings (e.g. denom. values and bagstops)

5.2 Screen display

This function is disabled by default and does not need to be modified.

5.3 Counting mode

Press "2" to change between Piece or Value counting

5.4 Batch selection

The HCS-25 has three stop levels:

Batch 1: Individual stop number for every denomination

Batch 2: One stop number for all denominations

Off: Non stop

5.5 Quantity/Batch Setting



For example, to set the denomination and the preset quantity, select the place to be modified through number "0" and number "1", and then click number "2" to enter. Set the denomination and quantity by number "0"-number "9", then click "MEMORY" to save, and press "START/STOP" twice to return to the main interface.

5.6 Background services



Figure 1

Figure 2

Figure 3

Figure 1: After clicking "Service counter" to enter, you can view the total historical counting number

Figure 2: The total historical counting is 5;

Figure 3: If you need to clear the historical data, press number "2" to enter, press the "CLEAR" key, and enter the initial password: 1308 to clear the data.

6. Operation

Before counting make always sure the selected settings, denominations and count memories meet your approbations.

6.1 Select Denomination

a) Adjust the thickness and diameter knob to the desired coin size and mount an empty coin bag on the counting exit.

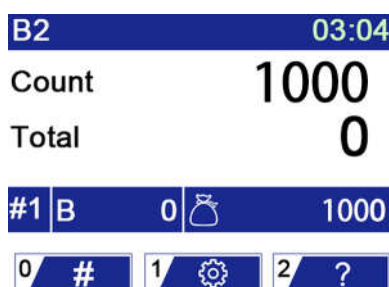
b) Press the "0" key several times until the requested denomination / coin number appears.

If the count or bag content were not zero, there will be a warning message: "Are you sure you want to proceed". If you press "1" (Yes) the two counters will automatically cleared. With "2" (No) the coin number will not be changed.

After the last coin number "9" a total symbol "Σ" appears. It represents the sum of all saved counts and cannot be used for counting.

6.2 Counting

Press "On/Off" key to start the count, or push the coin exit to activate the Quick-change switch. The HCS-25 shows the counted quantity or value. When the count is finished the machine stops automatically. (You can also press "On/Off" or push again the coin exit to stop the count manually.)



It is now possible to

RM: Print the count

M: Save the count into the memory

C: Clear the count and bag content

C (long): Clear the count memory of this denomination

On/Off: Count more coins

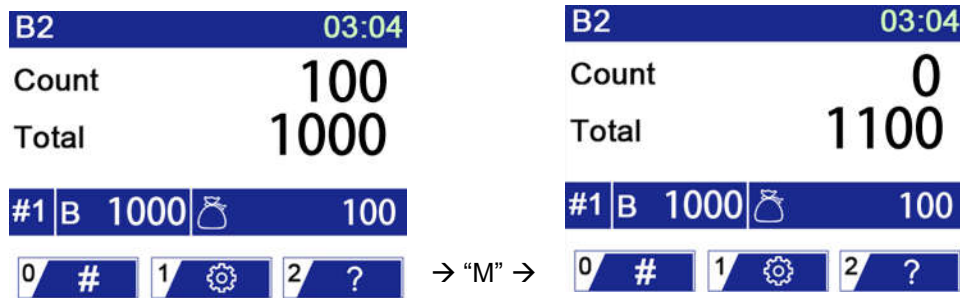
The machine stops with “B1 Stop” if the pre-selected stop is reached. The count will automatically transferred to the memory and the bag content counter will set to zero. Replace the bag with an empty one.

Note: Value or piece counting is selectable in Setting menu, option “Counting mode”

6.3 Memory

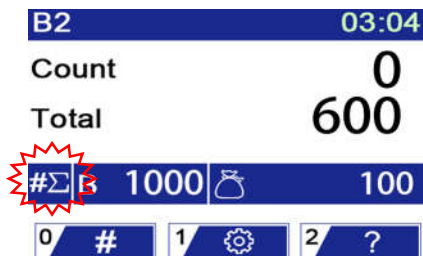
6.3.1 Add Memory

The HCS-25 adds automatically full bags to the memory. When a count is finished and a bag stop is not reached, it is possible to accumulate the count to the memory by pressing "M". After pressing "M" the Count/ Value is reset to "0".



6.3.2 Show Memory

Press the "0" key several times until the Total symbol "Σ" appears. Here you can see the sum of all saved counts.



Press

RM: Print the total

C (long): Clear all totals

0: Select a denomination

Note: Uncomplete counts being not saved with "M" are not in the Memory

6.4 Batch Stop

6.4.1 Setting a Batch

The HCS-25 has three batch levels. The batch level is defined in the "Setting" menu.

Batch 1: Set different batch number for each denomination.

Batch 2: Set one same batch number for all denominations.

Off: Non stop

Pre-set batch is possible to change during counting.

Press "BATCH" key and enter with the numeric keypad a new stop between 0...99999. Press "MEMORY" to save the new batch.

Alternative standard batch numbers (500, 1000, 2000, 5000, 10000) can be used by pressing "BATCH" key.

→ "B" → enter new stop → → "M"

If you change to another denomination batch and the batch content is not zero, there will be a warning message "Do you want to clear count and bag?" Press "1" (Yes) to clear the two counters or "2" (No) to count further without clearing

Note: A steady stop in "Batch 1" must be entered in the Setting menu, option "Deno/Batch setting".

6.4.2 Clear incomplete bag

When you install an empty bag without a request of the HCS-25, you must clear the batch content.

Otherwise the counter does not start with "0", which may lead to a wrong batch stop.

To delete the batch content hold the "B" key for about 3 seconds.

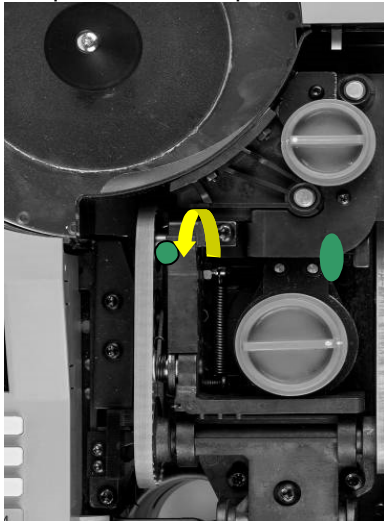
7. Maintenance

For optimum performance and error free operation, cleaning must be performed regularly. High usage requires more frequent maintenance!

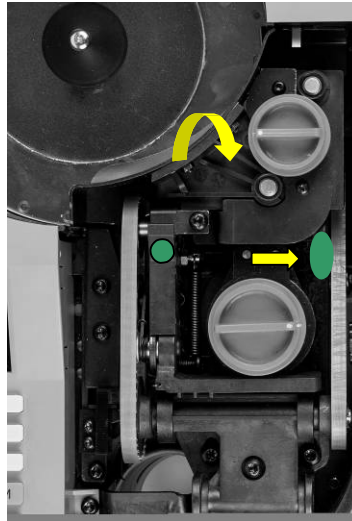
CAUTION: Always turn off and unplug the power cord before maintaining the HCS-25.

Daily cleaning: Remove the dirt from the coin track. Wipe the dust away under the counting sensor. Use a soft brush and a lint-free cloth.

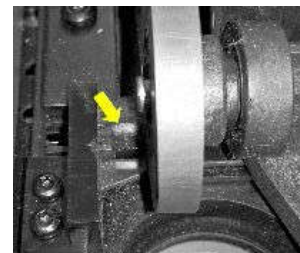
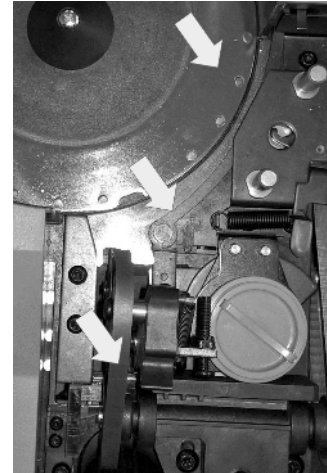
Open the right top cover and lift up the coin transport belt



Move the lever to the right and remove the thickness



Clean disc, transport track, belt and sensor

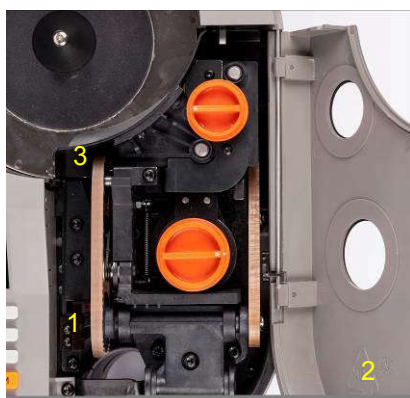


8. Trouble shooting

In case of an error event, the HCS-25 stops and shows an error message. The messages and locations are explained below. When the error is solved, confirm the message and press On/Off to count further. When the error appears repeatedly and you cannot fix that problem, please call the service and tell them the error message.

Po	Error code	Error description	Removal
	Are you sure you want to proceed?	When selecting another coin number or denom., the current count and bag content will deleted.	Press "1" (Yes) to change the denomination and delete the current count and coins in bag. Press "2" (No) to cancel the operation and count further or save the current
	B1 (or 2) stop	The pre-set bag stop for the current coin number/ denomination is reached.	Replace the bag. Press START or the Quick-change switch to count further. <i>Note: The complete count is automatically saved in the memory and the bag counter is set to zero.</i>
1	Coin under sensor	There are coins or foreign bodies jam under the coin counting sensor	Open the right top cover. Lift up the transport belt. Clean the count sensor and remove jammed objects. Control the coin diameter setting.
	Enter denom. value	There is no value configured for the selected denomination	Select another denomination or enter a value in the "Deno/ Batch setting" menu.
	Motor does not start (w/o error)	The total memory is	Select a denomination with the "1" key.
	Please empty the bag	When clearing the count result, also the bag content will set to zero.	Empty the bag. Press START or the Quick- change switch to repeat the count.
	Press "M" to save	To confirm and activate the new setting.	Press "M" to confirm and activate the new setting.
2	Side cover open	The right top cover is not closed.	Close the cover.
	To activate, count and bag will cleared	A new bag stop was selected but the counters weren't zero.	Press "1" to clear the count and bag content. Press "2" to cancel. The stop before is still active.
3	Transport jam	The coin transport does not operate. Coins or foreign bodies jamming on the disc or under the transport belt.	Open the right top cover. Lift up the transport belt. Remove jammed objects. Control the coin diameter and thickness setting. Check that the motor switch is activated when the right top cover is
	Value overflow. Clear	The counted value or memory does exceed the maximum	Print (if available) and then clear the counter or memory.

Error locations:



9. Specifications

Physical and electrical specifications		Process specifications and features	
Mains input voltage	100 to 240 VAC, 50/60 Hz	Count modes	Piece and Value counting (9 denominations, free programmable)
Power consumption	60 W Peak 22 W Operation 8 W Standby	Speed	Up to 3,400 coins per minute
Acoustic noise level	LpA < 79 dB(A) (uncertainty: 2) LpA Standby < 1 dB(A)	Chute hopper capacity	1,500 coins
Operating temperature	10° C to 35° C (50F – 95F)	Start/Stop	On/Off key Quick-change switch Foot pedal
Operating humidity	20% to 80% RH (non- condensing)	Bag stop	2 levels 0 – 99,999 coins Individual stop per
Dimensions Height Depth	mm (with closed chute) 190 350 235	Memory	Total and bag content
Weight	7.0 Kg	Connectivity	LAN (Ethernet), USB 2.0, RS232, Start/stop
Coin size range	Diameter: 14 - 34 mm Thickness: 0.8 – 3.8 mm	Software Update	SD-Card
Display	3" colour LCD	Options	see „Accessories”

10. Accessories

Included in delivery: Power cord, user manual, number scales, reject box and reject bagging unit.