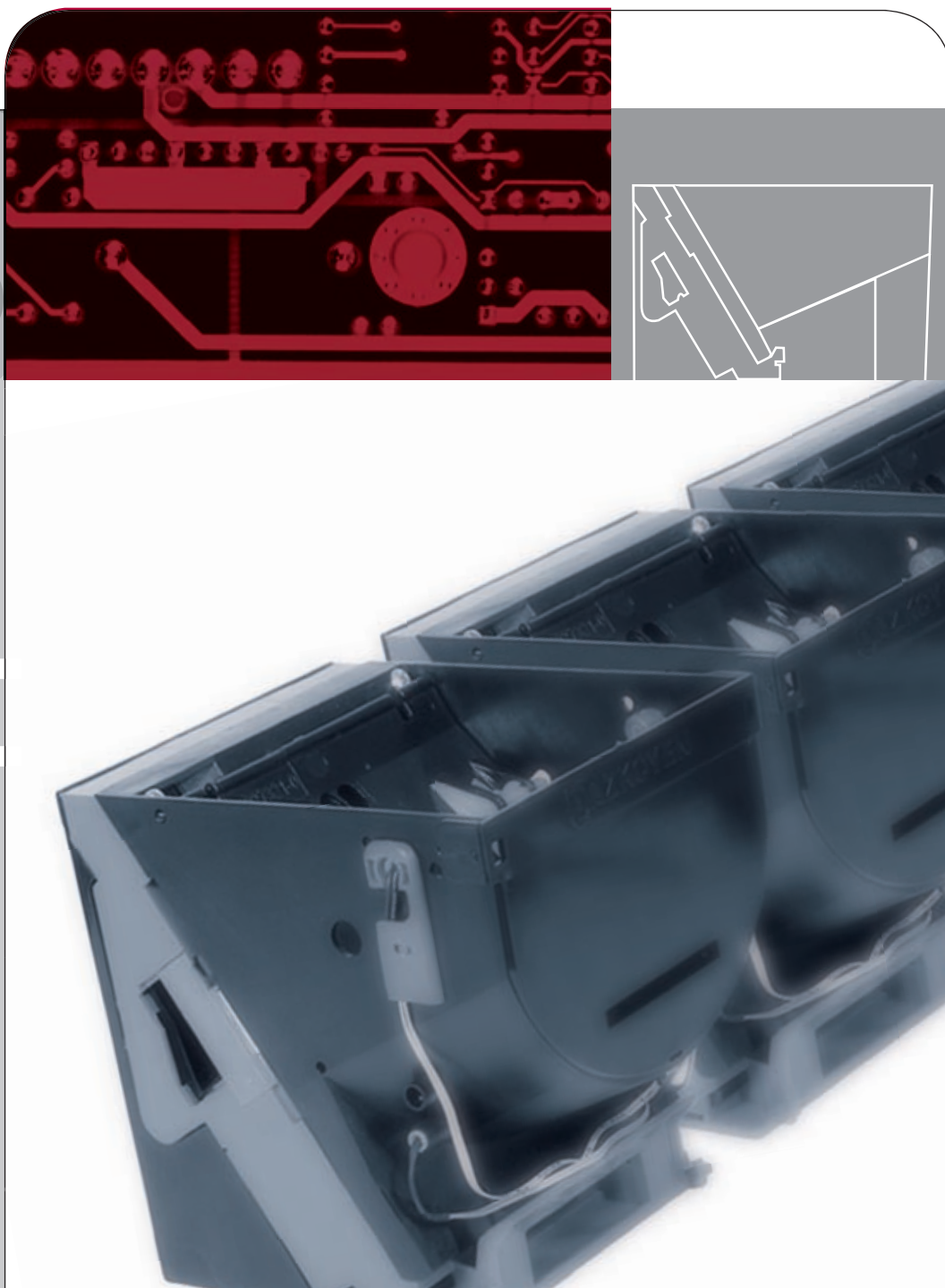


Hoppers



AZKOYEN

M E D I O S D E P A G O

Your Partner for Payment Technologies

Hoppers and Accessories

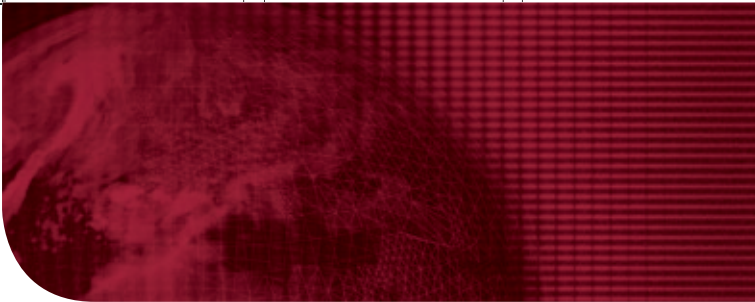
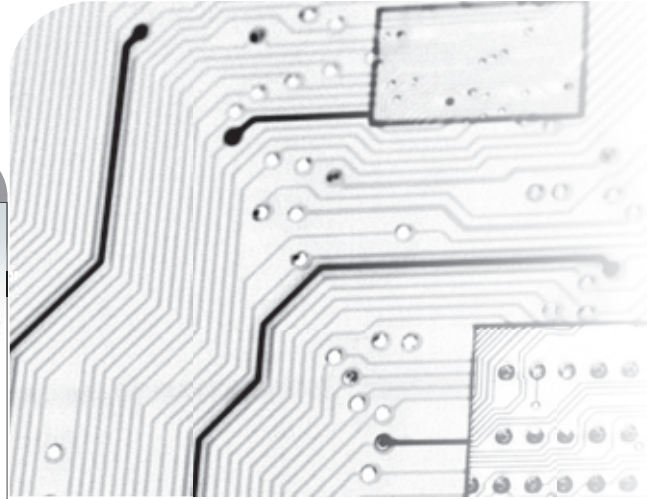
Hopper U II



Hopper U II P



Discriminator



Hopper T3



Hopper T3 Double

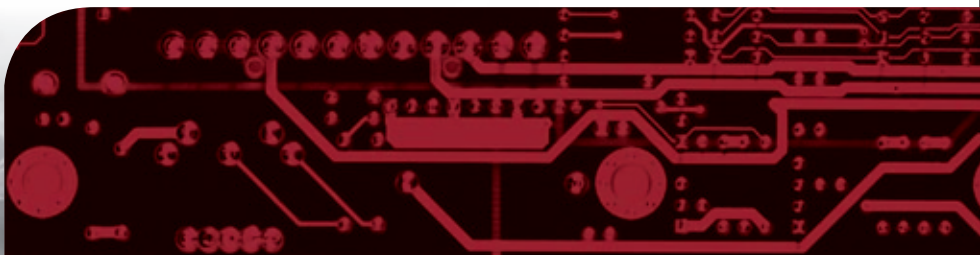


Electronic Scale

AZKOYEN
M E D I O S D E P A G O

Your Partner for Payment Technologies

Hoppers



Hopper U II



Hopper U II Plus



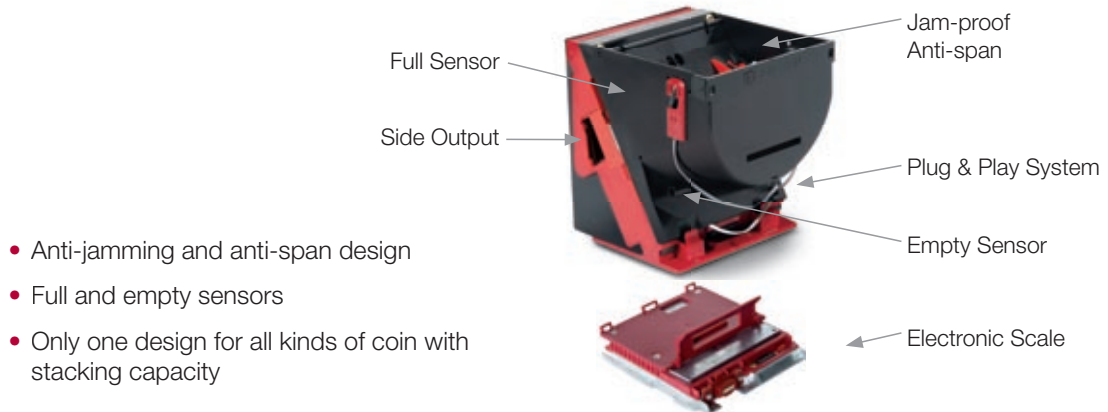
Discriminator

Your Partner for Payment Technologies

AZKOYEN Medios de Pago is a division of the Multinational **AZKOYEN** Group. Since 1945, we have been working with a growing number of companies on more continents and in an increasing number of industrial sectors. Our philosophy is based on collaborating with our customers to develop a wide range of creative, secure, technological payment systems.

AZKOYEN
M E D I O S D E P A G O

Azkoyen's Return Systems



Our Commitments

1. To attend your SECURITY requirements

- Reliability and exactitude in the counted one of currencies
- Versions Plus for high security



2. To make machine design easier

- Possibility of tele programming
- An only design, 6 different capacities of storage
- Cascade payment, possibility
- Flash Technology



3. To reduce cost

- Update of versions of maximum security
- Simple tools of reprogramming
- Free Software
- Flash Technology



Standards

The entire AZKOYEN returner range complies with the following standards:

- **CE**
- **Rohs**
- **BACTA standards**

Your Partner for Payment Technologies

Hopper U II

Specially designed for applications where security and payment speed are all important.





Hopper U II

INTELLIGENT DESIGN

- An only design, 6 different capacities of storage
- Reliability and exactitude in the counted one of currencies
- Anti-jamming and anti-span design
- Flash Technology
- Simplified programming

Mechanical Characteristics

Coin diameters	16,25 mm - 32 mm
Coin thickness	1.2 mm - 3.2 mm
Dimensions	115 x 131 x 155 mm
Degrees of inclination	3° on all axes
Payment Speed	up to 8 coins/sec.
Coin Capacity	up to 750 coins (€1)

Electrical Characteristics

Voltage	Nominal	12-24 V
	Minimum	10,8 Vdc
	Maximum	36,4 Vdc
Current	Standard	450 mA
	Maximum	3 A

Working Conditions

Working Temperature	+5°C to +55°C
Relative Humidity (without condensation)	95 %
Storage Temperature	-25°C to +70°C

Accessories

Three hopper sizes
Extensions to increase capacity
Mechanical coin-counting scales
Full overflow
Empty and full sensors

Protocols

Parallel

ccTalk

Hopper U II



Hopper U II Plus

Specially designed for applications where security and payment speed are all important. Double counting function.





Hopper U II Plus

INTELLIGENT DESIGN

- An only design, 6 different capacities of storage
- Reliability and exactitude in the counted one of currencies
- Anti-jamming and anti-span design
- Flash Technology
- Simplified programming
- Designed for high security uses

Mechanical Characteristics

Coin diameters	16,25 mm - 32 mm
Coin thickness	1.2 mm - 3.2 mm
Dimensions	115 x 131 x 155 mm
Degrees of inclination	3° on all axes
Payment Speed	up to 8 coins/sec.
Coin Capacity	up to 750 coins (€1)

Working Conditions

Working Temperature	+5°C to +55°C
Relative Humidity (without condensation)	95 %
Storage Temperature	-25°C to +70°C

Electrical Characteristics

Voltage	Nominal	12-24 V
	Minimum	10,8 Vdc
	Maximum	36,4 Vdc
Current	Standard	450 mA
	Maximum	3 A

Accessories

Three hopper sizes
Extensions to increase capacity
Mechanical coin-counting scales
Full overflow
Empty and full sensors

Protocols

Parallel

ccTalk

Hopper U II Plus



Discriminator

The only coin returning system with 2-coin intelligent payment to make payments which optimise space and change combinations.

2 COINS
6 COINS





Discriminator

INTELLIGENT DESIGN

- An only design, 6 different capacities of storage
- Reliability and exactitude in the counted one of currencies
- Anti-jamming and anti-span design
- Flash Technology
- Simplified programming
- Payment multicurrency: it distinguishes 2-6 currencies in an only Hopper
- Simplified calibration
- Intelligent payment: it diminishes incidences by lack of change

Mechanical Characteristics

Coin diameters	18 mm - 30 mm
Coin thickness	1.7 mm - 3.2 mm
Dimensions	115 x 131 x 155 mm
Degrees of inclination	3° on all axes
Payment Speed	up 5,4 coin/sec.
Coin Capacity	up 750 coin (1€)

Electrical Characteristics

Voltage	Nominal	12-24 V
	Minimum	10,8 Vdc
	Maximum	36,4 Vdc
Current	Standard	450 mA
	Maximum	3 A

Working Conditions

Working Temperature	+5°C to +55°C
Relative Humidity (without condensation)	95 %
Storage Temperature	-25°C to +70°C

Accessories

Three hopper sizes
Full overflow
Empty and full sensors

Protocols

Parallel

ccTalk

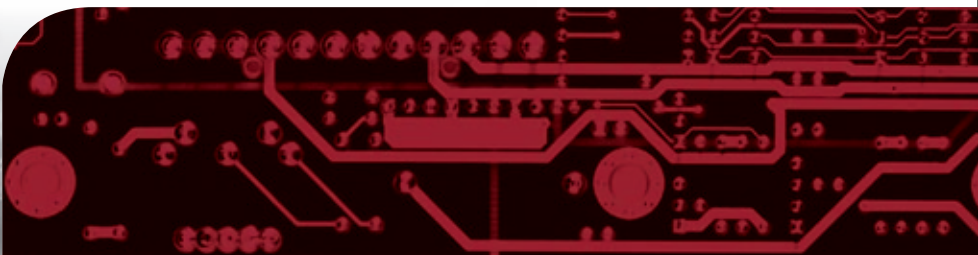
Discriminator II

-



Hoppers

T3 concept



T3 Standard



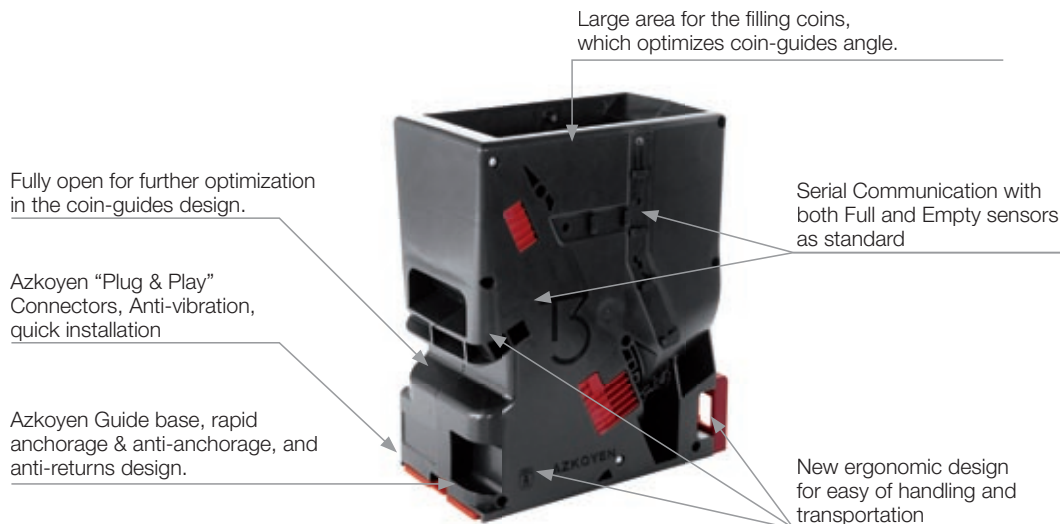
T3 Double

Your Partner for Payment Technologies

AZKOYEN
MEDIOS DE PAGO

Azkoyen's Return Systems

Discover the benefits of the new hopper T3. The Next Generation



Our Commitments

1. To exceed your security requirements

- Reliability with exact accounting of all extracted coins/currencies.



2. Easier machine design

- For maximum optimization of the space inside the machine.
- The multiple modular options with coin values and quantities help you to optimize your machine design



3. To reduce cost

- Greater Hopper capacity can result greater machine uptimes with fewer service calls
- Ergonomic transportation system and installation



Standards

The entire AZKOYEN returner range complies with the following standards:

- **CE**
- **Rohs**
- **BACTA standards**

Your Partner for Payment Technologies

Hopper T3

For applications requiring a high level of capacity
and security of currency fraud

1 coin
2 coins



Devolvedor de Monedas Hopper T3

INTELLIGENT HOPPER

- Others just count, T3 offers the most advanced system of anti-fraud security at the time of validating the currency.
- Up to 35% more capacity than in other similar Hoppers.
- Modular for a perfect optimization of the space inside the machine
- Configurable and flexible to enhance their design

C1:
1 coin value



Standard capacity

C2:
2 coin values



Standard capacity

C3:
1 coin value



Double Capacity

C4:
2 coin values



Double Capacity

Mechanical Characteristics

Coin diameters	16,25 mm - 32,5 mm
Coin thickness	1,2 mm - 3,2 mm
Degrees of inclination	3° on all axes
Payment Speed	up to 4,5 coins/sec.
Coin Capacity - T3 Simple	1550 (of 1€)
Coin Capacity - T3 Double	2750 (of 1 €)

Working conditions

Working Temperature	+0°C to +60°C
Relative Humidity (without condensation)	95 %
Storage Temperature	-20°C to +60°C

Electrical Characteristics

		ccTalk	Paralell*
Voltage	Nominal	24 v	24 v
	Minimum	19 Vdc	18 Vdc
	Maximum	26 Vdc	27 Vdc
Current	Nominal	450 mA	450 mA

*Vdc logic 11 - 27

Accessories

Two types of connectors:

- Cinch connector
- Plug & Play connector

Serial USB connexion in ccTalk protocol

Protocols	Paralell	ccTalk
Hopper T3 C1 / C3	●	●
Hopper T3 C2 / C4	-	●

Electronic Scale

The perfect solution for all those applications with high security requirements bringing higher precision levels in the counting of coins and allowing the operator to refill the hopper directly



NEW

BENEFITS AND ADVANTAGES

- Not necessary to count through coin validator.
- Transfers the data automatically in real time to the host machine
- Immediate detection when coins are removed

Electronic Scale

Features



4 “S” BENEFITS IN ONE PRODUCT SET

The Electronic Scale has been design with:

- **SENSITIVITY:**
High Precision independent of the working conditions.
- **SECURITY**
Digital technologies for immediate fraud detections
- **SUITABILITY**
Easy Installation & Fitting.
Not screws on the fitting, and plug & play design.
- **SIMPLICITY**
Simplifies audits for machine operators.
Measure accuracy of $\pm 0.10\%$ ($\pm 1\%$) of the number of coins.

Mechanical Characteristics

Coin denomination	Total: 16 coins
Coin pre-programmable	2 cent,5 cent,10 cent 20 cent,50 cent,1 , 2
Auto-programmable	2 coins or token
MCoins for the other coinages-upto	7 coins or token
Measure Accuracy	$\pm 0,1\%$
Dimensions	137 x 140 x 21 mm
Maximum overload	30 Kg (20 x 150%)
Maximum load	18 Kg
Control of not centered charges	✓ (150 x 150 mm)

Electrical Characteristics

DC Input	12-24 V
Current consumption	500 mA
(Hopper + Scale)	

Environment

Working temperature	+5°C a +50°C
Relative humidity	95 % (sin condensación)
Storage temperature	-25°C a +70°C

Accesorios

Tools	TL20 & HeUs
-------	-------------

Protocols *

Depends on the Hopper Protocol, bringing only one conexion to the kit.

* Consult your sales agent for other options

Hopper coin capacity

S

M

L

Three hopper sizes to allow you to configure your return system according to the required capacity.



Reference	11028971	11028961	11028941
Capacity*	275	425	750
Hopper U II	●	●	●
Hopper U II Plus	●	●	●
Discriminator II	-	-	-

*1€ coins

Vertical Extensions

"S" Ext. M

"L" Ext. L

"L" Ext. XL

We also supply a wide range of vertical extensions to enlarge your new or already installed coin returners.



Reference	42920581	42917391	42920701
Total capacity*	700	1100	1600
Height (mm)	80	80	105
Hopper U II	●	●	●
Hopper U II Plus	●	●	●
Discriminator II**	-	-	-

* Total 1€ Coin capacity : Hopper + extensión

** Extensions cannot be used on Discriminator II

Full Overflow

Hopper U II

Hopper U II Plus

Discriminator II

S

M

L

S

M

L

S

M

L

-

●

-

-

●

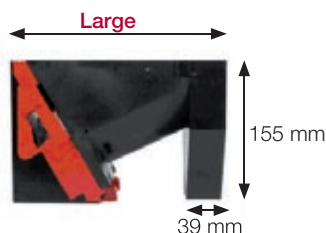
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Mechanical system which involving coin overflow by gravity.



Hopper	Large
Medium	154 mm
Large	228 mm

Mechanical Scales

Hopper U II

Hopper U II Plus

Discriminator II

S

M

L

S

M

L

S

M

L

●

●

●

●

●

●

-

-

-

Reference: 41087971

Electromechanical system for full/empty control



Range of tools adapted to the requirements of each customer:

- Intuitive, powerful, end operator-friendly software
- Possibility of reprogramming without tools
- Minimum-sized, sturdy tools
- Machine simulators for expert designers



HeUs Software

<http://sat.azkoyen.com>

Reconfiguration of pin outs and export of reconfiguration to the rest of the facility
Validator working test
Reprogramming of coin firmware and software
Modify acceptance bands
Coin inhibition / enablement

TL20

Handheld programmer.
Permits use of HeUs software without PC



Direct Connection Kit

PC connection cabling. Permits use of HeUs straight from a PC.

Kit IA 21

Power supply*.



* Transformer not included

Hopper U II

Hopper U II Plus

Discriminator

ccTalk Admin Software

Software which simulates a ccTalk machine to help designers

Hopper U II






Hopper U II Plus

Discriminator

ccTalk Admin Hardware

Permits application of ccTalk Software

COMMON DATA

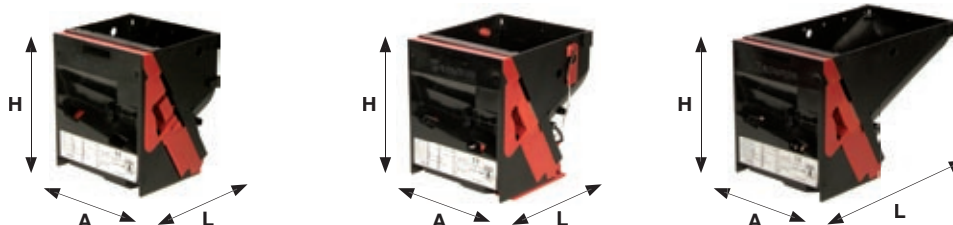
Applications		Hopper U II	Hopper U II Plus	Discriminador	Hopper T3
Amusement		●	●	●	●
Transport & Parking		●	●	●	●
Retail & Banking		●	●	●	●
Kiosk		●	●	●	●
Change Machines		●	●	●	●

Protocols	Hopper U II	Hopper U II Plus	Discriminador	Hopper T3 C1/C3	Hopper T3 C2/C4
Paralelo	●	●	-	●	-
ccTalk	●	●	●	●	●

Measurements	Concept U II y Discriminador			Concept Hopper T3	
	TP	TM	TG	Hopper T3 C1/C3	Hopper T3 C2/C4
A - Anchura (mm)	131	131	131	126,5	126,5* / 253**
L - Fondo (mm)	115	154	228	226	226
H - Altura (mm)	155	155	155	285,5	285,5

(Measures of real product, compatible with other hoppers of the same concept)

Concept Hopper U II y Discriminador

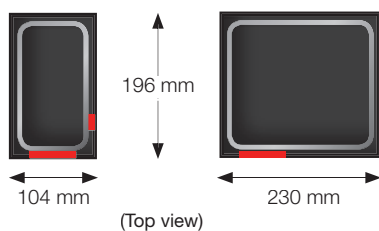


Concept Hopper T3

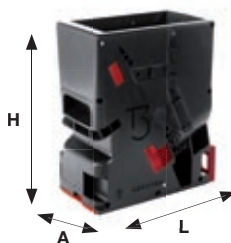
Mouth entrance

T3 C1 / C2

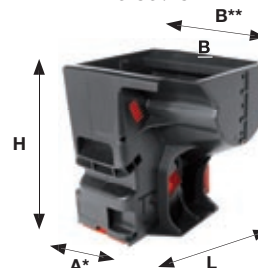
T3 C3 / C4



T3 C1 / C2



T3 C3 / C4



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