

The capacity to deliver



- Excellent fraud discrimination
- Highest levels of performance and security
- Truly global design

Combining high speed, high security and high reliability with rugged construction, the Cyclone Hopper is built to meet demanding applications. Developed from our highly successful Compact Hopper – ideal for 95% of the world's coins – the Cyclone Hopper provides single-denomination coin or token payout.

CRANE PAYMENT SOLUTIONS

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Cyclone Hopper



There are three variants of the hopper: the standard Cyclone, the Cyclone Mid Capacity and the Cyclone High Capacity. Each has the same features and interfaces, but different dimensions and coin capacities.

Key Features:

- Excellent fraud discrimination
- Highest levels of performance and security
- Truly global design
 - accepts 95% of world's coin sets
 - reduces lead times, stockholding and costs
- Choice of interface
 - parallel interface
 - ccTalk serial interface
- Extendible or very high capacity
- Efficient use of available machine space
- Multiple optical sensors and stealth lightguide
- Auto-reverse for jam clearance
- High and low-level sensing
- Interchangeable discs for different size coins
- Fast payout, in 'single' or 'stream' mode

Cyclone

The Cyclone has an extendible capacity within a small footprint, which means that it is suitable for many applications, especially the latest multi-pay machines. The capacity is extended by clipping up to two extension-bowls vertically onto the standard bowl.



Cyclone with 1 and 2 Bowl Extensions

Technical Data: Cyclone Hopper

GENERAL

| Dimensions mm (in) (HxWxD) | |
|----------------------------|---------------------------------------|
| Cyclone Std. Bowl | 150 (5.9) x 115 (4.5) x 121 (4.8) |
| Cyclone 1x Ext. Bowl | 208 (8.2) x 115 (4.5) x 121 (4.8) |
| Cyclone 2x Ext. Bowl | 265 (10.5) x 115 (4.5) x 121 (4.8) |
| Cyclone Mid Capacity | 186 (7.3) x 202.5 (8.0) x 230 (9.1) |
| Cyclone High Capacity | 194 (7.64) x 291 (11.46) x 252 (9.92) |

Coin Capacity*

| | | | |
|----------------|-----------|-----------|---------------|
| Std. Bowl | 430 x €1 | 315 x £1 | 480 x US 25¢ |
| 1x Ext. Bowl | 710 x €1 | 580 x £1 | 850 x US 25¢ |
| 2x Ext. Bowl | 990 x €1 | 840 x £1 | 1200 x US 25¢ |
| Mid Cap. Bowl | 1840 x €1 | 1350 x £1 | 2060 x US 25¢ |
| High Cap. Bowl | 2000 x €1 | 1465 x £1 | 2230 x US 25¢ |

Coin Dimensions Range mm(in)

| | |
|-----------|------------------------------|
| Diameter | 15 to 29.5 (0.591 to 1.162) |
| Thickness | 1.25 to 3.2 (0.050 to 0.126) |

Coin Payout Rate

| | |
|-------------|-----------------------|
| Stream mode | 8 to 10 coins per sec |
| Single mode | 2 coins per second |

Voltage: (V DC) Nom/Min/Max

| | |
|--------------|----------|
| Parallel 12V | 12/10/14 |
| Parallel 24V | 24/19/26 |
| Serial 24V | 24/19/26 |

Current typ. (A) Empty/Full/Surge

| | |
|--------------|----------------|
| Parallel 12V | 0.60/1.50/5.00 |
| Parallel 24V | 0.35/0.90/3.90 |
| Serial 24V | 0.35/0.90/3.90 |

Communications Interface

Parallel or Serial (ccTalk)

Security - Optical protection Multiple sensors and stealth lightguide

Motor protection Motor clamped in idle state (Serial version only)

Unauthorised use (optional) PIN code protection (Serial version only)

Temperature range

Operating 0°C to 60°C

Storage -20°C to 70°C

Humidity range: Up to 95% RH non-condensing

* Coin capacities are approximate and not a guaranteed figure

Cyclone Mid Capacity

The Cyclone Mid Capacity hopper holds over 2,000 x US 25 cents in a compact bowl and is ideal in applications where a larger capacity is required but space is at a premium.



Cyclone Mid Capacity

Cyclone High Capacity

The unique design bowl of the Cyclone High Capacity meets the ultimate capacity needs of a gaming machine. The baseplate design ensures an easy slide-in/slide-out operation of the unit into the machine, whilst the handle enables comfortable carrying of the full hopper unit if required.



Cyclone High Capacity

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