# HIGH PERFORMANCE BUCKETS

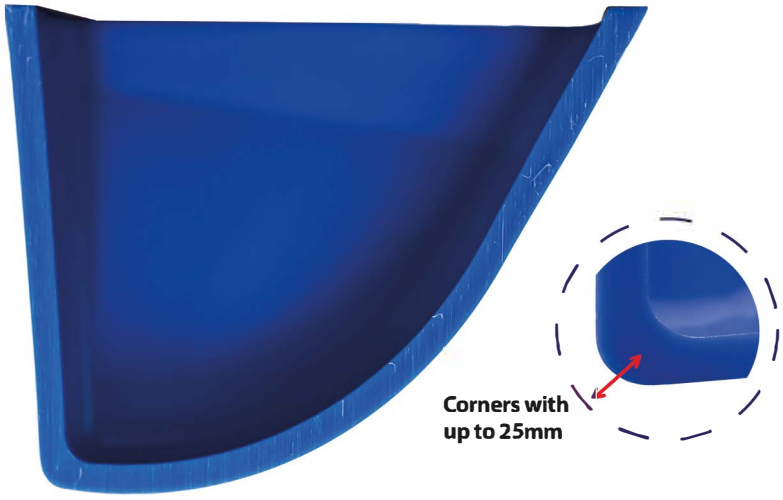
Ucelo

## HIGH PERFORMANCE

# BUCKETS

Exclusive Material, with the most advanced polymer technology

## DISTINGUISHING FEATURES:




*ACTUAL PRODUCT IMAGES

## STRUCTURE

Reinforced Walls: The thickest walls on the market.

## SPECIAL POLYMERS

**PEAD EAGLE**

**NYLON 66**

**NYLON 6**

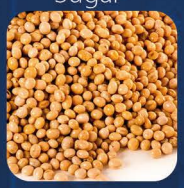
## PLEASE CONSULT OUR ENGINEERING DEPARTMENT

Ucelo's High-Performance Bucket line combines the use of engineering polymers with a robust one-piece structure. It arises from the market's need to find a plastic bucket profile suitable for heavy duty operations, abrasive products in extreme working conditions.

### PORT AND INTERMODAL TERMINALS


Sugar


Rice


Oilseeds


Fertilizers

### INDUSTRIAL


Oil Extraction


Animal Feed


Mills

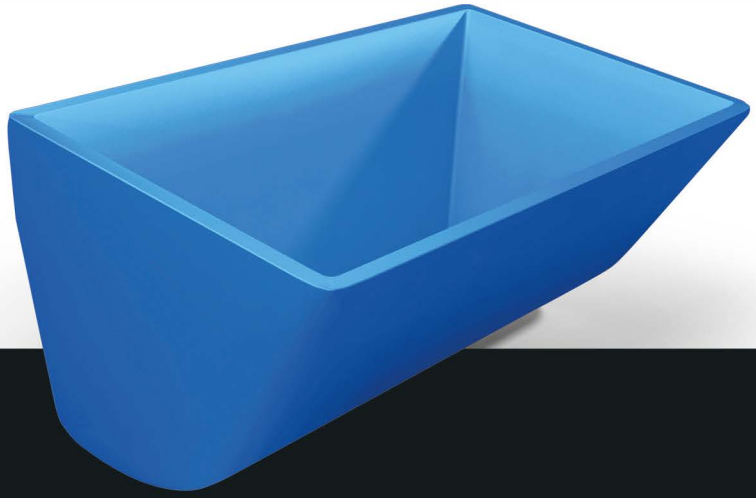

Fertilizers


Oilseeds

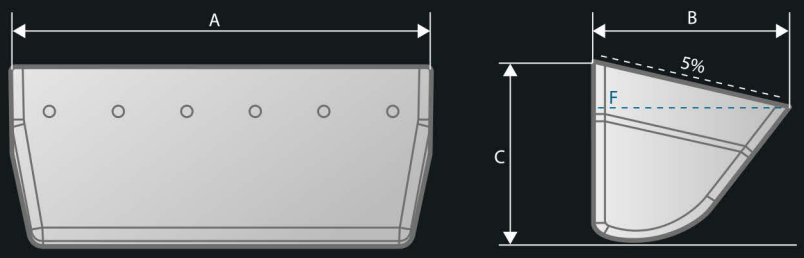

Foundries

**Suggestive applications,** not limited to illustrated products.

# BUCKET DIMENSIONS



## CONTACT US FOR AN EVALUATION OF YOUR EQUIPMENT. WE DIMENSION AND PROVIDE A COMPLETE SOLUTION, ALL UNDER THE GUARANTEE OF SUPPLY FROM A SINGLE COMPANY!




| | DIMENSION | | | VOLUME (L) | |
|---|---|---|---|---|---|
| | | A | B | C | F | |
| | Size | Width | Projection | Height | Water level | 5 degree |
| | 11X6 | 289 | 177 | 121 | 2,58 | 3,01 |
| MODEL 01 | 11x8M1 | 301 | 225 | 205 | 5,65 | 6,23 |
| | 12x8M1 | 329 | 225 | 205 | 6,35 | 7,00 |
| | 14x8M1 | 376 | 225 | 205 | 7,30 | 8,04 |
| | 16x8M1 | 428 | 225 | 205 | 8,30 | 9,15 |
| | 18x8M1 | 483 | 225 | 205 | 9,50 | 10,47 |
| MODEL 02 | 11x8M2 | 299 | 225 | 171 | 5,65 | 6,23 |
| | 12x8M2 | 327 | 225 | 171 | 6,35 | 7,00 |
| | 14x8M2 | 374 | 225 | 171 | 7,30 | 8,04 |
| | 16x8M2 | 426 | 225 | 171 | 8,30 | 9,15 |
| | 18x8M2 | 482 | 225 | 171 | 9,50 | 10,47 |
| MODEL 03 | 11x8M3 | 297 | 216 | 142 | 4,90 | 4,90 |
| | 12x8M3 | 325 | 216 | 142 | 5,20 | 5,20 |
| | 14x8M3 | 372 | 216 | 142 | 6,15 | 6,15 |
| | 16x8M3 | 424 | 216 | 142 | 7,10 | 7,10 |
| | 18x8M3 | 479 | 216 | 142 | 8,00 | 8,00 |
| MODEL 04 | 11x8M4 | 299 | 197 | 174 | 4,20 | 4,63 |
| | 12x8M4 | 327 | 197 | 174 | 4,64 | 5,11 |
| | 14x8M4 | 374 | 197 | 174 | 5,45 | 6,01 |
| | 16x8M4 | 426 | 197 | 174 | 6,80 | 7,49 |
| | 18x8M4 | 481 | 197 | 174 | 7,80 | 8,30 |
| MODEL 05 | 11x8M5 | 297 | 197 | 146 | 4,20 | 4,63 |
| | 12x8M5 | 325 | 197 | 146 | 4,64 | 5,11 |
| | 14x8M5 | 372 | 197 | 146 | 5,45 | 6,01 |
| | 16x8M5 | 424 | 197 | 146 | 6,80 | 7,49 |
| | 18x8M5 | 479 | 197 | 146 | 7,80 | 8,30 |
| MODEL 06 | 11x8M6 | 291 | 195 | 127 | 3,57 | 3,57 |
| | 12x8M6 | 319 | 195 | 127 | 4,12 | 4,12 |
| | 14x8M6 | 366 | 195 | 127 | 4,70 | 4,70 |
| | 16x8M6 | 418 | 195 | 127 | 5,80 | 5,80 |
| | 18x8M6 | 473 | 195 | 127 | 7,08 | 7,08 |

**PROVIDES THE BEST EFFICIENCY IN THE LOADING AND UNLOADING OF THE ELEVATOR**

The conical base also allows for nesting between the buckets, reducing transportation costs and facilitating storage.

- Measurements may have slight variations based on the materials used (PEAD, PA).
- Punching and venting can be taylored according to customer needs.
- Images are for illustrative purposes only. For technical specifications of the products, please request our technical drawings.

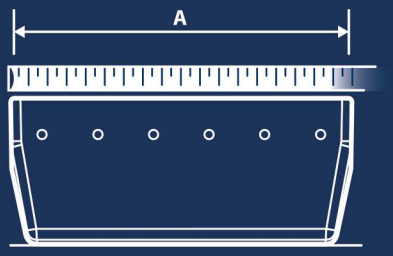
# RELIABILITY

**Safety:** No explosion risk due to sparking.

**Memory Recovery:** Plastic buckets have a post-impact memory factor, a natural property of the polymer to return to its initial state after deformation caused by stress and impact, a characteristic lacking in metal counterparts.

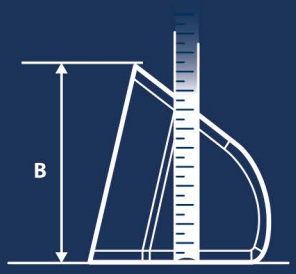
**Maintenance:** The weight loss achieved by using plastic buckets reduces the proportional strain on the belt, shaft (or spindle), and drive mechanism, thus extending the lifespan of these components and reducing maintenance requirements.

## HOW TO MEASURE YOUR **BUCKET**



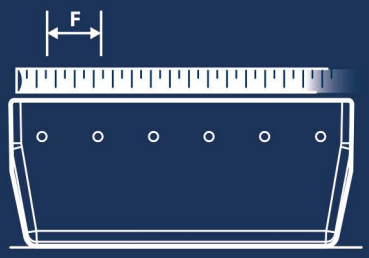

### WIDTH

Measured horizontally on the outer surface of the back.



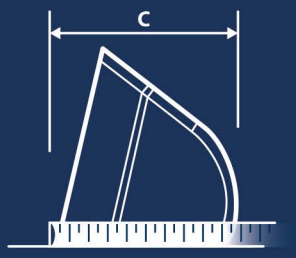

### PROJECTION

Measured vertically with the back supported on a surface.




### BETWEEN HOLES

Measurement from center to center of the holes.




### HEIGHT

Measured horizontally with the back supported on a surface.

**Ucelo** produces over 200,000 units of Plastic Elevator Buckets monthly, providing solutions to customers for their new equipment or replacements. Since 2007, we've been working towards the concept of providing solutions, and in 2016, we took a major step by establishing our Engineering department. Its primary goal is to work consistently on improving three key aspects:

**Polymers:** Through studies and simulations, we select high-performance materials, enabling various applications for our buckets, including grains (soy, corn, wheat, rice, etc.), sugar, fertilizers, among others, in both intermittent and full-scale industrial port operations.

**Structural:** Testing tensile strength, impact resistance, and abrasion resistance, both in the real world and virtually, to strategically apply material mass in the component.

**Geometry:** Using software simulations that mimic the movements of solid particles, we work on enhancing the geometry of our buckets to provide the best transport factor per unit.

## PLEASE CONSULT OUR **ENGINEERING DEPARTMENT.**

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