



Meeting Your Needs in Every Weigh



**Combics Industrial Scales.**

**30,000 steps ahead  
of the competition.**





# Combics Industrial Scales.

## Diversity redefined.

5,000 or 30,000 digital steps, floor or bench, stainless or painted steel, or any combination of the above can be described in a single word: **Combics**. Indicators from basic to custom, clean room to submersible, weight-only to process control... it's the same word: **Combics**. In fact, you may not have a weighing need outside the universe of **Combics** industrial scales.

Consider the advantages in every sector of your business. Operationally identical scales from 10 pounds to 10,000 pounds covering your production needs, quality control, research and warehouse. Every application from parts counting, to batching, sorting or checkweighing, all with functional similarities so that anyone can operate any scale in any department. Diverse operations seamlessly integrated into a single product line: this is the world **Combics** has redefined.

But complete operational integration is only the beginning of the **Combics** story. Accuracy levels unheard of in the industrial scale market ensure your weighing flexibility does not compromise your production standards. At 30,000 digital weight steps, when used with the **Combics** indicator, readability is up to five times more precise than traditional scales.

**Combics** platforms are built to last, with optional 316 stainless steel base construction and ultra-sanitary electropolished weighing surfaces. Every weighing base meets IP65 washdown standards. Optionally, you can equip both base and indicator for the more stringent protection of IP67 or NEMA4X. If safety is paramount, add a painted steel or stainless steel treadplate.

The extended weighing ranges of **Combics** make it perfect for, but not limited to, the following industries:

- Pharmaceutical
- Chemical
- Electronics
- Food and food processing
- Metal production and processing

Government and industry standards met by **Combics** performance and/or construction include:

- HACCP
- FDA
- NEMA
- GLP/GMP

**Combics** accessories are designed to simplify—not complicate—installation. Pit frames ensure proper dimensional criteria are maintained in flush-mounted floor applications. Floor-mounted post display columns keep indicators away from potential damage, or you may use the panel mount kit to integrate the display into existing control boxes.

### **Combics Weighing Components**

(1) Indicators: All stainless steel enclosures with IP44, 65 or 67, or NEMA4 or 4X protection levels.

Choose from a basic gross/net/tare device, over/under, function toggling, memory weighing, or alphanumeric keyboard and graphic display of calculated results. All three feature backlit LCD readouts with a puncture-resistant indicator face.

(2) Bases: Capacities from 10 to 10,000 lbs and up to five-foot square base dimensions, with protection ratings of IP65 or IP67, or NEMA4 or 4X.

Basic construction includes a galvanized frame with stainless steel weighing surface (low capacities) or painted steel frame and weighing surface (high capacities). 100% stainless steel is available on all models in 304 or 316 grade and one or four load cells depending on capacity and desired configuration. Add roller conveyors or low profile ramps to complete the package.

Sartorius has not forgotten our loyal customers who already own high-resolution electromagnetic bases. The new **Combics** indicators are fully compatible with high-resolution IS bases. Expanding your Sartorius scale portfolio to include **Combics** does not mean company employees need to learn two systems. **Combics** scales cover the range from one milligram to 10,000 pounds.



# Combiics Painted Steel Platforms

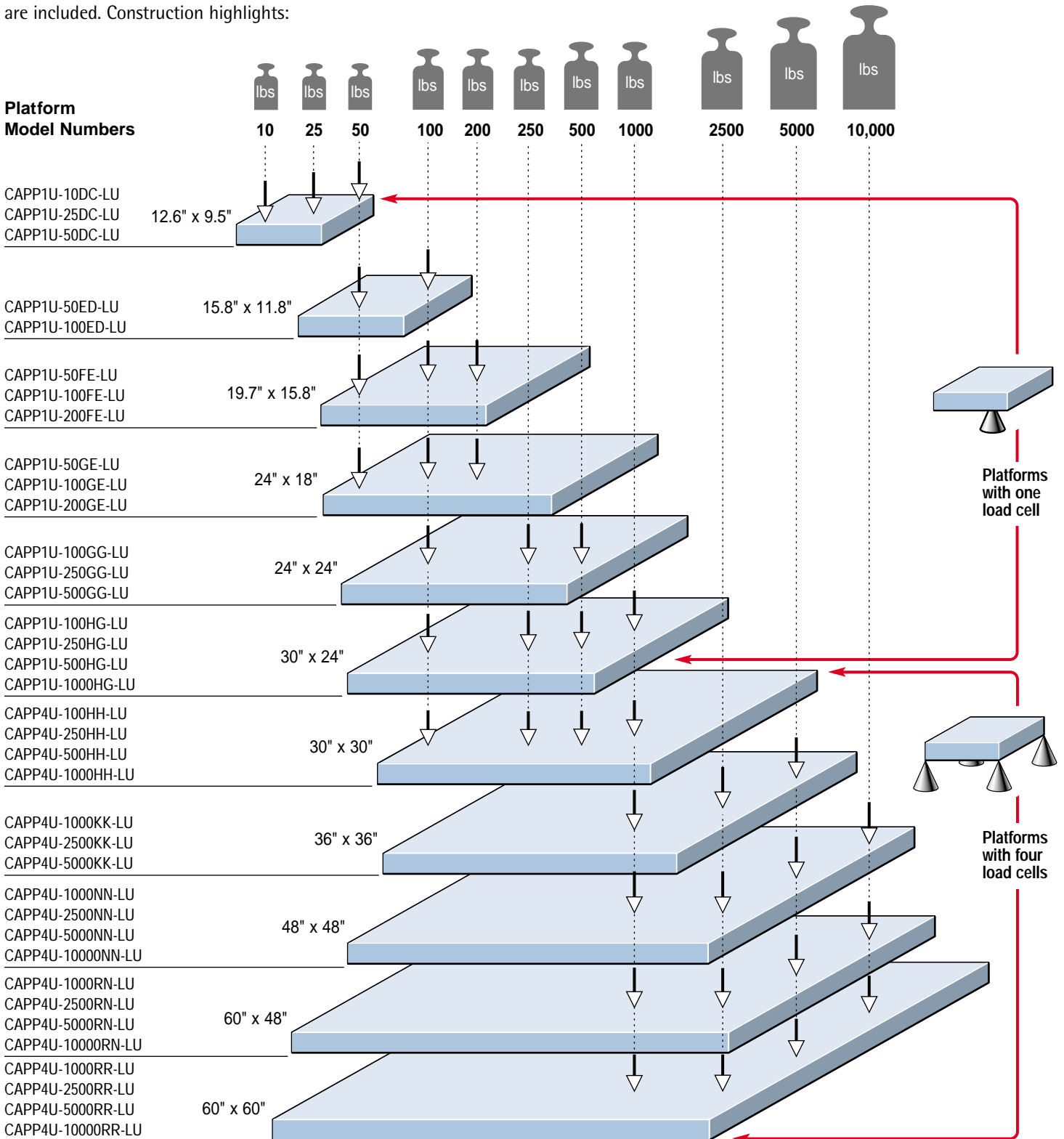
The cost-effective solution for industrial weighing is Combiics painted and galvanized platforms. One or four load cell designs have ample overload protection to keep your production moving and profits growing. Ten foot (low capacity) and twenty foot (high capacity) load cell cables for connection to indicators are included. Construction highlights:

## Standard Construction

- Galvanized frame (low capacity)
- 304 stainless load plate (low capacity)
- Painted steel frame and load plate (high capacity)
- IP65/NEMA4 dust and water protection

## Optional Construction

- 304 stainless load plate (high capacity)
- Painted steel treadplate (high capacity)



# Combics Stainless Steel Platforms

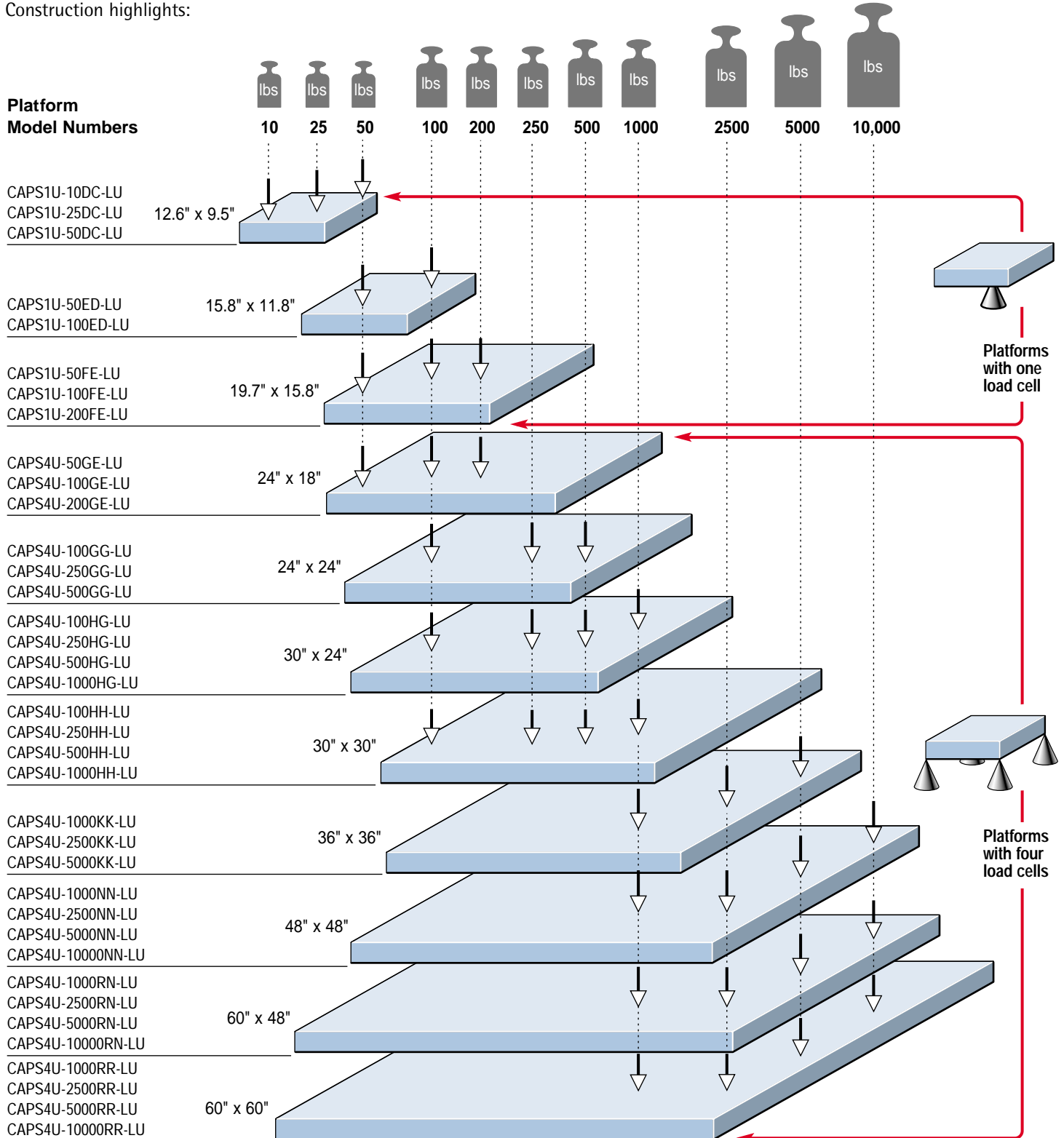
Corrosion resistant stainless steel bases stand up to heavy usage and caustic environments. All scales larger than 20 inches feature four load cell systems. Substitute a 316 stainless steel frame and load plate for excessively caustic environments. Use a hydraulic lift platform for easy cleaning in sanitary applications. Construction highlights:

## Standard Construction

- 304 stainless frame and load plate
- IP67/NEMA4X dust and water protection

## Optional Construction

- 316 stainless frame
- 316 stainless electropolished load plate
- 304 stainless treadplate (high capacity)
- 304 stainless hydraulic lift platform system (high capacity)



# Combics Indicators

The perfect match for a Combics base is, of course, a Combics indicator, offered in three keyboard styles that keep basic weighing fast and complex operations running smoothly. Combics allows you to address your current needs while dramatically increasing your weighing precision.

The secret to weighing accuracy is the ability to complement the characteristics of the weighing platform. The extreme accuracy of the analog to digital circuitry in Combics indicators matches perfectly the requirements of the Combics base. Combics bases and indicators are made for each other. We at Sartorius applied

all our years of experience with high-resolution balance applications, with their millions of displayed and accurate steps of resolution, to the design and production of Combics Scales. The result is a highly accurate and stable match of weighing platforms and indicators with unmatched resolution.

Whether your needs are basic or sophisticated, Combics indicators are ready to answer the call. Combics 1 gross/net/tare indicators are not only affordable but available with full water and dust protection. Combics 2 indicators create the perfect checkweighing or parts counting

system with available dual scale interface and tolerance test indicator lights. Combics 3 makes user input and prompts easy with the alphanumeric keypad and graphic display. Using the "FlexPrint" feature ensures compatibility with virtually any printer or format.

All three indicators are enclosed in stainless steel housings and include an RS-232 COM port for serial communications. Auto tare, weight unit toggling and printer head storage are standard features on every Combics indicator.

## Combics 1



**Catalog No.: CISL1U**  
Protection Rating IP44  
or Protection Rating IP65/  
NEMA4 (with upgrade  
YAS01CISL)

**Catalog No.: CISU1**  
Protection Rating  
IP67/NEMA4X

### Important Features:

- (1) Keys for ON/OFF, zero, tare and print data output
- (2) Function key for
  - Gross/net toggling
  - Toggling between weight units
  - Toggling to 10X higher resolution
- (3) Automatic container taring
- (4) Battery charge status display (with connection of battery pack)

Refer to the Combics Scales Guide and Price List for a complete listing of all platform and indicator accessories.

## Combics 2



**Catalog No.: CISL2U**  
Protection Rating IP44  
or Protection Rating IP65/  
NEMA4 (with upgrade  
YAS01CISL)

**Catalog No.: CISU2**  
Protection Rating  
IP67/NEMA4X

### Important Features:

- All features of Combics 1 plus:
- (1) Platform toggling and four function keys
  - (2) Three built-in LED checkweighing lights
  - (3) Date/time (printout)
  - (4) Bar graph weighing range indicator
  - (5) Application data and totalization memory stored in battery-backed RAM

### Applications:

- (1) Counting
- (2) Checkweighing
- (3) Differential Weighing
- (4) % Weighing
- (5) Gross-Net-Tare
- (6) Sorting
- (7) Totalizing
- (8) Animal Weighing

## Combics 3



**Catalog No.: CISL3U**  
Protection Rating IP44  
or Protection Rating IP65/  
NEMA4 (with upgrade  
YAS01CISL)

**Catalog No.: CISU3**  
Protection Rating  
IP67/NEMA4X

### Important Features:

- All features of Combics 1 and Combics 2 plus:
- (1) Dot matrix graphic display
  - (2) Alphanumeric keypad
  - (3) Key for toggling between weighing applications, and five soft keys with text-supported user guidance
  - (4) Input functions for entering up to four alphanumeric ID texts

### Custom Applications for Combics 3 only:

- (1) Single component batching BASIC
- (2) Single component batching PRO





### Designed for Convenience.

Nothing is out of reach with Combiics weighing systems. Mount your indicator in any manner that fits your job. Use the post-mounted display for eye-level filling or a base-mounted checkweigh weighing indicator. Wall-mounted displays provide "across the room" readability or integrate into other control systems using the optional panel mount installation.

No matter where you place your indicator, be confident visibility will never be an issue. Nearly one-inch high LED weight-indicating digits are clearly viewed from any angle. Even in a darkened room environment or behind tall warehouse shelves, the backlit amber display cannot be missed. Outdoor uses in direct sunlight will not "wash out" the weight or other display data.

### Tough as Nails.

With all its precision, Combiics is right at home on the production floor. Determine the smallest flaws or inconsistencies in process samples. There is no need to interpolate columns of numbers. Get results at a glance using the built-in under/OK/over indicator checkweigh lights.

With Combiics, you are not restricted to a single capacity/platform combination. Use the size that is appropriate for your samples: larger for bulky lightweight samples or smaller for dense metallic items. Either way, you never sacrifice the precision you need simply because your samples are too large to fit on traditional scale bases.





**gwt** 

 **sartorius**

**BOEKELS**

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