



TAWI
Protema

CR80





CR80

– The waterproof lift

The stainless steel powered lift Clean Room 80 is manufactured by TAWI and designed to operate in the most demanding environments and to withstand the rigorous sanitation requirements of food processing, chemical, pharmaceutical, biological, or nuclear work areas. The smooth surfaces and seamless design allow only a minimum of particle accumulation. This lift withstands high pressure washing and the use of alkaline solvents owing to the closed construction.

In meeting the high requirements of the IP 65 our design philosophy has been to create a highly reliable lifting aid that can be operated safely in difficult environments. The result is a combination of endurance and elegance; the Protoma CR80.

Design

Every last detail, form and function has been scrutinized to:

- guarantee long service life
- repel dust
- allow for thorough hosing down
- provide the latest ergonomic features
- encourage everyday use of lifting aids
- please the eye!

The platform quick-coupling

The CR80 and all available platforms and other accessories are equipped with a quick-coupling system. The operator can change the platform in no time and the lift can be used to serve several working stations.

The lungs

A very thin Gore™-membrane ventilates the closed construction.

The rocker control

The platform travelling motion is operated with a rocker control on the handle. The handle and control have both been carefully designed to achieve the utmost in ergonomics.

The "through-chassis" concept

The ingenious construction, with an opening for the drive belt straight through the chassis, allows for everyday cleaning of the lifting mechanism with all electronics safely enclosed.

The wheels

With outstanding hygienic properties and high quality bearing and locking concepts the CR80 wheels run effortlessly and stand securely.





Meeting the IP65 requirements

The IP65 regulations are encapsulation requirements applicable to products with high reliability requirements and where the entry of dust or water could cause problems. IP-classification testing is normally carried out in accordance with the global IEC 60529 standard or its European equivalent, EN 60529.

For some industries the fulfillment of these regulations are a demand. For many other industries, a powered lift which can be hosed down is a dream come true. Furthermore we have also decided to please the maintenance department by installing all electronics on to the inside of the chassis bottom cover. When the cover is removed, the heart of this machine literally comes out served on a platter.



Example of industry where the IP65 regulation demand applies.



*Smooth surfaces and polished
welds, hygienic and safe.*

The Protema lifter with lungs

The CR80 is basically designed to fulfill the encapsulation regulations for electronics. The result is a completely closed construction. How does one ventilate a closed construction? Our sporty design team decided to glance at the techniques of the textile industry. A very thin Gore™-membrane now covers the ventilation opening of the CR80.

The CR80 and all available platforms and accessories are equipped with a quick-coupling system. The operator can change tools in no time and the lifter can be used to serve several working stations. The platform travelling motion is operated with a rocker control on the handle. The handle and control have been carefully designed to achieve the utmost in ergonomics.



The Gore™-membrane ventilation.

*The quick-coupling function: turn the knob and remove the tool.
The alternative tool is installed using the same technique.*



From above: the closed construction of the chassis with the "through-chassis" concept.

The "through-chassis" concept

A traditional powered lift is equipped with a chained sleigh to which the platform is attached. A battery-operated motor turns a shaft which, in turn, enforces the chain to move, thus moving the platform.

On the CR80 the chain has been replaced with a water resistant textile belt, with the characteristics of a seat belt. To secure the sealed construction and allow for everyday cleaning, our design team created an opening for the belt straight through the centre of the chassis where it is connected to the motor shaft. The shaft entrance to the motor is water/dust resistant and inside the chassis a twin chamber provides an extra safety precaution to further prevent any disturbance to the sealed environment. The smooth surfaces and polished welds in addition to carefully calculated draining angles ensure effective water runoff.

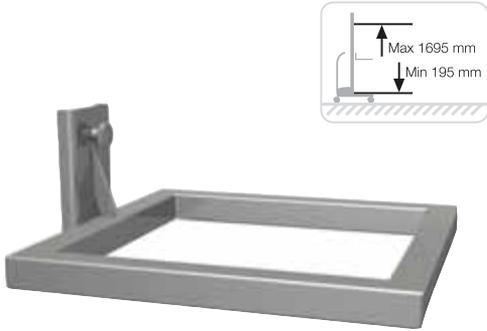
The CR80 is available in two versions: CR80 and CR80 low-built. The basic version is equipped with four (design-award winning) casters for optimum manoeuvrability. The low-built version is designed to pass freely under EUR-pallets. The two smaller front wheels in fixed configuration increase the flexibility when positioning the legs under a pallet.

The variable speed operating control conforms with the latest ergonomic guidelines.

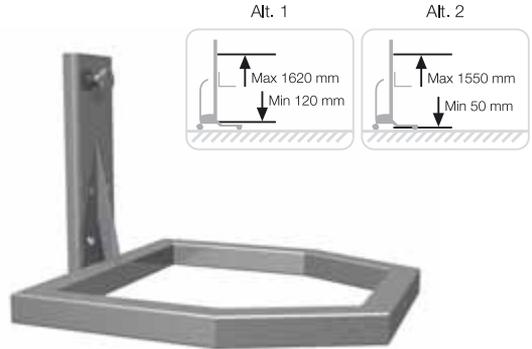


The design-award winning precision rolling casters that make positioning and transportation of goods with the CR80 easier than it has ever been.

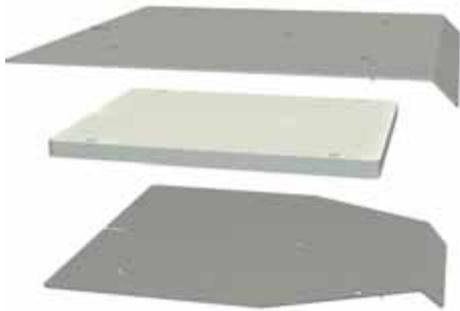
Accessories



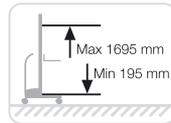
1. Frame 8830 for platform 8831A/8831B (410x400 mm).
Including quick-coupling system.



2. Frame 8832 for platform 8831C (410x400 mm).
Including quick-coupling system.



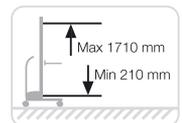
3. Top: Platform 8831A in stainless steel for frame 8830 (480x460 mm). Centre: Platform 8831B in HD polyethylene (debrin) for frame 8830 (480x430 mm). Below: Platform 8831C in stainless steel for frame 8832 (415x404 mm).



4. 8845, foldable platform with forks (548x435 mm).
Including quick-coupling system.



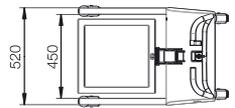
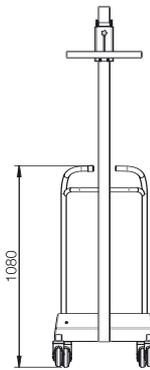
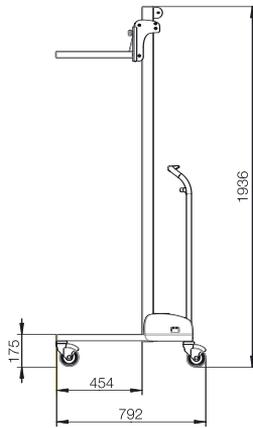
5. V-block 8161A (stainless steel)
and rotating plate 8162A
(HD polyethylene) for rollhandling.



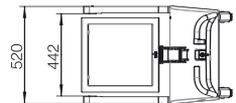
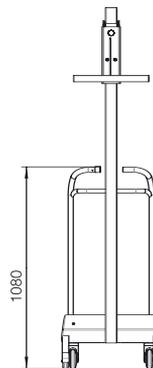
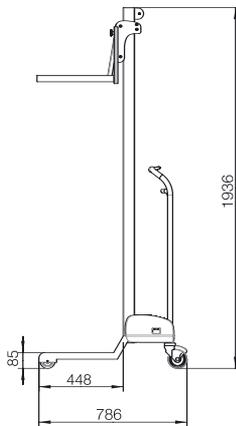
6. Boom 8840 for rollhandling (500xØ63,5 mm).
Including quick-coupling system.

Technical info

CR80



CR80 low-built (Legs fit under pallet.)



Model	CR80/CR80 low-built
Capacity	80 kg
Weight	34 kg
Battery	24 V/7,2 Ah
Drive	Belt
Velocity	Variable (appr 0,1 m/s)
Control card	Yes
Lifts/charge	80 kg/1 m/100 times
Operator control	Rocker control
Stroke	1500 mm
Adjustable width between legs	No
Number of motors	1
Charging procedure	Minimum 8 hrs after each 8 hr shift

For over eighty years, TAWI has been supplying a complete line of products for industrial handling of lighter goods. TAWI's VacuEasylift, TawiLift manipulators, Lyftman LR-Rail and Protema lifts all represent different techniques for safe, efficient and economical handling of goods. Flexibility is a key aspect in everything we do. Our basic systems offer a variety of solutions to every lifting situation. Each one can be used individually, combined with one another or fitted to complement other material handling systems.

TAWI's international subsidiaries and agents provide us with the insight into customer demands wherever they appear. Adapting to create new applications is an ever-on-going process which strengthens our position as market leaders within industrial handling of lighter goods.

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