

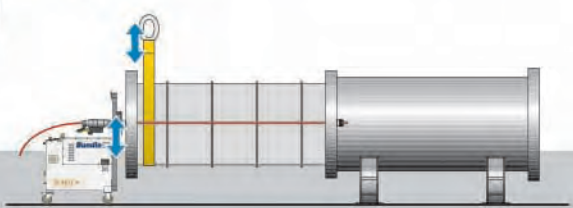
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Pavone - Italy



Patented **hicos** system to compensate the crane oscillations on the Y axis.

The patented **hicos** system allow the **Bundle-Matic** to make rapidly, accurately and safely the insertion of the bundle.







## BundleIN

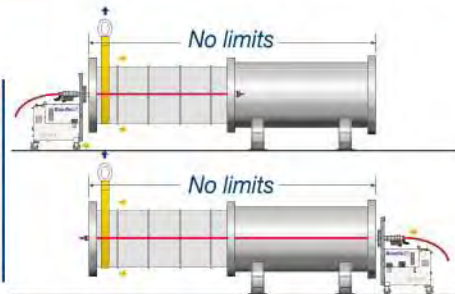
Tube bundles inserter for heat exchangers with patented **ICOS** system to compensate the crane oscillations on the Y axis

According to the heat exchanger manufacturers, the insertion of long and heavy tube bundle floating inside the shells is one of the most challenging steps of the assembly cycle.

With the **BundleIN**, Maus Italia proposes an equipment that can solve this kind of problem in a fast, accurate and safe way.

Once the fixing point of the ropes are attach to the shell the **BundleIN** is able to insert the tube bundle at a speed of 2m/min (6.5 Ft/min)

The generated coaxial force of 60 T (132300 Lb) adjustable leads the tube bundle inside the shell smoothly and safely.



— Traction rope



Up to  
**60 Ton (132300 Lb)**

## BundleIN

Tube bundles inserter for heat exchangers.

The **BundleIN**, together with the gantry crane, enables to solve the problem of a **fast, accurate, and safe** insertion.

The original functioning based on two **synchronized hydraulic guns** stretching two steel wire ropes makes it possible to apply it to **tube sheets regardless of length limits** with the following main features:

- **Tube sheet max diameter limitless**
- **Tube bundle max length limitless**
- **Max load capacity limitless (according to the gantry crane)**
- **Max pulling force 60 T (132200 Lb)**
- **Max insertion speed 2 m/min (6.5 Ft/min)**

## Mef shopIN

Fixed station tube bundle heat exchangers inserter/extractor.

The **Mef shopIN** is an **independent machine** — **no gantry crane required** — and it enables to solve the problem of **fast, accurate, and safe insertion and extraction**.

The Maus Italia expertise in **manufacturing extractors (aerial, self-positioning and off-shore extractors)** made it possible to create a machine dedicated to modern companies manufacturing heat exchangers with the following main features:

- **Tube sheet max diameter 2000 mm (78")**
- **Tube bundle max length 7500 mm (295")**
- **Max load capacity 22 T (48500 Lb)**
- **Max thrust/pulling force 35 T (77100 Lb)**
- **Max insertion/extraction speed 1,5 m/min (4.9 Ft/min)**

Maus Italia (an **ISO 9001 certified company**) is able to provide **entirely customized Mef shopIN** according to the customers' requests.

