

CT240 AUTOMATIC TUBEFILLER

FOR PHARMACEUTICAL, COSMETIC AND CHEMICAL PRODUCTS



A COURSE OF CONTINUOUS GROWTH



IT WAS IN 1970 THAT COMADIS LAUNCHED THE FIRST OF A SUCCESSFUL TUBEFILLERS SERIES. SINCE THEN, MORE THAN 3.000 MACHINES HAVE BEEN SUPPLIED ALL OVER THE WORLD, AS A RESULT OF CONTINUOUS TECHNICAL COMMITMENT COUPLED TO A REWARDING OPERATING MENTALITY - ALWAYS ORIENTED TO CUSTOMER FEEDBACK AND SATISFACTION.

SINCE THE BEGINNING, COMADIS TUBE FILLING MACHINES HAVE BEEN MARKED BY SIMPLICITY IN CHANGE-OVER SEQUENCES, QUICK DISMOUNTING OF CONTACT PARTS AND INTUITIVE OPERATOR INTERFACE: WE ARE PROUD TO OFFER CONTINUOUS IMPROVEMENTS AND ADVANCES IN TECHNOLOGY TO OUR MACHINES IN THE RANGE OF 1.500 TO 15.000 TUBES PER HOUR.

A COURSE OF CONTINUOUS GROWTH, THAT IN TIME BROUGHT COMADIS TO GAIN AN ENVIABLE EXPERIENCE IN THE FIELD, TESTIFIED BY THE MULTITUDE OF BOTH LARGE AND SMALL CUSTOMERS. A VALUABLE REPUTATION TO BE PROUD OF, TO BRING AS A HERITAGE IN ANY NEW PROJECT WE APPROACH.

CT240 AUTOMATIC TUBEFILLER

MARKED BY A GENUINELY IMPRESSIVE REAL OUTPUT, THIS “LARGE SIZE” MODEL PRODUCES MANY TENS OF THOUSANDS OF FILLED TUBES EACH PRODUCTION SHIFT, WITH THE BENEFIT OF A TRIPLE NOZZLE CONFIGURATION THAT HAS BEEN CONTINUOUSLY IMPROVED AND UPGRADED ALONG THE YEARS.

AN ENVIABLE EXPERIENCE IN VARIOUS APPLICATIONS, WIDE SELECTION OF CONFIGURATIONS (INCLUDING ROBOT FOR TUBE UNLOADING) AND THE LEGENDARY COMADIS’ EASY CHANGEOVER MAKE THIS MODEL CAPABLE TO COMBINE HIGH PERFORMANCE WITH FLEXIBILITY.



HI-SPEED TUBEFILLER
FOR PHARMACEUTICAL, COSMETIC,
CHEMICAL AND FOODSTUFF PRODUCTS

CT240 AUTOMATIC TUBEFILLER



THE OUTPUT

- Up to 240 metal, polythene, laminate and polyfoil tubes/minute..

DOSING SYSTEM

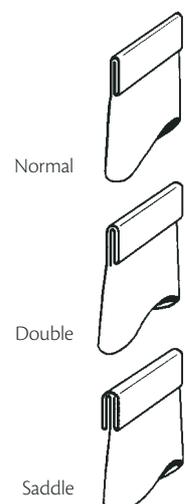
- Adjustable stroke **triple diving nozzle**, servo-controlled by brushless motor, with positive shut-off valve and nozzle cleaning by air blow.

DESCRIPTION

- Machine base frame, safety guards frame and electrical cabinet made of **stainless steel**.
- **15-position** turntable with indexing drive by Ferguson style intermitter.
- **Direct drive** of main shaft without chains, by directly connected gearmotor.
- **Centralized lubrication** system.
- **Safety devices** for tube feeding, filling, closing and ejection, as well as for machine overloads.
- Simplified and easy change of size parts, **without tools**.
- **Easy access** from all the four machine sides for maintenance and cleaning.
- **Automatic positioning** of closing/sealing head in relation to tube length (patented).
- **Electrical cabinet** integrated within machine footprint, hinged and completely insulated from mechanical drive.
- Machine functions control and management by **PLC**.
- Machine **speed adjustment** from operator panel (HMI) by means of inverter.
- Programmable **"touch screen" colour panel** (HMI), suitable to

FOLDS

Closing folds
for metal tubes



perform the digital adjustment of following working parameters:

- machine speed
- machine phases
- hopper temperature
- hot air temperature
- air blow pressure for nozzle cleaning
- hot air pressure

with capability to memorize set values according to tube sizes (by recipes).

Also showing:

- machine alarms
- troubleshooting of faults
- timers and counters.

- **Tube loading** by :

- integrated cassette feeder (twin hopper)
- independent ergonomic feeder
- fully robotized feeder CR1

They are all positioned outside machine working area as per GMP norms.

- **Conical tubes** feeding.

- **Tube cleaning** by adjustable airblow and dust aspiration device by vacuum.

- Automatic **print registration** by step-motor, available in both above and bottom drive executions.

- **Bar-code** reading device (pharmacode).

- **Nitrogen** flushing before and after filling.

- Easy-to-disassemble product **dosing pump**.

- All **parts in contact** with product made in stainless steel AISI 316, 280 grains polished.

- Dosing **accuracy** $\pm 0,5\%$.

- Adjustment of **filling volume** by handwheel or automatic from operator panel (HMI) with possibility to get «feed-back» function from checkweigher (checkweigher not included).

- **Heated hopper** with forced water circulation in closed circuit.

- Stainless steel product scraper **stirrer** with drive from inside machine base.

- Adjustment of **air blow** for nozzle cleaning from control panel.

- Additional dosing unit for **sodium bisulphite** anti-oxidant drop dispensing.

- Hopper for **product feeding by pressure**.

- **Double swivelling support** for quick change of parts in contact with product.

- **Metal tube closing** unit for normal, double and saddle fold.

- Thermosealing of different polythene (PE), laminate (ABL-PBL) and polyfoil tubes with following technologies:

- **hot air, hot jaws, high frequency**

- Possibility to obtain customized «**designer seals**».

- **Quick change** of closing / sealing systems by easy replacement of just a small portion of closing head (to pass from aluminium to polythene and laminate tubes, and vice versa).

- **IQ-OQ** - Validation documentation.

SPECIAL EXECUTIONS

- Handling of tubes with different body shapes such as **unidoses, cannulas and vet syringes**.

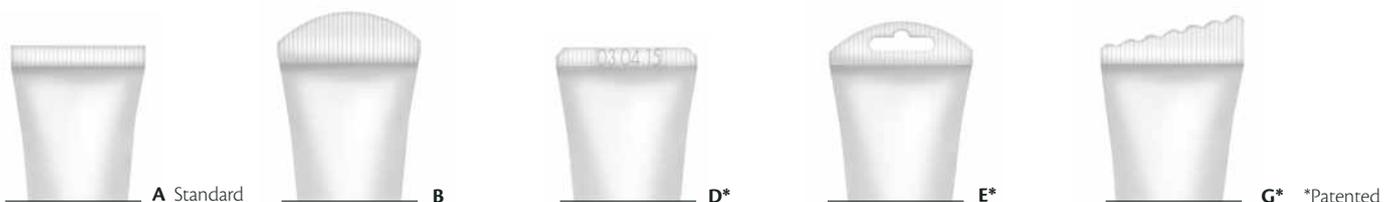
- Configuration suitable for **sterile areas** with laminar flow unit.

- **Laser engraving** unit, with possible vision system to control the correct marking.

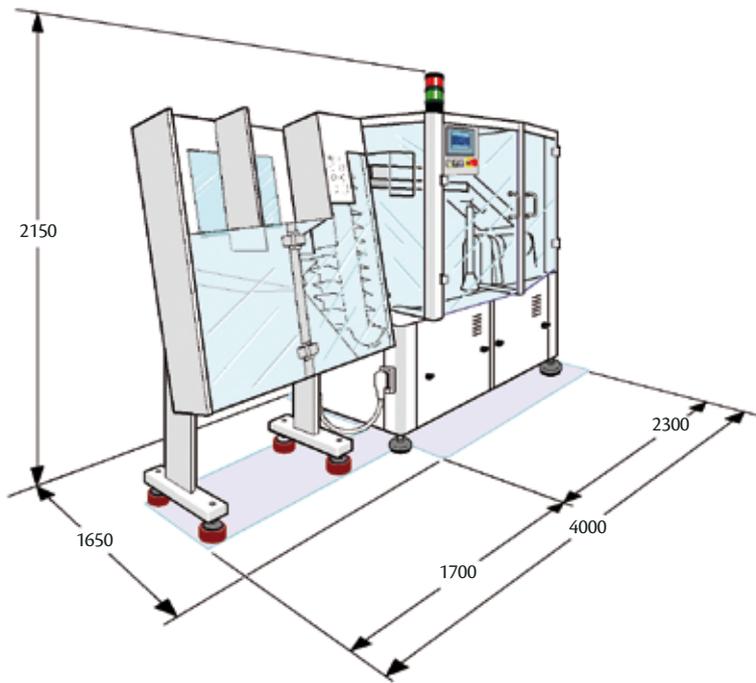
- **Explosion-proof** execution according to **Atex** standards.

SEALS

Some seal shapes for polythene or laminate tubes obtainable by hot jaws or hot air technologies

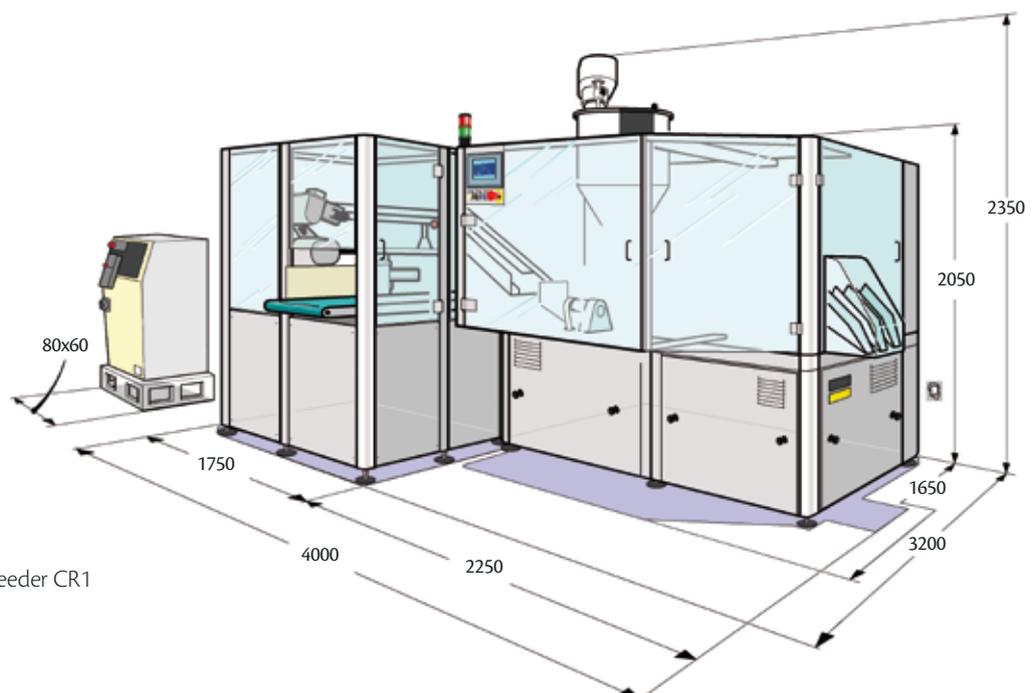


CT240 TECHNICAL DATA



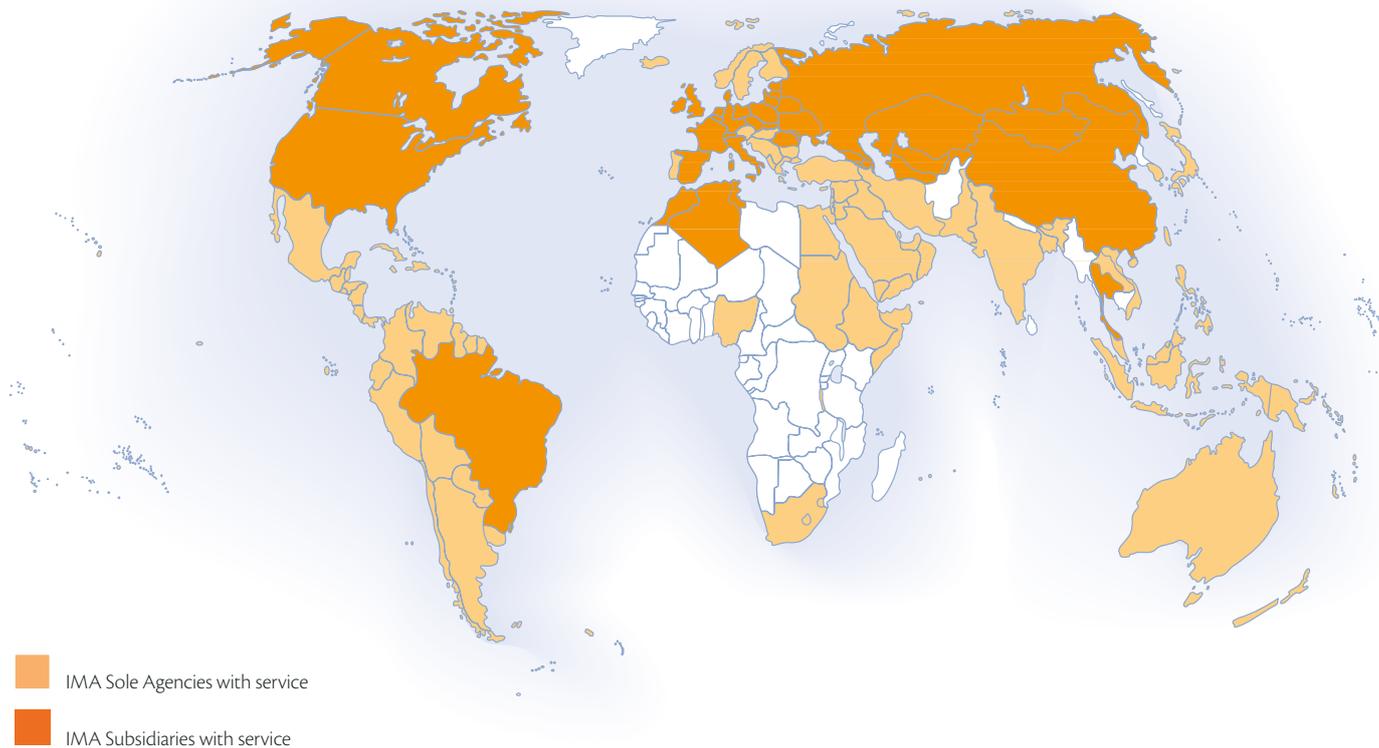
With independent ergonomic tube feeder

Maximum speed	240/min
Filling volume	2-250 ml - on request up to 500 ml
Tube diameter	10-40 mm
Tube length	60-250 mm
Power consumption	
Main motor	3,7 Kw
Diving nozzle	1,9 kW
Head positioning	0,4 kW
Ergonomic feeder	0,6 kW
Tube conveyor belt	0,5 kW
Tube tilting-separating	3,2 kW
Scraper stirrer	0,3 kW
Heated hopper	1,5 kW
Print registration	0,8 kW
Vacuum cleaning	1,1 kW
Hot jaws	4,0 kW
Hot air	9,0 kW
High frequency	5,0 kW
Compressed air	6 bar - 160÷360 NL/min
Cooling water	7 L/min
Noise level	below 79 dB (A)
Export packing	
Approx. dimensions	380 x 230 x h 240 cm
Approx. weight	2.000 kg



With fully robotized tube feeder CR1

TECHNICAL ASSISTANCE



IMA UNDERSTANDS THE NEED FOR EXCELLENT SERVICE AROUND THE WORLD

- PRESENT IN OVER 70 COUNTRIES
- 10 BRANCHES PROVIDING SALES AND SERVICE
- MORE THAN 50 REPRESENTING AGENCIES
- 90 TECHNICIANS FROM ITALY TO SUPPLY WORLDWIDE SERVICE
- 50 TECHNICIANS FROM LOCAL SUBSIDIARIES AND AGENCIES
- 11 AFTER SALES SUPERVISORS

IMA SAFE provides prompt and effective technical assistance which covers the entire life cycle of its equipment. This assistance is provided by a dedicated team of experts who are able to meet our client's needs on a day to day basis. A customer oriented after sales service staff is what distinguishes IMA from the rest of the world.

ORIGINAL SPARE PARTS ARE VITAL TO ASSURE THE CORRECT AND PROPER FUNCTIONALITY OF IMA SAFE EQUIPMENT. SPARE PARTS ARE ALWAYS AVAILABLE AND CAN ARRIVE AT THE CLIENT'S SITE WITHIN 24/36 HOURS.

DOCUMENTATION AND VALIDATION

In the pharmaceutical industry, the validation of a production process implies the provision of documented evidence to demonstrate that the process is capable of producing a consistent product which conforms to predetermined specifications and quality criteria.

Upon request IMA Safe CO.MA.DI.S. will provide customers with a comprehensive package of documentation to support on-site validation procedures in the most simple and fast way. Different packages are available according to individual requirements.

www.ima.it

CO.MA.DI.S. S.p.A.

Via Piemonte 32/34/36 - 20030 Senago (Milano) - Italy

Tel +39 02 99010284 - Fax +39 02 99010803

www.ima.it - sales@comadis.ima.it