



## **KE** IMPACT EXTRUSION PRESSES



Balconi was founded in 1939 in Milan where it started the production of precision fly presses. In 1962 it moved to its current headquarters in Varedo with the manufacture of eccentric and high-speed presses as well. Manufacture of horizontal knuckle-joint presses for the extrusion of non-ferrous materials started in 1975. These presses are mainly used in the electric industry for battery cases and condensers, in the packaging industry for tubes and cans and in the automotive industry to produce technical parts. Balconi KE impact extrusion presses are manufactured in different capacities up to 20.000 kN force for the maximum speed of 330 strokes per minute. Balconi also produces special high speed presses for slug blanking. Balconi stands out for its flexibility and capacity of designing and manufacturing presses to meet the needs of every single Customer and to customize its machines to satisfy any specific production requirement.



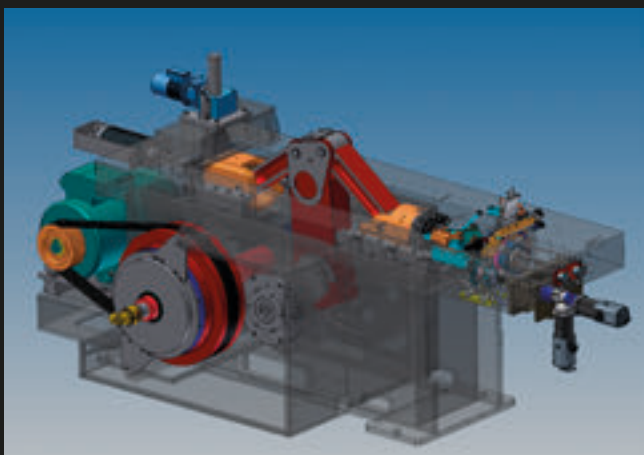
#### KE RANGE

TECHNICAL SPECIFICATIONS	KE 100 - 150	KE 100 - 200	KE 100 - 300	KE 150 - 350	KE 200 - 360	KE 250 - 375	KE 315 - 390	KE 400 - 400	KE 2000 - 800
Force (kN)	1.000	1.000	1.000	1.500	2.000	2.500	3.150	4.000	20.000
Press speed (spm)	100 - 330	100 - 260	100 - 240	100 - 220	100 - 210	75 - 210	75 - 200	80 - 180	16 - 35
Ram stroke (mm)	150	200	300	350	360	375	390	400	800
Ram adjustment (mm)	10	12	12	12	12	15	15	15	30
Max tube/can Ø (mm)	30	30	30	45	50	53	66	75	220
Max tube/can length (mm)	80	135	200	240	240	250	280	290	600

# KNUCKLE-JOINT EXTRUSION PRESSES



The press kinematics is designed with a modified knuckle-joint system in order to obtain a 30% reduction of the impact speed of the punch compared to the traditional system. This assures a better extrusion of the can and less wearing of punch and die therefore a reduction of production costs.



Balconi extrusion press is a horizontal press with modified knuckle-joint-drive. Working surfaces of the knuckle-joint are ground and work on special bronze alloy bushings of high hardness. Welded steel frame is particularly rigid. Its upper part, which supports the extrusion load, is made in one steel piece. Driving area, separate from the working one, is closed and protected against dust and external parts.

#### Key features

- AC variable speed motor controlled by inverter
- Flywheel mounted on rolling bearings
- Combined pneumatic or hydraulic clutch and brake unit
- Driving gears are assembled on their respective shafts by hydraulic tight fit without any key ways
- Adjustable oversized ram guides keep the ram always centered with resultant constant alignment between punch and die
- Option for high precision hydrostatic ram guides
- Press lubrication with continuous oil recirculating system
- Separate lubrication systems for ram guides and kinematics
- Ram adjustment during press running
- Slug feeding, unloading drum and parts exit conveyor are driven by servomotors
- Unloading drum can be easily set up for different tube/can diameters
- Free standing main control panel with alarm display
- Latest generation Siemens PLC
- Tailored to any specific customer need



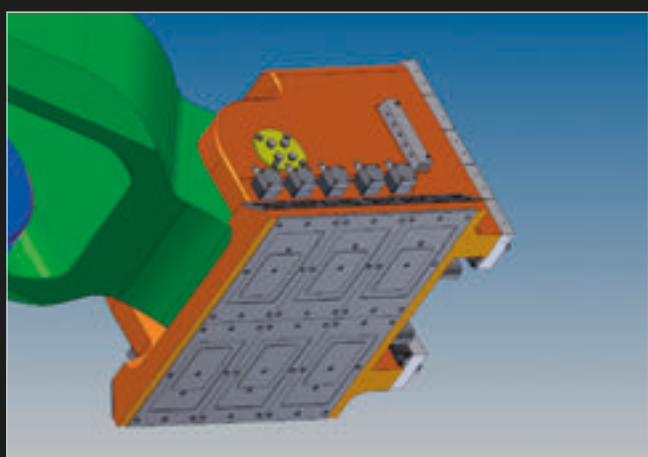




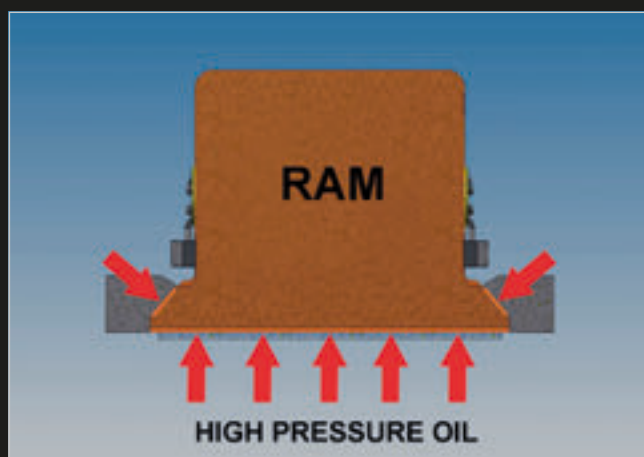
Siemens PLC control panel



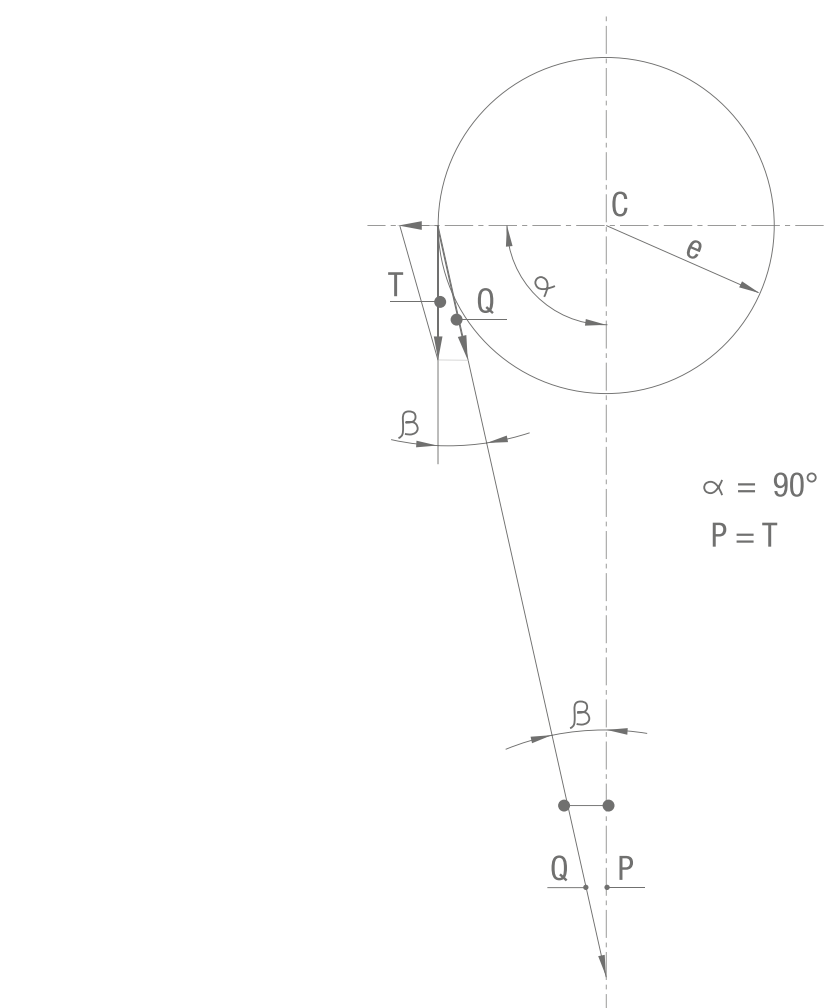
Tubes/cans unloading drum



Hydrostatic ram guides



Hydrostatic ram guides



La perfezione ci guida  
We are guided by perfection



BALCONI Pressecentriche S.p.A.  
 Via Circonvallazione, 195  
 20814 Varedo (MB) - Italia  
 tel + 39 - 0362 - 536.1  
 sales@balconi.it - www.balconi.it