



HIGH-SPEED PRESSES
FOR ALU-SLUGS, STEEL WASHERS
AND COIN BLANKS



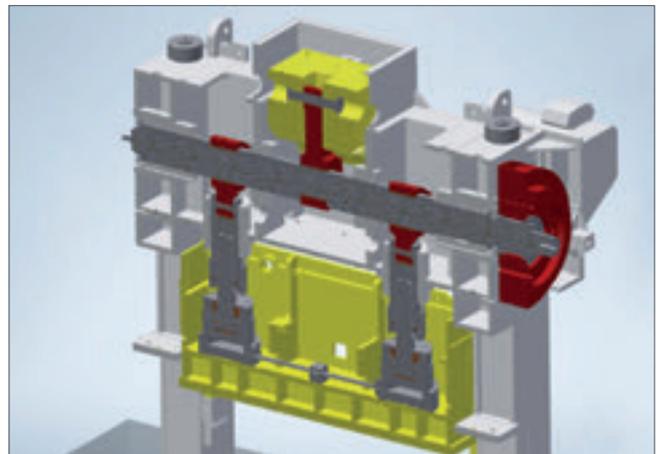
Key features

- Specifically designed to meet customer requirements
- High reliability in processing different types of materials (e.g.: aluminum, steel, high tensile steel, nickel steels, copper alloys especially with high thicknesses)
- High production rates
- Flexibility and performances to ensure high productivity
- Quick die change
- Balconi Plunger System to assure a high precision, constant vertical ram guiding
- Industry 4.0 ready
- Rigid press frame
- Very low bed and ram deflection
- Flywheel running on roller bearings
- Combined pneumatic or hydraulic clutch and brake unit
- Press lubrication with continuous recirculating oil system
- Elastic balancing cylinders to close the gap of the vertical moving masses
- AC variable speed motor controlled by inverter
- Each machine can be configured with a variety of different equipment, i.e.:
 - dynamic balancing system
 - lubrication with thermal stabilization
 - shock-absorbers
 - latest generation Siemens PLC+TIA Portal

Model	Force kN	Ram stroke mm	Speed s.p.m.	Table size mm	Ram size mm	Shutheight mm	Ram adjustment mm
2DM-100	1000	40	150 - 350	980 x 830	900 x 750	300	60
2DM-160	1600	50	70 - 320	1160 x 1000	1100 x 860	500	75
2DM-200	2000	70	70 - 250	1300 x 1100	1200 x 900	500	75
2DM-315	3150	50	100 - 220	1500 x 1100	1500 x 1000	450	50
2DM-630	6300	40	60 - 260	2000 x 1000	2000 x 1100	630	100
2DMhs-80	800	35	200 - 600	1000 x 780	1000 x 650	350	60
2DMhs-125	1250	40	125 - 500	1160 x 830	1100 x 600	380	60
2DMhs-125	1250	74	100 - 300	1400 x 1000	1400 x 700	400	75
2DMhs-160	1600	50	200 - 600	1200 x 1000	1150 x 850	300	100
2DMhs-200	2000	50	200 - 600	1300 x 1000	1250 x 900	300	100
2DMRV-315	3150	70	50 - 200	1200 x 1000	1190 x 900	550	100
2DMRV-400	4000	70	45 - 180	1400 x 1000	1400 x 1000	550	100



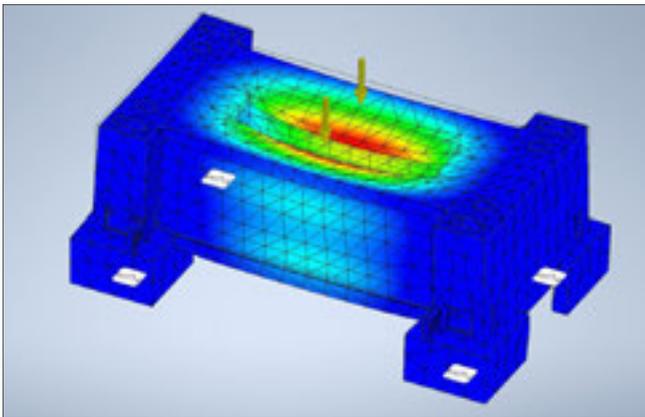
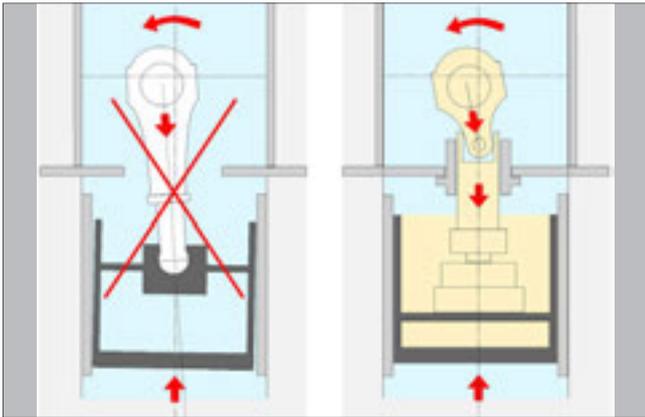
Dynamic balancing of the moving parts with counter-weights



Dynamic balancing system reduces the effects of the inertia forces due to moving parts: connecting rods, ram and upper part of the die. This system allows the press to work at higher speed at low level of vibrations.

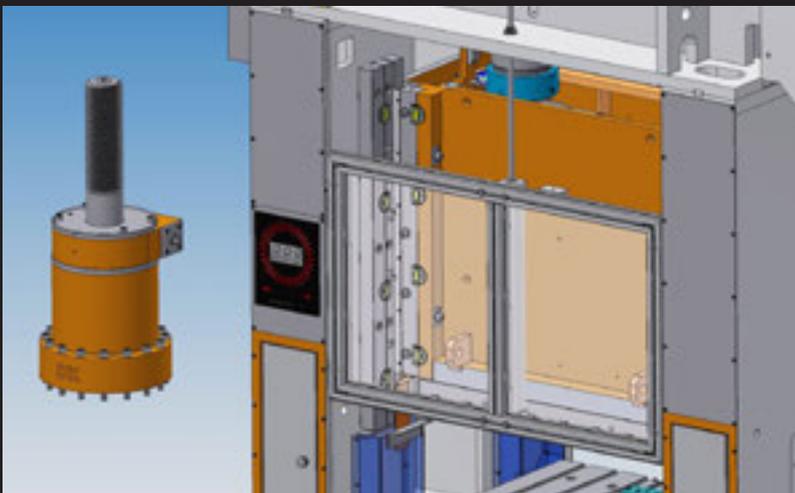
Balconi Plunger System

Ram guiding is assured by Balconi Plunger System. This part supports lateral thrusts of crank mechanism allowing a more accurate and constant vertical ram guiding, minimum wear of slide gibs and a better slide to bed parallelism than with conventional ram guiding systems.



Rigid press frame

High press frame stiffness assures minimum bed deflections under total load giving a better press running, longer die life and a better accuracy of the blanked parts.



Quick lift system

Ram can be moved 100 mm upward by means of two hydraulic cylinders to allow fast die inspection and press release as well.



Elastic balancing cylinders

Elastic balancing cylinders to close the gap of the vertical moving masses.

Recirculating lubrication system with oil conditioning

Lubrication of all working points is assured by recirculating oil system with total recovery of the lubricant.

Oil temperature is kept under constant control by a thermo-chiller (to heat the oil when the temperature is low and to cool it when hot). With such a system a better lubrication is assured and unequal frame dilations are avoided for a better and more accurate running.



Balconi was founded in Milan in 1939 where it started the production of precision fly presses. In 1962 it moved to its current headquarters in Varedo (10 km north of Milan) with the manufacture of eccentric and high-speed presses as well. At the beginning of the 80's Balconi began the production of presses specifically designed for the production of aluminium slugs, steel washers, coin blanks and high-volume stamping parts. Balconi is well known 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 to ensure low operational costs and top-quality products. In any field requiring high-level of precision, reliability, productivity and flexibility with low management costs, Balconi is able to design and propose efficient machines with innovative technological solutions to fulfill the highest production standards.

Thanks to the designing, fully internally developed with modern IT equipment, to the continuous investments in new generation machine tools, to first-rate materials, highly-skilled workers, technological know-how and a long consolidated experience of over 80 years, Balconi can keep all the supply chain under control, assuring continuous quality improvement of the manufactured machines.



