

TERENZIO

PRESSES SINCE 1934. A PERSICO COMPANY

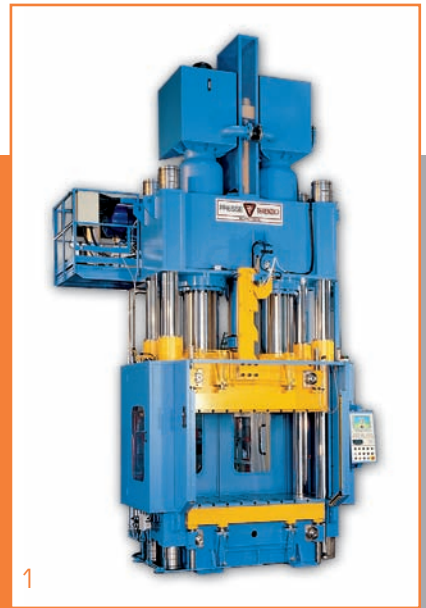
Presses **KOMPO**
for SMC | BMC | GMT | LFT



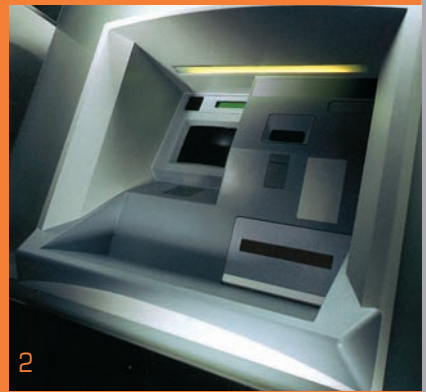
KOMPO presses for SMC and BMC



Frame press KOMPO 3000 SMC
Platens 3400x2500
with control of parallelism



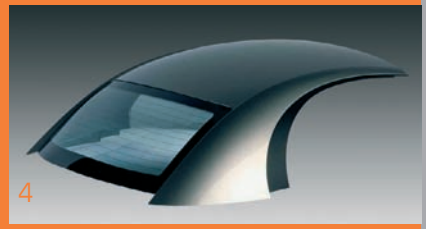
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- 1. Column press KOMPO 800 SMC
- 2. Frontal panel of cash-dispenser
- 3. Truck footboards
- 4. Hard-top
- 5. Truck cabin roof

The main features of KOMPO presses for SMC and BMC:

- > Rugged structure (on columns or frame according to the dimension).
- > Fine control of the processing phase thanks to the five steps of the speed profile (according the position) and eight steps of the force profile (according the time).
- > Fine control of mould temperature by means of analogical units using PID function.
- > Mould opening with three steps of speed profile (slow-fast-slow).
- > Control of all the press functions by an Industrial Touch Panel with the following functions:
 - Mould library
 - Production management
 - Quality control
 - Diagnostic
 - Alarms management
 - Heating weekly programming
 - Modem for teleservice
- > Variable displacement pumps (energy saving) with electronic integrated for the control of pressure and speed in close loop.
- > Pneumatic and hydraulic connection of mould ejector cores.
- > Pre-arrangement for vacuum cycle.
- > Active or volumetric control of the parallelisms by PLANAR® which allows:
 - even thickness of the mouldings also in the presence of asymmetric loads
 - fitting of multiple moulds
 - IMC technology (In-Mould-Coating)
 - parallel opening of the mould
- > Lower and upper ejectors bars front/rear or inside the platen.
- > Floating platen with hydraulic guide blocks (only on frame design).



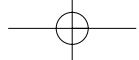
Column press KOMPO 1200 SMC
Platens 2600x1850



Frame press KOMPO 2000 SMC
Platens 3000x2500
with control of parallelism



Bumpers and fenders



KOMPO Presses for GMT and LFT



KOMPO 3000 GMT
Platens 3400x3000
with PLANAR



1.2.3 : Cars underbodies

Main features of the KOMPO presses for GMT and LFT

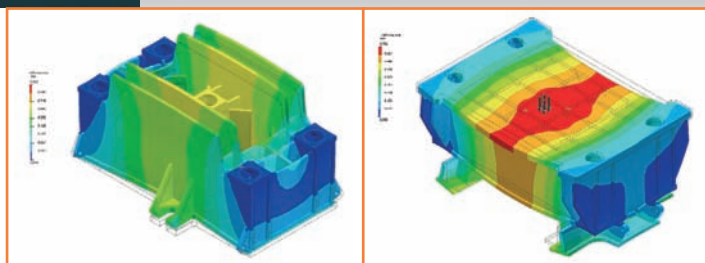
- > Rugged frame structure.
- > Floating movable platen with hydraulic guide blocks
- > High down stroking speed of moving platen (up to 800mm/sec).
- > Hydraulic plant with accumulators to ensure high compression speed (up to 80mm/sec), thus to optimize the processing phase.
- > Speed control of mould opening (slow-fast-slow)
- > Accumulator recharging time (which is the minimum cycle time) lower than 30sec.
- > Control of all the functions by a virtual PLC with graphic interface "touch-screen" 14" .
- > Variable displacement pumps (energy saving) with electronic integrated for the control of pressure and speed in close loop.
- > Pneumatic and hydraulic connection for mould ejector cores.
- > Pre-arrangement of the vacuum cycle.
- > Active or volumetric control of the parallelism by PLANAR® which allows:
 - even thickness of the mouldings also in the presence of asymmetric loads
 - fitting of multiple moulds
 - parallel opening of the mould
- > Lower and upper ejectors bars front/rear or inside the platen.



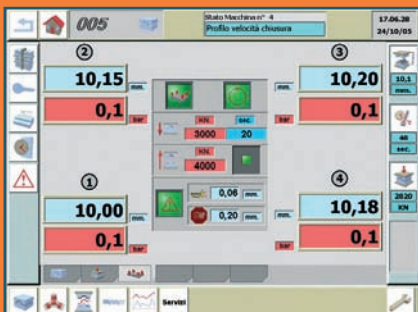
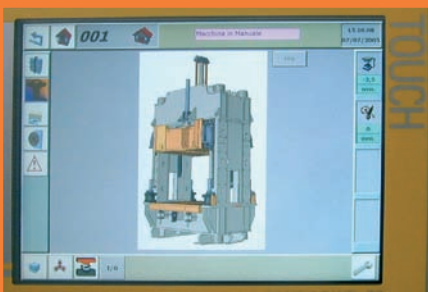
KOMPO 1200 GMT
Platens 2000x1600



KOMPO 3000 GMT
Platens 2700x2000 with
control of parallelism



PLANAR®



PLANAR® is the active parallelism control system fully designed by Terenzio.

The response of the four reaction cylinders is controlled by high dynamic servo-valves and according the signals coming from four highly precise linear transducers.

The control unit GOSH (graphics-open-system-human) is based on a Virtual PLC structure with a colour "touch-screen" as operator interface with fully graphic setting.

All data and information are shared by a high speed Profibus network which ensure operative and response times in the order of one millisecond.

The user's friendly operator interface and the possibility to obtain high resolution graphs, ensure performances up to excellent and absolute levels.



Terenzio are able to supply, other than the moulding press, also a wide range of auxiliary equipment such as:

- > Moulds
- > Integrated automation for the loading and unloading
- > Oven for the material (GMT) pre-heating
- > Extruder for the polypropylene filled with glass fibres (LFT)
- > Press for the cutting of the moulding



KOMPO SMC

	KOMPO 230SMC	KOMPO 400 SMC	KOMPO 600 SMC
Design	On columns	On columns	On columns
Clamping force (kN)	2300	4000	6000
Mould opening force (kN)	230	400	600
Platens dimension LxW (mm)	800x800 1000x800 1300x1100	1300x1100 1600x1200 1800x1500	1600x1200 1800x1500 2200x1600
Max distance between the platens (mm)	1000 ÷ 1400	1500 ÷ 2100	1600 ÷ 2200
Moving platens stroke (mm)	800 ÷ 1200	1200 ÷ 1800	1200 ÷ 1800
Fast clamping speed (mm/sec)	up to 600	up to 600	up to 600
Compression speed (mm/sec)	up to 12	up to 12	up to 12
Fast opening speed (mm/sec)	up to 300	up to 300	up to 300
	KOMPO 800 SMC	KOMPO 1200 SMC	KOMPO 1500 SMC
Design	On columns	On columns or frame	On columns or frame
Clamping force (kN)	8000	12000	15000
Mould opening force (kN)	800 (or the force of Planar)	1200 (or the force of Planar)	1500 (or the force of Planar)
Platens dimension LxW (mm)	1800x1500 2200x1600 2600x1850	2000x1600 2600x1850 3000x2000	2200x1600 2600x1850 3000x2000
Max distance between the platens (mm)	1800 ÷ 2400	2000 ÷ 2600	2000 ÷ 2600
Moving platens stroke (mm)	1200 ÷ 1800	1400 ÷ 2000	1400 ÷ 2000
Fast clamping speed (mm/sec)	up to 600	up to 600	up to 600
Compression speed (mm/sec)	up to 12	up to 12	up to 12
Fast opening speed (mm/sec)	up to 300	up to 300	up to 300
	KOMPO 2000 SMC	KOMPO 2500 SMC	KOMPO 3000 SMC
Design	On frame	On frame	On frame
Clamping force (kN)	20000	25000	30000
Mould opening force (kN)	2000 (or the force of Planar)	2500 (or the force of Planar)	3000 (or the force of Planar)
Platens dimension LxW (mm)	2600x1850 3000x2500 3400x2500	2700x2000 3000x2500 3400x2500	3000x2500 3400x2500 3400x3000
Max distance between the platens (mm)	2200 ÷ 2800	2200 ÷ 2800	2600 ÷ 3200
Moving platens stroke (mm)	1400 ÷ 2000	1400 ÷ 2200	1600 ÷ 2200
Fast clamping speed (mm/sec)	up to 600	up to 600	up to 600
Compression speed (mm/sec)	up to 12	up to 12	up to 12
Fast opening speed (mm/sec)	up to 300	up to 300	up to 300

KOMPO GMT

	KOMPO 800 GMT	TKOMPO 1200 GMT	KOMPO 1500 GMT
Design	On frame	On frame	On frame
Clamping force (kN)	8000	12000	15000
Mould opening force (kN)	800 (or the force of Planar)	1200 (or the force of Planar)	1500 (or the force of Planar)
Platens dimension LxW (mm)	1800x1500 2200x1600 2600x1850	2000x1600 2600x1850 3000x2000	2200x1600 2600x1850 3000x2000
Max distance between the platens (mm)	1800 ÷ 2400	2000 ÷ 2600	2000 ÷ 2600
Moving platen stroke (mm)	1200 ÷ 1800	1400 ÷ 2000	1400 ÷ 2000
Fast closing speed (mm/sec)	up to 800	up to 800	up to 800
Compression speed (mm/sec)	up to 80	up to 80	up to 80
Fast opening speed (mm/sec)	up to 600	up to 600	up to 600
	KOMPO 2000 GMT	KOMPO 2500 GMT	KOMPO 3000 GMT
Design	On frame	On frame	On frame
Clamping force (kN)	20000	25000	30000
Mould opening force (kN)	2000 (or the force of Planar)	2500 (or the force of Planar)	3000 (or the force of Planar)
Platens dimension LxW (mm)	2600x1850 3000x2500 3400x2500	2700x2000 3000x2500 3400x2500	3000x2500 3400x2500 3400x3000
Max distance between the platens (mm)	2200 ÷ 2800	2200 ÷ 2800	2600 ÷ 3200
Moving platen stroke (mm)	1400 ÷ 2000	1400 ÷ 2200	1600 ÷ 2200
Fast closing speed (mm/sec)	up to 800	up to 800	up to 800
Compression speed (mm/sec)	up to 80	up to 80	up to 80
Fast opening speed (mm/sec)	up to 600	up to 600	up to 600



For the pictures included in this brochure we thank the courtesy of LONZA Composites - POLYTEC Composites - RANGERPLAST - ROMAY



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