



# Tiger Machine Company

## CONCRETE PRODUCT MACHINES TG SERIES

INNOVATIVE  
& FLEXIBLE



TG-4S

The TG Series of concrete products machines is TIGER'S largest, fastest and most sophisticated machine series offered for the production of high quality concrete masonry units. These machines are truly multi-purpose machines capable of making concrete block, brick, retaining wall products and other landscape and hardscape products.

The TG Series are the most durable, reliable and consistent producers in the market, yet they are incredibly easy to operate and maintain. One more very attractive feature of these machines is their automatic mold change system. This system is capable of making product mold changes in less than five (5) minutes for most products of the same type and height, and approximately 15 to 20 minutes for products of completely different height, size and configuration including agitator, height pins and cut-off plate change. Some molds can be changed in as little as two (2) minutes.

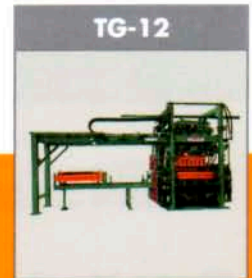
This series of machines includes the models TG-3, TG-4, TG-5, TG-6 and the model TG-12 the largest of its kind in the world. The TG-3 is the smallest (3 at-a-time – 20 cm/8" block) and the TG-12 being the largest (12 at-a-time – 20 cm/8" block). The TG Series of machines are capable of making most concrete products of the outmost quality and density,

The TG Series can store up to 99 production patterns or operating configuration parameters in its PLC memory. They utilize a friendly touch-screen graphic operator interface. Examples of these parameters are: vibration program, timers, de-molding speed, etc. The control panel software has also electrical and system troubleshooting sub-routines, error history, automatic feed production reports and many other time saving and record keeping features.

The TG Series can manufacture products from 40mm and up to 300 mm in height with no difficulty whatsoever and with the same consistent density and finish at all heights. These machines are available with a movable face-feed drawer option for the manufacture of dual layer products that is intrinsically designed with the machine from its inception as part of it, and not as an after-thought. The TG Series utilizes powerful variable vibrators (**A true programmable vibration system**) which allow true variable amplitude and frequency control. Amplitude can be set from 0 to its maximum force and frequency from 0 and up to 3,000 rpm). No clutches are used to stop the vibrating shafts, saving maintenance costs.

In the TG Series of machines the change of a mold does not require the effort required in competitive equipment. Its unique mold change format saves time, and allows multiple mold changes per shift if required to make a variety of products. Furthermore, to aid in production, maintenance and simplicity of repair the complete compression head can be removed out of the machine with the simple push of a button.

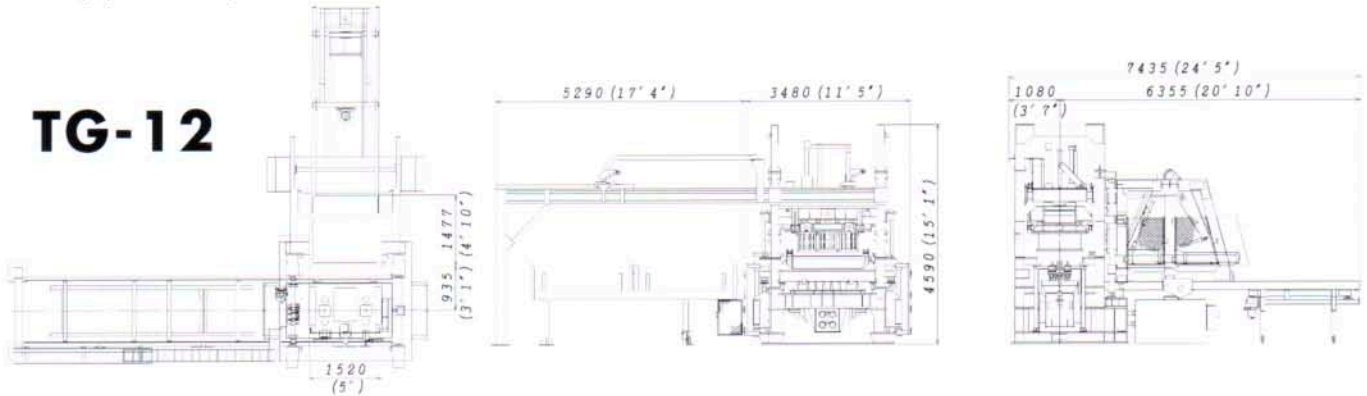
The model TG Series of machines are the most versatile machines in their class and are capable of being installed with the largest variety of handling systems in the market for their size and production capacities.



*Leadership through innovation.*

Please discuss your plant requirements with a TIGER representative. Our TIGER team of experts in the field of concrete product manufacturing are ready to assess your needs and provide the equipment that best suits your requirements. Let us help you identify the correct TG Series machine to fit your product applications.

## TG-12



Download these and other TIGER technical specifications at [www.tigermachine.com/resources](http://www.tigermachine.com/resources)

## TG SERIES CONCRETE PRODUCTS MACHINES - SPECIFICATION

Available with:	TG-3	TG-4	TG-5	TG-6	TG-12
Offbearing hoist system	N/A	N/A	N/A	N/A	N/A
Rack loader & unloader systems	OK	OK	N/A	N/A	N/A
Rack transfer systems (CR or RTS)	OK	OK	OK	OK	OK
Pallet transporter systems (PTS)	OK	OK	OK	OK	OK
Single pallet handling systems (SPH)	OK	OK	OK	OK	OK
Cuber systems	OK	OK	OK	OK	OK
<b>Features</b>					
Vibrator motors - kW	30 kW (40 hp)	30 kW (40 hp)	30 kW (40 hp)	30 kW (40 hp)	37 kW (44.93 hp)
Pump motor - kW	45 kW (60 hp)	55 kW (73.3 hp)	55 kW (73.3 hp)	55 kW (73.3 hp)	55 kW (73.3 hp)
Hydraulic pump - Liter Per Minute	315 liters (82 Gallons)	315 liters (82 Gallons)	315 liters (82 Gallons)	315 liters (82 Gallons)	315 liters (82 Gallons)
Oil Cooling Fan/Heat Exchange Motor kW	0.4 kW (0.53 hp)	0.4 kW (0.53 hp)	0.8 kW (1 hp)	0.8 kW (1 hp)	0.8 kW (1 hp)
Hydraulic oil reservoir/Tank - Liters	650 liters (171 Gallons)	650 liters (171 Gallons)	750 liters (197.3 Gallons)	750 liters (197.3 Gallons)	750 liters (197.3 Gallons)
Recirculating pump motor - kW	2.2 kW (2.9 hp)	2.2 kW (2.9 hp)	2.2 kW (2.9 hp)	2.2 kW (2.9 hp)	2.2 kW (2.9 hp)
Recirculating pump - Liters per minute	138 liters (36.3 Gallons)	138 liters (36.3 Gallons)	138 liters (36.3 Gallons)	138 liters (36.3 Gallons)	138 liters (36.3 Gallons)
Hydraulic system pressure - MPa	9.5/14.5 MPa (1370/2100 psi)	9.5/14.5 MPa (1370/2100 psi)	14.5/17 MPa (2100/2465 psi)	14.5/17 MPa (2100/2465 psi)	16/19 MPa (2320/2755 psi)
Rotary agitator motor	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
<b>Capacity</b>					
Steel pallet size - mm	660 x 470 x 8	978 x 470 x 12	1100 x 470 x 13	1320 x 470 x 14	1397 x 1080 x 16
Steel pallet size - inches	26" x 18.5" x 0.31"	38.5" x 18.5" x 0.46"	45 x 3.12" x 18.5" x 0.5"	52" x 18.5" x 0.56"	55" x 42.5" x 0.62"
Useable mold cavity - mm	650 x 450 x 40-215	953 x 470 x 40-215	1080 x 450 x 40-215	1300 x 450 x 40-215	1360 x 1040 x 40-215
Useable mold cavity - inches	25.5" x 17.75" x 1.57" x 8.5"	37.5" x 18.5" x 1.57" x 8.5"	42.5" x 17.75" x 1.57" x 8.5"	51.18" x 17.75" x 1.57" x 8.5"	53.54" x 17.75" x 1.57" x 8.5"
<b>Productivity</b>					
Average dry cycle speed in seconds	4.2	4.2	4.5	4.5	6.7
Average wet cycle speed in seconds	8.5	8.5	10	10	17
Average cycles per minute	7.06	7.06	6.00	6.00	3.53
<b>Concrete masonry units per cycle/pallet</b>					
10 cm/4" block per cycle/pallet	6	9	10	12	26
12 cm/5" block per cycle/pallet	5	7	8	10	20
15 cm/6" block per cycle/pallet	4	6	7	8	16
20 cm/8" block per cycle/pallet	3	4	5	6	12
25 cm/10" block per cycle/pallet	2	3	4	5	10
30 cm/12" block per cycle/pallet	2	3	3	4	8
Holland-Stone Pavers 10 x 20 cm	12	16	20	24	54
<b>Dimensions &amp; Weight</b>					
Weight	20000 kg (44,000 lbs)	25000 kg (55000 lbs)	27000 kg (59400 lbs)	28000 kg (61600 lbs)	31000 kg (68200 lbs)
Machine size (W x H x L) - mm	2800 x 4300 x 5500	3010 x 4300 x 5500	3280 x 4400 x 7040	3490 x 4400 x 7040	3490 x 4590 x 7450
Machine size (W x H x L) - inches	110.93" x 169.29" x 216.53"	118.5" x 169.29" x 216.53"	129.12" x 173.23" x 277.15"	137.40" x 173.23" x 277.15"	137.40" x 180.71" x 293.33"

## JOIN THE CONCRETE REVOLUTION!

TIGER reserves the right to change, discontinue or improve product design and specifications without prior notice.



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