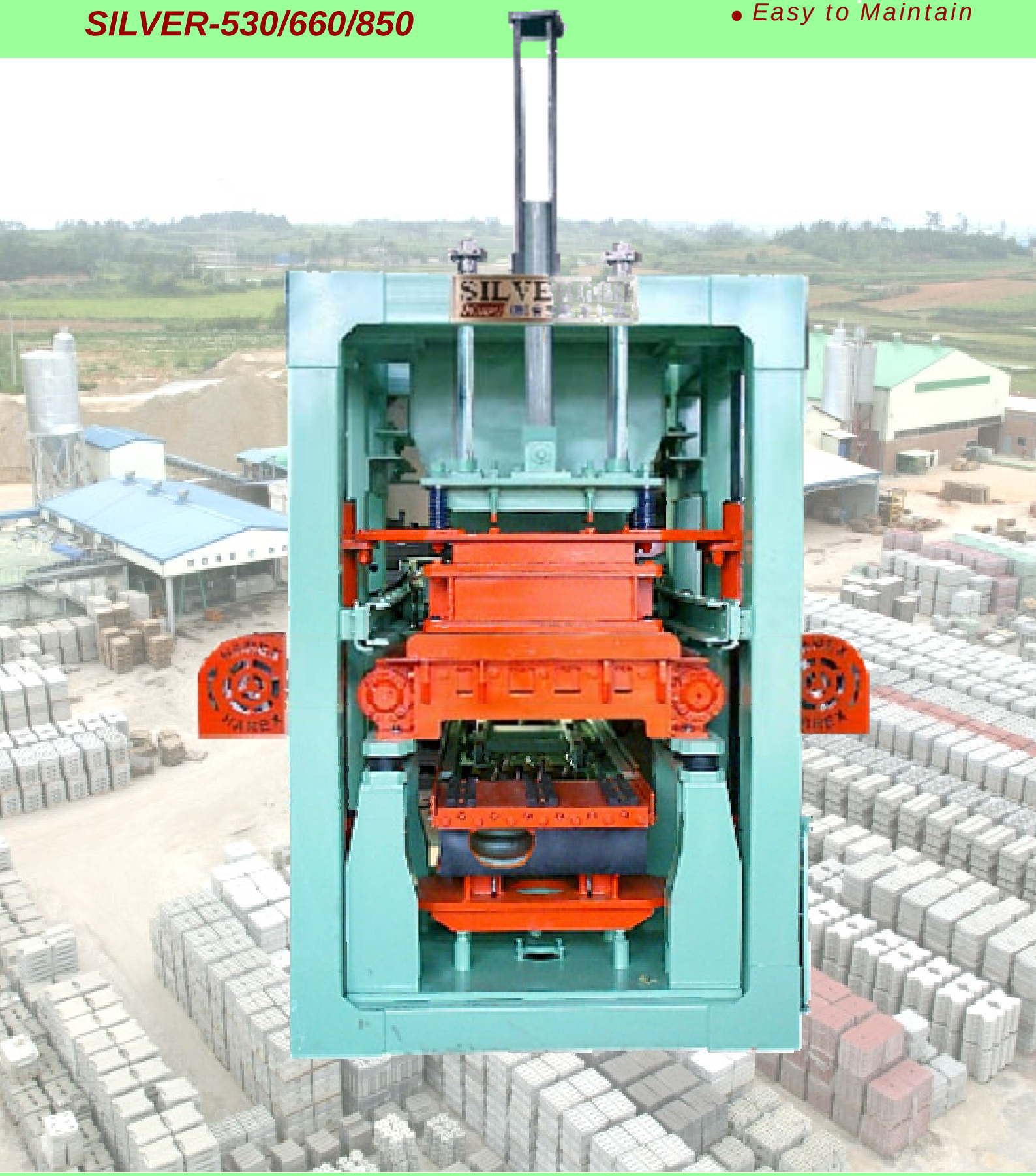
HAREX

Concrete Block Machines

SILVER-530/660/850

- *Fully Automatic*
- *Sturdy*
- *Versatile*
- *Economical*
- *Easy to Maintain*



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Harex Concrete Block Machine SILVER-530/660/850

Harex SILVER-530/660/850 are robust, versatile but low-cost concrete block machines. They are capable of producing normal concrete bricks, hollow and solid blocks, paving blocks, retaining wall blocks, and other materials for construction and civil engineering.

- Robust, compact and trouble free
- Highly cost-effective
- Can be equipped with a face mix device for pavers with colored layer.

Structure:

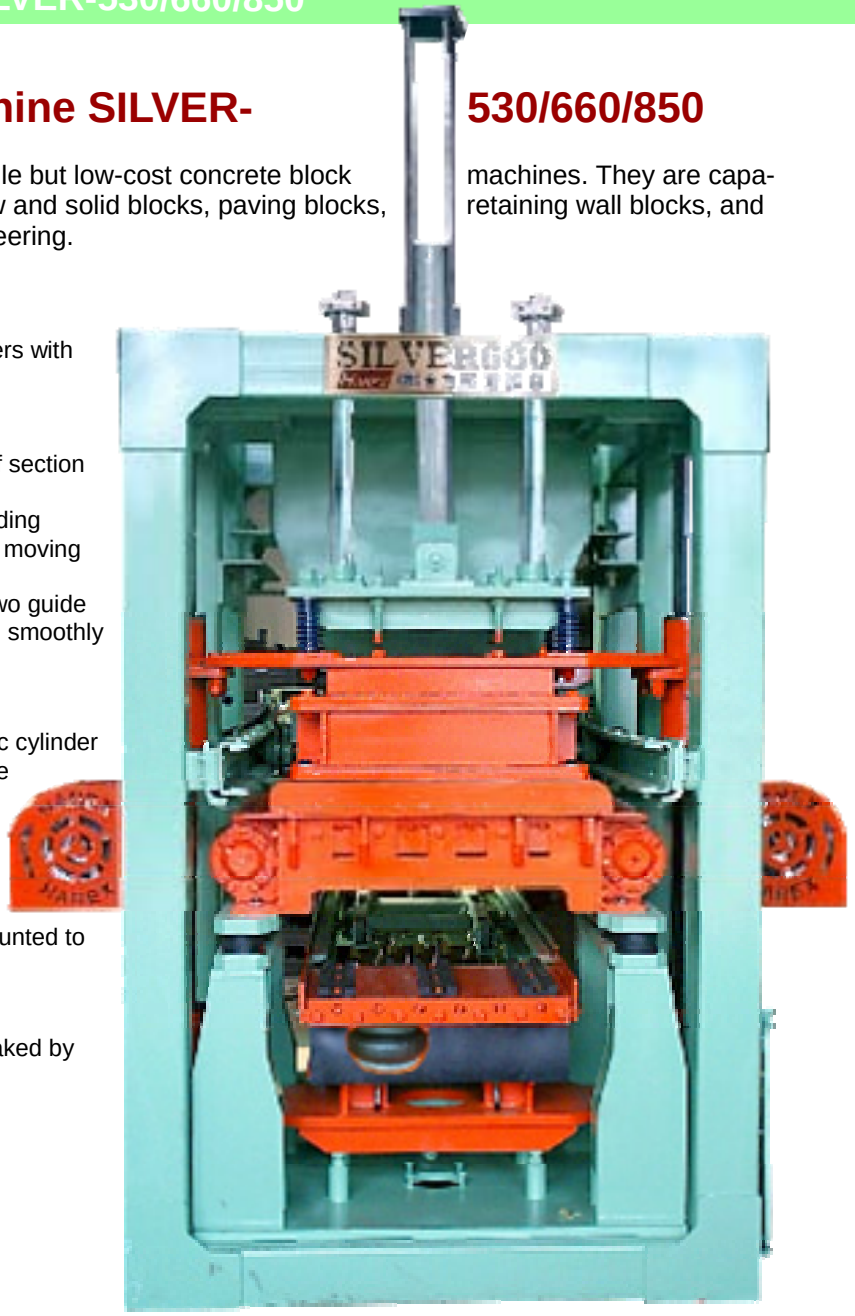
- The machine frame is a sturdy structure made of section steel.
- Wear-resistant slide bushings are used in the sliding metal bearings of the guide pillars that guide the moving of mould and compaction head.
- Double-sliding metal bearings are mounted on two guide pillars so that mould and compaction head move smoothly without error.

Filling System:

- Filling box moves by means of powerful hydraulic cylinder with shock-reducing device, and its speed can be adjustable by valve.
- Filling box is freely suspended on the special guiding device. Since the vibration is not transmitted to the filling box, the wear of the filling box is greatly reduced.
- Impeller, a device driven by geared motor, is mounted to facilitate the filling of material into mould.

Block Machine:

- Two special vibrators are mounted which are braked by inverters.
- SILVER-530: 5.5 kW x 2 = 11 kW
- SILVER-660: 7.5 kW x 2 = 15 kW
- SILVER-850: 11 kW x 2 = 22 kW



SILVER-530/660/850 Main Machine (front view)

SILVER Specifications & Capacities

	SILVER-530			SILVER-660			SILVER-850		
Pallet (steel) size (mm)	530 x 530 x 6			660 x 530 x 9			850 x 530 x 9		
Effective Area (mm)	500 x 500			630 x 500			820 x 500		
Product height (mm)	60 - 200			60 - 200			60 - 200		
Approx. weight (kg)	4,000			5,000			6,000		
Production Capacities	Per pallet	Cycles per minute	Output per hour	Per pallet	Cycles per minute	Output per hour	Per pallet	Cycles per minute	Output per hour
Brick 190 90 x 90 mm	40	5 - 6	12,000 - 14,400	48	4 - 5	11,520 - 14,400	64	4 - 5	15,360 - 19,200
Brick 240 x 53 x 115 mm	16	5 - 6	4,800 - 5,760	20	5 - 6	6,000 - 7,200	26	4 - 5	6,240 - 7,800
Block 390 x 100 x 190 mm	4	4 - 5	960 - 1,200	5	4 - 5	1,200 - 1,500	7	4 - 5	1,680 - 2,100
Block 390 x 150 x 190 mm	3	4.5 - 5	810 - 900	4	4.5 - 5	1,080 - 1,200	5	4.5 - 5	1,350- 1,500
Block 390 x 190 x 190 mm	2	5	600	3	5	900	4	5	1,200
UNI Paver 225 x 112.5 x 60 mm	8	4 - 4.5	1,920 - 2,160	10	4 - 4.5	2,400 - 2,700	12	4 - 4.5	2,880-3,240
UNI Paver with Face Mix	8	3 - 3.5	1,440 - 1,680	10	3 - 3.5	1,800 - 2,100	12	3 - 3.5	2,160 - 2,520

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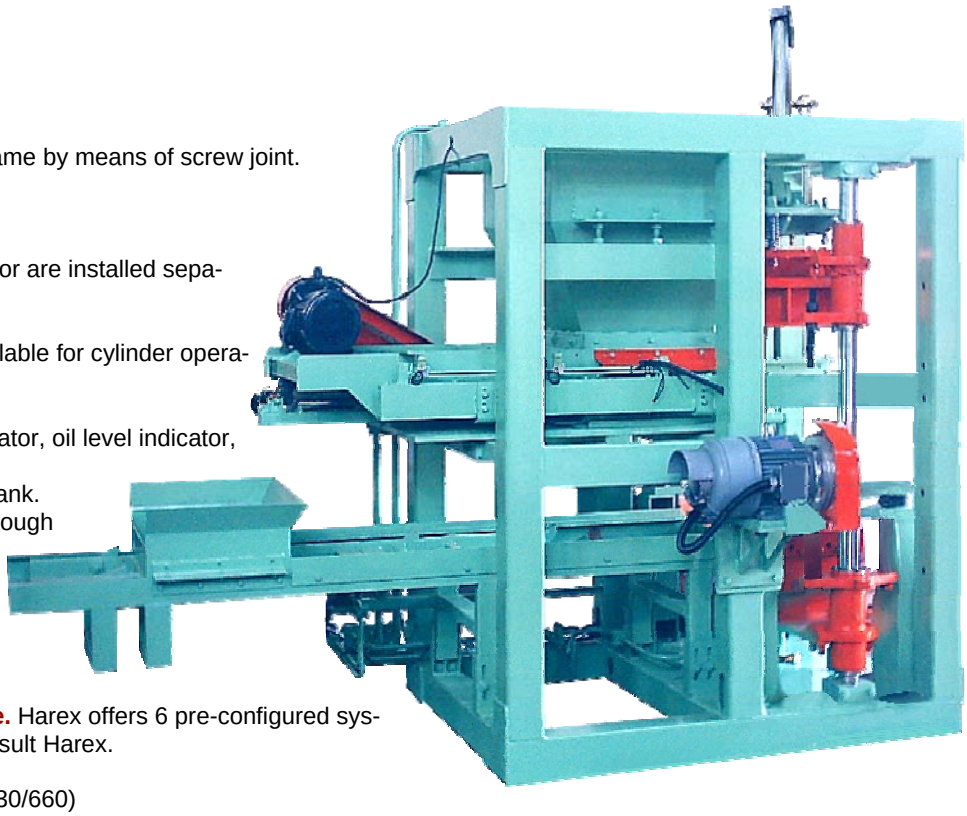
Compaction:
- Mould is mounted to the compaction frame by means of screw joint.
- Adjustable pressure adjustment valve

Hydraulic Device:
- Oil pump and driving part including motor are installed separately.
- Pilot valve
- Two pressure selection stages are available for cylinder operation.
- Includes necessary piping and valves
- Oil tank ventilator, oil temperature indicator, oil level indicator, oil filter for preventing contamination
- Oil heater is installed on the hydraulic tank.
- Oil cooler is installed on the pipeline through which oil returns to the tank. A compulsory ventilation fan controlled by temperature sensor is also installed. A separator oil pump is installed on the oil cooler.



SILVER-530/660/850 Main machine (side view)

Flexible factory configurations possible. Harex offers 6 pre-configured systems. For other configurations, please consult Harex.

a. Chain Conveyor System (SILVER-530/660)
b. Rack Carrier System I (SILVER-530/660)
c. Rack Carrier System II (SILVER-530/660)
d. Rack Conveyor System (SILVER-530/660/850)
e. Rack Conveyor + Cuber System (SILVER-530/660/850)
f. Rack Conveyor + Cuber + Transfer car System (SILVER-530/660/850)

SILVER-530/660/850 Main machine, face mix device, loader conveyor, loader & control box

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SILVER-530/660/850 Batching, Mixing, Transportation & Cubing

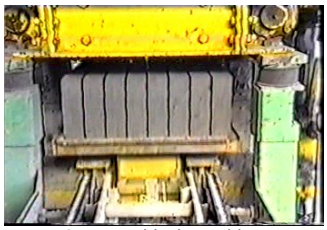

Aggregate supplied to hopper


Aggregate hopper & conveyor


Aggregate transported toward Mixer by conveyor

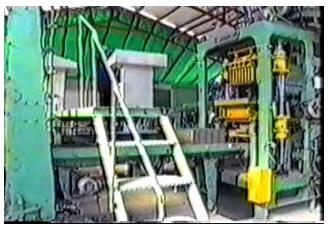

Cement Silo


Green blocks are demoulded and come out onto Loader Chain Conveyor


Concrete block machine: Blocks are formed by vibration and compaction


Main mixer, face mixer and platform: Aggregate, cement and water are mixed in Mixer

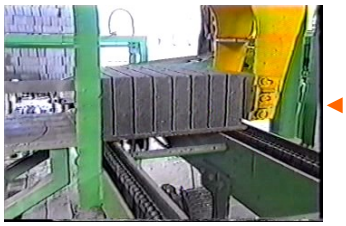

Screw conveyor conveying cement to Mixer


Formed blocks go to loader via loader chain conveyor


Formed are loaded onto rack on rack chain conveyor by loader


Rack is moved to curing room by transfer car


Finger car moving into/out of curing room

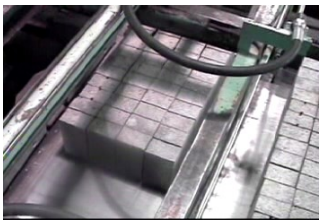

Blocks are separated from pallet by Separator


Unloaded locks are coming out on Unloader Chain Conveyor from Unloader


Blocks are unloaded from rack by Unloader


Transfer Car places cured blocks from curing room onto Rack Chain Conveyor for unloading

Empty pallets:
↓
Cross Chain Con-veyor
↓
Pallet Feeder
↓
Block machine


Pusher A pushes blocks from Separator toward Cuber


Pusher B arranges blocks under Cuber clamp


Cubed blocks on stock pallet comes out on Stock Pallet Roller Conveyor

Blocks are moved to stockyard by forklift


Cuber clamps blocks and stacks the on stock pallet in desired “cube”.


Stock Pallet Magazine holds stock pallets and supplies them one by one to Cuber via Stock Pallet Chain Conveyor

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