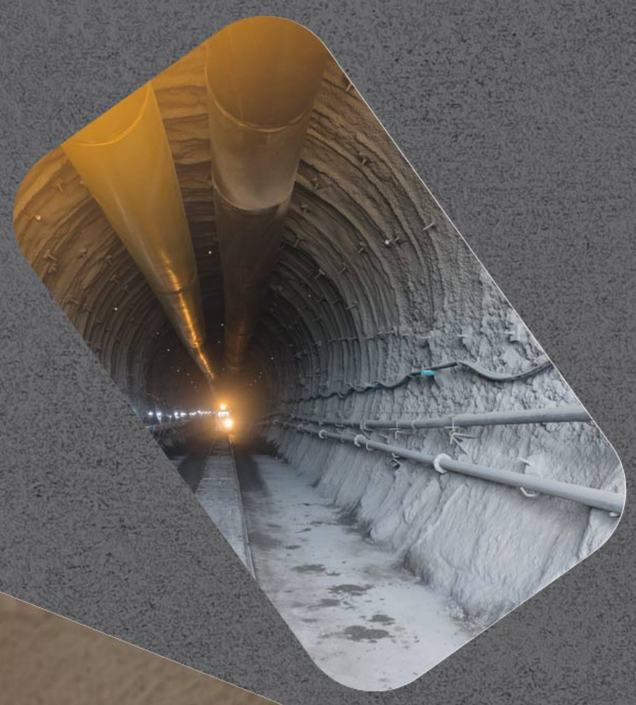
TIRAN TUNNEL BISTOON

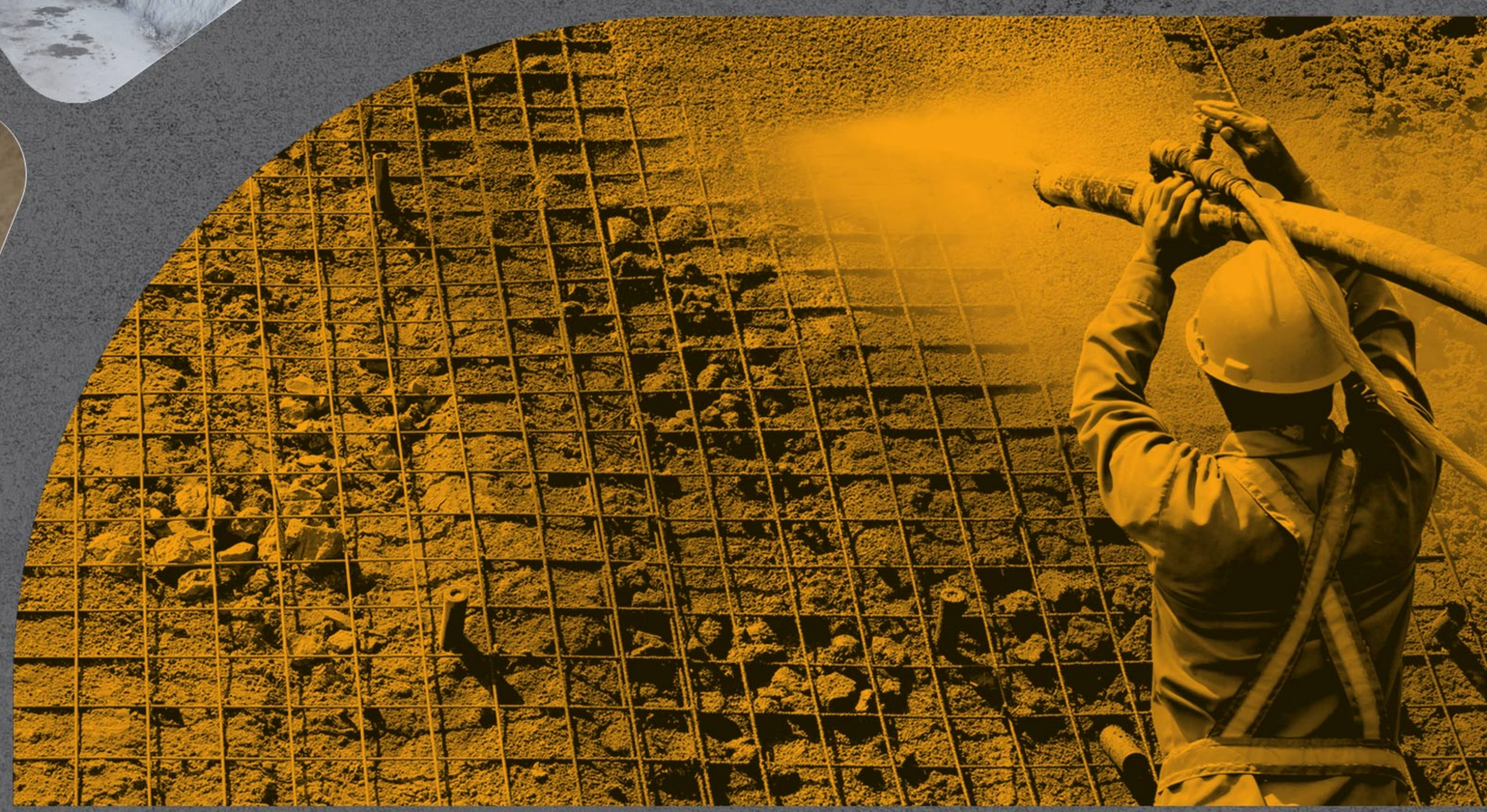
Manufacturer of Construction Machineries











Manufacturer of machinery for the shotcrete construction industry,
plastering, material transfer

TTB MACHINE MANUFACTURING

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New Products Catalog



TIRAN TUNNEL BISTOON

Manufacturer of Construction Machineries

Manufacturer of machinery for the shotcrete construction industry, plastering, material transfer

Road, dam, tunnel, and conventional building techniques should only partially meet these objectives given the size of nations and the need for additional residential units in development projects. In order to eliminate dependence, this company uses high-quality raw materials in accordance with international standards, advanced industrial machinery, experienced staff, and knowledge and technology from around the world, as well as scientific expertise, engineers, consultants, and professors.

After many years, the route that was chosen in response to the intended demands has succeeded in creating high-quality goods at more affordable prices than examples of similar items from other countries. It's also important to take into account the category of retrofitting existing constructions. Additionally, industrialization production techniques should be carefully studied in light of the widespread desire to increase the quality of building projects in the world's major economies.

Certificate



About us

Tiran Tunnel Bistoon Company was founded in 2013 with the assistance of Almighty God and the efforts of its employees. It is presently in operation, although it began its operations in 2007 as the Biston Industrial Group and today has more than It has been supplying this developing sector with construction equipment (such as shotcrete, plaster sprayers, and most portable pumps) .locally for a decade

16 YEARS Experience

Our Purpose

The primary objective of the establishment of Tiran Tunnel Bistoon Company is to stop relying on foreign models and to think beyond the ability to export the group's manufactured goods outside of the nation's borders, which we have already accomplished and which has brought honor to our beloved country.





Some of Our Clients

- Asaluyieh Barbon Company
- Khatamolanbia Structuring Placement
- Esfahan Foolad Mobarakeh Company
- Ghitgar Residential Project
- Esfahan Steel Company
- Iran Mall Project
- Arak Shazand Petrochemical Company
- Tehran-North Freeway Project
- Razi Petrochemical Company
- Tehran subway line 6, Chiklo Company
- Sabir International Company
- Tehran subway line 6, Zhupin Sazegostar Company
- Aryana Tunnel Dam Company
- Tehran subway line 3
- Tehran West Shahid Kharazi Project
- Ghafelan Builders Company
- MAPNA Group
- Tower Cooling Company
- Sarir Civil Company
- Kozo Pars Company

And more than other 500 governmental and private Companies

The number of installed machines



T13M 550



T260 273



T6020 230



T263 501



T4 100



T180 58



T13 220



Export

Tiran Tunnel Bistoon Company is delighted to have increased the country's output and money despite the sanctions and barriers by exporting a significant portion of the collection's machines to friendly and adjacent countries.

Installed machines abroad



Armenia



Oman



Tajikistan



Russia



Kazakhstan



Syria



Afghanistan



Uzbekistan



Qatar



Iraq



Djibouti



Australia

Performed projects by Tiran Tunnel Bistoon

Projects

- Shotcrete fireproof material - Refectory Unit of Lavan Gasoline Refinery, Lavan Island
- Blast-proof wall shotcrete - Maron Petrochemical Bandar Mahshahr
- Grout injection of water tanks - Farashband Shiraz Refinery
- Shotcrete, refractory materials, boilers of Alston power plant, Tehran, grout injection, water tanks - Bayatet company
- The implementation of fire-proof coating (fireproof) mineral materials - metal structures of Rozmal project - Iran Mall (Tehran)
- Mortar injection under water tanks - Behshahr Industrial Company
- Grout injection of underground tank - Asaluyieh
- Shotcrete for strengthening the walls of the wharf - Asalouyieh Port
- The implementation of mortar spraying for fireproofing of metal structures in various projects such as Chitgar Residential Project and Tat Hospital (Tehran)
- The retrofit of more than 50 schools in different cities of the country
- Installation and execution of shotcrete walls of 3D panels in the housing projects of Mehr Parand, Pardis, Khansar, Mehrshahr, Damghan, Garmsar, Yazd, Bijar, Kashmar and other private and government residential projects.

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TIRAN TUNNEL BISTOON
Manufacturer of Construction Machineries

Products



T260



T263



T246



T180



T500



T4



T5



T6020



T13m



T13b1



T13b2

T260

Shotcrete Machine



This device's functioning mechanism relies on the rotor's rotation and compressed air flow, giving it the capacity to operate at two different speeds: slow and rapid. This device has the capacity to spray concrete with a variety of chemical additives, metal, and polymer fibers, among other things. Due to the device's proper construction and design, it is also able to spray materials with high humidity, which has resolved the operating issues.

The customer will benefit greatly from how simple it is to load and feed the gadget. It should be noted that this gadget requires a separate air compressor in order to function.

Application:

The equipment may be used for a variety of tasks, including spraying operations during road construction projects, building tunnel dams, removing loose dirt from excavations, and consolidating wet areas.

Electrical	Technical Information
Electric	driving force
7.5-11 kw 900-1400 round	The power of the main engine is 2 rounds
7.5-9 m3/h	Theoretical output capacity
5-6.5 m3/h	Practical output capacity
0-15 mm	Granulation size
16 L	Router capacity
0.15 kw- 3000 round- 100 kg	Electrical vibrator
62*82 mm (2.5 inch)	Material hose diameter
10-13 m3/min- pressure 8 to 10	Required air compressor
Dry	Consumable material type
180 cm	Length
84 cm	Width
155 cm	Height
1080 kg	Weight

Pumping and spraying capability

- Fiber reinforced concrete spraying
- Spraying inflammable materials
- Spraying on the trench
- Spraying of seals
- Construction of swimming pools (types of swimming pools)
- Construction of an artificial waterfall
- Making large stone artifacts
- Soil stabilization
- Consolidation of excavations
- Reinforcement of buildings and concrete structures
- Dam construction, road construction and tunnel construction industries
- Concrete cover for mine and tunnel



T263

Shotcrete Machine

This machine's mechanism and advanced technology allow shotcrete to be applied in two ways, dry and wet, without changing the structure or requiring additional tools with metal fibers. It has satisfied the requirements of large construction projects and replaced the previous models of shotcrete machines.

The usage of this pump in big automated drilling machines and the sprinkling of gravel foundations is another characteristic. The rotating rotor's unique structure and design give it a high unloading and loading efficiency that sets it apart from comparable models. It can also pump coarser granular materials, which opens up a wide range of applications for the consumer, and it has an automatic lubrication system for the rubber plates that extends their lifespan and lowers maintenance costs. We may list the building of swimming pools, tunnels under dams, and roads as uses for this device's spraying capabilities.





Pumping and spraying capability

- Concrete spraying
- Spraying reinforced concrete with metal fiber
- Spraying inflammable materials
- Gravel foundation spraying
- Spraying on the trench
- Concrete cover for mine and tunnel
- Construction of an artificial waterfall
- Making stone artifacts
- Pool construction (various pools)
- Reinforcement of buildings and concrete structures
- Road and bridge concrete repair
- Dam construction, tunnel construction and road construction industries

Electrical	Technical Information
Electric	driving force
7.5-11 kw 900-1400 round	The power of the main engine is 2 rounds
18 m3/h	Theoretical output capacity
9-12 m3/h	Practical output capacity
0-20 mm	Granulation size
16-25 L	Router capacity
0.15 kw- 3000 round- 100 kg	Electrical vibrator
62*82 mm (2.5 inch)	Material hose diameter
12-15 m3/min- pressure 8 to 10	Required air compressor
Dry and wet	Consumable material type
200 cm	Length
95 cm	Width
136 cm	Height
1350 kg	Weight

T246

Shotcrete Machine

This dry shotcrete machine type features the smallest dimensions, the most acceptable output flow rate, and the lightest weight shotcrete pump model. Boost the device's reach and gain customer favor.

Due to its compact size, this pump is used for spraying refractory materials on the inside walls of cement and steel furnaces, as well as in tiny galleries and municipal sewer tunnels. Additionally, the output volume of this device may be simply altered thanks to its many rotors. Grease-absorbent is a feature of the rubber plates that extends the lifespan of consumables and lowers repair and maintenance expenses.



Electrical	Technical Information
2.2 electric kw	The power of the main engine
4.5 m3/h	Theoretical output capacity
3 m3/h	Practical output capacity
0-8 mm	Granulation size
5 L	Router capacity
0.15 kw- 3000 round- 100 kg	Electrical vibrator
38-65 mm (1.5 inch)	Material hose diameter
8-10 m3 - pressure -6	Required air
Dry	Consumable material type
120 cm	Length
70 cm	Width
126 cm	Height
250 kg	Weight

Pumping and spraying capability

- Mine and tunnel cover
- Spraying of fiber reinforced materials
- Spraying inflammable materials
- Repair of concrete structures
- Municipal sewer tunnels
- Small hills
- Filling the rock gap
- Construction of all kinds of swimming pools
- Construction of water parks
- Construction of a dam
- Stone artifacts and artificial rocks
- Artificial waterfall



T180

Cement grout injection set



T180 cement grout injection set consists of three components. It consists of a primary mixer, a secondary mixer, a grout storage tank, and an injection pump with a reciprocating system, which is the primary component of the hydraulic pump system and is appropriate for cement grout injection operations. Construction of dams involves tunneling and riveting, which, depending on the type of hydraulic compressor of the device, can generate up to 100 bar of pressure.

Due to the rapidity of construction, the use of this form of compressor in large undertakings is one of its many benefits. As a result of the slurry in the primary mixer, the slurry storage in the mixer, and the pump output of up to 120 liters per minute, the consumer has access to a vast array of applications. In the meantime, the device's primary pump is manufactured in two varieties, variable and fixed, depending on the requirements of the projects.



Pumping Capability

- Grout injection
- Slurry transfer
- Grout injection
- Groot transfer

Electrical	Technical Information
18.5 electric kw	The power of the main engine
0-120 L/min	Output capacity
100 round	Hydraulic Pump Pressure
1 inch	Output Size
Hydraulic	Pump System
7.5 kw	Primary mixer engine power
400 L	Primary mixer capacity
2 inch	exit opening
1.5 kw	Engine power storage tank
700 L	Storage tank capacity
160*80*100 cm	Pump Size (length-width-height)
650 kg	Weight
120*120*200 cm	Primary Mixer Size (length-width-height)
400 kg	Weight
120*95*190 cm	Secondary Mixer Size (length-width-height)
400 kg	Weight

T500

Screed machine (Conveying Materials)

The most cost-effective method for moving items to floors in high-rise buildings and difficult-to-reach areas right now is to use this device.

The majority of its activities include flooring. This pump can readily provide us this opportunity, unlike peristaltic pumps or piston pumps, which cannot pump dry and semi-wet materials.

Pump 2500 is the only pump that can be used in situations like these and has the capacity to pump materials like fine concrete mortar, gravel, pumice, and sand.

The 2500's primary basis for functioning is the transfer of materials using compressed air, making for a highly straightforward and cost-effective user experience.



Electrical	Diesel	Technical Information
7.5 kw	32 Hp	Engine Power
3.8 m3/h	3.8m3/h	Output Capacity
7 round	7 round	Pressure of output air
3-7 m3/min	3-7 m3/min	Air compressor volume
1450 round/min	1450 round/min	Engine Speed
16 mm	16 mm	Maximum Granulation
80 m	80 m	Pumpable height
120 m	120 m	Horizontal Pumping
2.5 inch	2.5 inch	Size of carrying material hose
195 cm	230 cm	Length
108 cm	108 cm	Width
110 cm	155 cm	Height
620 kg	920 kg	Weight

Pumping and spraying capability

- Implementation of flooring
- Transfer of dry and semi-dry sand
- Transfer of mineral pumice
- Perlite transfer
- Polymer materials
- Semi-wet materials
- sand
- Polystyrene
- Vermiculite
- P Gravel



T4

Chalk Spray Machine

With its super-fast operation, the plaster sprayer or mortar sprayer T4 is a pump appropriate for all varieties of ready-made mortars and plasters. It eliminates the need to spend a lot of time preparing plaster and delivering it to the work master. The pump is suitable for spraying materials from lining layer to the final layer.





T4 Specifications

- Uniform mixing of materials and water in the mixer section of the machine in terms of the presence of water control tools
- The internal mixer of tank for the uniform entry of materials into the mixer
- The ability to spray on the wall, ceiling and sloping surfaces
- Easy operation, fully automatic and equipped with safety systems
- Easy to carry the device to the floors in terms of the light weight and volume and the ability to disassemble the main components of the device for easier movement

Pumping and spraying capability

- Spraying polymer plaster
- Polymer cement spraying
- Lime spraying
- Cement base material
- Injection of cement slurry
- Injection of fine-grained mortar
- Insulating plasters
- Reinforced mortars
- Bonding mortar

Electrical	Technical Information
5.5 kw-380 v	The main power of driving force of pump
25 L/min	Output volume of pump
35 L/min	With other pumps
20 round	Pump Pressure
0.75 kw	The power of driving force of tank mixer
1 inch- 2.5 round	Water Pump
250 L	Air Compressor
1.5 kw	Generator Power of Compressor
25 mm (1 inch)	Mortar hose size
150 L	Tank Capacity
10 m	Pumpable height
125*74*155 cm	Size (Length*Width*Height)
325 kg	Weight

T5

Soft Spray Machine

Among comparable devices, device 15 is one of the smallest and most useful, and it may be used to spray and transfer semi-fluid materials and fireproof coatings. The size and light weight of this pump, which enable the user to transfer it between floors with ease, are one of its distinctive qualities.

The device's modest output volume, which is adjustable both mechanically and electrically and enables the user to have a more concentrated spray when necessary, is one of its benefits over other pumps of a similar design.

We may include the transfer and injection of grout and fine-grained materials, as well as the tying of walls, landscaping, and other similar tasks, among the additional uses of this instrument. It is appropriate for repair work because of the very low output volume, whether it involves final coatings or fireproof coatings.





Electrical	Technical Information
2.2 kw-220 v	The main power of driving force of pump
0-1 mm	Granulation Size
8-12 m	Pumpable height
20-30 m	Horizontal pump length
10 round	Pump Pressure
4-6-8 L/min	Output capacity of pump
1 inch	Size of material hose
124 cm	Length
46 cm	Width
113 cm	Height
75 kg	Weight

Pumping and spraying capability

- Spraying white cement and stone powder
- Spraying fire retardant materials
- Polymer cement spraying
- Transfer of fine-grained mortar
- Grout injection
- Reinforcing mortars
- Pumping colored plaster
- Pumping and spraying rendering lime
- Colored cement pumping



T6020

Mardoon Mortar Spray

Due to its straightforward design, it is an excellent pump for spraying and transporting fluid and semi-fluid materials, making it highly user-friendly. This pump has the ability to switch between different stators and rotor types for various output capacities and granulations. Among its numerous uses, we can note the transfer and injection of slurry as well as paste mortars. It features a main mixer for making mortar, and the gearbox's design makes it simple to adjust the pump's status and output. One benefit of this sort of pump is the ability to change the stator when the pump pressure lowers due to wear and tear. This is made possible by the designed wheel and axle, the air supply chassis for spraying, and the air compressor mounted on the device itself.

Pumping and spraying capability

- Cementing brick and block walls
- Spraying white cement and stone powder
- Spraying fire retardant materials
- Straw spraying
- Mortar spraying
- Mortar transfer
- Furnace insulation
- Slurry injection
- Grout injection

Technical Information	Electrical
Main Electromotor of pump	5.5 kw- 380 v
Mixer Electromotor	3kw- 380 v
Air Compressor	250 L
Granulation Size	0-6 mm
Pumpable Height	30 m
Length of horizontal pumping	50-70 m
Pump Pressure	30 round
Output capacity of pump	20-40-60 L/min
Output capacity with other pumps	10-50 L/min
Vibrator	0.15 kw- 3000 round- 100 kg
Size of material hose	1.5 inch
Mixer Volume	130 L
Length	190 cm
Width	130 cm
Height	150 cm
Weight	350 kg

T13m

Multifunctional piston shotcrete machine

One of the top piston pumps in the world, T13-M piston pump offers the user a wide range of capabilities in a variety of tasks, including plaster spraying, transfer, and grout injection, as well as practically all consumable materials, including the need of a separate air compressor for pumping, this pump's additional features include being a good substitute for dry shotcrete and being employed in projects where shotcrete is used on varied surfaces, including excavation and soil stabilization. Materials are fairly reasonably priced for contractors and employers.

This pump is more portable, lighter, and smaller in size when compared to comparable versions, making it ideal for modest tasks. This pump's capacity to operate with three different driving forces, a single-phase electric motor, a three-phase electric motor, and a gasoline engine, is one of its distinctive characteristics.

Another benefit of the machine is that the mortar storage tank is separated from major body in two-piece models, which makes it easy to carry and move.

Currently, piston pumps are one of the most popular types of devices.





Technical Information	Single-phase	Three-phase	petrol
Driving force	3.7 kw-220 v	4 kw-380 v	16 Hp- 3000 round/min
Pump Pressure	40 round	40 round	40 round
Granulation Size	0-6 mm	0-6 mm	0-6 mm
Output volume capacity	20-60 L/min	20-60 L/min	20-60 L/min
Pumpable height	20 m	30 m	30 m
Length of horizontal pumping	60 m	100 m	100 m
Air Compressor	250 L	250 L	250 L
Size of mortar hose	1.5 inch	1.5 inch	1.5 inch
Tank volume	180 L	180 L	180 L
Vibration	0.15 kw- 3000 round- 100 kg	0.15 kw- 3000 round- 100 kg	0.15 kw- 3000 round- 100 kg
Length	115 cm	115 cm	115 cm
Width	110 cm	110 cm	110 cm
Height	105 cm	105 cm	105 cm
Weight	390 kg	390 kg	390 kg

Pumping and spraying capability

- Mortar spraying
- Mortar transfer
- Mortar injection
- Grout injection
- Injection and transfer of all types of grout
- Slurry transfer
- Reinforcing mortars
- Colored cements
- Furnace insulation
- Polymer material shot
- Mortar pumping for prefabricated walls
- Fibrous mortars



T13b1

Multifunctional piston shotcrete machine

One of the greatest piston pumps now on the market, the T13-B1 piston pump offers the user a wide range of capabilities in a variety of tasks, including plaster spraying, transfer, grout injection, and practically all consumable materials. One of the other features of this pump that can be stated is that it is a good substitute for dry shotcrete, which is utilized in projects for a variety of surfaces, including excavation, nailing, stabilizing soil, etc. Employers and contractors may purchase a separate air compressor for pumping materials at a very low cost. One of the features and benefits of the T13-B1 pump is its main mixer, which eliminates the need for diesel-powered equipment in projects with intermittent power supplies. It can create the utilized mortar even if it lacks an external mixer.

Also, this pump can work with electric and diesel power.

- Changing the pumping state according to the design of the gearbox
- Easy transportation on the road due to the designed axle and wheels of the chassis
- Mesh tank of the device to prevent coarse materials from entering the tank





Pumping and spraying capability

- Mortar spraying
- Mortar transfer
- Mortar injection
- Grout injection
- Slurry transfer
- Injection and transfer of all types of grout
- Reinforcing mortars
- Colored cements
- Fibrous mortars
- Polymer material shot
- Light concrete

Technical Information	Diesel	Electrical
Main driving force	18 Hp	11 kw
Pump Pressure	40 round	40 round
Granulation Size	0-8 mm	0-8 mm
Output volume capacity	20-80 L/min	20-80 L/min
Pumpable height	100 m	100 m
Length of horizontal pumping	300 m	300 m
Air Compressor	250 L	250 L
Tank Capacity	180 L	180 L
Mixer Capacity	200 L	200 L
Size of mortar hose	1.5-2 inch	1.5-2 inch
Length	165 cm	165 cm
Width	120 cm	120 cm
Height	145 cm	145 cm
Weight	820 kg	780 kg

T13b2

Multifunctional piston shotcrete machine

One of the greatest piston pumps on the market, the T13-B2 Aba piston pump has an exceptional design and a solid construction. It can be used for a variety of tasks, including plastering, grout injection, transfer, and practically all consumable materials.

Aside from its numerous advantages, this pump's ability to replace dry shotcrete in projects is one of its many noteworthy qualities. It is particularly cost-effective for employers and contractors since there is no need for a separate air compressor to pump materials.

Moreover, this pump can work with electric and diesel power.

- Changing the pumping state according to the design of the gearbox
- Easy transportation on the road in terms of designed axle and wheels of the chassis
- Mesh tank of the device to prevent coarse materials from entering the tank
- Only difference between this machine and machine T13-B1 is that it does not have a primary mixer for making mortar







Technical Information	Diesel	Electrical
Main driving force	18 Hp	11 kw
Pump Pressure	40 round	40 round
Granulation Size	0-8 mm	0-8 mm
Output volume capacity	20-80 L/min	20-80 L/min
Pumpable height	100 m	100 m
Length of horizontal pumping	300 m	300 m
Air Compressor	250 L	250 L
Tank Capacity	180 L	180 L
Mixer Capacity	200 L	200 L
Size of mortar hose	1.5-2 inch	1.5-2 inch
Length	165 cm	165 cm
Width	135 cm	135 cm
Height	145 cm	145 cm
Weight	780 kg	720 kg

Pumping and spraying capability

- Mortar spraying
- Mortar transfer
- Mortar injection
- Grout injection
- Slurry transfer
- Injection and transfer of all types of grout
- Reinforcing mortars
- Colored cements
- Fibrous mortars
- Polymer material shot
- Light concrete

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