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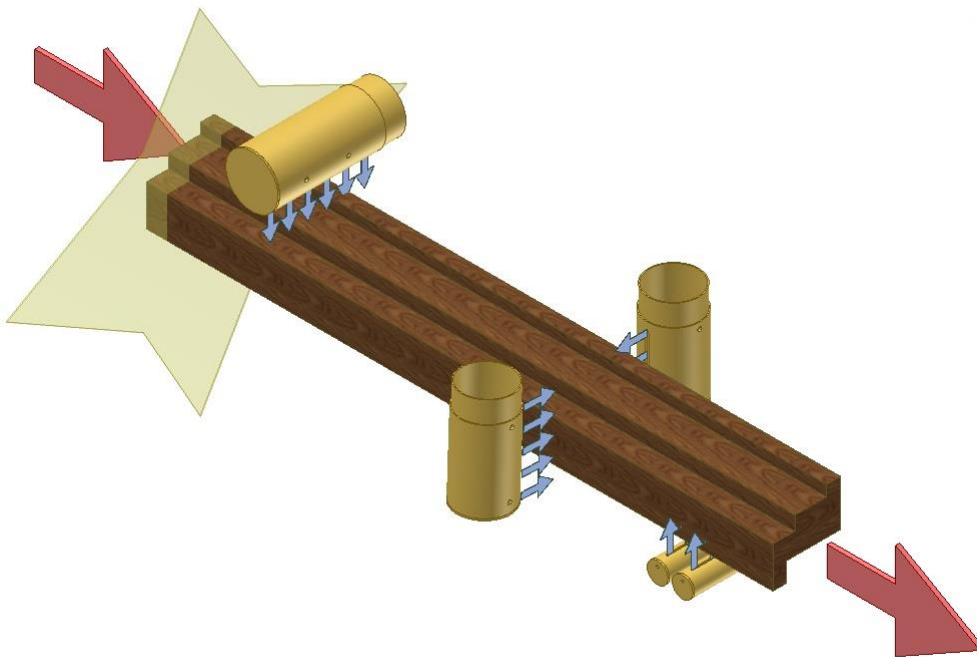
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IMPREGNATING MACHINE FOR MACHINED ELEMENTS
MODEL *Q - BASE*



INTRODUCTION:

The Apache Q - BASE was developed to apply a protective liquid on any wooden elements, both solid and laminated wood, with constant and not constant profile (shaped or profiled) machined and not machined yet against whetering, bacteria, algal, rot, cracking, blistering and flaking. Thanks to a set of powerful air blowers, the Q-BASE assures a perfect application, coverage and finishing of impregnant, primer, anti-fire liquid or decorative colored products even in the most hidden or narrow areas.

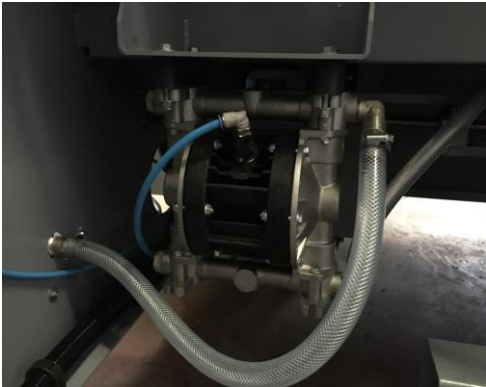


Q-BASE Main Description

Our machines are designed and manufactured according to clear and simple principles of functionality, maintenance and reliability, making them one of a kind in terms of new concepts.

These are:

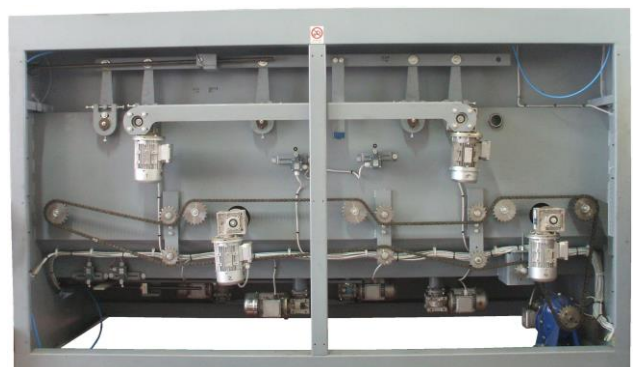
- A spraying area powered with double membrane pump and characterized by a recovery and recycling filter that separates the waste solid particles from the cleaned liquid optimizing the impregnant consume and eliminate its dispersion.



- The 8 spray nozzles are fan-shaped type to grant a perfect and homogeneous primer application. Thanks to a quick removing mechanism nozzles cleaning and maintenance is extremely simple. A series of filters prevent the nozzles block due to the primer waste or the dust particles. For an optimal liquide dosage, each single nozzle is equipped with an independent regulator.



- The operating mechanisms (chains, pulleys, bearings and wheels) are all located in a liquid-proof area completely outside the impregnating chamber protecting them by the typical corrosion due to treatment liquid.



- A powerful fan unit providing up to 600 lt/min assures the required quantity of air to the 5 blowers.



- Thanks to 5 air blades any excess of primer is literally blown away from the work-piece with a super grade of finishing including profiles with narrow angles or special profiled shaped. The 5 air blades are located on adjustable arms that permit the best position according to the workpiece dimensions



- The workpiece feeding system is made of a serie of V type metal bracket mounted on a gardle chain running inside the machine. The V shape assures a minimum contact (2 points only) between the workpiece and the feeding unit. Furthermore two polizene adjustable guides ensure a constant and safe motion of the workpieces



- Air blades adjustment is fast and accurate by external control. A single hand-wheel adjust all vertical air blades. Another hand-wheel adjust all horizontal air blades.
- Any work-piece dimension differences are automatically offset by the machine mechanisms.
- An series of electronic inverter to adjust the feeding speed and the power of the air blades



- The machine frame is covered with anti-adherent material (Teflon) to minimize the cleaning time and to facilitate the removal of the waste primer from the machine at the end of the day.



Thanks to the above mentioned features we can grant following performances as:

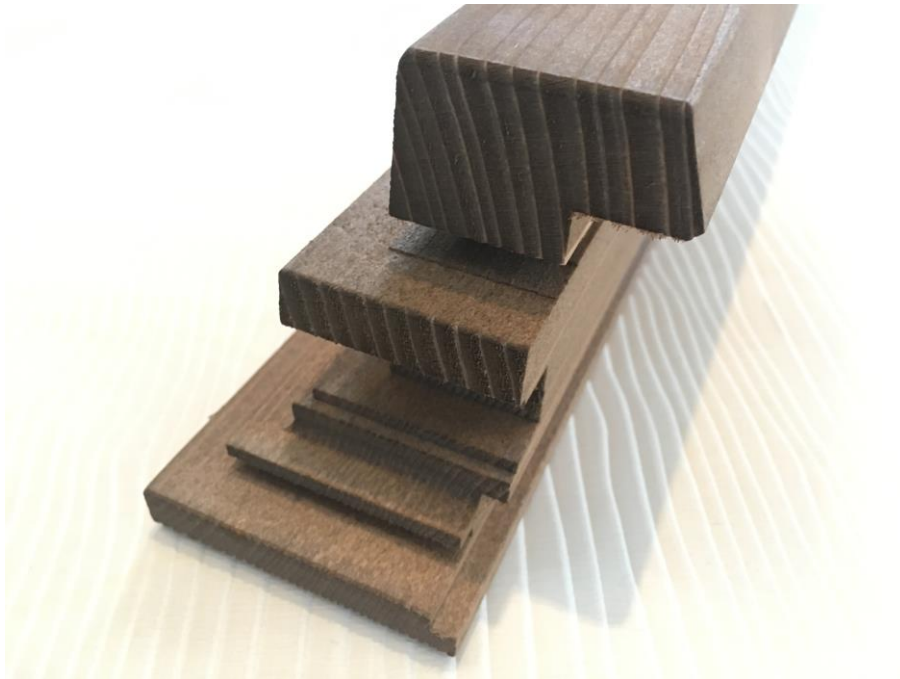
- A constant quantity of impregnant liquid will protect the workpiece without offset or unpleasant excess of liquid (drops and leakages).



- A unique flexibility in colour changing (from 5 to max. 20 minutes required)



- Structure protection is drastically increased thanks to the protection of the hidden parts as tenons, grooves, dovetails and joints.



- The treatment fully covers the surface of the wood element, including in the areas not visible once the structure has been assembled.



- The re-cycled impregnant or anti-fire liquid is completely cleaned by the filter unit assuring any removal of un-esthetical particles or wood chips
- Working time required is considerably reduced, one day working by hand equals 90 minutes of work with a Sarmax machine
- Reduced cleaning and maintenance time

TECHNICAL FEATURES

- Approx. overall dimensions	250x140x h240 cm
- Max workpiece width	20 cm
- Max workpiece thickness	15 cm
- Min workpiece length	30 cm
- N° of adjustable air blades	5
- N° of spraying nozzles	8
- Automatic spraying pump	pneumatic
- Feeding speed by inverter	5 - 25 mt/min
- Air consumption	600 lt/min.
- Air working pressure	5 bar
- Fan motor power	Kw 5,5
- Feeding motor power	Kw 1

OPTIONS AVAILABLE:

In-feed / out-feed roller tables (450 x 2500 mm. each side)

Automatic loading system



Including:

Loading area with 3 motorized chains dimensioned as follow:

Total length of the chain 3000 mm

Total width from 1st to 3rd chain 2800 mm (max piece length 5000 mm)

Motorized roller table to feed the Apache dimensioned as follow:

Roller \varnothing 78 mm

Roller table width 430 mm

Roller table length 4000 mm

Vertical electro-pneumatic hold-down idle roller

Automatic down-loading system



Including:

Motorized roller table from Apache to parking area dimensioned as follow:

Roller \varnothing 78 mm

Roller table width 430 mm

Roller table length 4000 mm (max. piece length 5000 mm)

Nr. 3 Pneumatic ejector managed by photocell units

Parking area with 3 inclined idle roller ways dimensioned as follow:

Total length of the parking area 3000 mm

Total width of the parking area 2800 mm (max piece length 5000 mm)

Automatic work-piece extractor



The automatic extractor unit ensures the safe exit of the workpieces from the impregnating machine. Thanks to two vertical-axis motorized rollers the extractor takes the workpiece and sideways and pull it completely out of the impregnating machine transferring it on the intermediate roller conveyor. The system is controlled by a photo-sensitive device that operates when each workpiece passes by. The extractor rollers are fitted on a pneumatic system with adjustable pressure to ensure the right extraction power and adaptability according to the small dimensions differences between one piece and the next.

Automatic vertical drying system at room temperature



Including:

Motorized out-feeding roller table with variable feeding speed
from Q-Base to the loading position dimensioned as follow:

Roller Ø 76 mm

Roller table width 430 mm

Roller table length 6000 mm

Vertical carousel with step by step advancing movement
dimensioned as follow:

2 vertical loading chains with pins

Workpiece thickness from 15 to 40 mm

Workpiece width

Workpiece length from 3 mt to 5 mts

Productivity: from 8 to 10 pieces per minute

Total carousel capacity: 100 pieces

3rd vertical loading chain with pins to reduce the minimum
workpiece length from 3 to 1 mt

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