

Arplastik LLC

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COMMERCIAL PROPOSAL.

Arplastik, Izhevsk Composite Technology Plant, is ready to supply equipment for producing fiberglass reinforcement.

Production line **КА – 2** is intended for producing composite reinforcement made of glass and basalt roving to use it as a reinforcing element in construction.

Special characteristics of the line:

The line operates in two streams for diameter up to 16 mm, in one stream for bigger diameters. Before polymerization chamber roving is additionally dried to take away excessive moisture. To avoid microexplosions inside reinforcement roving is coiled on a bobbin in separate assembly. Then bobbin is placed into spiral binding assembly. The number of fibers is enough for the equipment to operate for 3-4 hours according to reinforcement diameter and throughput rate. Roving is squeezed in impregnating bath from a shaft and special ribs. Baths are produced with preheating option for better roving extraction and heating in winter time. Impregnated bundle comes to the polymerization chamber where it is heated with special halogen lamps. The oven is equipped with a temperature sensor. It is possible to open the bath mechanically in order to clean it from remaining resin and replace burned lamps or tubular heating elements. Then reinforcement comes to the cooling bath where its temperature is reduced with water. There is a pump to pump out heated water and clean the bath. Then cooled reinforcement comes to the tensioning mechanism and further to continuous cutting assembly where a programmable counter for required length is installed.

Main characteristics of the line:

- production rate 3-4 km for diameter 10-12 mm, per 8-hour shift,
 - production rate 4-6 km for diameter from 4-8 mm, per 8-hour shift,
 - diameter from 4 up to 24 mm, the more diameter is, the less production rate is; however, the products are more cost-effective.
 - line length 18 m + fiberglass rod length up to 6-12 m, workshop length is to be approximately 30 m; line width 2 meters.
- Installed power - up to 25 kW

The lines cost:

KA-2 strengthened (line in two threads, reinforcement diameter from 4 to 24 mm) **from 29 830.00 USD without a coiler and from 32 000.00 USD with a coiler.**

KA – 2 (line in two threads, reinforcement diameter from 4 to 16 mm) – **from 12 7000.00 USD without a coiler and from 14 900.00 USD with a coiler.**

Commissioning, training, installation, technologies are included in the cost of the equipment. Travel expenses to the place of the equipment installation and back to Izhevsk and accommodation expenses for two specialists are not included.

1. Technical characteristics

Characteristic	Value
Production rate, m/min	15-25
Weight, kg	Not more than 1500
Length of the line, m	18
Consumed voltage, V	380

2. Scope of supply

№	Description	Quantity pc.	Delivery time, workdays
001	Bobbin carrier, used to store roving coils and taking roving from it	1	45
002	Impregnating bath with spiral binding assembly, used for impregnating roving with composite and its further extraction. It is also used for profile fiber laying on reinforcement body. Roving heating.	1	45
003	Polymerization chamber, halogen lamps are used for heating (disadvantages: 2 times more expensive than tubular heating elements, fragile), advantage – heating in no time, as impregnated fiber starts moving. (At request, tubular heating elements can be installed, preheating time is 1-1.5 hour (disadvantage – much time to be heated, advantage – cheaper than lamps)	1	45
004	Cooling bath, 2 meters long, water cooling	1	45
005	Pull unit with cutting device (track, advantage – has an advantage of using it with diameter up to 24 mm)	1	45
006	Coiler* OPTION (additionally, at request)	1	45
007	Roving coiler, used to put flat roving	1	45

	into round profiled shape		
008	Control board	1	45
009	Equipment certificate	1	45

*** On the Customer's request, the coiler may be included. (Available at extra charge!!!)**

Materials used:

- Glass roving Advantex
- Epoxy resin
- Resin IMTHPhA (isomethyltetrahydrophthalic anhydride)
- Accelerator UPR A.01

Warranty life - 12 months.