

Automotive Brake Friction Part Recovery Technology Using Composite Materials

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Annotation: The composition will consist of at least two components among the materials. There are composite materials - for example, there are plywood. In all other composites, the components can be divided into a matrix or a connector, and electrical energy - to fill. Composites are usually distinguished by the type of reinforcing filler or the substance of the Matrix.

Key words: Components can be divided, vacuum infusion, matrix or a connector, components

The composition will consist of at least two components among the materials. There are composite materials - for example, there are plywood. In all other composites, the components can be divided into a matrix or a connector, and electrical energy - to fill. Composites are usually distinguished by the type of reinforcing filler or the substance of the Matrix. For more information on the use of professions, you can read the history of composite materials in the post, and this publication is devoted to the methods of production of products from Contose.

Vacuum infusion

For the method of vacuum infusion, a package using a package is required. In the package itself, the reinforcing material is located, the tumor in its composition is filled with liquid fastening plants.

An example of the method is for the production of a scythe. Embrace

The method of transfer composites allows us to distinguish ultra-light cylinders for the allocated gas, in them 2-5 atmospheres, Composite pipes used in the chemical industry and municipal economy, as well as Composite pipes used in network bottling, chemical industry and municipal services. It is easy to understand by the name that fiberglass has a wound on a moving or moving object.

Manual mold

Single samples in the production of products, the most common method is manual forming. Gelcoat is applied to the prepared Matrix - This allows you to choose the material, as well as the color for the product, in order to obtain a good finishing material on the outer part of the reinforced material. Then the filler is placed on The Matrix - impregnated with fiberglass and fasteners, for example, glass. We remove the air bubbles, wait until everything cools down and we determine the file - we cut, drill.

This method is widely used to create car body parts, motorcycles and mopeds. That is, there under the movie " ughlerod " to adjust in unlimited cases.RTM (injection)

When turning off the polyester resin, pulling it from The Matrix and the answer, and using the answer - the penalty is applied. The glass material accumulates between the Matrix and the response form, then the hardness is poured into the staff under pressure - polyester resins. And, of course, the procedure after the treatment.

Pultosis

PULTRAUSASI "BRAOACAOGI". In this method, the method is threeraydi continuous process of stretching composite material through the weighing machine. The speed of the process is up to 6 meters per minute. Through the polymer bath of fibers, they are connected, after which they pass through the previously selected device and acquire the final shape. Next, the material in the mold is heated and the product of the final cut. To from the grid-right click

Products from thermoplastic substances are produced in pressure molds. For this purpose, high-temperature heavy presses use from 12 to 100 tons, and the maximum temperature is 650 degrees. In this way, plastic buckets are prepared. Products from composites

In aircraft, composite materials are widely used. For example, the Solar Impulse from them is builtmoqdavtoklav's transformation.

Autoclave is necessary for the transfer of processes when the atmosphere is above the atmosphere to accelerate the reaction and increase the volume of production of products. Composite materials are inserted into AutoClav in special forms.

The Robot Komplex is designed to operate and automate one of the most time-consuming operations in the terminal cycle for mechanical processing of products from composite materials:

Technologically and remove

Chopped groove for mortgage elements, breaks and positions

Drill and grind through holes of a complex shape

Large size incision holes (window openings, Hatch and other)

Composite materials are materials that do not interact with each other, are formed from the volumetric combination of non-chemically different component (compound) and the components are separated from each other by a clear boundary. Since it contains the best properties (durability, resistance to ingestion, etc.) of any component, the composition material is characterized by indicators that are not characteristic of any of them. Typically, composite materials consist of plastic (metal — inorganic or organic) foundation or matrix, as well as inclusions: metal powder, fibers, strand crystals, thin finisher and others. Types of composite materials: fibrous (reinforced with fibers or spinning crystals); dispersion-dense (reinforced with dispersing particles) and layered (pressed or rolled out of various materials).

Important technological methods of preparation of composite materials: impregnation of matrix material into reinforcing (reinforcing) fibers; forming in a press mold on reinforcing and Matrix tapes; cold pressing of components, then fastening; spraying and then stretching of the matrix on the reinforcing tape; welding of multilayer tapes of components by diffusion method; rolling of reinforcing elements together with The Matrix, etc.k.

Composite materials are used in aviation, Cosmonautics, rocket science, automotive industry, mechanical engineering, mining industry, construction, chemical industry, textile, agriculture, household appliances, radio engineering, energy, pipe production and other industries.

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