

Planing machines for metal



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ПОЛИТЕХ

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Planing machines for metal

Planing - the process of removing layers of metal from plain surfaces of blanks.

The cutter on the planer machine performs reciprocating motion. Such equipment sometimes operate as slots and grooves.

Kind

The planer for the metal can be a **planing planer** or a **cross-planer**.

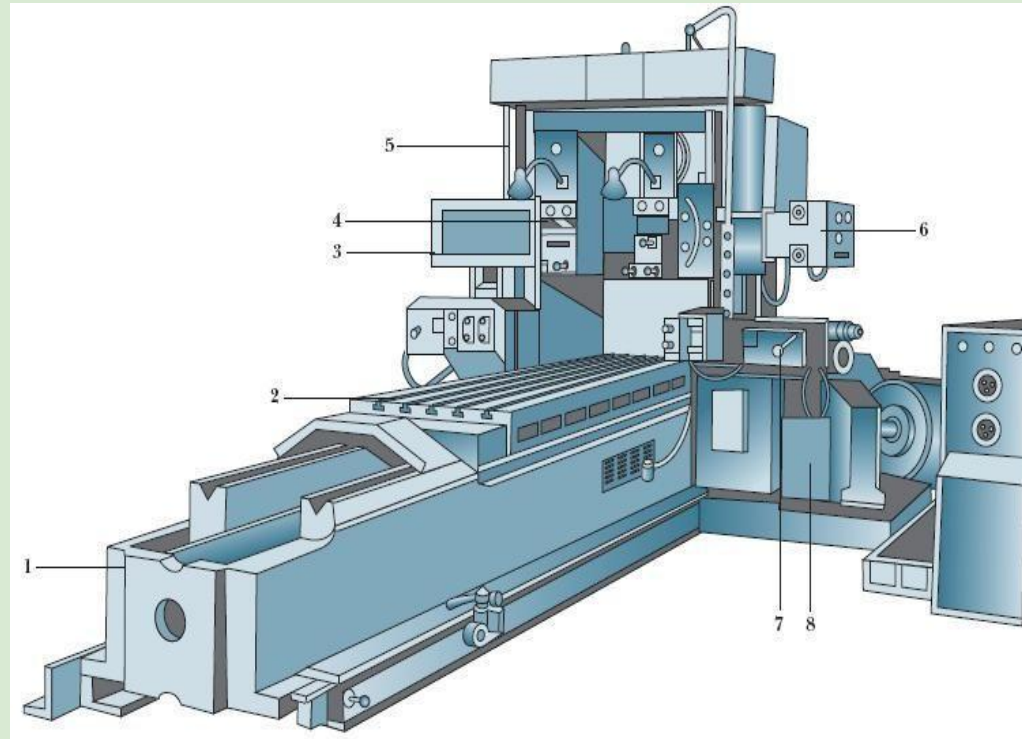
Planer planing machines are designed to process relatively short surfaces, so they receive a table in which the workplace is attached, while the cutter is installed in the cutting head of the support and does not move relative to the machine bed.

In the **cross-planer** the cutter moves, and the half-finished product installed on the table is stationary.

a cross-planer



a planing planer



Classification

1)By type of drive.

hydraulic drive(the speeds of moving nodes are constant)

crank-and-rocker drive

2)By the number of working surfaces that can be processed at the same time.

Four-side planing machines for metal can process simultaneously on all faces of the semi-finished product.

Two-sided - only from opposite sides.

Single-sided machines are predominantly small-sized.

3)By drive power.

Small-sized machines are limited in their functionality, but attract the consumer with a small price and compactness

4)According to the configuration of the movement of the tool or table.

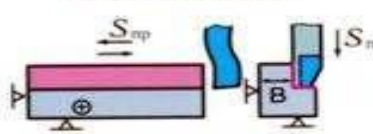
For complex trajectories, planing machines for metal are produced, which are equipped with a ЧПУ system.

They are used in small-scale production.

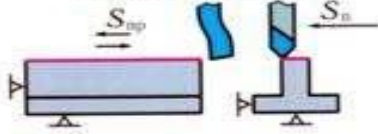
Строгать плоскость



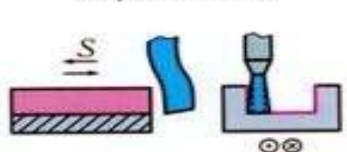
Строгать уступ



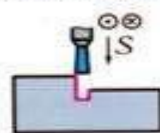
Строгать ребро



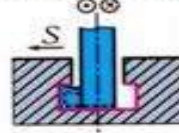
Строгать паз



Строгать канавку



Строгать Т-образный паз



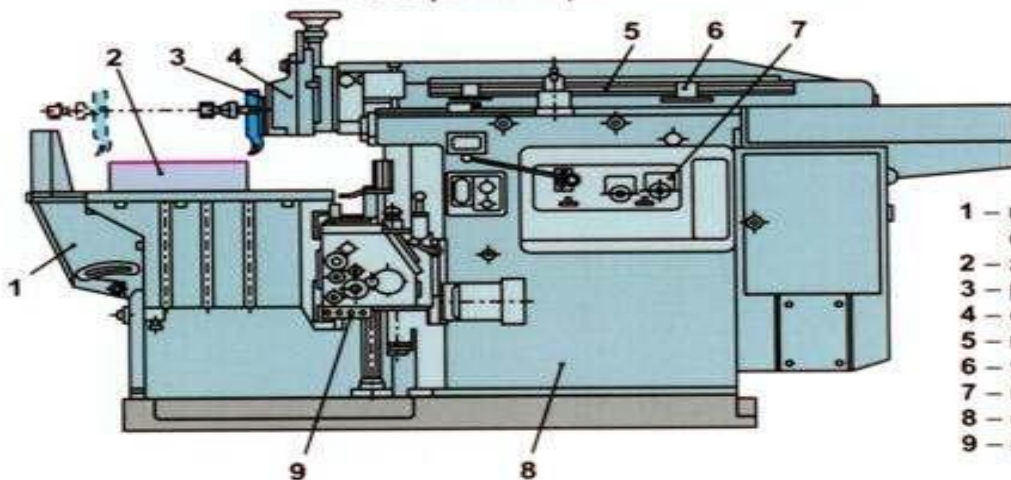
Строгать ласточкин хвост



Строгать фасонную поверхность



Поперечно-строгальный станок



- 1 – консольный стол;
- 2 – заготовка;
- 3 – резец;
- 4 – суппорт;
- 5 – ползун;
- 6 – упоры;
- 7 – гидропанель;
- 8 – станина;
- 9 – поперечина

- 1) overhung table
- 2) blank
- 3) cutter
- 4) support
- 5) slider
- 6) abut
- 7) hydropanel
- 8) frame(stand)
- 9) cross bar

Nomenclature and designation

All sizes of planing equipment are included in the group of machines for processing flat surfaces.

The general classification index for such equipment includes an alphabetic-numeric designation of the form XXXX.

The first index - the digit - determines the reference of the machine to a certain type.

The second index-type of machine (1 - single-column planing;
2 - two-post planing planer;
3 - cross-planer;)

The last two digits indicate the main technological parameter of the equipment.

Thank you!