

# Planing machines for metal



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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**.

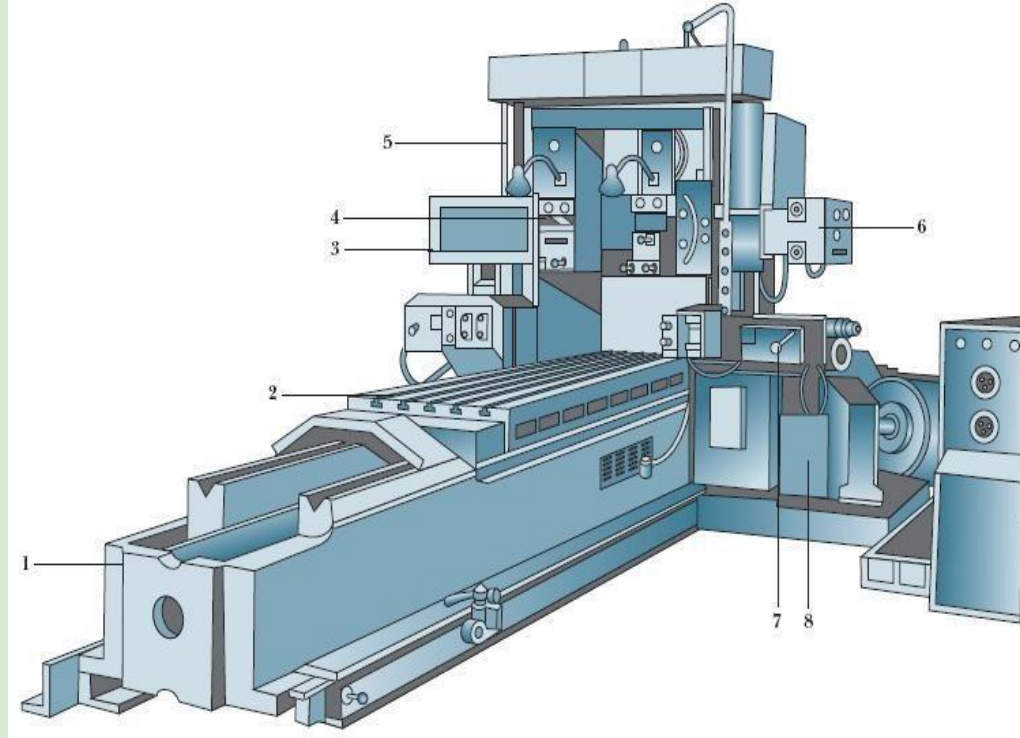
*Planer planing* machines are designed to process relatively short surfaces, so they receive a table in which the workplace is attached, while the cutter is installed in the cutting head of the support and does not move relative to the machine bed.

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.**

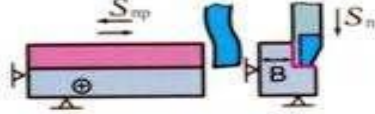
For complex trajectories, planing machines for metal are produced, which are equipped with a ЧПУ system.

They are used in small-scale production.

Строгать плоскость



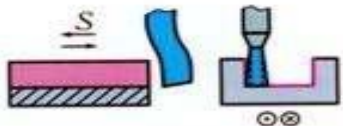
Строгать уступ



Строгать ребро



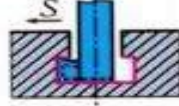
Строгать паз



Строгать канавку



Строгать Т-образный паз



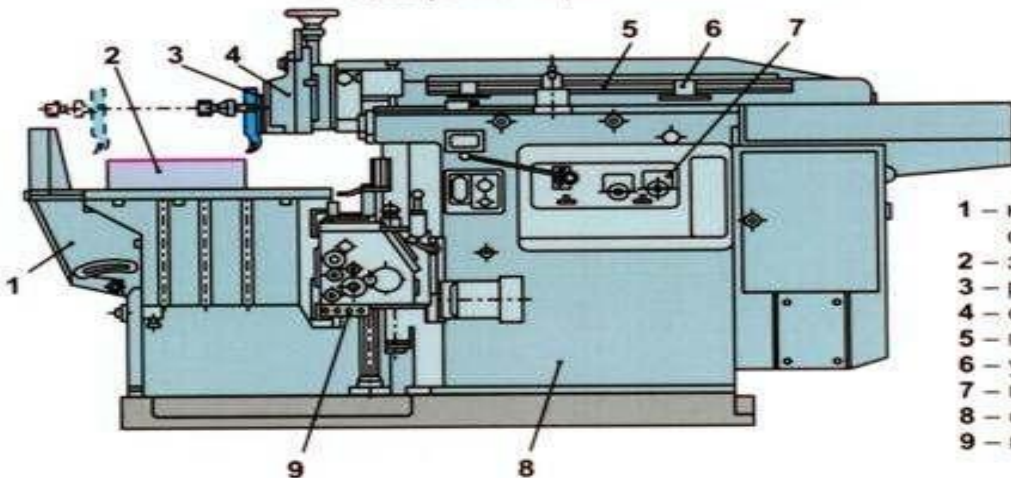
Строгать ласточкин хвост



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!