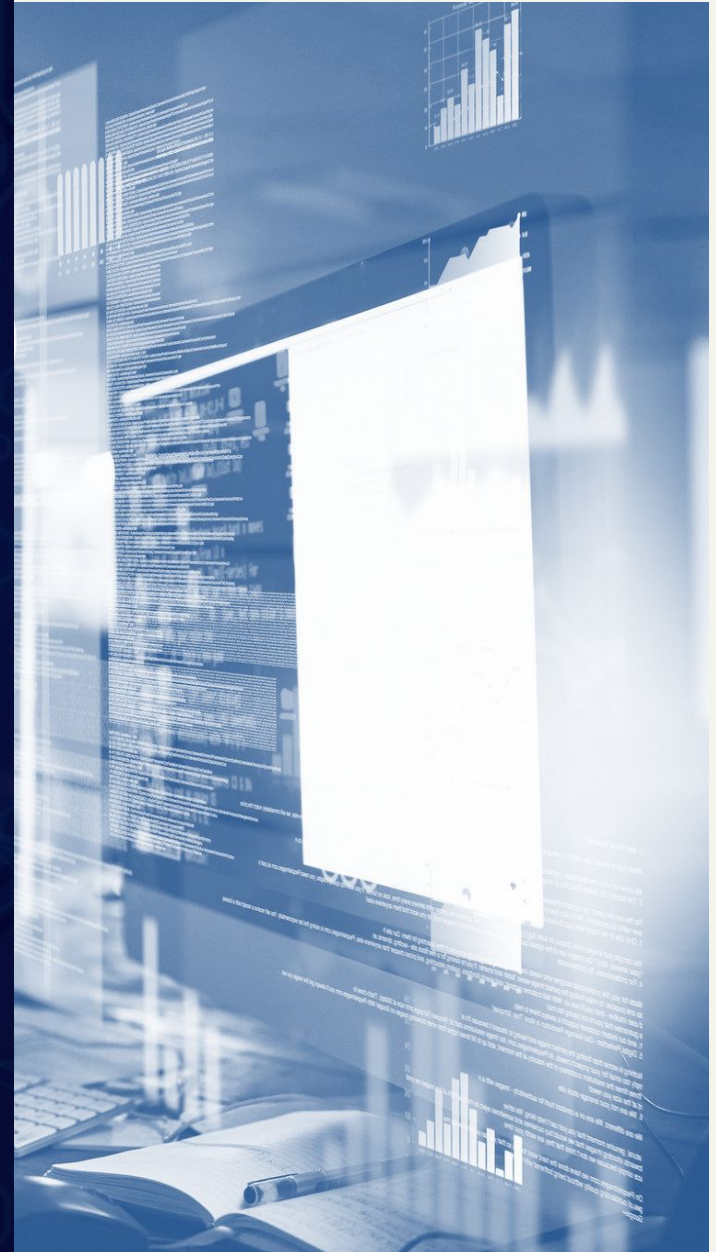
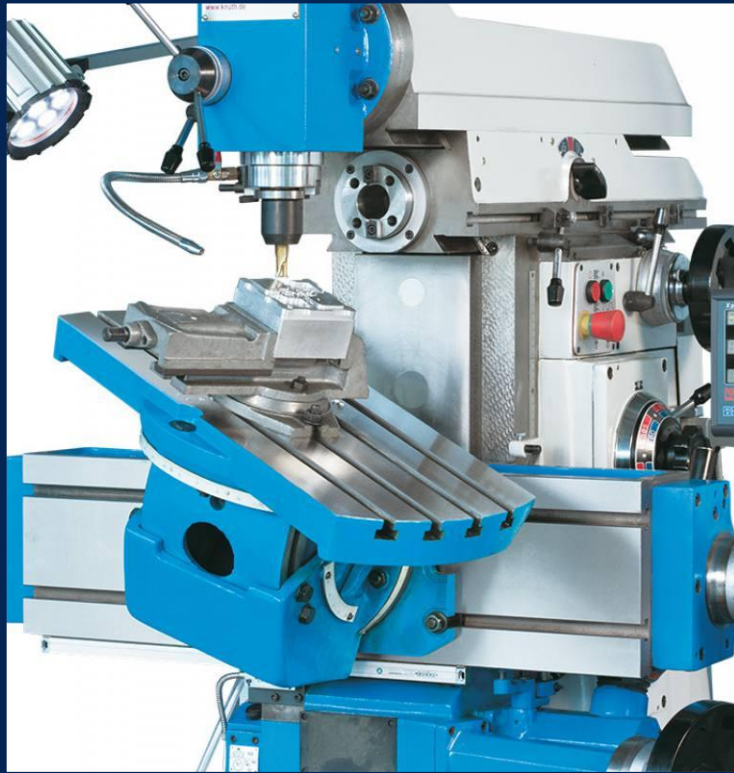


Milling machine



Group TM 41-16
Vadim Smirnov

A milling machine is a machine for processing metal products with a rotating mill during the translational movement of the workpiece.

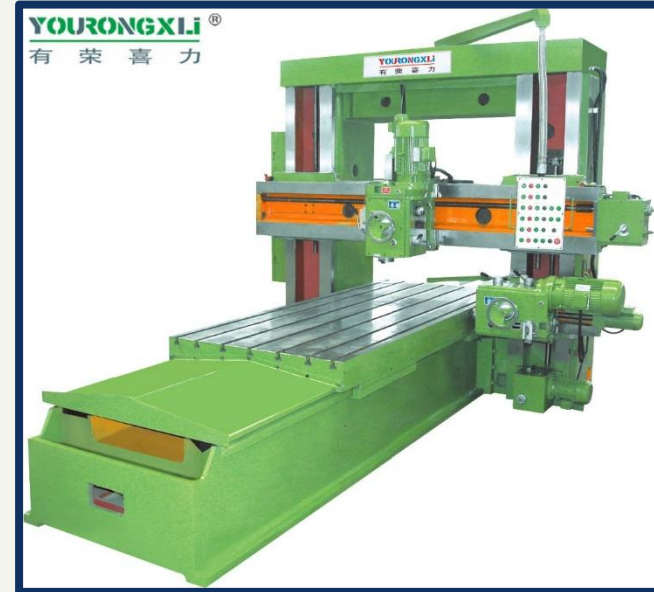


Types of Milling Machines

Vertical milling machine



Longitudinal milling machine



Rotary milling machine



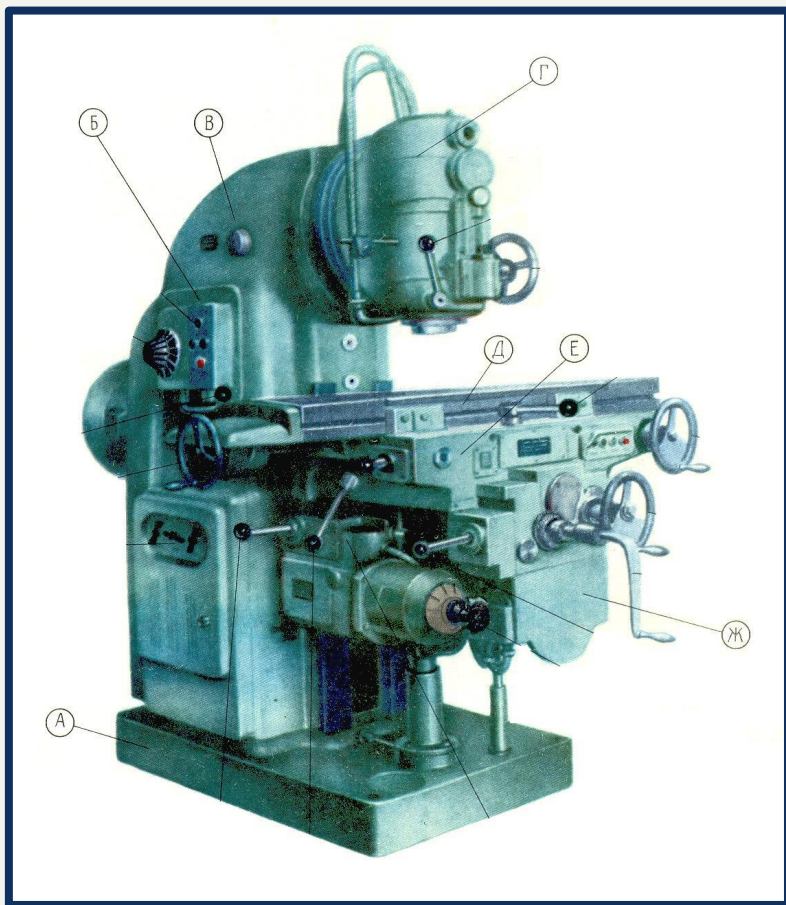
Cantilever milling machine



Two main groups of milling machines

General purpose machines

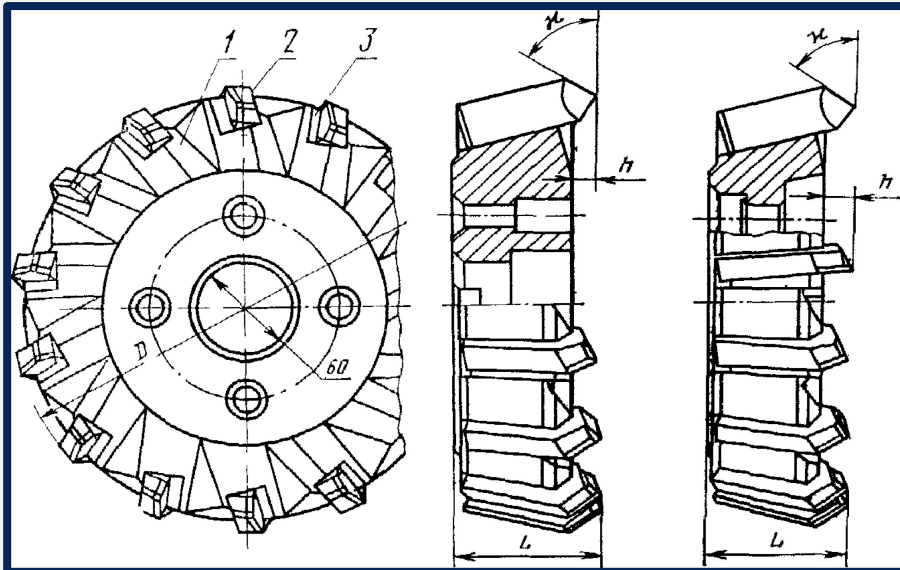
Specialized



On milling machines it is possible to process flat and shaped surfaces with straight and screw components.

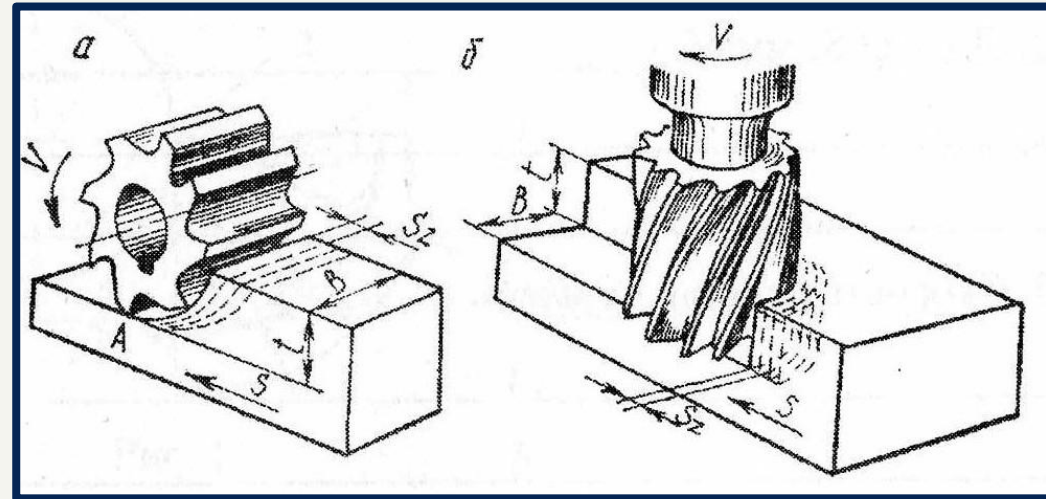
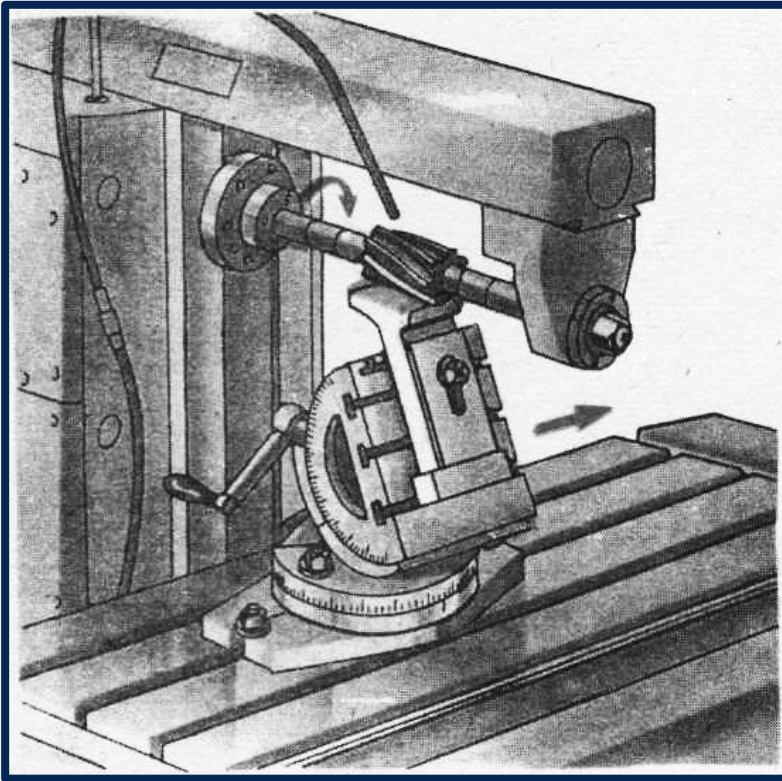


Cutting is carried out by a mill - a multi-blade tool, in which the teeth are located on the surface of the body of revolution or at the end.



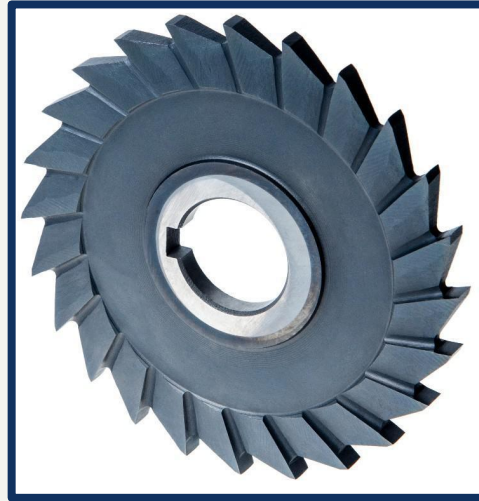
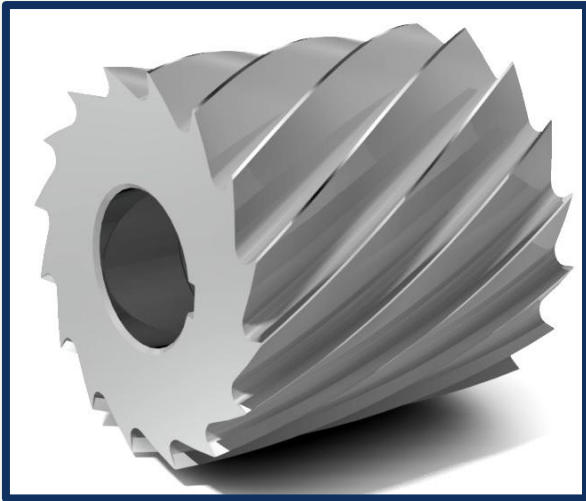
Machine movement

In milling machines, the main movement (rotational) is made by the milling cutter, and either the workpiece or the milling cutter can perform the feed motion.



Types of mills

Mills can be of various designs, of which the most common are cylindrical, disk, end, end, shaped.



Bit of history

It is officially accepted that the first metal milling machine was invented in 1818.

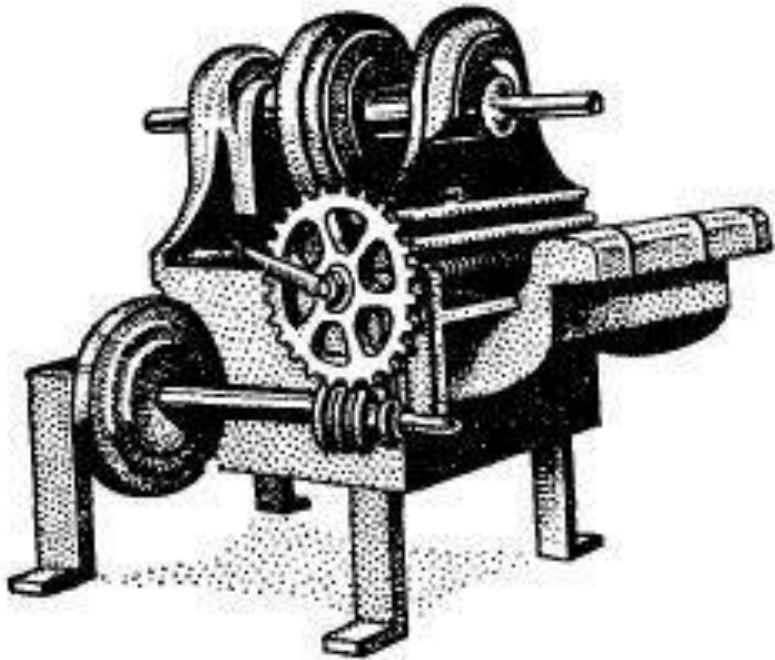
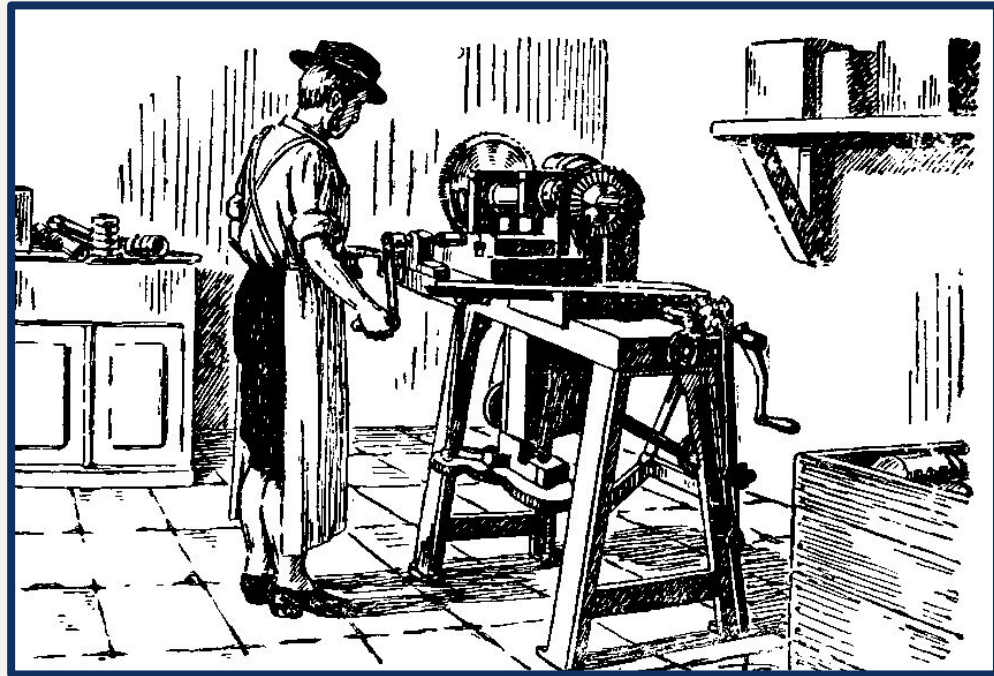


Рис. 114. Фрезерный станок И. Уитни.
1818 г. Фотография с натуры.



Thanks for your attention

