

DIAGRAMS OF MACHINE TOOLS

Kinematic diagrams of a lathe:

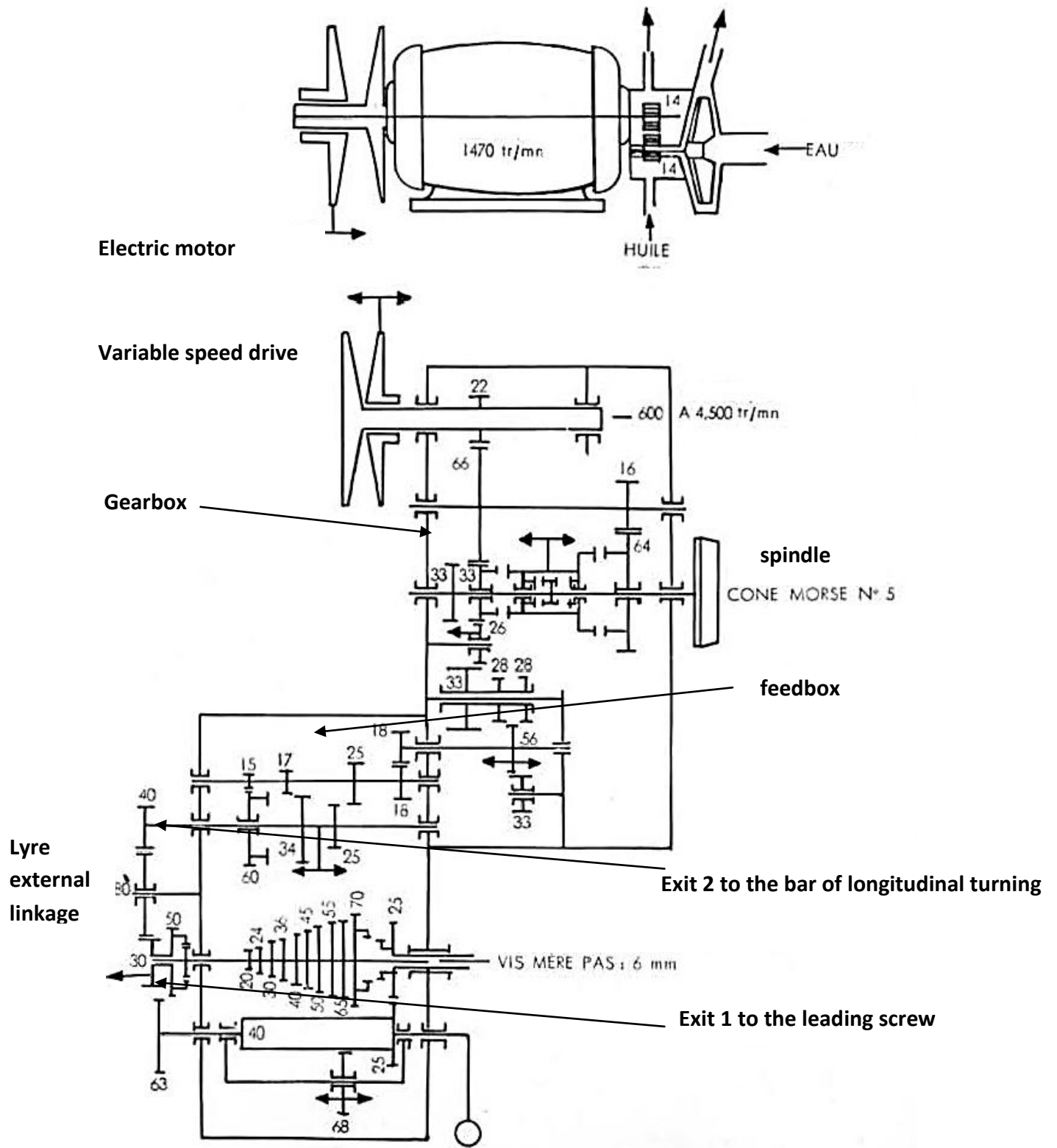


Figure III.22. Cutout diagrams of a lathe

Fixed doll and training of trolleys

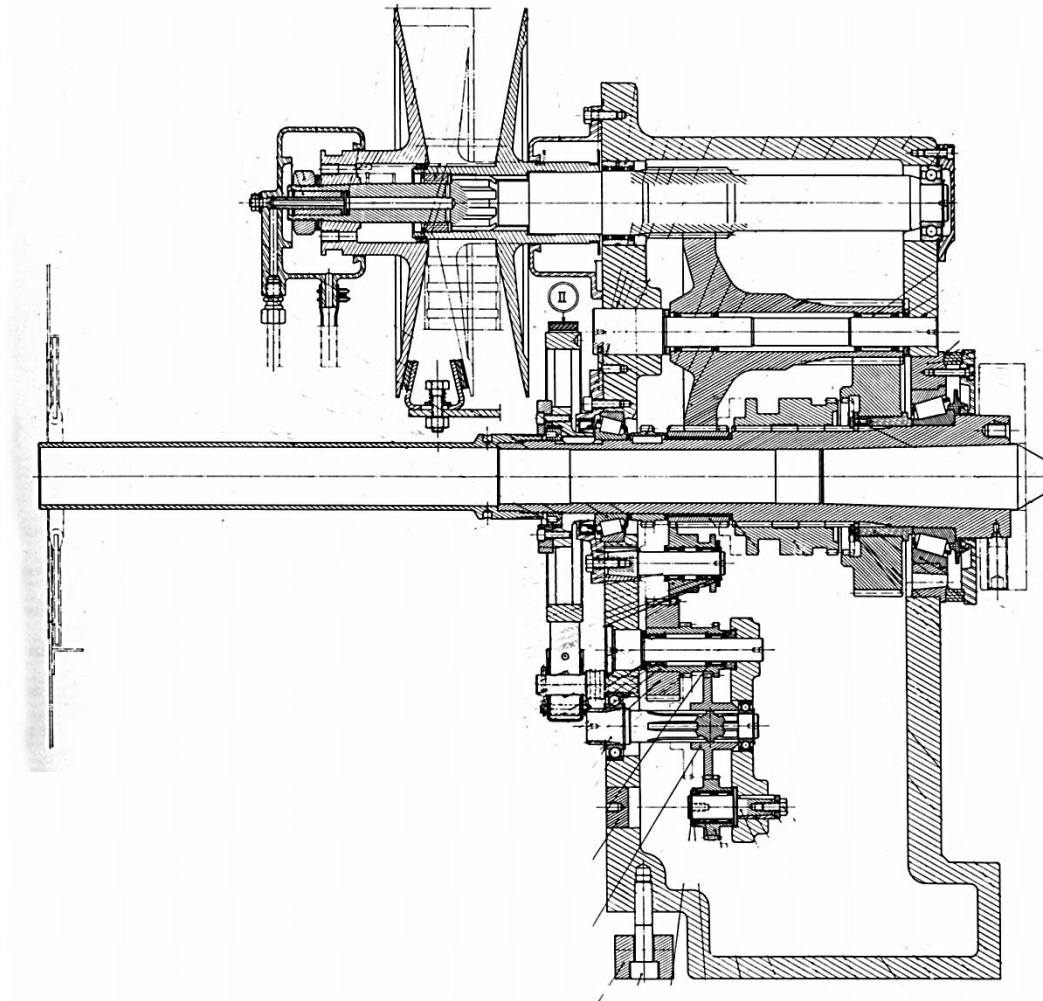
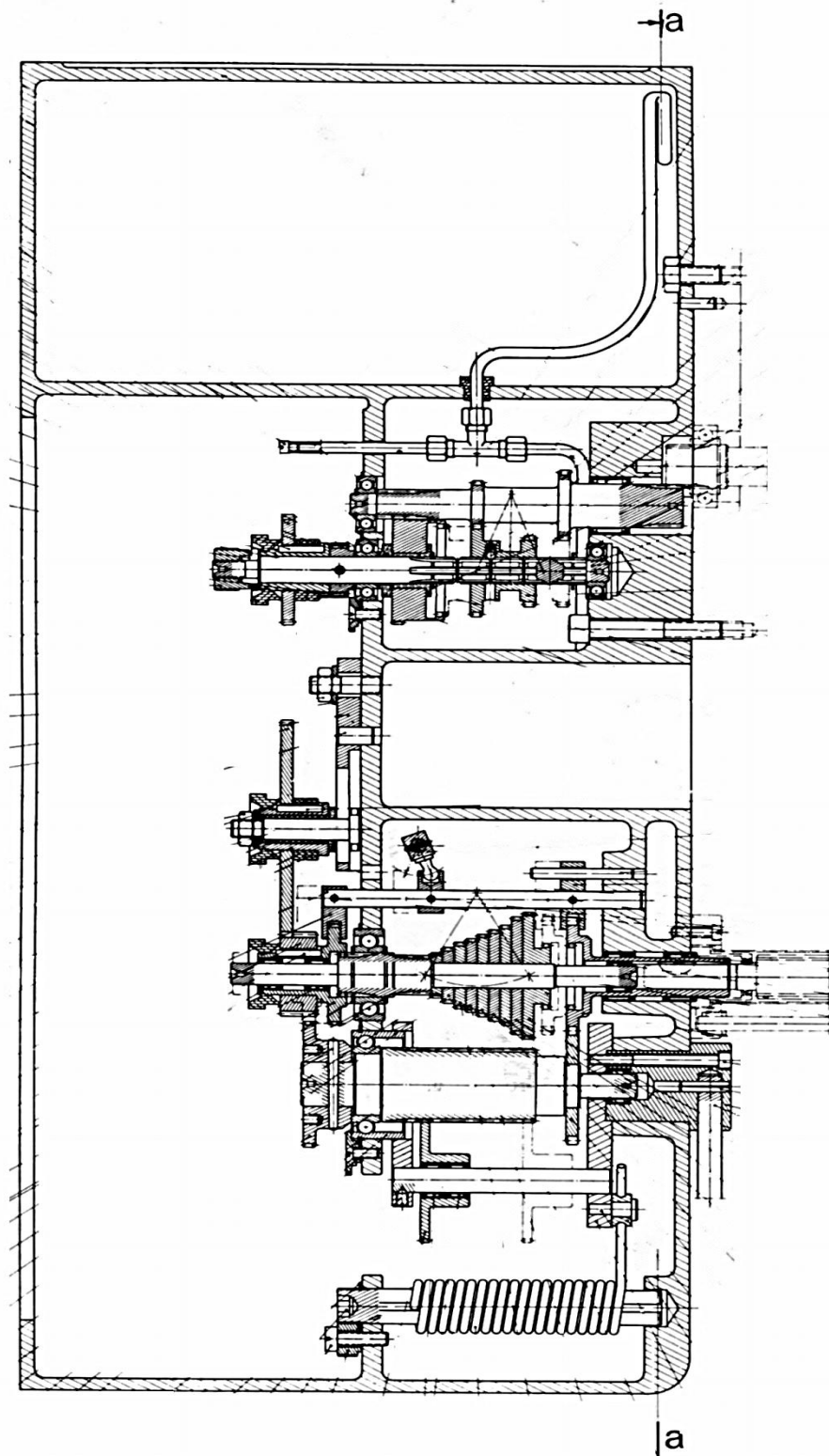


Figure III.23. Cut of the fixed doll.



FigureIII.24 . Feed box cutting

III.1.7.2. Trolleys control:

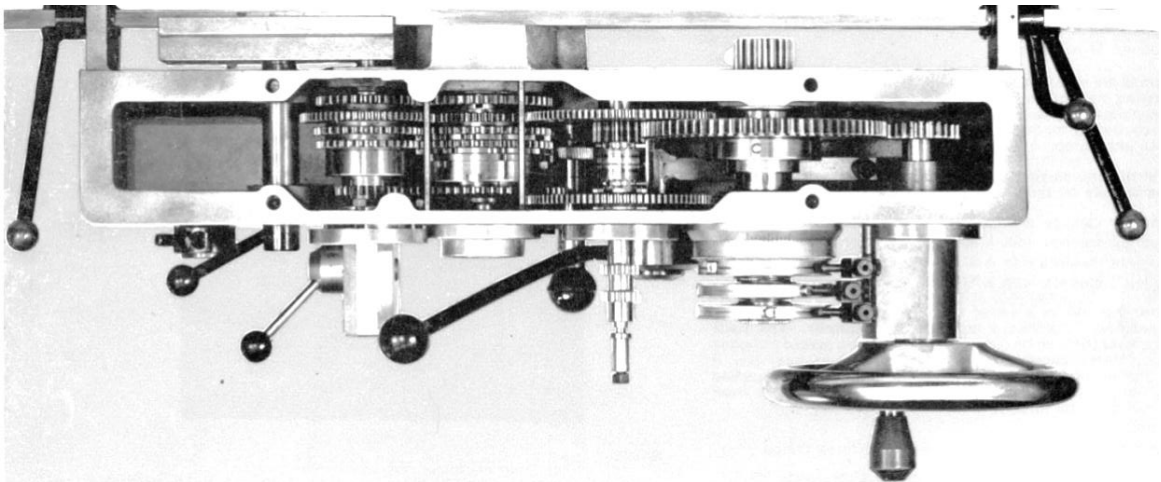
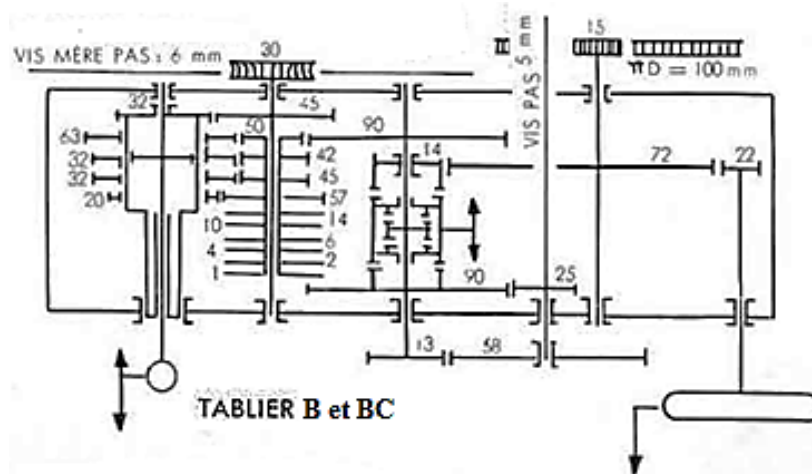


Figure III.25 : Longitudinal Dolly Cut and Kinematic Diagrams

Kinematic diagrams of a drill

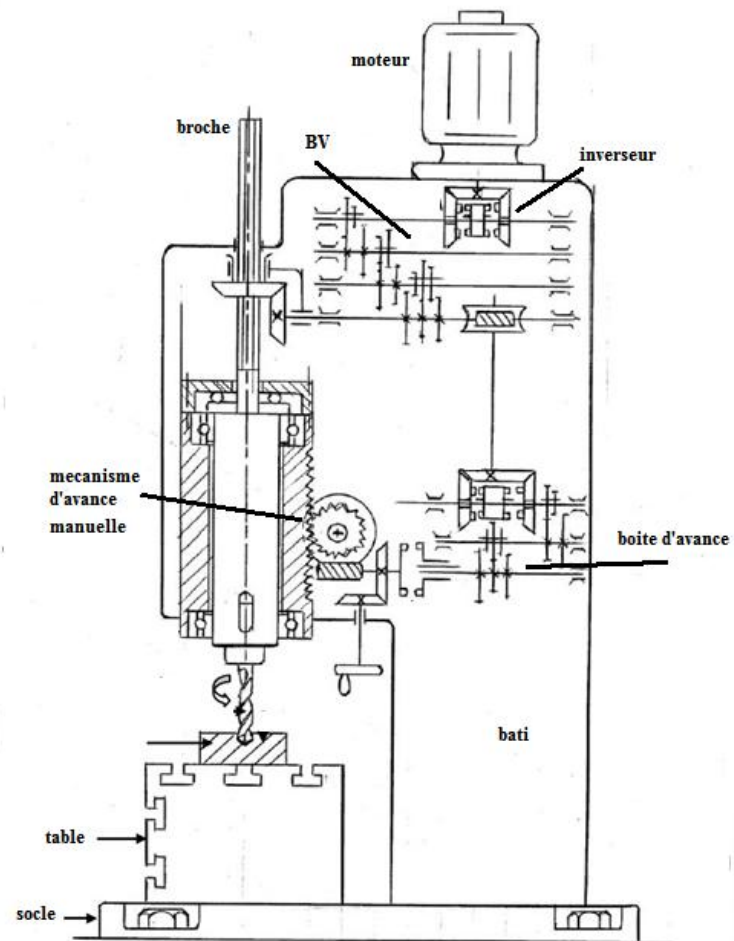


Figure III.36 : kinematic diagrams of a drill



Figure III.37. Kinematic diagrams of a drill feed mechanism

Kinematic diagrams of a milling machine:

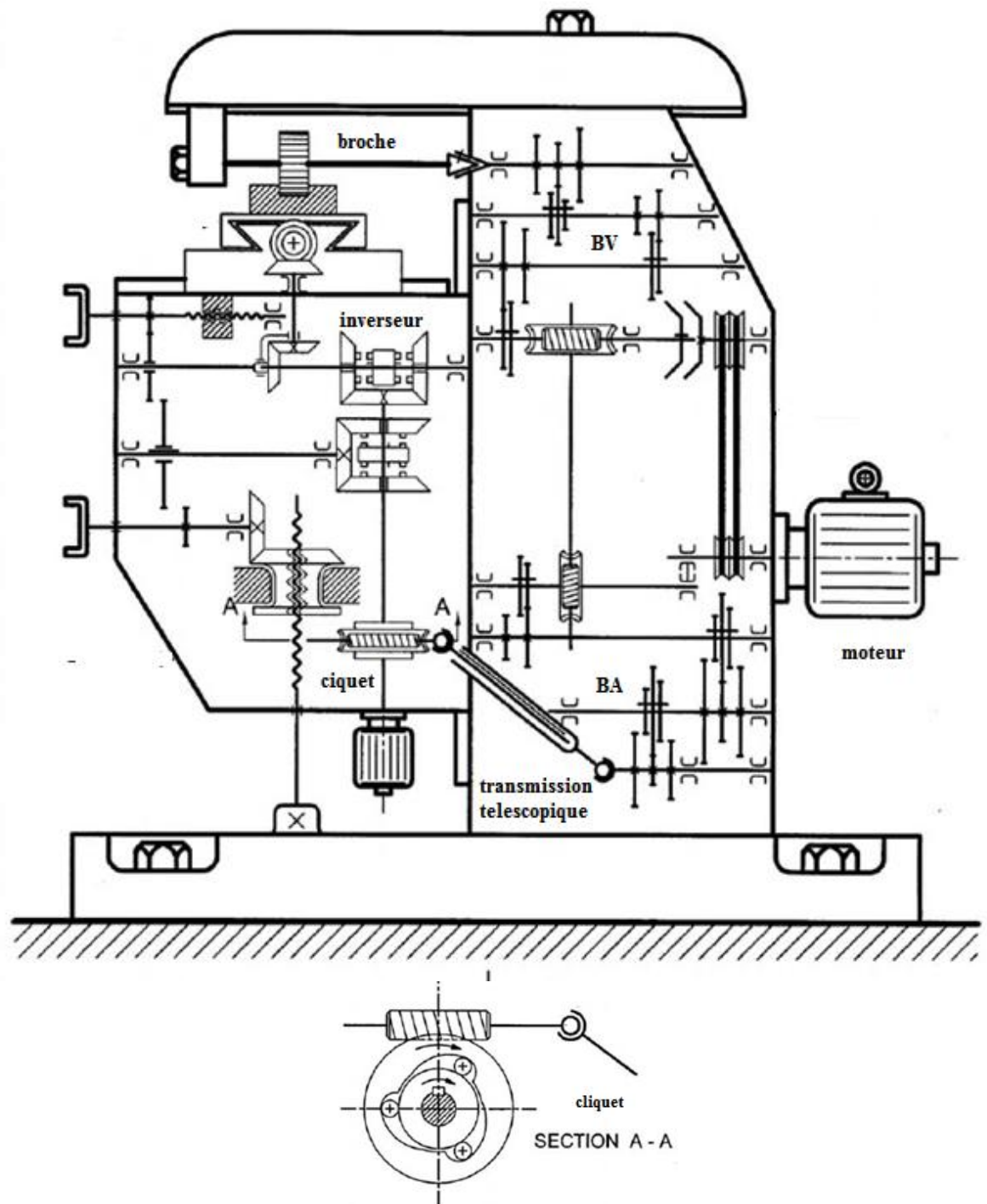


Figure III.57 : kinematic diagrams of a horizontal milling machine.

Kinematic diagrams of shaper:

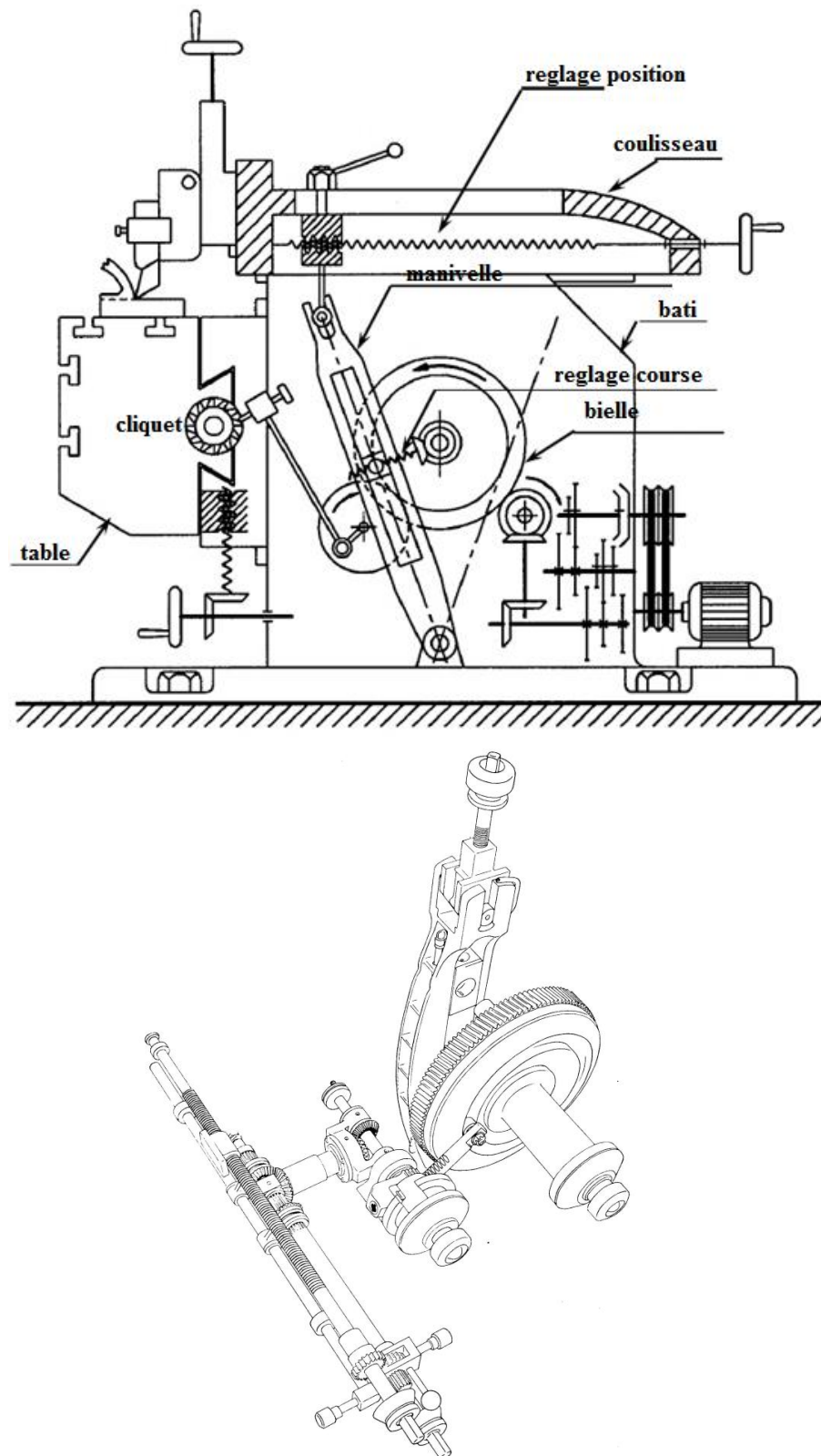


Figure III.64. Kinematic diagrams of a shaper and its feed mechanism.

Kinematic diagrams of a planer:

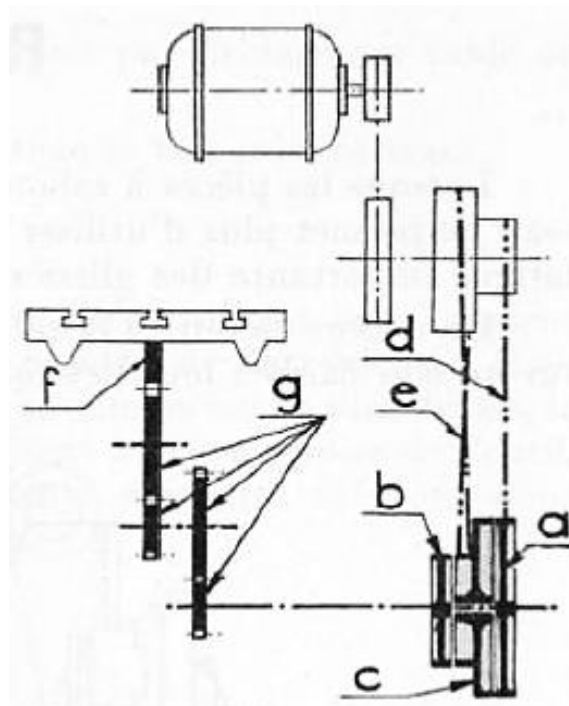
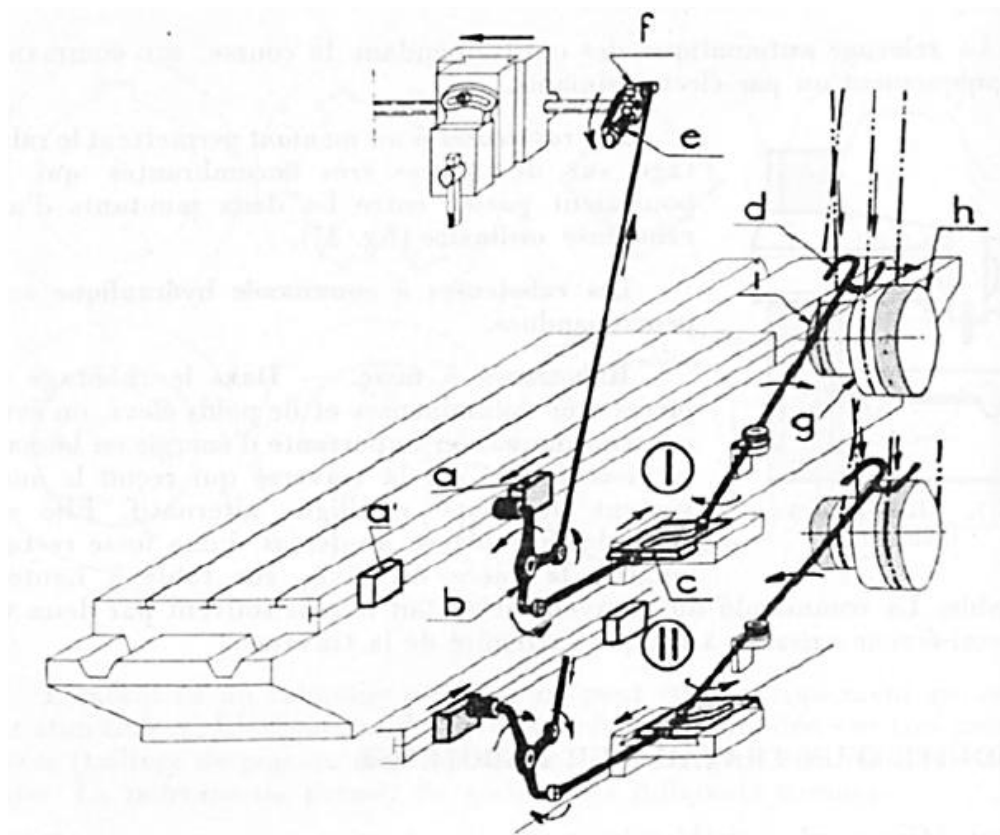
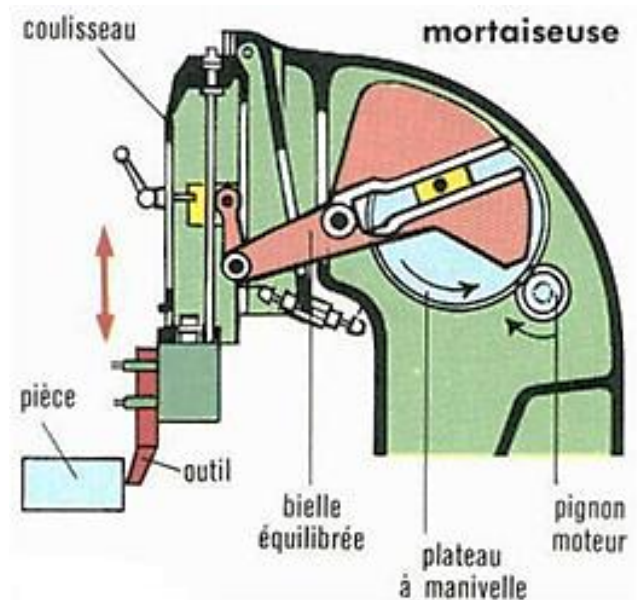
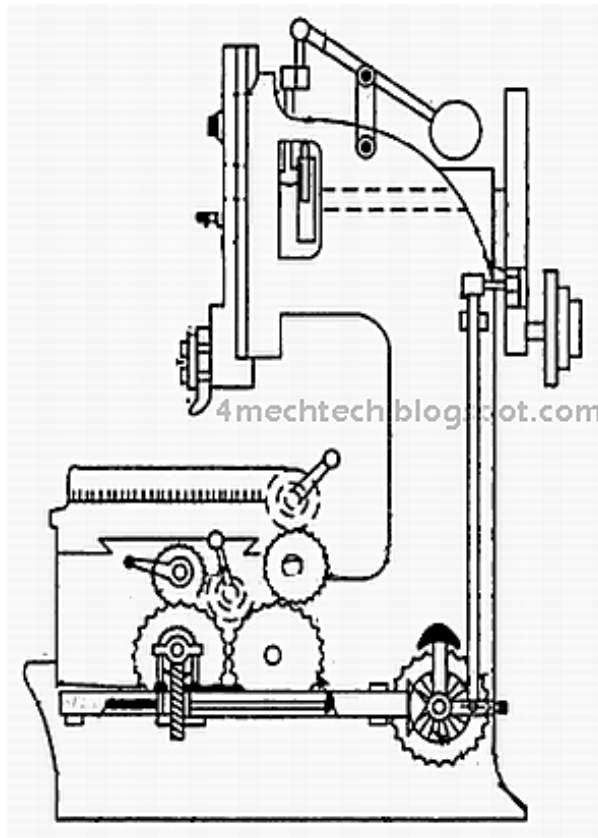
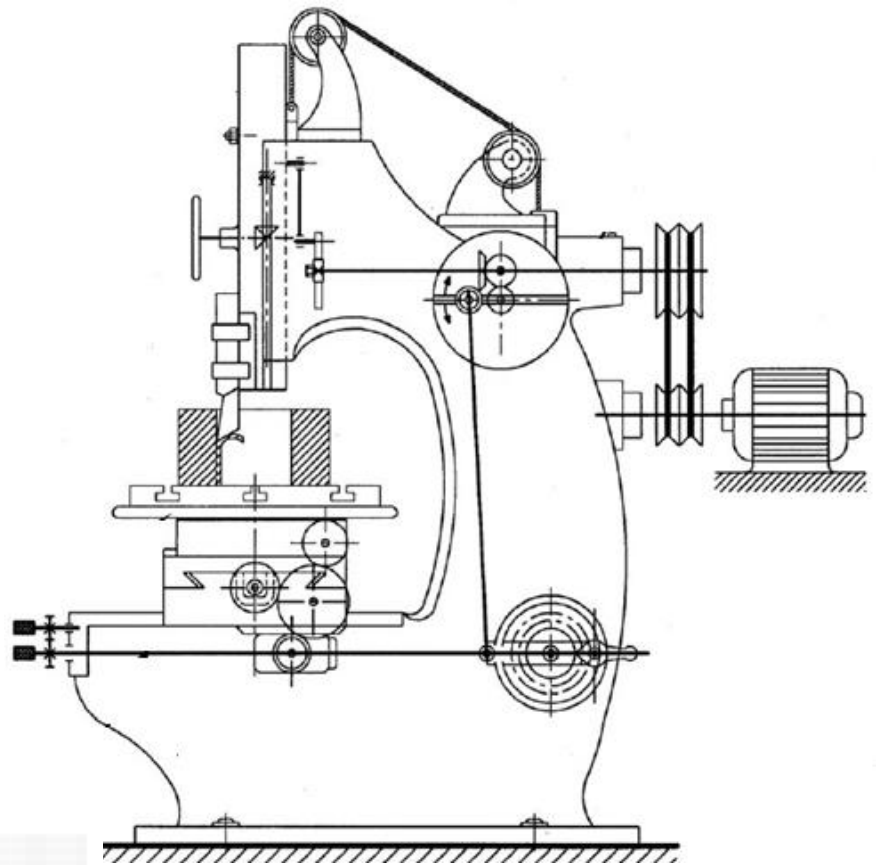


Figure VII-68: planer kinematic chain

Kinematic diagrams of a slotter:



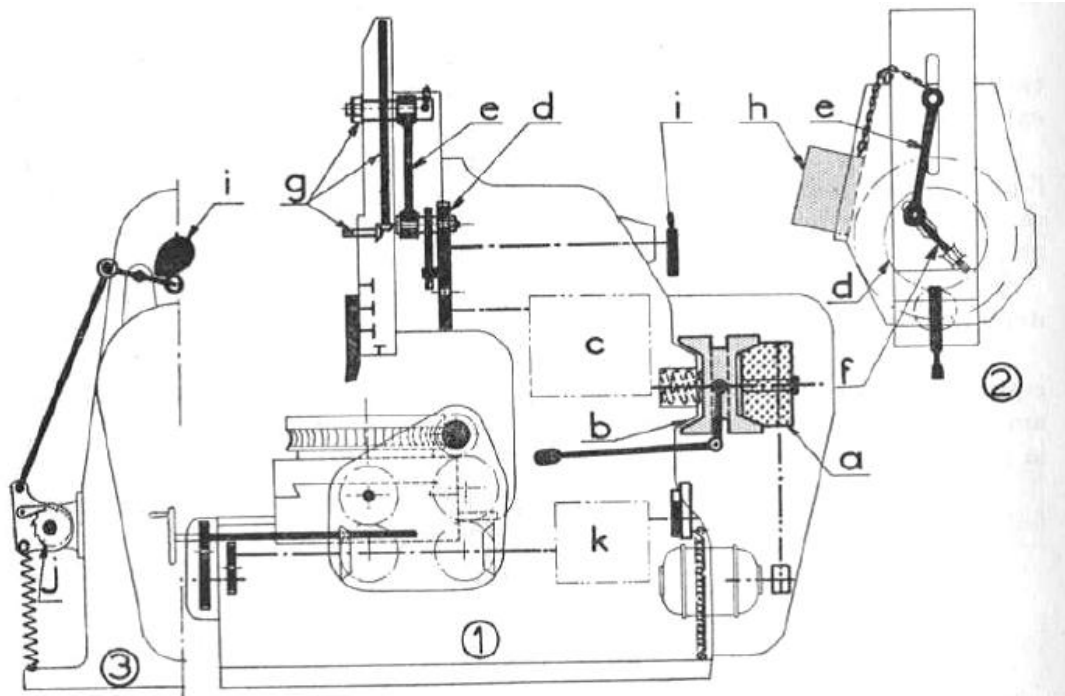


Fig. 41. — Chaîne cinématique d'une mortaiseuse (1; 2: tête inclinable; 3: came et dispositif de commande d'avance. *a*: embrayage à friction, *b*: cône de freinage après débrayage *c*: boîte de vitesses, *d*: plateau manivelle, *e*: bielle, *f*: réglage de longueur de course, *g*: réglage de position du porte-outil, *h*: contrepoids d'équilibrage, *i*: came, *j*: rochet de commande d'avance, *k*: boîte de variation et d'inversion d'avance.

Figure III.72. Kinematic diagrams of a slotter.

broaching machines:

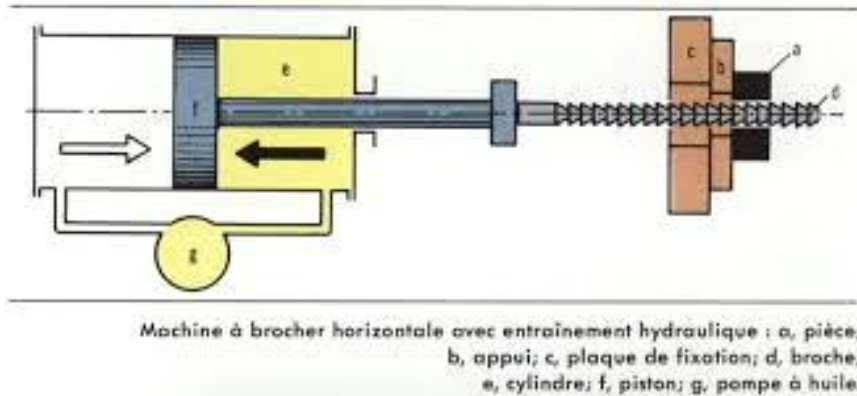


Figure III.74: Principle of Broaching.

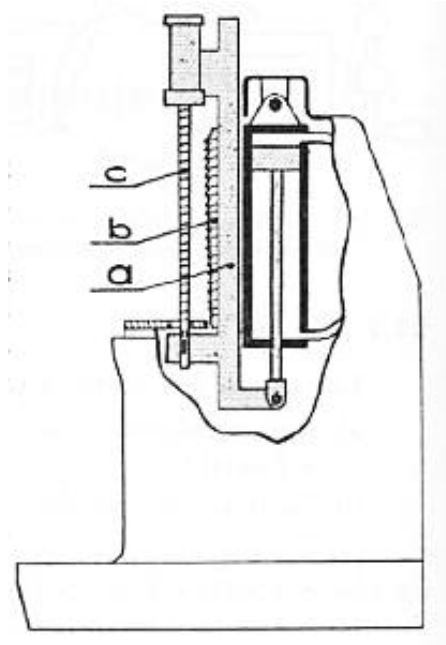


Figure III. 8 : Vertical broaching machine.

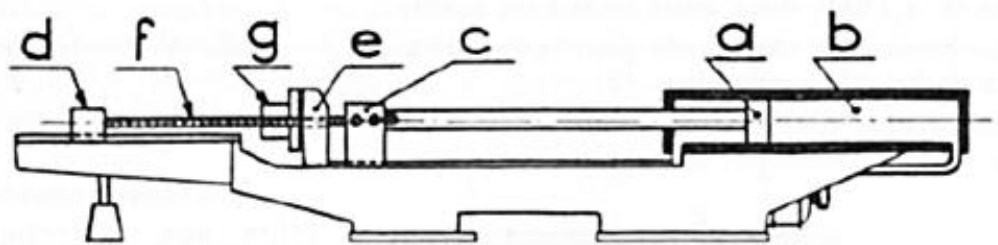


Fig. 44. — Brocheuse horizontale hydraulique.

a: piston, *b*: cylindre, *c*: tête d'attelage et de traction, *d*: lunette support de broche, *e*: plateau porte-pièce, *f*: broche, *g*: pièce.

Figure III.79. Horizontal broaching.