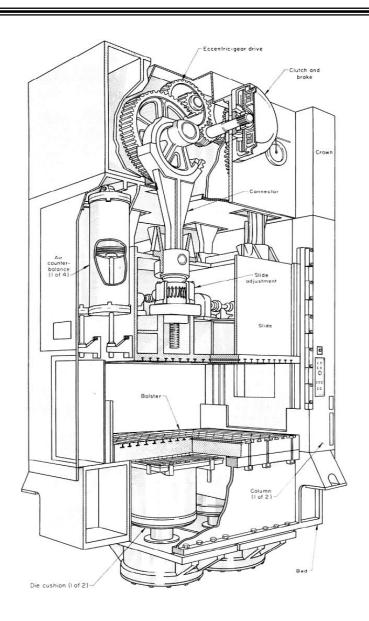
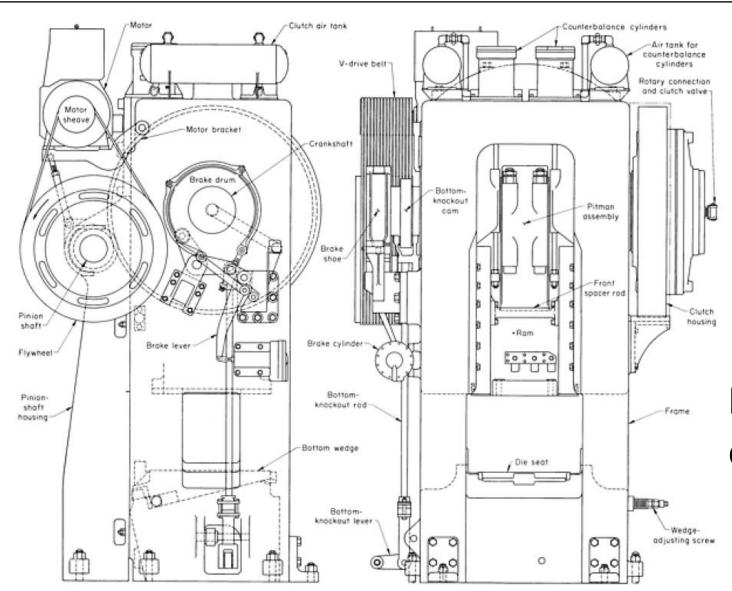
SEP282 – PROCESSOS PARA INDÚSTRIA AERONÁUTICA

- AULA 6
- MÁQUINAS E FERRAMENTAS PARA CONFORMAÇÃO



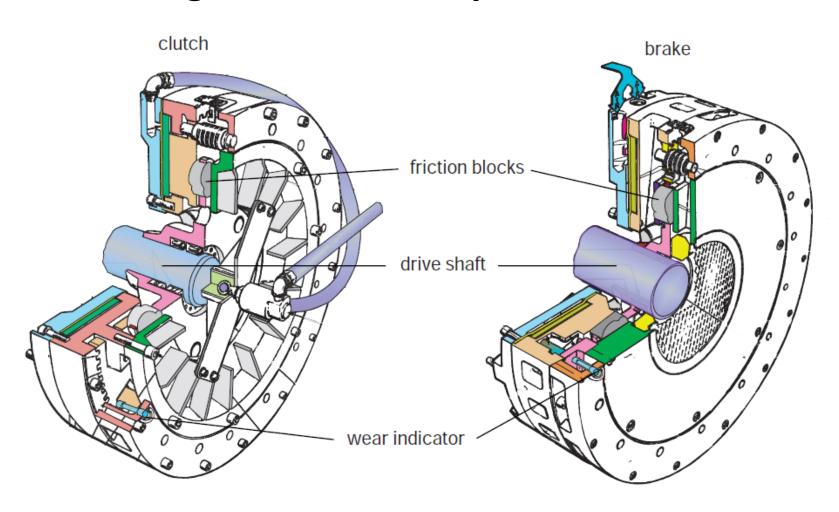
Prensa excêntrica



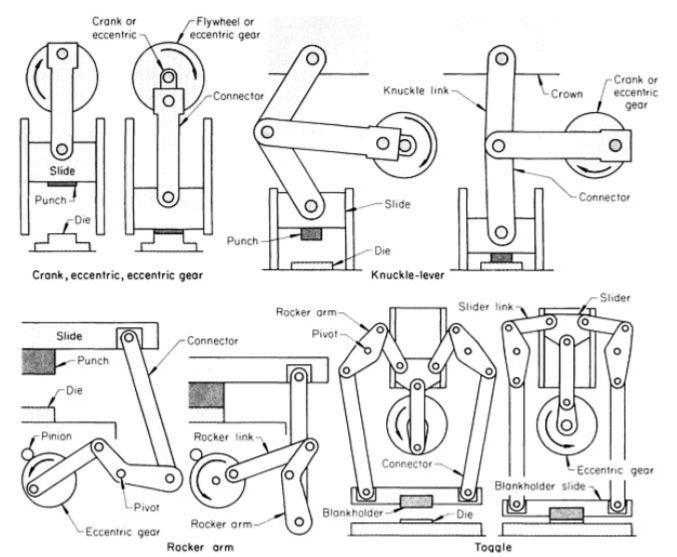


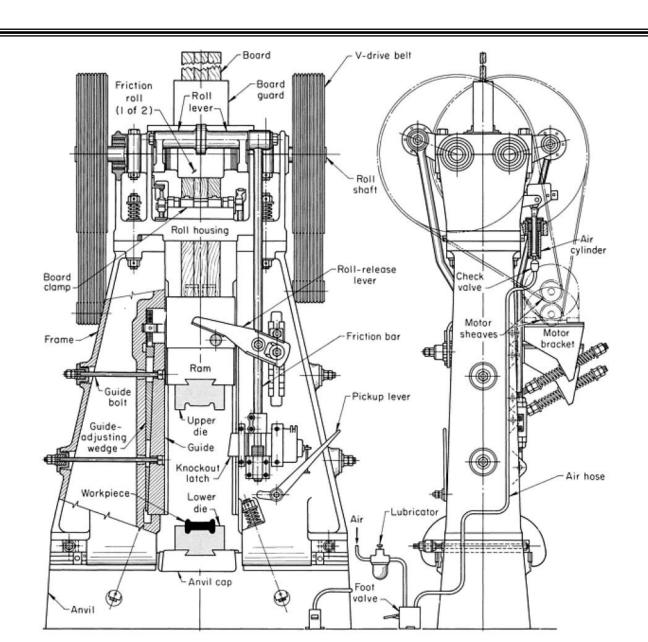
Prensa excêntrica

Embreagens e freios de prensas excêntricas

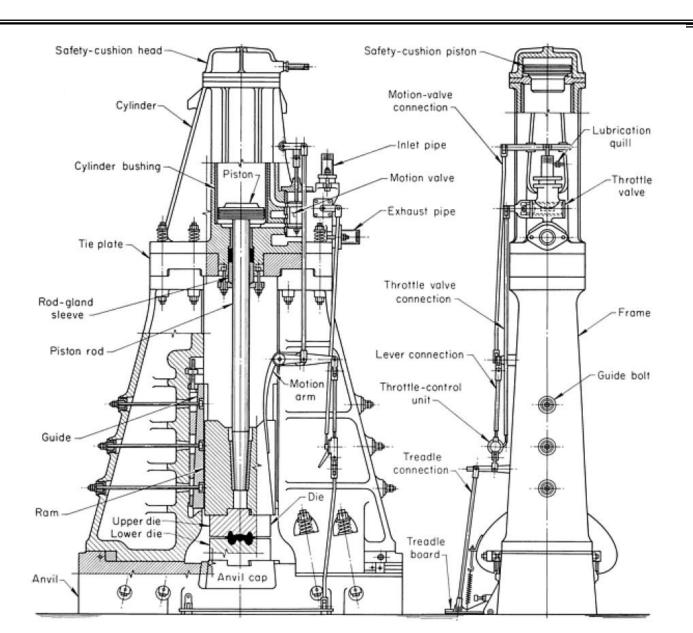


Mecanismos de prensas mecânicas





Martelos de forjaria



Martelos de forjaria

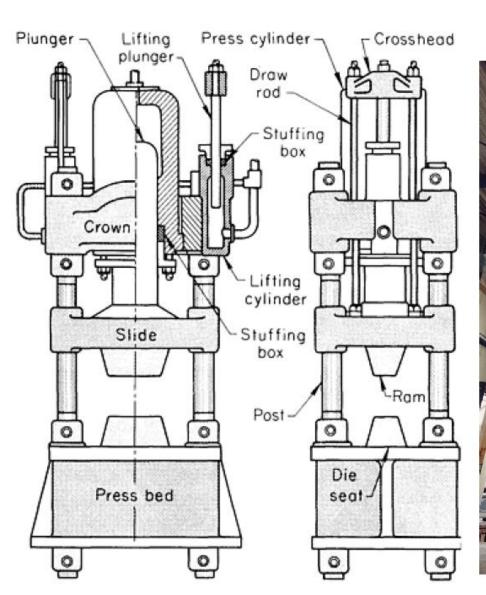


Martelos de forjaria

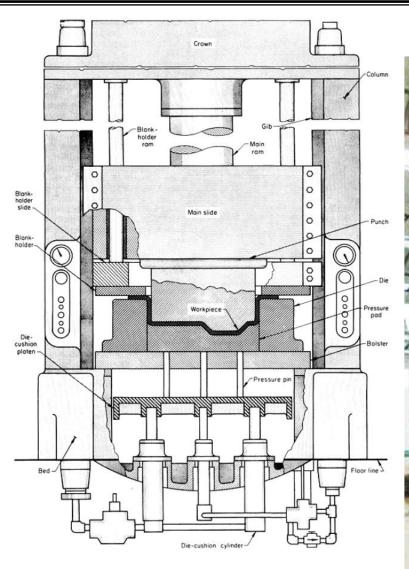


Capacidades de carga de prensas mecânicas e hidráulicas

Type of press	Force		Pressing speed	
	MN	tonf	m/s	ft/s
Mechanical	2.2-142.3	250-16,000	0.06-1.5	0.2-5
Hydraulic	2.2-623	250-70,000	0.03-0.8	0.1-2.5









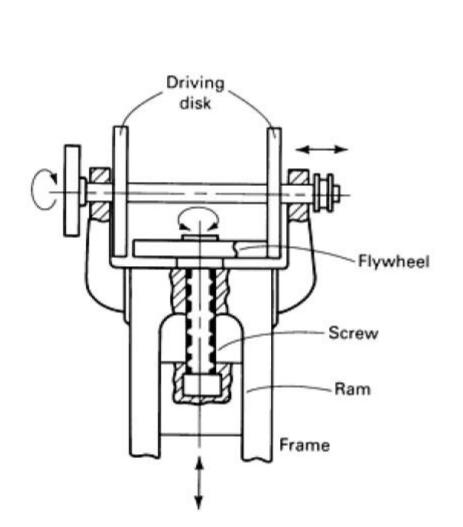
 $\textbf{Fig. 3} \ \ \textbf{Principal components of a double-action hydraulic press with a die cushion.}$

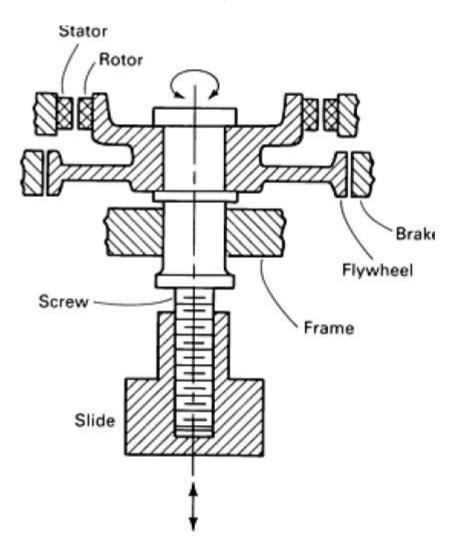






Prensas de parafuso (ou de fricção)

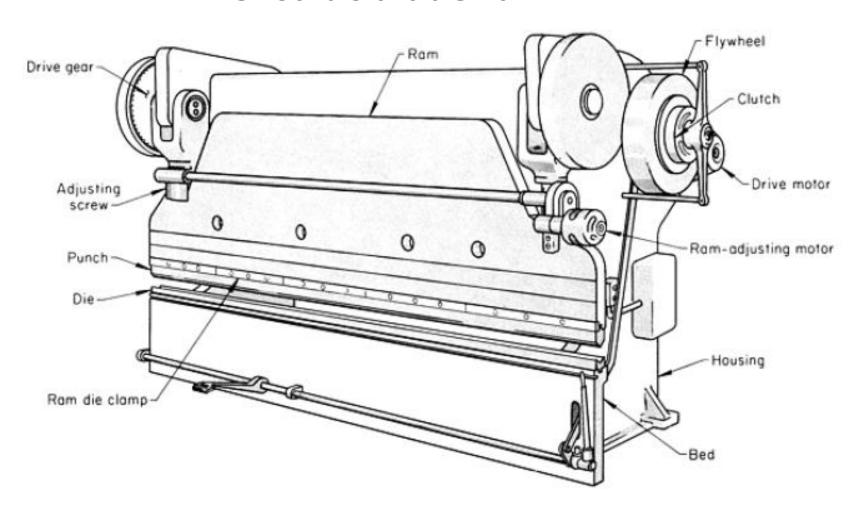






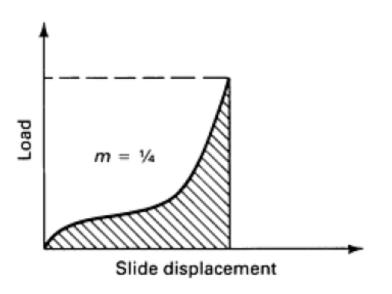
Prensas de parafuso (ou de fricção)

Prensa dobradeira

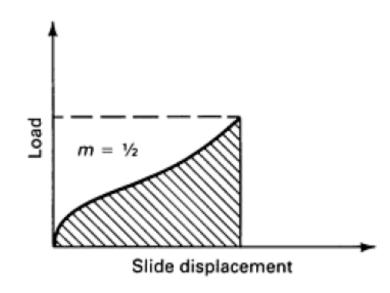




Cargas de diversas operações de forjamento

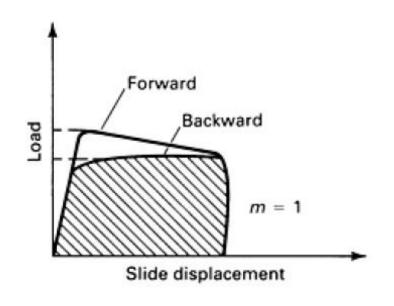


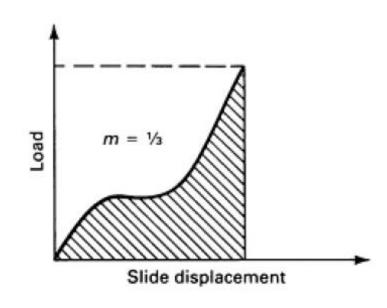
Matriz fechada



Recalque

Cargas de diversas operações de forjamento

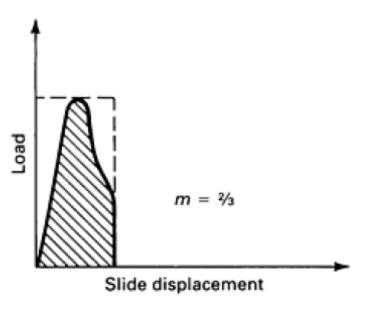




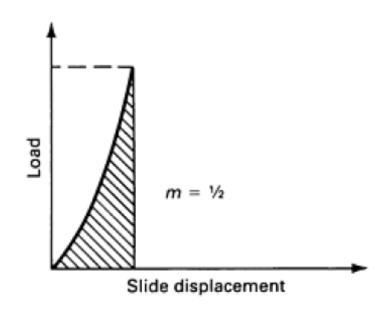
Extrusão

Dobra

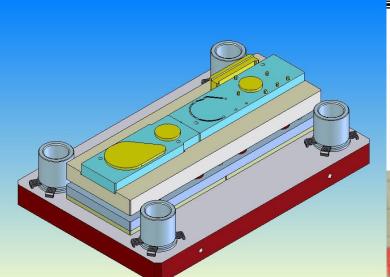
Cargas de diversas operações de forjamento



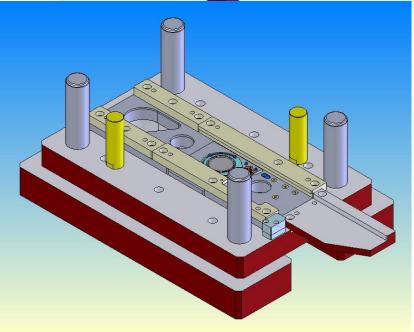
Corte/furação



Cunhagem

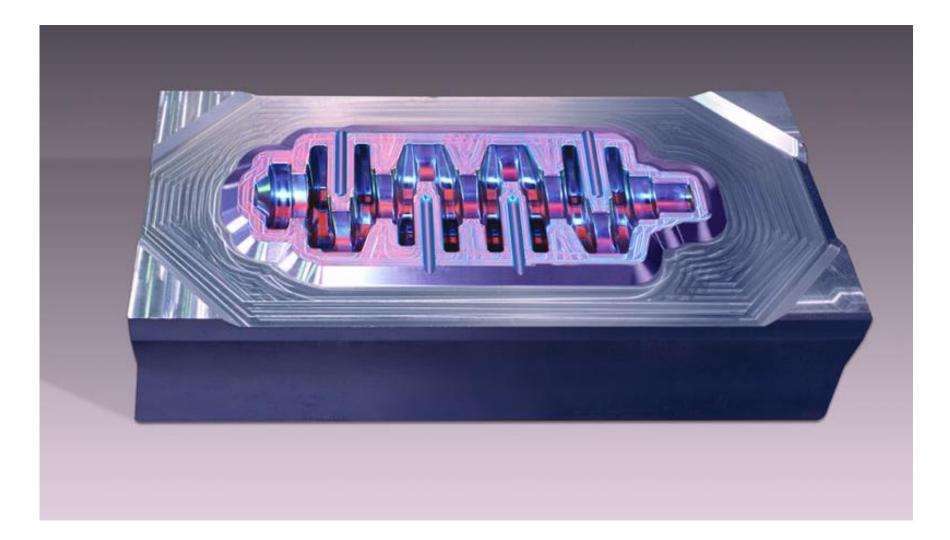


Ferramentas de corte e forjamento





Ferramentas de corte e forjamento



Ferramentas de corte e forjamento

