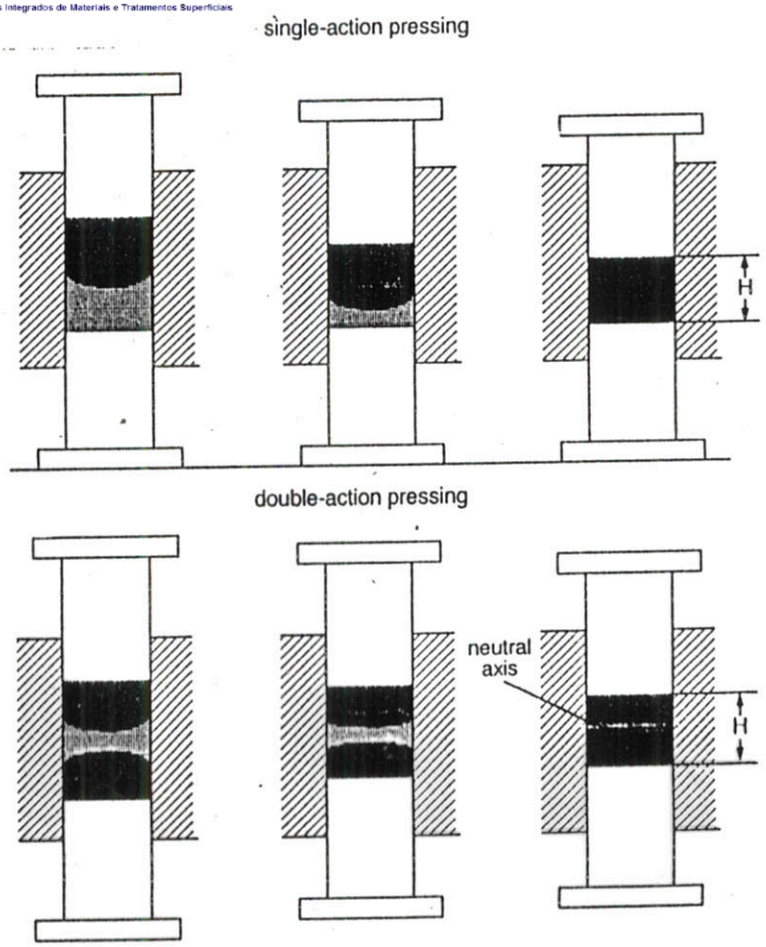

Axial cold pressing: single-action vs. double-action pressing

Side Pressure in Unidirectional Pressure Compacting

Pressure applied from top, P
Pressure applied to bottom, P_1
Side pressure applied to die wall, P_2

$P_1 < P$ $\quad P_2 = xP$

$K = P_1/P = f$ (friction conditions)

Some Values for X

Type of metal powder	Material pressed to a density of (%) 40	60	80
Tungsten	0.08	0.12	0.16
Iron	0.16	0.23	0.31
Tin	0.20	0.30	0.39
Copper	0.22	0.32	0.43
Lead	0.32	0.47	0.63