



The Chinese University of Hong Kong
Non-confidential Abstract of Technology Disclosure

Title:

A New Mechanical Press with Controllable Mechanism (Hybrid Driven Mechanical Press)

CUHK Ref. No.:

03/ENG/129

Inventor(s):

Professor Ruxu DU, Department of Mechanical and Automation Engineering

Patent Status:

US Patent Pending

Non-confidential abstract:

A family of new mechanical presses is invented. This type of presses is programmable (including its stroke, speed and acceleration) and energy-efficient (it uses a flywheel to ease the peak energy). Mechanically, it is a 2 degree-of-freedom punching mechanism driven by two different motors (a common motor and a servomotor). This mechanism provides an infinite number of stroke travels desirable for varieties of stamping operations (such as blanking, drawing, sheet forging, progressive, transfer, and so on). The mechanical dimensions are optimized for maximum performance and the two motors are selected by minimizing the energy consumption of the servomotor. The PC based control system provides easy usage and optimal control of the press.

For further queries, please contact:

Mr Billy Lam
Technology Licensing Coordinator
Tel: (852) 2609 8882
Fax: (852) 2603 5451
Email: billylam@cuhk.edu.hk

Address:
Technology Licensing Office
The Chinese University of Hong Kong
Room 226, Pi Ch'iu Bldg, Shatin, New Territories
Hong Kong SAR