STRAIGHTSIDE PRESSES
MCX SERIES
MODULAR CONFIGURATION SERIES
MCX SERIES
MAXIMIZED VERSATILITY | MAXIMIZED FLEXIBILITY
MAXIMIZED PRODUCTION
MAXIMIZED PROFIT

The choice is yours: Single or Double Gear, 1/4 or 1/2 inch rating points, Mechanical or Servo. The MCX Series from AIDA offers the highest level of customization through multiple configurations. What does this mean for your stamping operation? MAXIMIZED PRODUCTION AND MAXIMIZED PROFITS.

FIVE DRIVE OPTIONS

Mechanical Press Drive:
- Single gear 1/4” rating
- Single gear 1/2” rating
- Double gear 1/2” rating

Servo Press Drive:
- Single gear
- Double gear

STANDARD FEATURES

A Highly Rigid Frame
Frame components are massive steel fabrications to reduce deflection under load

B Counter-Rotating Eccentric Gears
Counter-rotating gears eliminate side thrust under load

C Self-Contained Counterbalance Cylinders
Cast carbon fiber cylinder reduces packing wear which results in lower maintenance and elimination of air leaks

D Ball and Socket Connections
The AIDA ball screw slide suspension has approximately 1/3 the clearance of a wrist pin design

E Hydraulic Overload Protection (HOLP)
AIDA’s patented metal seal type hydraulic overload protection system is 7 - 10 times faster than conventional relief valve systems

COUNTER-ROTATING ECCENTRIC GEARS

BALL & SOCKET CONNECTIONS

HOLP | HYDRAULIC OVERLOAD PROTECTION
VERSATILE 8 POINT SLIDE GUIDE OPTIONS

- Preloaded, Swivel Mount Roller Guides (standard)
  Zero clearance, no lubrication required minimizing the possibility of either contamination in the die space or die lubrication into press lube system.

- Bronze Oil Film Slide Guides (optional)
  Full guiding contact throughout the entire stroke length at any adjustment setting.

MECHANICAL DRIVE OPTION

- Combination Clutch and Brake
  High-performance air-friction unit mounted outside of the flywheel allows for easy maintenance.

- Medium or High Energy Quill Mounted Flywheel
  Quill mounting allows larger flywheel bearings providing a significant increase in bearing life.

  The high energy version includes an oversized flywheel and main drive motor, which provides high energy capacity for heavy forming or deep drawing.

MECHANICAL PRESS CONTROL

- Allen Bradley based PLC
- Large touch panel display for easy viewing and improved operability
- Crank angle meter with digital display
- Pilz Safety PLC clutch/brake control
- Data bank for job settings storage
- Optional control platforms: Mitsubishi PLC, Siemens S7 (CE Mark), Link, & Wintriss

FLYWHEEL, CLUTCH, & BRAKE

ACCESS CONTROL

- SERVOPRO® SERVO PRESS DRIVE OPTION
- INFINITELY PROGRAMMABLE STROKE
- AIDA PROPRIETARY SERVO MOTOR
- Combination Clutch and Brake
- High-performance air-friction unit mounted outside of the flywheel allows for easy maintenance
- Medium or High Energy Quill Mounted Flywheel
- Quill mounting allows larger flywheel bearings providing a significant increase in bearing life
- The high energy version includes an oversized flywheel and main drive motor, which provides high energy capacity for heavy forming or deep drawing
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Visit www.aida-global.com to read customer case studies, view customer videos and learn how AIDA MCX Series Presses can give your metal stamping operation a truly competitive advantage.
AIDA Patented Metal-Seal Type Hydraulic Overload Protection (HOLP) System
- Zero pressure in 10 milliseconds - 7 times faster than relief valve type HOLP
- Reset in 30-45 seconds when inched to top of stroke
- No wear components, seals, O-Rings or wipers

Light Curtains Across Die Space Area with Mechanical Side Guards
- Full point of operation guarding included for operator safety in compliance with OSHA and ANSI standards

Full Recirculating Oil Lubrication System
- No regular maintenance required as for lost grease or lost oil system
- Fewer and less lubricants requiring disposal

CNC Control with Color HMI
- Large programming capability
- Operator ease of programming new part programs
- Operator ease of understanding stroke position and job program profile
- Communication capability with secondary devices such as feeders
- Die protection for part quality

Infinitely Programmable Stroke Profile Control
- Ability to program constant velocity for forming applications
- Ease of use of standard programs for new users/processes
- Increased production rates at shorter programmable stroke lengths

AIDA High Torque, Low RPM Servo-Motor
- Direct drive
- Minimal components compared to mechanical drive
- High torque curve (same as standard mechanical drive)

Amplifier/Servo-Controller
- Compact
- No secondary cooling equipment

Capacitor Banks
- Electrical storage of excess servo motor energy
- Energy efficient
- Minimal power source capacity requirements
- Full energy at 1 SPM

Manual Step Feed
- Handwheel control of slide position
- Eases die set-up and tryout with full energy capability to 1 SPM
- Teach function for ease of programming
- Ability to dwell under load

Standard Mechanical Drivetrain
- Proven mechanical drive
- Die interchangeability between mechanical and servo presses
- Extremely small overall clearances in comparison to competitors

Mechanical Safety Brake
- Promotes operator safety for unintended slide motion and interlocked with emergency stop push-button and light curtains

ALL OF THE FEATURES BELOW AVAILABLE FROM ONE FRAME DESIGN

MAXIMUM FLEXIBILITY IN PRESS SPECIFICATION SELECTION

Single or Double Eccentric Gear Drive

Standard or High Continuous Working Energy Capacity

6.35 mm (0.25 in) or 12.7 mm (0.5 in) Rating Point

Mechanical or Servo Drive Packages

Wide Variety of Stroke Length & Die Height Choices
- Available in each Tonnage Capacity

Zero Clearance Roller-Type Slide Guides with Oil Film Version as an Option

Standard AIDA Control or Optional 3rd Party Control (mechanical presses only)