K-ECO

All-Electric Servo Press Brake

Precision bending for thin sheet and demanding equipment fabrication.

OIL-FREE / PRECISE / RESPONSIVE

All-electric servo technology with a closed O-frame architecture.



Precision begins with the platform.

K-ECO is an all-electric servo press-brake platform designed for thin-sheet processing and precision equipment applications.

350–600 kN

BENDING FORCE RANGE

1700–2100 mm

USABLE BENDING LENGTH

SUPPLIED MOTION FIGURE

UP TO 240 mm/s

Select the final configuration against part size, material range and tooling plan.



Closed O-frame. More freedom.

No-throat geometry is designed to support use of the full bending length while creating a clearly defined working zone.

01 FULL-LENGTH ACCESS

Closed-frame construction removes the conventional throat-depth limitation in the bending zone.

02 ENCLOSED WORKING ZONE

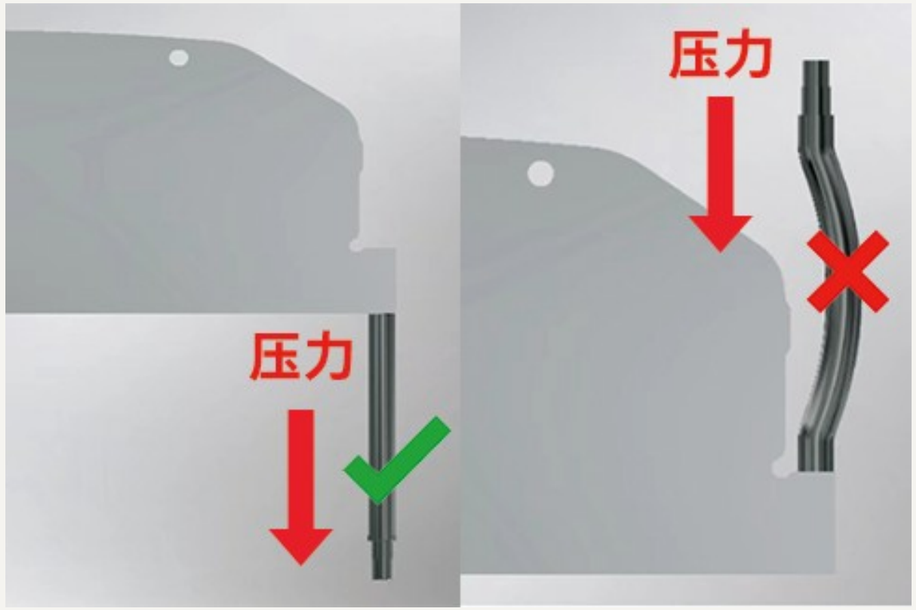
Side panels and protection options support a controlled process envelope around the operator area.

Dual laser front protection is shown in this configuration; confirm final safeguarding scope at order.



Precision transmission, built for repeatability.

Electronic control and servo-motor technology combine with synchronous-belt, pulley and precision-ballscrew transmission for controlled vertical motion.



SUPPLIED DOWN-PULL STRUCTURE / PRECISION TRANSMISSION REFERENCE

01 SYNCHRONOUS DRIVE PATH

Servo motor, timing belt and pulley work with the ballscrew transmission package.

02 LINEAR GUIDANCE

Linear guides support vertical ballscrew motion and help reduce wear associated with eccentric running.

03 PULL-DOWN STRUCTURE

Designed to support transmission accuracy and repeat positioning.

Fit for thin sheet & precision equipment.

K-ECO is positioned for work where clean, controlled all-electric bending and repeatable geometry matter to the final part.



PART FAMILY FIT

Thin-sheet panels and formed covers
Precision equipment housings and enclosure components
Parts requiring defined bend geometry across repeat programmes

PROCESS SCENARIOS

Precision fabrication cells · Equipment manufacturing · Bending work that benefits from an oil-free, low-noise operating proposition

VALIDATE PART DRAWINGS, MATERIAL RANGE, FLANGE GEOMETRY AND TOOLING WITH THE FINAL CONFIGURATION.

Control & programming path.

Match the control platform to part complexity, programming workflow, controller preference and local support capability.

AVAILABLE CONTROL PATHS

Delem DA66S
or ESA

ORDER DEFINITION

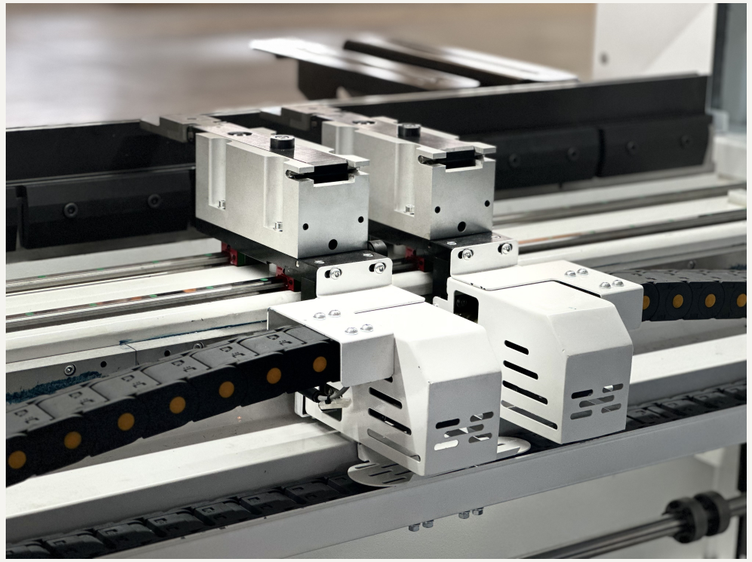
Record the final controller, programming package, installed axes, language and software-support expectations in the quotation.
Confirm the exact control and software scope at order.



DELEM CONTROL COMPONENT / SUPPLIED K-ECO ASSET

All-electric performance path.

Servo control and precision mechanical transmission replace a conventional hydraulic actuation path in the working system.



SUPPLIED SERVO-MOTOR COMPONENT IMAGE

01

OIL-FREE OPERATING PATH

No hydraulic oil in the working system; positioned for a clean, low-maintenance operating proposition.

02

FAST RAM RESPONSE

Supplied data states approach and return speed up to 240 mm/s; adjustable working speed is 0–15 mm/s.

03

ENERGY & DUTY-CYCLE REVIEW

Confirm applicable energy and speed conditions against duty cycle, material and acceptance criteria.

Tooling sets the setup rhythm.

Clamping interface and sheet support affect the real setup flow of a precision-bending cell. Define them with the part family—not in isolation.



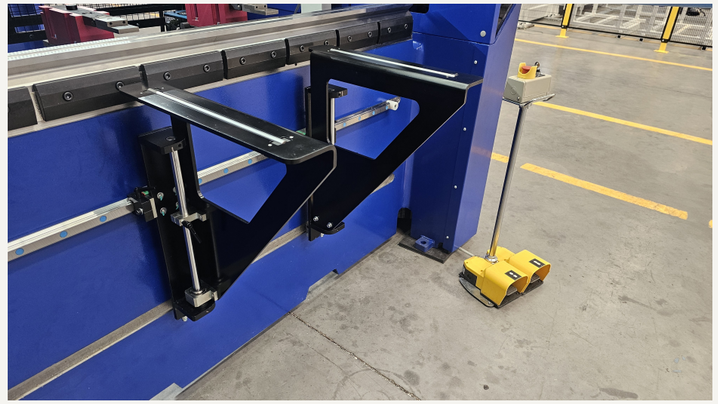
G-TM TOP CLAMPING

Manual upper-tool clamping interface for the selected tool standard.



G-BM BOTTOM CLAMPING

Manual lower-tool clamping interface for configuration discussion.



FRONT SUPPORT

Manual sliding support for controlled sheet handling during the bend cycle.

CONFIRM TOOL STANDARD, CLAMPING VARIANT, TOOL-LOAD DIRECTION AND FRONT-SUPPORT REQUIREMENT IN THE FINAL CONFIGURATION.

Position the part. Protect the structure.

Part positioning and structural load protection are two key checks when defining a precision press-brake configuration.

REAR-GAUGE PATH

Selectable rear-gauge arrangements are shown with GEP-2 and GHP-4 configurations.
Confirm X, R and Z-axis needs, finger count, travel and repeatability against the actual part family.

ECCENTRIC-LOAD PROTECTION

KLD-stated protection package combines butterfly-washer micro-adjust compensation with an articulated-joint structure.
Validate off-centre parts and short-bend workflow at FAT.



CONFIRM THE POSITIONING SEQUENCE AGAINST THE FULL PART FAMILY

Safeguarding by design.

K-ECO combines an enclosed machine body with configurable active protection for a clearly defined safeguarding package.



AUTOMATIC FULL-CLOSED REAR PROTECTIVE DOOR / SUPPLIED ASSET

ENCLOSURE LOGIC

Side covers plus the automatic rear protective door create a full enclosure around the machine body.

ACTIVE FRONT PROTECTION

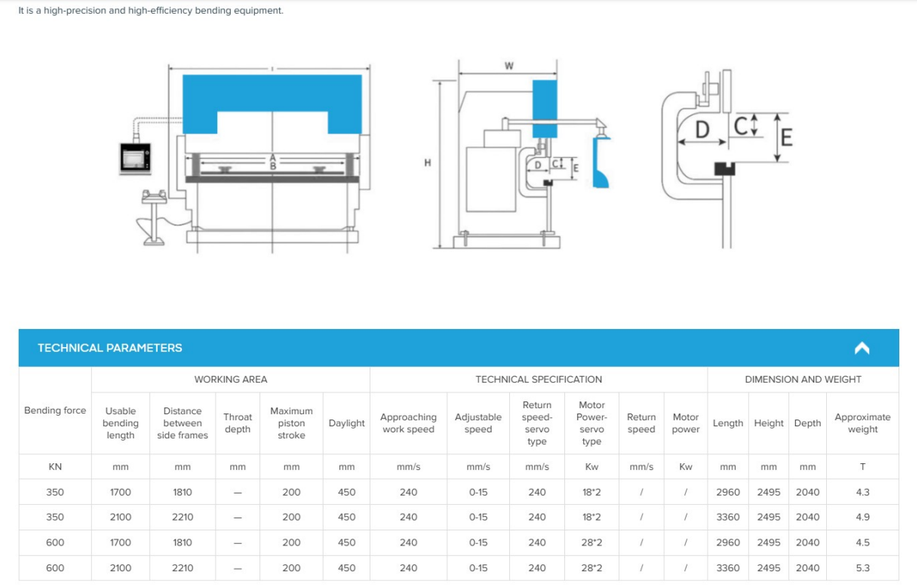
Dual laser front-zone protection is shown in the product configuration. Confirm the final safety standard and scope at order.

IMPORTER ORDER CHECK — SAFETY STANDARD, ENCLOSURE SCOPE, ELECTRICAL DOCUMENTATION AND FACTORY ACCEPTANCE.

Four supplied configuration points.

Initial shortlist. Confirm final tooling, options and acceptance specification in the formal offer.

Configuration	Force kN	Length mm	Frame span mm	Stroke / daylight mm	Weight t
350 / 1700	350	1700	1810	200 / 450	4.3
350 / 2100	350	2100	2210	200 / 450	4.9
600 / 1700	600	1700	1810	200 / 450	4.5
600 / 2100	600	2100	2210	200 / 450	5.3



Approach / return speed: 240 mm/s · Adjustable bending speed: 0–15 mm/s
Servo power: 18 × 2 kW (350 kN) / 28 × 2 kW (600 kN)

SUPPLIED K-ECO TECHNICAL PARAMETER SHEET

KLD SUPPLIED DATA / FINAL CONFIGURATION AND ACCEPTANCE SPECIFICATION TO BE CONFIRMED IN WRITING.

Specify.
Verify. Proceed.

Share the production brief and KLD can prepare a configuration proposal mapped to your part family and local market.

INCLUDE IN YOUR ENQUIRY

Part drawings and material range
Working length and bending force
Control, rear-gauge, tooling and safety preference
Electrical standard, documentation and acceptance scope

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