CLOSED-FRAME CNC PRESS BRAKE

KHX

Closed-Frame CNC Press Brake

Full-length freedom, closed-frame stability and a configuration-led path to repeatable bending.

CLOSED / PRECISE / CONFIGURABLE



Full-length bending freedom.

KHX combines a closed O-frame architecture with a 4+1-axis CNC platform for large-part and flexible bending requirements.

600–2200 kN
BENDING FORCE RANGE

2100–4100 mm
USABLE BENDING LENGTH

CORE CONFIGURATION

4+1 AXES / GHP-2 OR GHP-4

Configure the final working area, axes, tooling and safety scope in writing.



Closed O-frame. More usable space.

No-throat geometry is designed for full-length access, stability and large-part clearance.

CLOSED-FRAME VALUE

USE THE FULL LENGTH.

No throat restriction. Additional clearance for large workpieces. Flexible operating access.



SUPPLIER-STATED: FRAME DEFORMATION OF 0.02 mm DURING BENDING. CONFIRM ON THE FINAL TECHNICAL OFFER.

Engineered for large-part flexibility.

KHX couples a closed frame with configurable motion, control and tooling interfaces for complex bending work.



01 **Closed O-frame geometry**

Designed to remove C-frame throat restrictions in full-length access.

02 **4+1-axis CNC platform**

Provides the base architecture for repeatable bend sequences.

03 **Configurable interfaces**

Control, gauges, clamping, crowning and safety are selected to suit the part family.

Fit the workpiece, not the machine.

KHX is designed around the access and clearance needs that emerge when sheet-metal parts grow in length, depth and handling complexity.

WORKPIECE FIT

Long panels and continuous bends that benefit from full-length access
Large envelopes and deep-flange forms needing additional clearance
Wide sheets that must be positioned along the entire bending length

PRODUCTION SCENARIOS

Flexible multi-variant production · Large-part bending cells · Repeat programmes with defined operator flow



CLOSED-FRAME ACCESS FOR LARGE-PART HANDLING DISCUSSIONS

Control the bend. Define the workflow.

Specify the controller, programming route, connected functionality and support scope before the machine enters the commercial offer.

CNC CONTROL PLATFORM

DELEM CNC control is stated in the supplied KHX core specification.
Define the required axes, programming functions, language and support model in the quotation.

CONNECTED OPTIONS

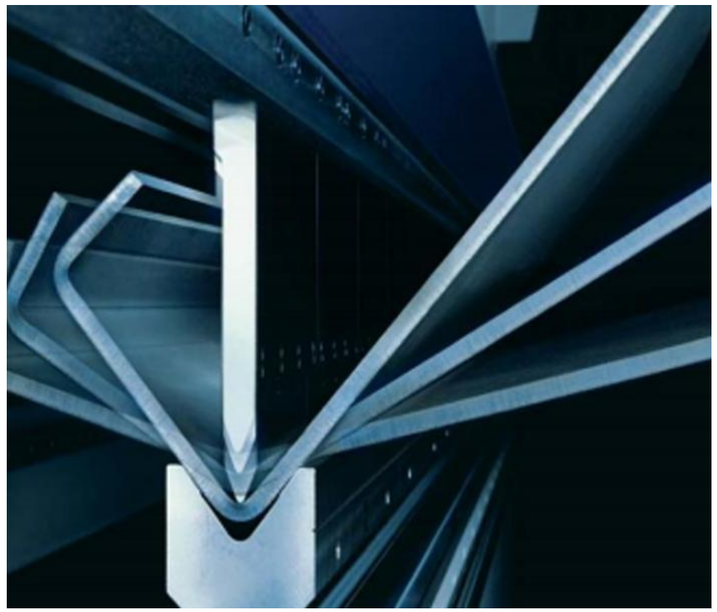
Smart 4.0 Industrial 4.0 software is listed as an option for connected production visibility and workflow support.



ESA860 CONTROL SCREEN — SUPPLIED COMPONENT REFERENCE. CONFIRM FINAL CONTROLLER MODEL AT ORDER.

Hydraulic system. Defined at order.

Evaluate component architecture against duty cycle, thermal behaviour, service plan and the energy objective of the application.



HAWE HYDRAULIC SYSTEM / SUPPLIED COMPONENT IMAGE

01 ## Component reference

HAWE hydraulic system is listed in the KHX supplied component material.

02 ## Operating path

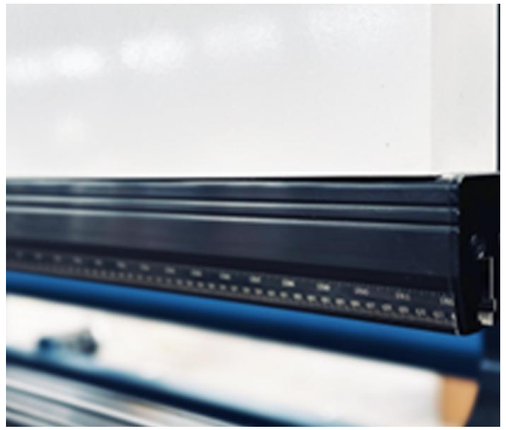
Review integrated control block, pump, valve and filtration path with the selected machine configuration.

03 ## Commercial lock

Document standard versus optional motor and energy configuration.

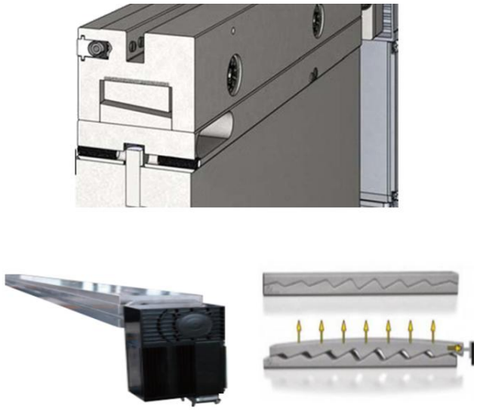
Tooling interfaces shape repeatability.

Specify tool standard, clamping mode and the compensation path together when setup time and final angle consistency are commercial priorities.



UPPER TOOL CLAMPING

Kyokko upper quick clamping is stated in the KHX specification.



MECHANICAL CROWNING

Select against part length, material and final angle target.



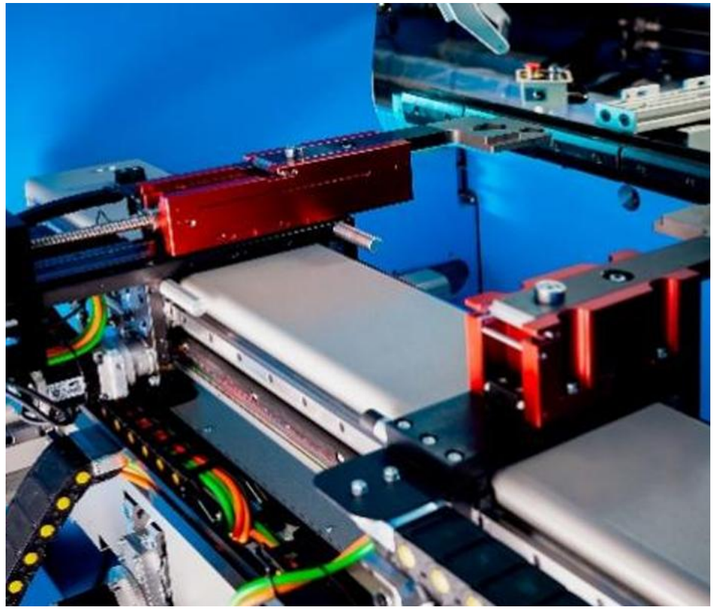
LOWER TOOL CLAMPING

Supplied hydraulic lower-clamping component for configuration discussion.

BUYER NOTE — CONFIRM TOOL STANDARD, CLAMPING MODE, CROWNING TYPE AND TOOL-CHANGE FLOW AS LINE ITEMS IN THE QUOTATION.

Position the part. Guide the operator.

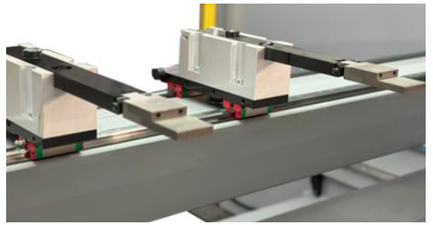
Validate gauge geometry and material support against the full part family—not a single representative workpiece.

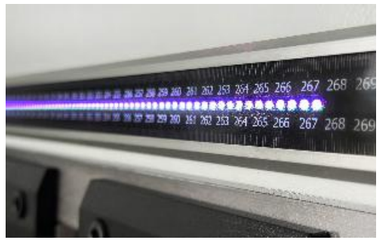


REAR GAUGE AND FINGER SYSTEM / SUPPLIED COMPONENT IMAGE

CONFIGURATION PATH

GHP-2 or GHP-4 rear-gauge system is stated for KHX.
Define X, R and Z movement, finger quantity, travel and the part-positioning sequence.





OPTION / LED BAR

Backgauge position guidance for operator alignment during complex bend sequences.

Safeguarding is part of the machine.

Define protection, electrical build quality and documentary evidence as verifiable parts of the import specification.



DSP AP+MCS LASER SAFETY DEVICE / FRONT-WORKING-ZONE PROTECTION

INTEGRITY CHECK

Closed frame: protected envelope. Electrical cabinet and foot pedal: configuration review.





ORDER CHECK

Guarding, certificates, electrical standard and FAT acceptance scope.

Configure from the workpiece backward.

Start with the real bend geometry and handling conditions. Then lock the capabilities that matter to the final part and local-market requirement.

01 Part drawings + material range

02 Working length + bending force

03 Axes + backgauge + material support

04 Tooling + crowning + safety scope

05 Written final technical confirmation



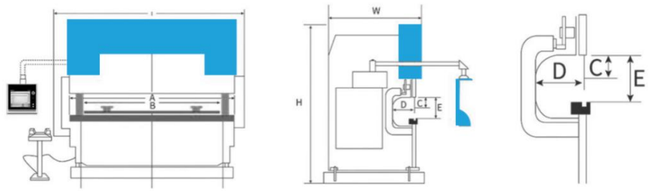
FINAL SCOPE = MACHINE, OPTIONS, ELECTRICAL STANDARD, DOCUMENTATION AND ACCEPTANCE

Five supplied KHX configurations.

Initial model shortlist. Confirm final tooling, options and acceptance scope with the final offer.

Model	Force kN	Length mm	Frame span mm	Stroke / daylight mm	Weight t
KHX 600-2100	600	2100	2600	200 / 400	8.2
KHX 1200-3100	1200	3100	3600	250 / 470	12
KHX 1200-4100	1200	4100	4600	250 / 470	14
KHX 1800-3100	1800	3100	3600	250 / 470	14
KHX 1800-4100	1800	4100	4600	250 / 470	17

Table shows primary working-area data. See the supplied technical-parameter sheet for motor, speed, overall dimensions and the complete working-area definition.



TECHNICAL PARAMETERS

Bending force	WORKING AREA					TECHNICAL SPECIFICATION						DIMENSION AND WEIGHT			
	Usable bending length	Distance between side frames	Throat depth	Maximum piston stroke	Daylight	Approaching work speed	Adjustable speed	Return speed-servo type	Motor Power-servo type	Return speed	Motor power	Length	Height	Depth	Approximate weight
KN	mm	mm	mm	mm	mm	mm/s	mm/s	mm/s	Kw	mm/s	Kw	mm	mm	mm	T
600	2100	2600	–	200	400	200	0-12	165	6.7	137	5.5	3230	2880	2290	8.2
1200	3100	3600	–	250	470	200	0-12	160	7.9	132	7.5	4260	3030	2390	12
1200	4100	4600	–	250	470	200	0-12	160	7.9	132	7.5	5260	3030	2390	14
1800	3100	3600	–	250	470	180	0-12	165	15	135	15	4255	3030	2390	14
1800	4100	4600	–	250	470	180	0-12	165	15	135	15	5255	3030	2390	17

SUPPLIED KHX TECHNICAL PARAMETER SHEET

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

Specify.
Verify. Proceed.

Send your production brief to receive a KHX configuration proposal mapped to your workpieces and local-market requirements.

INCLUDE IN YOUR ENQUIRY

Part drawings, material range and maximum flange geometry
Working length, bending force and required axes
Tooling, crowning, backgauge and safety preference
Electrical standard, documentation and FAT scope

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