KLD MACHINERY

Global Sheet Metal Fabrication Solutions

KHT Series Press Brake

Precision Bending. Built Around Your Production.



60T · 125T · 185T · 6+1 Axes · DELEM 66S · Hydraulic & Mechanical Compensation

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FOREIGN TRADE CATALOG · EDITION 2026

01 · THE KHT SERIES

One platform. Two compensation configurations.

The KHT Series combines a precision-engineered bolted frame, advanced CNC control and two proven deflection compensation architectures — so the machine can be matched to your part mix, material range and throughput target rather than the other way round.

KHT-CS

REAL-TIME HYDRAULIC COMPENSATION

G-CS closed-loop system monitors beam condition during bending and adjusts compensation in real time. Significantly reduces manual pre-calculation of compensation values for each part.

CLOSED-LOOP · REAL-TIME

KHT-CM

MECHANICAL AUTOMATIC COMPENSATION

B-CM mechanical workbench delivers automatic deflection compensation through a dedicated mechanical structure — a proven alternative to hydraulic compensation with a different cost profile and maintenance footprint.

MECHANICAL · AUTOMATIC

CAPACITY RANGE

60T · 125T · 185T

8 configurations · 6+1 axes · DELEM 66S · G-Smart Industry 4.0

KHT-CS: Real-time hydraulic deflection compensation

The KHT-CS configuration integrates the G-CS real-time hydraulic deflection compensation system. Compensation is monitored during bending and adjusted automatically — a closed-loop process that maintains consistent results across different workpiece lengths, thicknesses and material conditions.

The dedicated three-plate lower beam assembly allows the compensation movement to follow a controlled support geometry, while the two-point positioning-pin structure returns the beam to its neutral position when compensation is inactive.

HOW IT WORKS

G-CS monitors actual beam deflection during the bending cycle and automatically adjusts compensation through the hydraulic system. No manual pre-calculation of compensation values required for each part.

G-CS closed-loop compensation

Beam condition monitored and corrected while bending, not before.

Three-plate lower beam assembly

Controlled support geometry for the compensation movement.

Two-point positioning-pin structure

Returns the beam to neutral when compensation is inactive.

02 · COMPENSATION

KHT-CM: Mechanical automatic deflection compensation

The KHT-CM configuration uses the B-CM mechanical automatic deflection compensation workbench. Compensation is delivered through a dedicated mechanical structure — offering a proven alternative to hydraulic compensation with a different cost profile and maintenance footprint.

Designed for manufacturers who prefer a robust mechanical approach to automatic beam compensation. The system is integrated into the lower workbench, simplifying the overall machine architecture while maintaining consistent bending accuracy.

HOW IT WORKS

B-CM delivers automatic beam deflection compensation through an integrated mechanical structure within the workbench. A different path to the same bending consistency — with a different maintenance profile.

B-CM mechanical workbench

Compensation structure integrated into the lower workbench.

Simplified machine architecture

Fewer hydraulic compensation circuits to service.

Consistent bending accuracy

Automatic compensation without per-part manual setting.

KHT-CS vs KHT-CM — configuration comparison

Both configurations share the KHT precision frame, CNC platform and backgauge system. The differences are concentrated in the compensation architecture, tooling and clamping configuration.

CONFIGURATION ITEM	KHT-CS · HYDRAULIC	KHT-CM · MECHANICAL
Deflection compensation	G-CS real-time hydraulic compensation	B-CM mechanical automatic compensation
CNC system	DELEM 66S or equivalent	DELEM 66S or equivalent
Industry 4.0	G-Smart	G-Smart
Hydraulic system	Germany HAWE	Germany HAWE
Servo main motor	Inovance, China	Inovance, China
CNC axes	6+1 axes	6+1 axes
Backgauge system	GHP-4 (X – R – Z1 – Z2)	GHP-4 (X – R – Z1 – Z2)
Side frame compensation	Reflex-S	Reflex-S
Upper tool clamping	KYOKKO quick clamp (Japan)	G-WCSUP hydraulic automatic clamp
Lower tool clamping	G-BP pneumatic one-key clamp	G-WCINF hydraulic automatic clamp
Front support	SP standard	SP standard
Safety protection	Italian NUOVA DSP laser safety	Italian NUOVA DSP laser safety

Precision-Built Machine Frame

The KHT frame uses a bolted construction rather than relying on large amounts of welding. Each structural component is precision-machined before assembly, helping maintain dimensional accuracy after frame integration.

Bolted frame construction

Minimizes welding stress. Each structural component machined prior to assembly.

Five-face machining

Single-piece parts are machined on five faces to ensure assembly precision.

Positioning-pin and bolt structure

Positive positioning of frame components, preventing dimensional movement during long-term operation.

Long-term dimensional stability

Designed to maintain frame geometry under repeated production loading.



CNC control, Industry 4.0 and multi-axis backgauge

CNC AXIS CONFIGURATION

Y1 – Y2 – X – R – Z1 – Z2 + CM

6+1

The standard CNC configuration is the Dutch DELEM 66S, or an equivalent brand. The integrated G-Smart platform provides Industry 4.0 connectivity, while the GHP-4 backgauge delivers X – R – Z1 – Z2 positioning for repeatable part handling.

DELEM 66S	Netherlands	CNC control
G-Smart	KLD	Industry 4.0 platform
GHP-4	KLD	Backgauge X – R – Z1 – Z2

MULTI-AXIS BACKGAUGE

X – R – Z1 – Z2 axes let the backgauge reposition between bends without operator intervention, supporting complex parts and repeat batch production.

Hydraulic system, tool clamping and safety

HYDRAULIC SYSTEM

HAWE · Germany

Hydraulic system uses Germany HAWE components for controlled hydraulic and servo-driven operation.

SERVO MAIN MOTOR

Inovance · China

Servo main motor configured with Inovance, providing controlled ram movement and repeatable positioning.

KHT-CS TOOL CLAMPING

KYOKKO + G-BP

Upper tool: KYOKKO quick clamp (Japan). Lower tool: G-BP pneumatic one-key clamping — designed for fast setup and short changeover.

KHT-CM TOOL CLAMPING

G-WCSUP + G-WCINF

Upper tool: G-WCSUP hydraulic automatic clamp. Lower tool: G-WCINF hydraulic automatic clamp — hands-free tool change for continuous production.

SAFETY

Italian NUOVA DSP laser safety protection · SP standard front supports · LED Bar working light

Technical specifications

All parameters below are from the manufacturer’s published technical sheet for the KHT Series. Specifications are binding at the time of quotation.

CONFIRMED

MODEL	kN	BEND LEN mm	THROAT mm	STROKE mm	DAYLIGHT mm	APPROACH. mm/s	WORK. mm/s	RETURN mm/s	MOTOR kW
KHT-60×2100	**600**	2100	300	250	450	200	0–15	165	**6.7**
KHT-60×2600	**600**	2600	300	250	450	200	0–15	165	**6.7**
KHT-125×3100	**1250**	3100	500	300	500	200	0–12	200	**18**
KHT-125×4100	**1250**	4100	500	300	500	200	0–12	200	**18**
KHT-185×3100	**1850**	3100	500	300	500	175	0–12	165	**22**
KHT-185×4100	**1850**	4100	500	300	500	175	0–12	165	**22**
KHT-185×5000	**1850**	5000	500	300	500	150	0–12	165	**22**
KHT-185×6000	**1850**	6000	500	300	500	150	0–12	165	**22**

Bending length is selected per your largest part. Both KHT-CS and KHT-CM compensation are available on every configuration listed above.

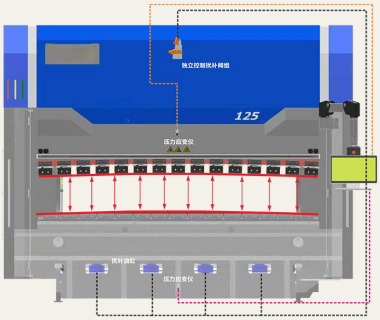
Core components and controls



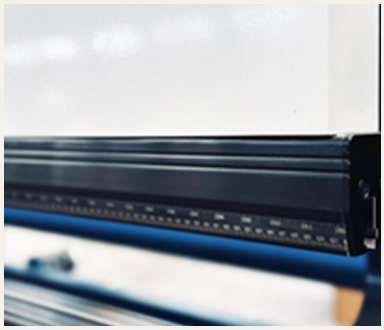
CNC control



Backgauge and rear fingers



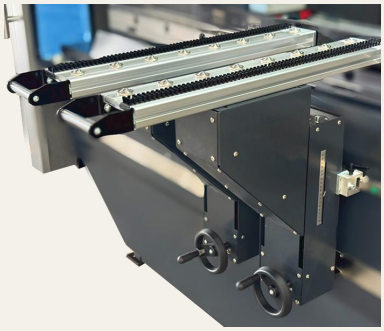
Hydraulic crowning



Upper tool clamping



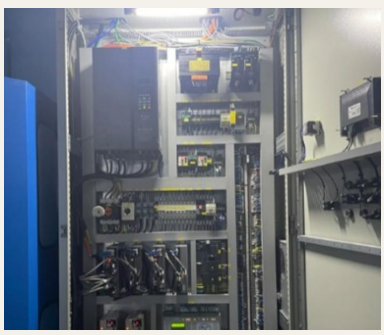
Lower tool clamping



Front support arms



Safety protection



Electrical cabinet

Frequently asked questions

Q1

What is the difference between KHT-CS and KHT-CM?

KHT-CS uses the G-CS real-time hydraulic deflection compensation system. KHT-CM uses the B-CM mechanical automatic deflection compensation workbench. Both share the same KHT precision frame, CNC control and backgauge.

Q2

Does the KHT Series require manual deflection compensation adjustment?

The KHT-CS configuration automatically compensates for beam deflection during bending, significantly reducing the need for manual intervention. The KHT-CM delivers automatic compensation through its integrated mechanical workbench.

Q3

What CNC system is used on the KHT Series?

The standard CNC configuration is the Dutch DELEM 66S, or an equivalent brand. The integrated G-Smart system provides Industry 4.0 connectivity.

Q4

How many CNC axes does the KHT Series have?

The KHT platform uses a 6+1 axis configuration: Y1, Y2, X, R, Z1, Z2 + CM, with the GHP-4 backgauge providing X – R – Z1 – Z2.

Q5

What capacity range is available?

The KHT Series covers three tonnage classes — 60T (600 kN), 125T (1,250 kN) and 185T (1,850 kN) — across eight model configurations. Both KHT-CS and KHT-CM compensation are available across the full range.

Q6

How do I request a quotation?

Send us your part drawings, material specifications, production requirements and destination country. KLD engineering will recommend the right capacity, configuration and tool clamping within one business day.

07 · GET IN TOUCH

Configure your KHT press brake

Share your part drawings, material and production requirements. KLD engineering will recommend the right capacity, configuration and tool clamping for your project.

RESPONSE COMMITMENT

Engineering response within one business day

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For product specifications and quotations

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Field inspection welcome — please schedule in advance