MEKOTEK USA

2026
PRODUCT CATALOG /

CNC

FIBER LASERS & PRESS BRAKES

FLO · FLC · FLP · MKT

PRECISION CUTTING & BENDING
POWER & CONTROL









- HIGH PRECISION
- POWERFUL PERFORMANCE
- SERVO TECHNOLOGY
- ENERGY EFFICIENCY
- RELIABLE SERVICE

MEKOTEK USA

THIS POWER **IS FOR YOU**

SUPERIOR BENDING TECHNOLOGY

LONG SERVICE LIFE

QUALITY & TRUST

www.mekotek.net

About Us

Mekotek holds a leading position in machine manufacturing, built on deep industry experience and a professional team. Thanks to our strong focus on R&D, we deliver high-technology solutions that best meet our customers' needs. We closely follow the latest technological developments in production and integrate them into our machines, so that our products run at maximum efficiency and perform well above industrial standards.

At Mekotek, quality is our first priority. Every machine we build is produced to the highest standards, and we take great care to minimize potential technical risks. With a production approach that never compromises on quality, our machines are designed to deliver the same high performance for many years. After-sales service and spare-parts support are core principles of our company. We provide all technical support on site and on time, so that our machines enjoy a long, trouble-free service life and our customers' production never stops.



Contents

About Us	02
FIBER LASER CUTTERS	**04**
Open Type Fiber Lasers	05
FLO-1530	06
Combo Laser – Open Type (FLO-P-1530)	07
Fully Enclosed Fiber Lasers	08
FLC-1530	09
Combo Laser – Fully Enclosed (FLC-P-1530)	10
Pipe / Profile Laser Cutting Machine	11
FLP-6035	12
CNC PRESS BRAKES	**13**
Hydraulic Press Brakes	14
Hydraulic – Standard & Optional Features	16
Hydraulic – Technical Specifications	17
Servo Press Brakes	18
Servo – Standard & Optional Features	20
Servo – Technical Specifications	21
Control Units	22
Backgauge Systems	23
Bending Chart – Metric & Notes	24
Bending Chart – Imperial & Notes	25

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PRODUCT CATALOG /

CNC

FIBER LASER CUTTERS

FLO · FLC · FLP SERIES

PRECISION CUTTING
SPEED & ACCURACY



- HIGH PRECISION
- POWERFUL PERFORMANCE
- SERVO TECHNOLOGY
- ENERGY EFFICIENCY
- RELIABLE SERVICE

MEKOTEK USA

THIS POWER
IS FOR YOU

SUPERIOR CUTTING TECHNOLOGY

LONG SERVICE LIFE

QUALITY & TRUST

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OPEN TYPE FIBER LASERS

FLO series · open-bed gantry fiber laser cutting machines

The FLO series combines speed, sensitivity, reliability and cost-effectiveness in an open-bed fiber laser. A rigid aerospace-grade aluminum gantry, an auto-focus cutting head with anti-collision protection and standard nesting software make it a fast, efficient way to bring sheet cutting in-house.

AVAILABLE SIZES

Model	Working area (metric)	Working area (imperial)
FLO 1530	1,524 × 3,048 mm	5 × 10 ft
FLO 2040	2,000 × 4,000 mm	6.6 × 13.1 ft
FLO 2060	2,000 × 6,000 mm	6.6 × 19.7 ft



FLO 1530 · 5 × 10 ft

FLO 2040 · 6.6 × 13.1 ft





FLO 2060 · 6.6 × 19.7 ft

FLO-1530

Open type fiber laser cutting machine · 5 × 10 ft



CUTTING CAPACITY

Material	3 kW	6 kW	12 kW	20 kW
Carbon steel	16 mm 5/8"	22 mm 7/8"	30 mm 1-3/16"	45 mm 1-3/4"
Stainless steel	6 mm 1/4"	12 mm 1/2"	25 mm 1"	40 mm 1-9/16"
Aluminum	5 mm 3/16"	10 mm 3/8"	25 mm 1"	30 mm 1-3/16"

Maximum thickness under optimal conditions; depends on material grade, assist gas and edge quality.

SPECIFICATIONS

Working area	1,524 × 3,048 mm (5 × 10 ft)
Loading capacity	800 kg (1,760 lb)
X-Y axis travel	1,520 × 3,030 mm (59-13/16" × 119-5/16")
Z axis travel	100 mm (3-15/16")
X-Y-Z axis guideways	4-point ball-caged linear guides
X-Y axis drive	Rack & pinion
Z axis drive	Ball screw
X-Y axis speed	80 m/min (3,150 ipm)
Z axis speed	30 m/min (1,181 ipm)
X-Y positioning accuracy	±0.05 mm (±0.002 in)
X-Y repeatability	±0.03 mm (±0.001 in)
Laser source	Max / JPT / Han's
Laser output power	3 / 6 / 12 / 20 kW
CNC control system	Fscut / Cypcut
Laser cutting head	Raytools / BOCI / WSX
Assist gases	Air / oxygen / nitrogen
Cooling	Water cooling
Machine weight	2,300 kg (5,070 lb)
Machine dimensions (W × L × H)	2,355 × 4,302 × 1,980 mm (7.7 × 14.1 × 6.5 ft)
Graphic formats	DWG / DXF / STP
Electrical supply	240 or 480 V, 3-phase, 60 Hz
Certifications	CE / ISO / FDA
Warranty	2 years

COMBO LASER – OPEN TYPE

FLO-P-1530 · sheet/plate and pipe/profile fiber laser · 5 × 10 ft



CUTTING CAPACITY

Material	3 kW	6 kW	12 kW	20 kW
Carbon steel	16 mm 5/8"	22 mm 7/8"	30 mm 1-3/16"	45 mm 1-3/4"
Stainless steel	6 mm 1/4"	12 mm 1/2"	25 mm 1"	40 mm 1-9/16"
Aluminum	5 mm 3/16"	10 mm 3/8"	25 mm 1"	30 mm 1-3/16"

Maximum thickness under optimal conditions; depends on material grade, assist gas and edge quality.

SPECIFICATIONS

Working area	1,524 × 3,048 mm (5 × 10 ft)
Loading capacity (sheet / pipe)	800 / 350 kg (1,760 / 770 lb)
X-Y axis travel	1,520 × 3,030 mm (59-13/16" × 119-5/16")
Z axis travel	400 mm (15-3/4")
X-Y-Z axis guideways	4-point ball-caged linear guides
X-Y axis drive	Rack & pinion
Z axis drive	Ball screw
X-Y axis speed	80 m/min (3,150 ipm)
Z axis speed	30 m/min (1,181 ipm)
X-Y positioning accuracy	±0.05 mm (±0.002 in)
X-Y repeatability	±0.03 mm (±0.001 in)
Max. profile length	6,100 mm (20 ft)
Max. pipe / profile size	Ø 220 mm (Ø 8-11/16")
Laser source	Max / JPT / Han's
Laser output power	3 / 6 / 12 / 20 kW
CNC control system	Fscut / Cypcut / TubePro
Laser cutting head	Raytools / BOCI / WSX
Assist gases	Air / oxygen / nitrogen
Cooling	Water cooling
Machine weight	4,100 kg (9,040 lb)
Machine dimensions (W × L × H)	3,200 × 8,150 × 1,980 mm (10.5 × 26.7 × 6.5 ft)
Graphic formats	DWG / DXF / STP
Electrical supply	240 or 480 V, 3-phase, 60 Hz
Certifications	CE / ISO / FDA
Warranty	2 years

FULLY ENCLOSED FIBER LASERS

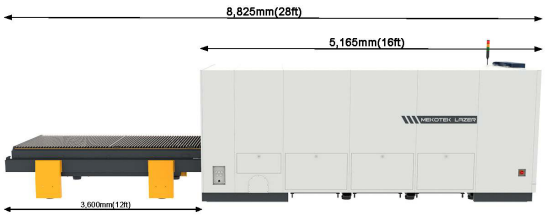
FLC series · enclosed cabin, dual shuttle tables

The FLC series pairs a fully enclosed cutting cabin with dual shuttle tables, so sheets are loaded and unloaded while the machine cuts. It protects operators from laser exposure and runs continuously from 1 kW up to 20 kW of laser power.

AVAILABLE SIZES

Model	Working area (metric)	Working area (imperial)
FLC 1530	1,524 × 3,048 mm	5 × 10 ft
FLC 2040	2,000 × 4,000 mm	6.6 × 13.1 ft
FLC 2060	2,000 × 6,000 mm	6.6 × 19.7 ft





FLC 1530 · 5 × 10 ft



FLC 2040 · 6.6 × 13.1 ft

FLC 2060 · 6.6 × 19.7 ft



FLC-1530

Fully enclosed dual-table fiber laser cutting machine · 5 × 10 ft



CUTTING CAPACITY

Material	3 kW	6 kW	12 kW	20 kW
Carbon steel	16 mm 5/8"	22 mm 7/8"	30 mm 1-3/16"	45 mm 1-3/4"
Stainless steel	6 mm 1/4"	12 mm 1/2"	25 mm 1"	40 mm 1-9/16"
Aluminum	5 mm 3/16"	10 mm 3/8"	25 mm 1"	30 mm 1-3/16"

Maximum thickness under optimal conditions; depends on material grade, assist gas and edge quality.

SPECIFICATIONS

Working area	1,524 × 3,048 mm (5 × 10 ft)
Loading capacity	1,200 kg (2,650 lb)
X-Y axis travel	1,520 × 3,048 mm (59-13/16" × 120")
Z axis travel	300 mm (11-13/16")
X-Y-Z axis guideways	4-point ball-caged linear guides
X-Y axis drive	Rack & pinion
Z axis drive	Ball screw
X-Y axis speed	80 m/min (3,150 ipm)
Z axis speed	30 m/min (1,181 ipm)
X-Y positioning accuracy	±0.05 mm (±0.002 in)
X-Y repeatability	±0.03 mm (±0.001 in)
Table change time	10 s
Laser source	Max / JPT / Han's
Laser output power	3 / 6 / 12 / 20 kW
CNC control system	Fscut / Cypcut
Laser cutting head	Raytools / BOCI / WSX
Assist gases	Air / oxygen / nitrogen
Cooling	Water cooling
Machine weight	4,700 kg (10,360 lb)
Machine dimensions (W × L × H)	2,698 × 9,175 × 2,560 mm (8.9 × 30.1 × 8.4 ft)
Graphic formats	DWG / DXF / STP
Electrical supply	240 or 480 V, 3-phase, 60 Hz
Certifications	CE / ISO / FDA
Warranty	2 years

COMBO LASER – FULLY ENCLOSED

FLC-P-1530 · sheet/plate and tube/profile fiber laser · 5 × 10 ft



CUTTING CAPACITY

Material	3 kW	6 kW	12 kW	20 kW
Carbon steel	16 mm 5/8"	22 mm 7/8"	30 mm 1-3/16"	45 mm 1-3/4"
Stainless steel	6 mm 1/4"	12 mm 1/2"	25 mm 1"	40 mm 1-9/16"
Aluminum	5 mm 3/16"	10 mm 3/8"	25 mm 1"	30 mm 1-3/16"

Maximum thickness under optimal conditions; depends on material grade, assist gas and edge quality.

SPECIFICATIONS

Working area	1,524 × 3,048 mm (5 × 10 ft)
Loading capacity (sheet / Ø220 pipe)	1,200 / 350 kg (2,650 / 770 lb)
Loading capacity (sheet / Ø350 pipe)	1,200 / 800 kg (2,650 / 1,760 lb)
X-Y axis travel	1,520 × 3,048 mm (59-13/16" × 120")
Z axis travel	350 mm (13-3/4")
X-Y-Z axis guideways	4-point ball-caged linear guides
X-Y axis drive	Rack & pinion
Z axis drive	Ball screw
X-Y axis speed	80 m/min (3,150 ipm)
Z axis speed	30 m/min (1,181 ipm)
X-Y positioning accuracy	±0.05 mm (±0.002 in)
X-Y repeatability	±0.03 mm (±0.001 in)
Table change time	10 s
Max. pipe / profile size	Ø 350 / Ø 220 mm (Ø 13-3/4" / 8-11/16")
Laser source	Max / JPT / Han's
Laser output power	3 / 6 / 12 / 20 kW
CNC control system	Fscut / Cypcut
Laser cutting head	Raytools / BOCI / WSX
Assist gases	Air / oxygen / nitrogen
Cooling	Water cooling
Machine weight	10,000 kg (22,050 lb)
Machine dimensions (W × L × H)	4,400 × 10,000 × 2,560 mm (14.4 × 32.8 × 8.4 ft)
Graphic formats	DWG / DXF / STP
Electrical supply	240 or 480 V, 3-phase, 60 Hz
Certifications	CE / ISO / FDA
Warranty	2 years

PIPE / PROFILE LASER CUTTING MACHINE

FLP series · dedicated tube and profile fiber laser cutting

The FLP series is a dedicated pipe and profile fiber laser. Rotary chucks clamp and turn the stock while the cutting head follows the profile, so round, square and rectangular tube and structural sections such as I-beams, H-beams and U-channels are cut, notched and drilled in one set-up, ready for welding and assembly.

CAPACITY

	Metric	Imperial
Max. profile length	6,100 mm	20 ft
Max. pipe / profile size	Ø 250 mm (option Ø 350 mm)	Ø 9-13/16" (option Ø 13-3/4")
Profile types	Round, square & rectangular tube	I-beam, H-beam, U-channel
Laser output power	3 / 6 / 12 / 20 kW	—









FLP-6035

Pipe / profile fiber laser cutting machine



CUTTING CAPACITY

Material	3 kW	6 kW	12 kW	20 kW
Carbon steel	16 mm 5/8"	22 mm 7/8"	30 mm 1-3/16"	45 mm 1-3/4"
Stainless steel	6 mm 1/4"	12 mm 1/2"	25 mm 1"	40 mm 1-9/16"
Aluminum	5 mm 3/16"	10 mm 3/8"	25 mm 1"	30 mm 1-3/16"

Maximum thickness under optimal conditions; depends on material grade, assist gas and edge quality.

SPECIFICATIONS

Loading capacity	850 kg (1,875 lb)
Z axis travel	440 mm (17-5/16")
X-Y-Z axis guideways	4-point ball-caged linear guides
X-Y axis drive	Rack & pinion
Z axis drive	Ball screw
X-Y axis speed	80 m/min (3,150 ipm)
Z axis speed	30 m/min (1,181 ipm)
X-Y positioning accuracy	±0.05 mm (±0.002 in)
X-Y repeatability	±0.03 mm (±0.001 in)
Max. profile length	6,100 mm (20 ft)
Max. pipe / profile size	Ø 250 mm (Ø 9-13/16"); option Ø 350 mm (Ø 13-3/4")
Laser source	Max / JPT / Han's
Laser output power	3 / 6 / 12 / 20 kW
CNC control system	Fscut
Laser cutting head	Raytools / BOCI / WSX
Assist gases	Air / oxygen / nitrogen
Cooling	Water cooling
Machine weight	7,000 kg (15,430 lb)
Machine dimensions (W × L × H)	2,560 × 11,102 × 2,671 mm (8.4 × 36.4 × 8.8 ft)
Graphic formats	DWG / DXF / STP
Electrical supply	240 or 480 V, 3-phase, 60 Hz
Certifications	CE / ISO / FDA
Warranty	2 years

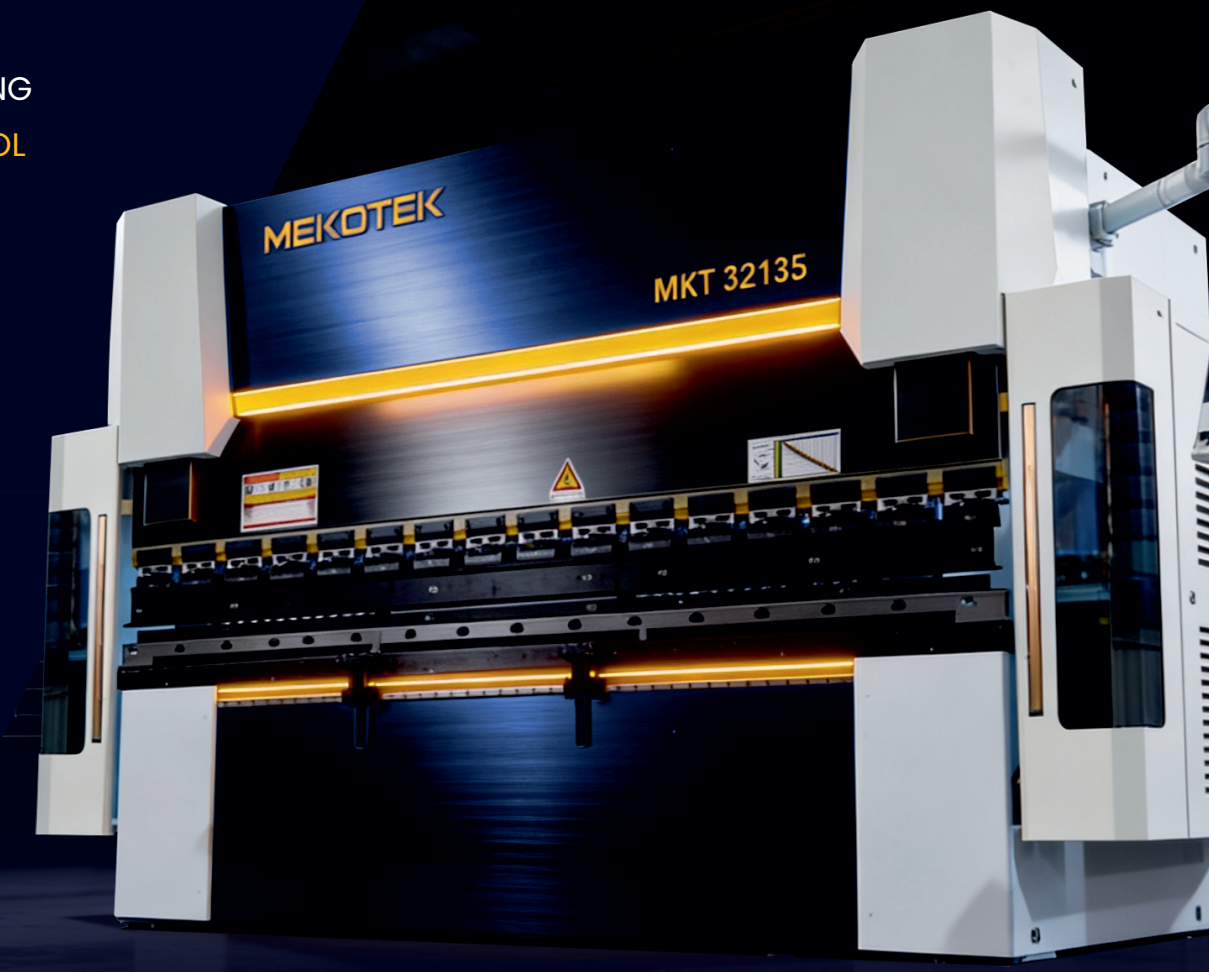
MEKOTEK USA

2026
PRODUCT CATALOG /

CNC
PRESS BRAKES

MKT SERIES

PRECISION BENDING
POWER & CONTROL



- HIGH PRECISION
- POWERFUL PERFORMANCE
- SERVO TECHNOLOGY
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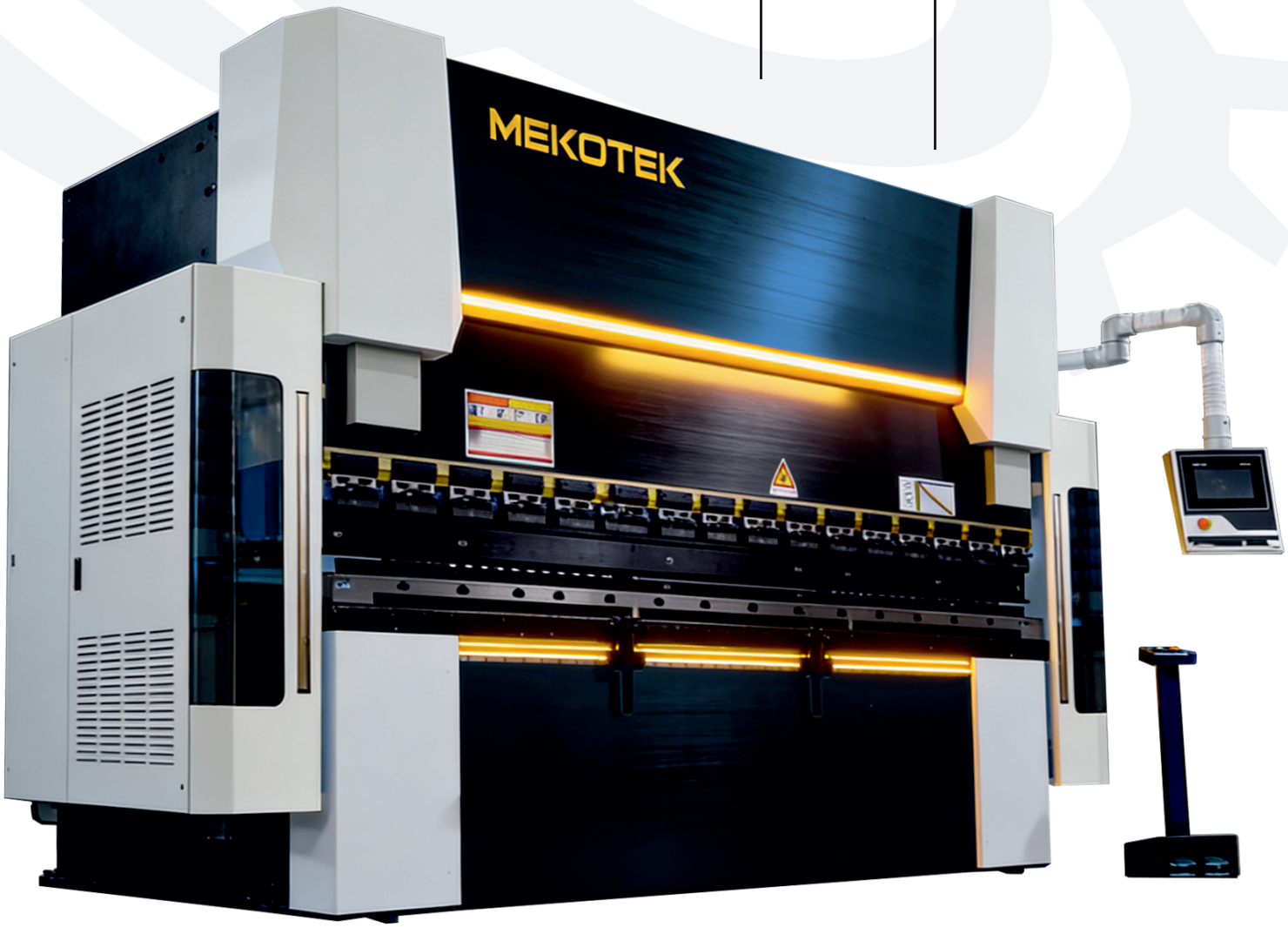
High Capacity

Fast & Precise Bending

Rigid Frame

CE European Standard

Low Service Costs



MKT Series

Hydraulic Press Brakes.

The new-generation CNC Press Brake Series brings maximum efficiency to modern production with high precision, a rigid frame and advanced control technology. Built for heavy industrial conditions, it offers a long service life, while its precise bending performance raises production quality to the next level. A servo-supported motion system, a user-friendly CNC control panel and high repeatability deliver professional solutions for the production needs of many different industries.

Maximum Efficiency,

FLAWLESS BENDING CONTROL.

GENERAL FEATURES

Dual-cylinder hydraulic operation

High-performance hydraulic gear pump – REXROTH

High-pressure filter ahead of all components (with clogging sensor and bypass)

Air breather filter on the oil tank

Rapid gravity descent, bending stage and ram return,
electronically controlled through proportional flow valves – REXROTH

Bending force controlled by proportional pressure valves – REXROTH

Quality hydraulic oil with a high viscosity index

Frame designed and dimensioned with analysis software

Hydraulic components from the world's leading manufacturers (REXROTH)

Connectors and system piping sized to DIN standards

Flanged fittings and hoses compliant with SAE regulations

Cylinders machined from high-quality materials, hardened and
precision-finished on the sliding surfaces

Seal selection and frame sizing based on many years of experience

Preventive system flushing and comprehensive testing

Only welded steel with high tensile strength and hardness is used

STANDARD FEATURES

Cybelec CNC Control Unit

User-friendly interface for fast programming and precise bending control. Simplifies production and increases operator efficiency.

Euro-Type Latch Tool Clamping Systems

The latch design allows fast, practical tool changes. Secure clamping gives precise, stable bending performance.

Standard Front Support Arms

Keep the sheet balanced during processing, making operation easier and more controlled.

X-R Axis Backgauge System

Precise positioning gives repeatable dimensions, with fast and accurate set-up for different part sizes.

X: 550 mm (21.7") Backgauge Axis

A 550 mm (21.7") backgauge travel gives a wide working range, so large and varied parts can be processed precisely.

Motorized Crowning System

Compensates for deflection along the bend length for more precise results. Motorized adjustment makes it easy to use.

Fiessler & DSP Front Safety System

Advanced sensor technology maximizes operator safety. The system stops instantly in a hazardous situation.

Stainless Oil Tank

Corrosion-resistant stainless steel helps extend the life of the oil and machine components.

Dual Foot Pedal with Emergency Stop

Comfortable control and quick intervention for the operator. The emergency stop halts the machine instantly if a risk arises.

OPTIONAL FEATURES



Speed Power Hold Tool Clamping

High clamping force holds the tools securely. The quick-connect design shortens set-up time.



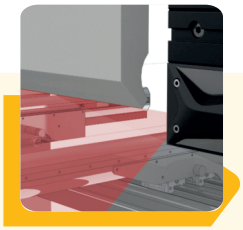
Wila Pro & Premium Tool Clamping

A top-precision, highly durable clamping system for maximum accuracy in complex bending jobs.



Automatic Sheet Follower System

Supports large, heavy or thin, long sheets during bending, preventing deformation caused by gravity or bending speed.



Laser Bending Light

Projects a laser line on the bending line for precise alignment. Makes thin and detailed work easier.



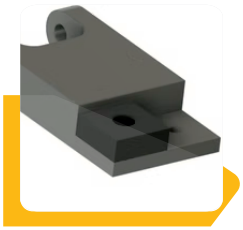
DELEM Control Unit

Advanced CNC control features with detailed programming and easy use. Multi-axis support raises productivity.



Optical & Magnetic Linear Scales

Electronic sensors that measure the vertical ram movement with micron-level precision and send the position to the CNC control.



Backgauge Finger Set Add-on

Flexible, precise positioning for different part sizes, expanding production capability for complex bends.



Motorized Central Lubrication System

Automatically lubricates the moving parts of the machine, reducing maintenance time for longer life and stable performance.

TECHNICAL SPECIFICATIONS

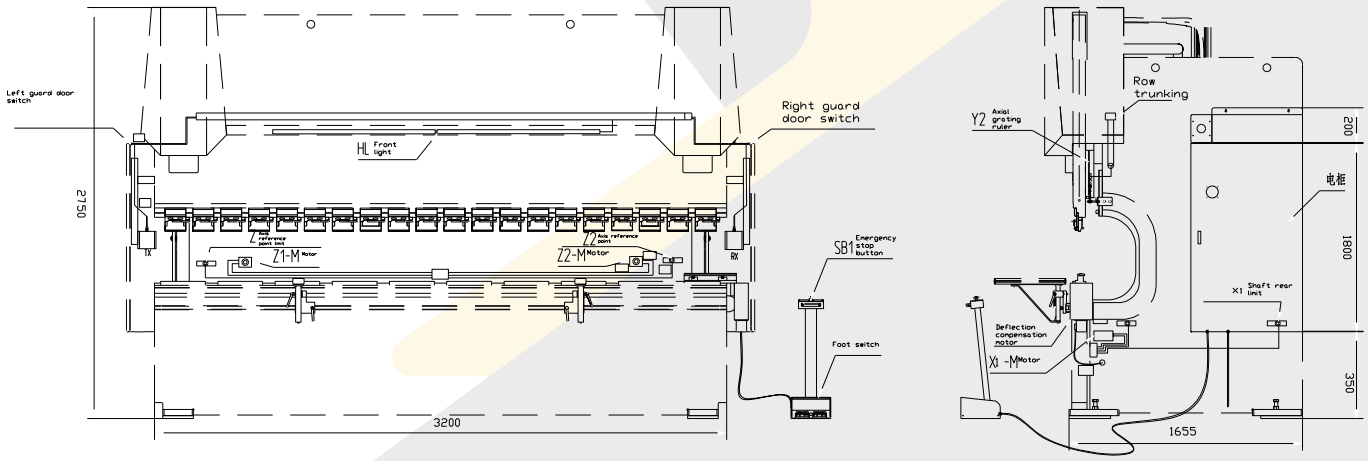
Design and specifications are subject to change by MEKOTEK without notice.

		MODEL	1500x60	2100x100	2600x100	3200x135	3200x220	4200x220	4200x320	4200x400	6200x400	6200x600
Capacity		kN US ton	400 45	600 67	900 101	1200 135	2400 270	2400 270	3000 337	4400 495	4400 495	6000 674
Motor Power		kW hp	4 5.4	5.5 7.4	7.5 10.1	11 14.8	22 29.5	22 29.5	22 29.5	30 40.2	30 40.2	37 49.6
Oil Tank		L US gal	200 52.8	200 52.8	200 52.8	200 52.8	200 52.8	200 52.8	280 74.0	450 118.9	450 118.9	500 132.1
Approach Speed		mm/s in/s	160 6.30	150 5.91	150 5.91	160 6.30	130 5.12	150 5.91	120 4.72	80 3.15	90 3.54	80 3.15
Bending Speed		mm/s in/s	10 0.39	10 0.39	10 0.39	10 0.39	10 0.39	10 0.39	8 0.31	8 0.31	8 0.31	7 0.28
Return Speed		mm/s in/s	130 5.12	130 5.12	130 5.12	130 5.12	120 4.72	100 3.94	90 3.54	70 2.76	70 2.76	70 2.76
Weight		t lb	4.3 9,480	5.4 11,900	7.1 15,650	8.4 18,520	11 24,250	14 30,860	18.5 40,790	26 57,320	39 85,980	55 121,250
Bending Length	A	mm in	1500 59.1	2100 82.7	2600 102.4	3200 126.0	3200 126.0	4200 165.4	4200 165.4	4200 165.4	6200 244.1	6200 244.1
Between Frames	B	mm in	1270 50.0	1600 63.0	2050 80.7	2550 100.4	2550 100.4	3550 139.8	3550 139.8	3550 139.8	5100 200.8	5100 200.8
Frame Width	C	mm in	1470 57.9	1580 62.2	1580 62.2	1590 62.6	1610 63.4	1610 63.4	1820 71.7	2235 88.0	2250 88.6	2400 94.5
Table Height	G	mm in	800 31.5	880 34.6	880 34.6	880 34.6	880 34.6	880 34.6	980 38.6	955 37.6	1100 43.3	1050 41.3
Open Height	K	mm in	455 17.9	475 18.7	540 21.3	540 21.3	530 20.9	530 20.9	635 25.0	590 23.2	570 22.4	620 24.4
Stroke	L	mm in	215 8.5	210 8.3	260 10.2	260 10.2	260 10.2	260 10.2	320 12.6	320 12.6	320 12.6	360 14.2
Table Width	M	mm in	60 2.4	60 2.4	60 2.4	60 2.4	90 3.5	90 3.5	280 11.0	380 15.0	280 11.0	380 15.0
Throat Depth	N	mm in	400 15.7	400 15.7	400 15.7	400 15.7	400 15.7	400 15.7	500 19.7	500 19.7	500 19.7	500 19.7

Upper value: metric | lower value (grey): imperial. 1 US ton = 2,000 lb.

TECHNICAL DIMENSIONS

Drawing dimensions in mm (1 in = 25.4 mm). Inch values for each model are listed in the table above.



100% Electric 0% Oil

CE European Standard

Low Service Costs

Low Energy Use

Fast & Precise Bending



MKT Series

Servo Press Brakes.

The new-generation Servo-Electric CNC Press Brake Series combines superior precision, high speed and energy efficiency, setting a new standard for modern production. Servo drive technology eliminates hydraulic oil, and with low maintenance needs and optimized energy consumption it offers more economical and sustainable operation. An advanced servo motion system, high repeatability and user-friendly CNC control technology deliver fast, precise and reliable solutions for the production needs of many different industries.

With Servo Technology,

SPEED
PRECISION
EFFICIENCY.

GENERAL FEATURES

Only welded steel with high tensile strength and hardness is used.
Preventive system inspections and comprehensive precision testing.
Ball-screw selection and frame sizing based on many years of experience.
Ball screws machined from high-quality materials, hardened, with precision-finished nut sliding surfaces.
Hardened and ground high-precision ball screws.
Electrical connectors and shielded panel wiring to international standards.
High-torque servo motors and drives from the world's leading manufacturers.
Frame designed and dimensioned with finite element analysis software.
Oil-free, high-efficiency electrical system that draws power only while bending.
Bending force controlled directly by the servo motors and ball-screw drive.
Rapid descent, bending stage and upper beam return are electronically controlled by servo drives and high-resolution encoders.
Electronic and mechanical over-torque / overload protection for the ball-screw mechanism.
Integrated automatic lubrication unit for the mechanical system and ball screws.
High-torque servo motors coupled directly to the ball screws instead of conventional hydraulics.
Independent dual-axis operation with twin servo motors and precision ball screws.

STANDARD FEATURES

Syntec CNC Control Unit

User-friendly interface for fast programming and precise bending control. Simplifies production and increases operator efficiency.

Euro-Type Latch Tool Clamping Systems

The latch design allows fast, practical tool changes. Secure clamping gives precise, stable bending performance.

Standard Front Support Arms

Keep the sheet balanced during processing, making operation easier and more controlled.

X-R Axis Backgauge System

Precise positioning gives repeatable dimensions, with fast and accurate set-up for different part sizes.

X: 250 mm (9.8") Backgauge Axis

A 250 mm (9.8") backgauge travel gives a wide working range, so large and varied parts can be processed precisely.

Motorized Crowning System

Compensates for deflection along the bend length for more precise results. Motorized adjustment makes it easy to use.

Fiessler & DSP Front Safety System

Advanced sensor technology maximizes operator safety. The system stops instantly in a hazardous situation.

Dual Foot Pedal with Emergency Stop

Comfortable control and quick intervention for the operator. The emergency stop halts the machine instantly if a risk arises.

OPTIONAL FEATURES



Speed Power Hold Tool Clamping

High clamping force holds the tools securely. The quick-connect design shortens set-up time.



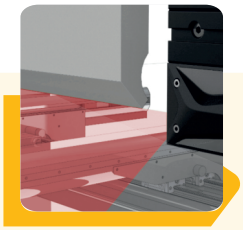
Wila Pro & Premium Tool Clamping

A top-precision, highly durable clamping system for maximum accuracy in complex bending jobs.



Automatic Sheet Follower System

Supports large, heavy or thin, long sheets during bending, preventing deformation caused by gravity or bending speed.



Laser Bending Light

Projects a laser line on the bending line for precise alignment. Makes thin and detailed work easier.



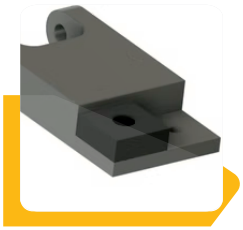
DELEM Control Unit

Advanced CNC control features with detailed programming and easy use. Multi-axis support raises productivity.



Optical & Magnetic Linear Scales

Electronic sensors that measure the vertical ram movement with micron-level precision and send the position to the CNC control.



Backgauge Finger Set Add-on

Flexible, precise positioning for different part sizes, expanding production capability for complex bends.



Motorized Central Lubrication System

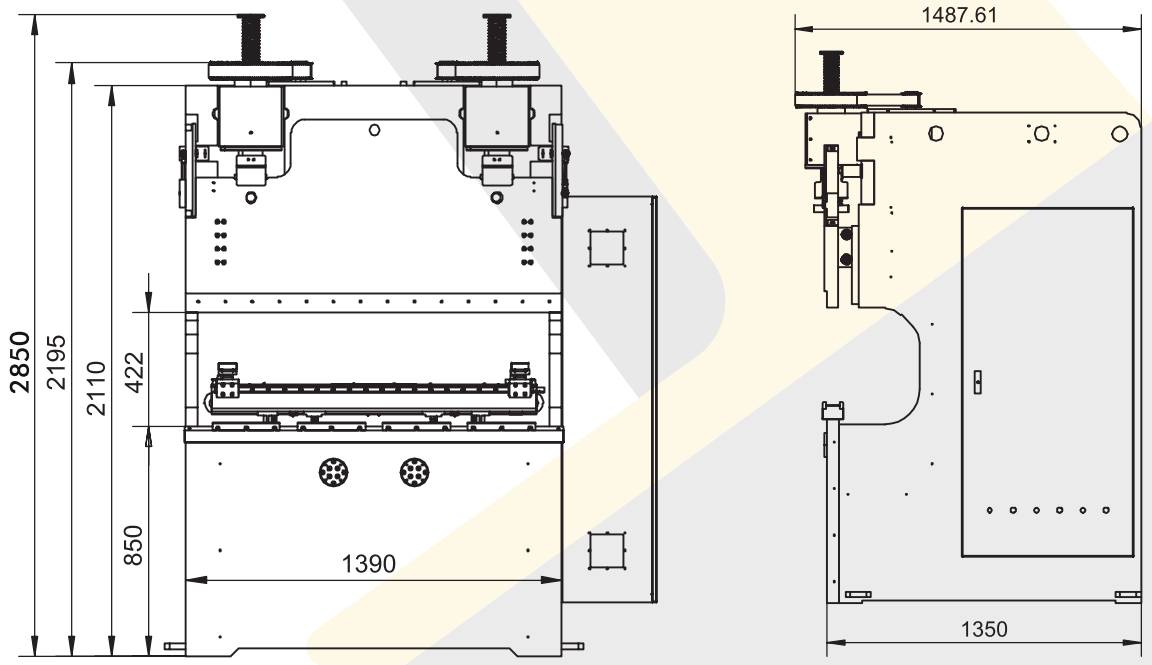
Automatically lubricates the moving parts of the machine, reducing maintenance time for longer life and stable performance.

TECHNICAL SPECIFICATIONS

Design and specifications are subject to change by MEKOTEK without notice.

		MKT 1340 — METRIC	MKT 1340 — IMPERIAL
Bending Length	B	1300 mm	51.2 in
Bending Capacity		40 t	44.1 US ton
Daylight	Q	422 mm	16.6 in
Max. Stroke		150 mm	5.9 in
Y-Axis Speed (rapid / bend / return)		120 / 10 / 120 mm/s	4.72 / 0.39 / 4.72 in/s
Motor Power		2 × 3.8 kW	2 × 5.1 hp
Length	A	1487 mm	58.5 in
Width	C	1390 mm	54.7 in
Height	D	2850 mm	112.2 in
Weight		6000 kg	13,230 lb

TECHNICAL DIMENSIONS



Drawing dimensions in mm: 2850 = 112.2" · 2195 = 86.4" · 2110 = 83.1" · 850 = 33.5" · 422 = 16.6" · 1390 = 54.7" · 1487.61 = 58.6" · 1350 = 53.1"

CONTROL UNITS



Cybelec
Cybtouch 12 (Standard)

12" (305 mm) high-resolution color touch screen
2D graphical programming support
Automatic bend sequence calculation
Product and tool library management
Data transfer via USB
Multi-axis control support

Cybelec
Cybtouch 15

15" (381 mm) high-resolution color touch screen
Advanced 2D graphical programming interface
Automatic bend sequence and angle calculation
Data transfer via USB and network
Multi-axis and advanced backgauge control
Offline programming and data management





DELEM
53 Series

10.1" (257 mm) high-resolution color touch screen
2D graphical programming support
Automatic bend sequence calculation
Product and tool library management
Data transfer via USB
Multi-axis control support

Syntec
Syntec S63

18.5" (470 mm) touch-screen controller
6 axes standard, supports up to 16 axes
2D offline software and remote file transfer
Patented V/R/spline position navigation
Tool / material library





Syntec
Syntec 730

17" (432 mm) high-resolution color touch screen
Easy import and unfolding
2D CAD programming
Automatic bend sequence generation
Manual process adjustment
Real-time animation during processing

BACKGAUGE

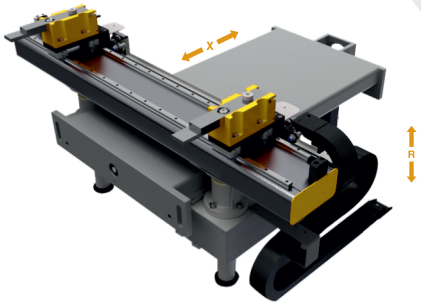
One of the most important factors affecting bending quality is the design and stability of the backgauge system. Error-free bends and flawless products are only possible with a stable, precise backgauge system.

The backgauge system manufactured by Mekotek is one of the key elements of bending quality. Whether the job is single-step or multi-step, complex parts can be bent with up to 6 backgauge axes. Ball-screw backgauges running on linear guides and driven by servo motors deliver flawless bends at high speed and precision, and stepped backgauge fingers make every kind of bending operation easy.

Standard Backgauge

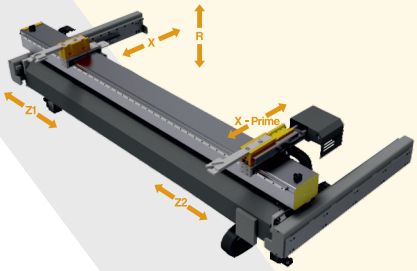
- Servo motor-driven X axis
- Ball screw for the X axis
- Twin linear guides for each axis
- X-axis positioning accuracy ±0.03 mm (±0.0012")

STANDARD



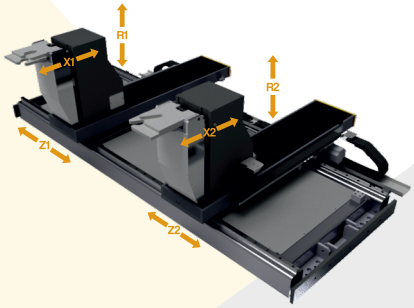
X-R Backgauge

OPTION

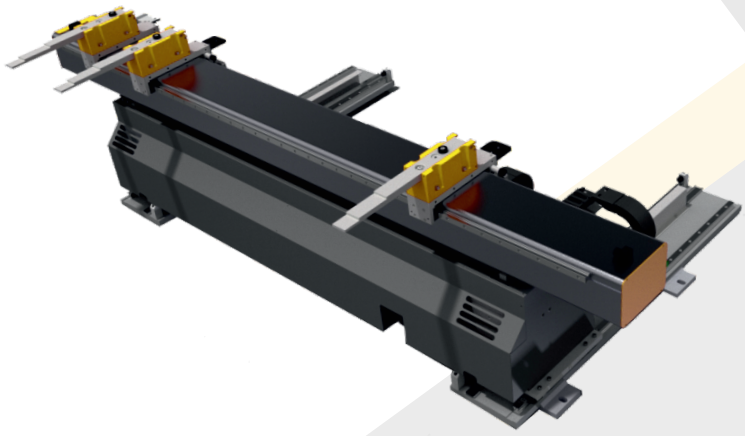


X-R-Z1-Z2 + X PRIME Backgauge

OPTION



X1-X2-R1-R2-Z1-Z2 Backgauge



Optional Axes

X1, X2, R
X, R, Z1, Z2
X, X', R, Z1, Z2
X1, X2, R, Z1, Z2
X1, X2, R1, R2, Z1, Z2

NOTES

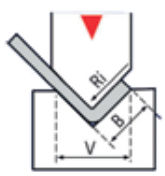
MEKOTEK USA

BENDING CHART — METRIC

MEKOTEK USA — **BENDING CHART**

S = sheet thickness (mm) · values = bending force, metric ton/m

V	R	B	0.5	0.8	1	1.2	1.5	2	2.5	3	4	5	6	8	10	12	15	20	25	30
4	0.7	2.6	4	10.5																
6	0.9	3.9	2.6	6.9	10.6	15.3														
8	1.5	5.2	2	5.5	8	11.5	18													
10	1.7	6.5		4.1	6.5	9.5	14.5	26												
12	2	7.8			5.5	8	12	21.5	33.5											
16	2.7	10.4				6	9	16	25	36										
20	3.4	13					7.5	13	20	29	52									
24	3.9	15.6						10.6	17	24	43	67								
30	5	20							14	19	34	54	77							
35	6	23								17	30	46	66							
40	7	26								15	26	40	58	103						
50	8.5	32									21	32	46	82	120					
55	9	36										30	42	75	117					
60	10	39										27	39	69	107					
70	11.7	45											33	59	92	132				
80	13.5	52											29	52	80	116	180			
90	15	58												46	71	103	160			
100	17	65												41	64	93	144			
120	20	78													54	77	120			
140	24	91														66	103	183		
160	25	104															90	160	250	
200	31	130															72	128	200	
250	39	163																102	160	230
300	47	195																85	133	192



TS: tensile strength
(steel 42 kg/mm² ≈ 60 ksi)

F $F = (S^2 \times 2 \times TS) \div (1.4 \times V)$ = ... ton/m

S, V in mm · TS in kg/mm²

BENDING CHART — IMPERIAL

MEKOTEK USA

MEKOTEK USA — BENDING CHART

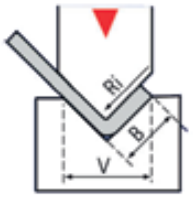
S = sheet thickness (in) · values = bending force, US ton/ft

V	R	B	.020	.031	.039	.047	.059	.079	.098	.118	.157	.197	.236	.315	.394	.472	.591	.787	.984	1.181
.157	.028	.102	1.3	3.5																
.236	.035	.154	0.9	2.3	3.6	5.1														
.315	.059	.205	0.7	1.8	2.7	3.9	6.0													
.394	.067	.256		1.4	2.2	3.2	4.9	8.7												
.472	.079	.307			1.8	2.7	4.0	7.2	11											
.630	.106	.409				2.0	3.0	5.4	8.4	12										
.787	.134	.512					2.5	4.4	6.7	9.7	17									
.945	.154	.614						3.6	5.7	8.1	14	23								
1.181	.197	.787							4.7	6.4	11	18	26							
1.378	.236	.906								5.7	10	15	22							
1.575	.276	1.024								5.0	8.7	13	19	35						
1.969	.335	1.260									7.1	11	15	28	40					
2.165	.354	1.417										10	14	25	39					
2.362	.394	1.535										9.1	13	23	36					
2.756	.461	1.772											11	20	31	44				
3.150	.531	2.047											9.7	17	27	39	60			
3.543	.591	2.283												15	24	35	54			
3.937	.669	2.559												14	22	31	48			
4.724	.787	3.071													18	26	40			
5.512	.945	3.583														22	35	61		
6.299	.984	4.094															30	54	84	
7.874	1.220	5.118															24	43	67	
9.843	1.535	6.417																34	54	77
11.811	1.850	7.677																29	45	65

F $F \approx 512 \times S^2 \div V$ (US ton/ft)

S, V in inches · mild steel 60 ksi

1 metric ton/m = 0.336 US ton/ft



TS: tensile strength
(steel 42 kg/mm² ≈ 60 ksi)

NOTES

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