



PPEC Series

PRESS BRAKES



www.lvdgroup.com

Sheet Metalworking, Our Passion, Your Solution

PPEC SERIES

Affordable Precision Bending

Robust framework, reliable and precise within a cost-competitive framework, PPEC Series press brakes offer solid value and high functionality. A servo-controlled design using leading-edge hydraulics and electronics ensures perfect control of the bending process. LVD touch screen control technology provides a simple, intuitive interface that's easy to use.

- **Consistent bending results**
- **Cost-competitive production**
- **Reliable operation**
- **Energy efficient**





PPEC Series

- **Capacities** from 35 tons to 640 tons, bed lengths up to 6100 mm
- **Simple** to set up and operate
- **Touch-B Lite** touch screen control
- **ERS Energy Reduction System** with Stop-Start technology reduces energy consumption by up to 45%
- **Servo-controlled** using state-of-the-art hydraulics and electronics for full bending control
- **Flexible tooling system** with choice of tool clamping style
- **Double bed referenced encoders** for unconditional accuracy
- Automatic V-axis CNC crowning system (PPEC-5, PPEC-7) for parallel and **consistent bending results** no matter the tonnage level
- **Rugged high-accuracy** back gauge design
- **Two-axis** (X, R) **or four-axis** back gauge (X, R, Z1, Z2), depending on model
- Optional offline programming with LVD's **CADMAN®-B** software

KEY FEATURES

Bending Made Easy

Fast, accurate and consistent bending in an energy saving design



ROBUST FRAME

PPEC Series machines are designed and built utilizing a welded one-piece frame, machined without repositioning, guaranteeing machine precision.

ACCURATE HYDRAULIC SYSTEM

Manufactured in-house by LVD, the PPEC Series hydraulic system delivers power efficient, high accuracy performance in a field proven design.

ROBUST BACK GAUGE SYSTEM

An 'A' profile rigid cross member back gauge construction with dual Z-axis guiding delivers superior gauging performance.

FLEXIBLE TOOLING SYSTEM

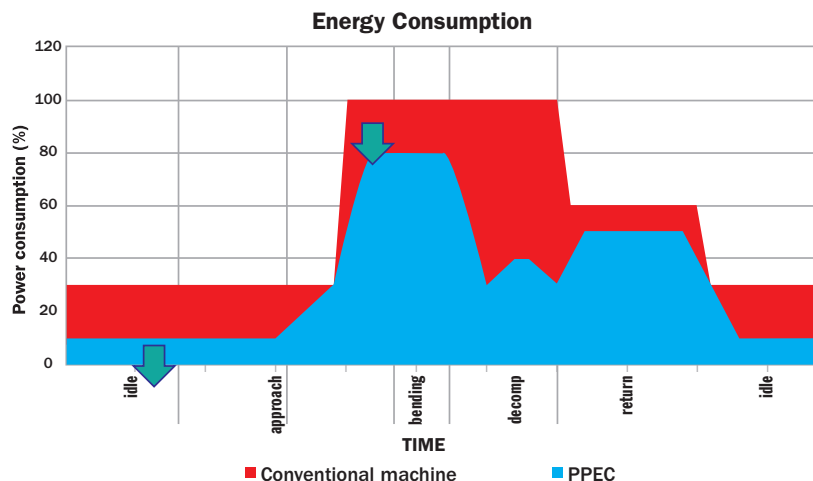
PPEC machines accept LVD Classic, LVD Vertical Load or Universal style tooling, providing optimal flexibility in tool setup and integration with existing tooling styles in use in your factory.

INTUITIVE TOUCH SCREEN CONTROL

Easy to use and intuitive, PPEC machines are controlled by LVD's exclusive Touch-B Lite touch screen control system.

ERS – ENERGY REDUCTION SYSTEM

The frequency drive Stop-Start hydraulic motor technology provides optimal energy consumption. An on-board energy reduction system automatically reduces power consumption by up to 45%.



KEY FEATURES

Accurate, Energy Efficient Bending

AUTOMATIC CROWNING SYSTEM

Standard on PPEC-5 and PPEC-7 models is the Automatic V-axis CNC crowning system that ensures parallel bending every time with automatic adjustment according to material thickness and tonnage.

HYDRAULIC CLAMPING

As an option on all PPEC Series machines with vertical clamping, hydraulic quick-clamping helps reduce tool set-up and changeover time, increasing bending throughput.

Z1-Z2 AXES

Adding the option of Z1-Z2 axes simplifies multiple station and off-center bending and increases the flexibility of the PPEC.

FRONT SHEET SUPPORTS

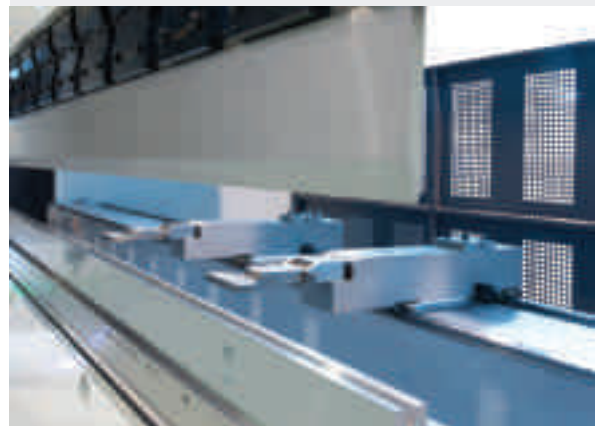
Optional sheet supports simplify the bending of large, heavy or oversized workpieces.

LAZER SAFE

Standard on CE certified machines, Lazer Safe is a patented laser sensor safe system that provides maximum protection for the operator while keeping production levels high. The Lazer Safe unit is fully integrated with the Touch-B Lite control.



V-axis CNC crowning



Optional Z1-Z2



Lazer Safe

KEY FEATURES

Flexible Back Gauge System



Rigid 'A' profile back gauge provides superior gauging performance.

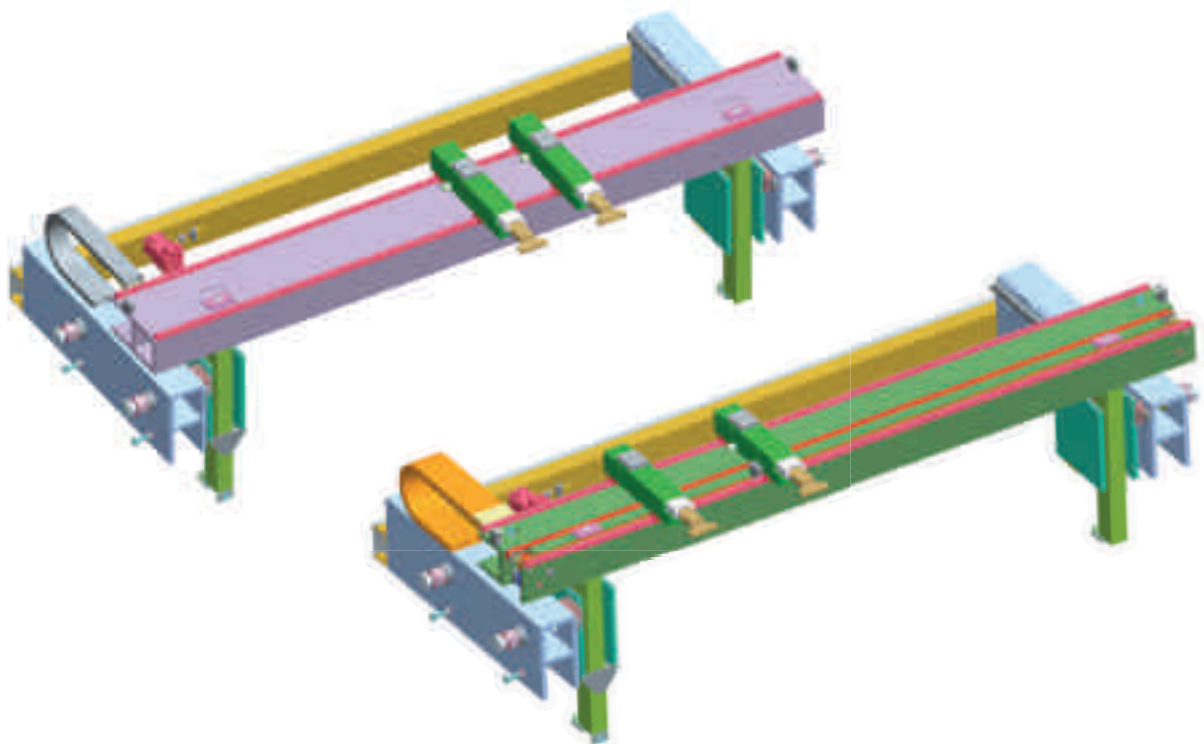
PRECISE GAUGING

A solidly-constructed 'A' profile rigid two-axis back gauge allows depth (X-axis) and height (R-axis) positioning of the two standard back gauge fingers. PPEC-6 and PPEC-7 models offer the additional flexibility of Z1 and Z2 motorized back gauge movement.

The standard PPEC back gauge fingers allow gauging to 1000 mm and also serve as material supports. PPEC-4 and PPEC-5 models can be equipped with an additional third finger support, ideally suited to the bending of omega and other similar profiles.

DUO BACK GAUGE

	PPEC-4	PPEC-5	PPEC-6	PPEC-7
X-R-Z1-Z2			◆	◆
X-R	◆	◆		



Intuitive Operation

TOUCH SCREEN CONTROL

PPEC press brakes are easy to set up and easy to use with minimal training required. LVD's exclusive Touch-B Lite touch screen CNC control features a graphical user interface that is highly intuitive, simple to learn and operate.

- Quick Bend programming
- Easy-to-use 2D graphical programming
- Automatic collision detection and simulation
- Interactive bending sequence
- Manual input of bending sequences and choice of gauging reference
- Highly reliable control, Windows® based operating system
- Network compatible
- Rugged, industrial design

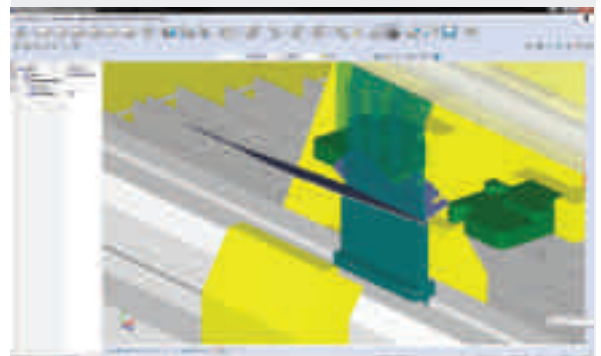
CADMAN®

OFFLINE PROGRAMMING

LVD's optional CADMAN® software package offers the ideal solution to quickly prepare and execute offline programs and integrate production processes for greater productivity.

CADMAN® -B offline programming software is uniquely designed for LVD press brakes and makes bending easier by taking full advantage of PPEC capabilities.

Intuitive and easy to use



PPEC SERIES

Wide Range of Capacities

COMPACT AND ECONOMICAL PPEC Compact

- 35 and 50 ton models
- Bending speeds up to 20 mm per second for fast, accurate bending of smaller piece parts
- Two-axis (X, R) or four-axis back gauge (X, R, Z1, Z2)



PPEC 135/30



PPEC 50/20 Compact

RELIABLE WORKHORSES

PPEC-4, PPEC-5, PPEC-6, PPEC-7

- Dependable, precision machines up to 220 tons for a range of daily bending operations
- Rugged, welded one-piece frame ensures machine accuracy
- Four-axis configuration
- Five-axis design featuring CNC controlled crowning table
- Six-axis and seven-axis configurations with motorized Z1 and Z2 back gauge movement

LARGE CAPACITY

- PPEC-4, PPEC-5 and PPEC-7 large capacity heavy duty machines from 320 to 640 tons for heavier forming applications
- Two-axis (X, R) or four-axis back gauge (X, R, Z1, Z2)



PPEC 220/42

A machine to suit your application



PPEC SERIES

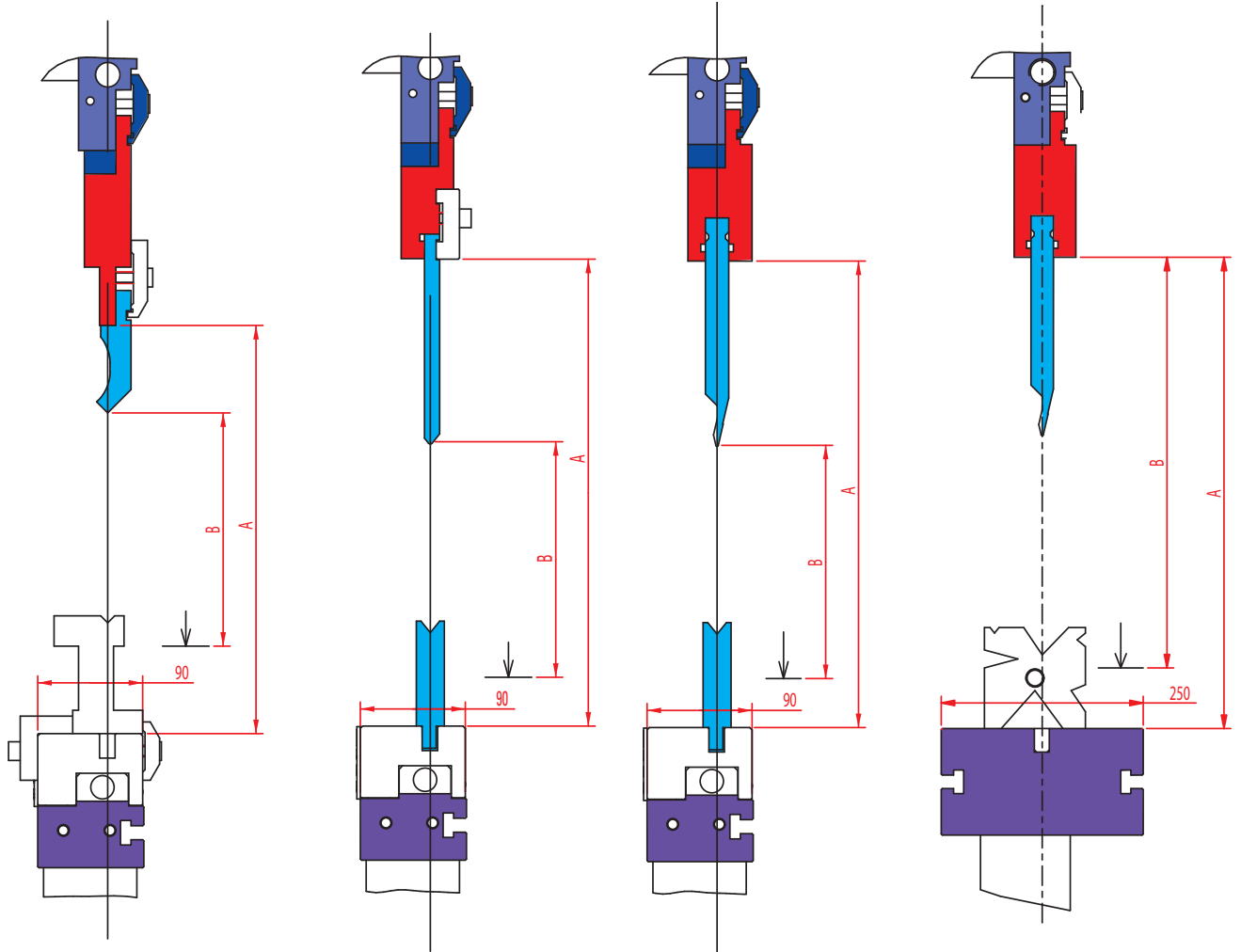
Tooling Versatility

UNIVERSAL-STYLE TOOLING

LVD-STYLE TOOLING

VERTICAL-STYLE TOOLING

HEAVY DUTY TOOLING



UNIVERSAL-STYLE TOOLING

	A	B
Capacity	Distance	Stroke
80 – 220 T	350 mm	200 mm

LVD-STYLE TOOLING/VERTICAL-STYLE TOOLING

	A	B
Capacity	Distance	Stroke
80 – 220 T	400 mm	200 mm

HEAVY DUTY PPEC TOOLING

	A	B
Capacity	Distance	Stroke
320 – 640 T	570 mm	300 mm

PPEC SERIES

Technical Specifications

TYPE	35/15	50/20	80/20	80/25	110/30	135/30	135/42
Pressing force (kN)	350	500	800	800	1100	1350	1350
Working length (mm)	1550	2000	2000	2500	3050	3050	4270
Distance between uprights (mm)	1300	1550	1550	2050	2600	2600	3820
Stroke (mm)	200	200	200	200	200	200	200
Distance table/ram (mm)	400/350	400/350	400/350	400/350	400/350	400/350	400/350
Gap (mm)	200	300	400	400	400	400	400
Approach speed (mm/s)	150	150	130	130	100	100	100
Working speed* (mm/s)	20	17	15	15	11	11	11
Return speed (mm/s)	190	190	150	150	100	100	100
Motor (kW)	5,5	7,5	11	11	11	11	11
Oil (l)	180	180	225	225	275	275	275

TYPE	170/30	170/42	220/30	220/42	320/30	320/45
Pressing force (kN)	1700	1700	2200	2200	3200	3200
Working length (mm)	3050	4270	3050	4270	3050	4500
Distance between uprights (mm)	2600	3820	2600	3820	2600	3820
Stroke (mm)	200	200	200	200	300	300
Distance table/ram (mm)	400/350	400/350	400/350	400/350	570	570
Gap (mm)	400	400	400	400	400	400
Approach speed (mm/s)	100	100	100	100	120	120
Working speed* (mm/s)	10	10	10	10	11	11
Return speed (mm/s)	100	100	110	110	110	110
Motor (kW)	15	15	18	18	30	30
Oil (l)	325	325	375	375	400	400

TYPE	400/40	400/61	500/40	500/61	640/45	640/61
Pressing force (kN)	4000	4000	5000	5000	6400	6400
Working length (mm)	4000	6100	4000	6100	4500	6100
Distance between uprights (mm)	3150	5050	3150	5050	3760	5050
Stroke (mm)	300	300	300	300	300	300
Distance table/ram (mm)	570	570	570	570	570	570
Gap (mm)	400	400	400	400	400	400
Approach speed (mm/s)	100	100	100	100	90	90
Working speed* (mm/s)	10	10	11	11	9	9
Return speed (mm/s)	100	100	110	110	90	90
Motor (kW)	30	30	37	37	45	45
Oil (l)	500	500	700	700	850	850

* For CE countries, working speed is limited according to safety norm.
Specifications subject to change without notice.

HEADQUARTERS

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JOINT VENTURES

LVD-HD

Hubei Province, China

SUBSIDIARIES

LVD BeNeLux nv

Gullegem, Belgium

LVD do Brasil Ltda.

Joinville, Brazil

LVD GmbH

Lahr, Germany

LVD Italia s.r.l.

Parma, Italy

LVD Korea Ltd.

Inchon City, Korea

LVD-Pullmax Ltd.

Oxfordshire, United Kingdom

LVD Malaysia Sdn Bhd

Shah Alam, Malaysia

LVD Polska Sp. z o.o.

Kedzierzyn-Kozle, Poland

LVD S3 a.s.

Košice, Slovakia

LVD s.a.

Raismes, France

LVD-Pullmax AB

Gothenburg, Sweden

LVD-Strippit India Pvt. Ltd.

Bangalore, India

LVD-Strippit Shanghai Co. Ltd.

Shanghai, China

LVD Thailand Ltd.

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