

## The ADR-Auto Range

- **Machines to meet BS 3892-3, 187, 6073-1, 6717, AS1012-9, DIN 51220, 51223, EN 12390-3, -4, -5, 12504-1, 1354, 1521, 13161, 1338, 772-1, -6, 13286-41**
- **Platen handling machine options available**
- **Alpha-numeric keypad for data entry**
- **Calibration accuracy to BS EN ISO 7500-1; ASTM E4; AFNOR P18-411 Grade 1**
- **Automatic loading cycle**
- **'On-board' memory for 500 test results**
- **Wide range of accessories**

The ADR-Auto Range of machines has been developed to satisfy the requirements for consistent high throughput testing of concrete samples.

These machines are ideally suited for on-site quality control and production laboratories.

The automatic loading cycle is controlled by the closed-loop micro-processor hydraulic system incorporated in the control console supplied with the loading frame.

Operation is straightforward, requiring the operator to depress the 'RUN' key, after selecting sample size and loading rate. Standard data for a wide range of samples i.e. size, type, load rate are programmed into the machine memory.

EL36-4120 series ADR-Auto 2000 Compression Machine



ADR-Auto Control Panel and Display



Available in 1500 kN and 2000 kN capacities the machines accept all standard accessories and flexural frames detailed in Section 37.

All control functions including alpha-numeric keypad and display are built into the hydraulic control console. The micro-processor software provides a series of self-test routines to check the operation of the system. A serial output port is built into the system enabling test data stored in memory to be downloaded to a PC or suitable printer. Windows based download software is supplied as standard on all ELE digital machines.

Test procedures can be selected and displayed in kN, lbf or kgf engineering units.

### Micro-processor Control Specification

Measurement units	kN, lbf or kgf – selectable
Accuracy	Better than $\pm 1\%$ over calibrated range
Display	Backlit LCD 105 x 31 mm (w x h)
Maximum load	Held until reset
Output	Serial RS 232C

## ADR-Auto 1500

- **1560 kN/350 000 lbf capacity**
- **Tests 150 and 100 mm cubes and cylinders up to 320 x 160 mm diameter**
- **Automatic loading**
- **Supplied with Windows download software as standard**

ADR-Auto 1500 supplied complete with safety gates ready for testing 300 x 150 mm diameter cylinders. **When used for cube testing distance pieces of the appropriate size must be ordered separately.**

### Ordering Information

EL36-4100/01  
**ADR-Auto 1500 Compression Machine**  
 For 220 – 240 V AC, 50 Hz, 1 ph

## ADR-Auto 2000 Standard

- **2000 kN capacity**
- **Meets requirements of AS 1012:Part 9**
- **Tests 150 and 100 mm cubes and cylinders up to 320 x 160 mm diameter**
- **Options to test mortar cubes and concrete beams to ASTM C109 and C78**
- **Supplied with Windows download software as standard**

ADR-Auto 2000 supplied complete with safety gates ready for testing 300 x 150 mm diameter cylinders. **When used for cube testing distance pieces of the appropriate size must be ordered separately.**

### Ordering Information

EL36-4120 series  
**ADR-Auto 2000 Standard Compression Machine**  
 EL36-4120/01 for 220 – 240 V AC, 50 Hz, 1 ph  
 EL36-4120/02 for 110 – 120 V AC, 60 Hz, 1 ph

## ADR-Auto 2000 and 3000 EN

- 2000 and 3000 kN capacity
- Platen handling machines include BS 6073-1, EN 772-1 specification rectangular platens.
- BS 3892-3, 187, 6073-1, 6717, AS1012-9, DIN 51220, 51223, EN 12390-3, -4, -5, 12504-1, 1354, 1521, 13161, 1338, 772-1, -6, 13286-41
- Tests 200, 150 and 100 mm cubes and cylinders up to 320 x 160 mm diameter
- Supplied with Windows download software as standard

ADR-Auto 2000 and ADR-Auto 3000 are supplied complete with self-centring lower platen and safety gates fitted with interlock switches ready for testing 300 x 150 mm diameter cylinders. **When used for cube testing, distance pieces (EN) of the appropriate size must be ordered separately.**

### Ordering Information

**EL36-4140/01**

**ADR-Auto 2000 EN Compression Machine**

For 220 – 240 V AC, 50 Hz, 1 ph

**EL36-4150/01**

**ADR-Auto 2000 EN Compression Machine with Platen Handling Assembly**

For 220 – 240 V AC, 50 Hz, 1 ph

**EL36-4160/01**

**ADR-Auto 3000 EN Compression Machine**

For 220 – 240 V AC, 50 Hz, 1 ph

**EL36-4170/01**

**ADR-Auto 3000 EN Compression Machine with Platen Handling Assembly**

For 220 – 240 V AC, 50 Hz, 1 ph



EL36-4140/01 ADR-Auto 2000 EN Compression Machine shown with optional laptop computer

### Accessories for ADR-Auto Range

<b>Rectangular Platen Lifting Assembly</b>	see EL37-4850
<b>Distance Pieces</b>	see section 37
<b>Flexural Frames</b>	see section 37
<b>Printer</b>	see EL37-4859

### Specifications of machines without Platen Handling Assemblies

Machine	ADR-Auto 1500	ADR-Auto 2000 Standard	ADR-Auto 2000 EN	ADR-Auto 3000 EN
Overall dimensions (l x w x h)	480 x 735 x 1050 mm	480 x 765 x 1050 mm	480 x 810 x 1125 mm	630 x 910 x 1255 mm
Max. vertical clearance*	340 mm	340 mm	340 mm	340 mm
Max. horizontal clearance	295 mm	325 mm	355 mm	310 mm
Upper platen dimensions	222 mm diameter	222 mm diameter	300 mm diameter	300 mm diameter
Lower platen dimensions	222 mm diameter	222 mm diameter	220 mm square	220 mm square
Maximum ram travel	50 mm	50 mm	50 mm	50 mm
Rated power	1600 W	1600 W	1600 W	1600 W
Weight	445 kg	860 kg	950 kg	1420 kg

\* Maximum vertical height with rectangular platens in position, see EL37-4841 and EL37-4860