

REBAR CUTTERS

REBAR BENDERS

STRAIGHTENER

CUTTING LINES

DIAMOND

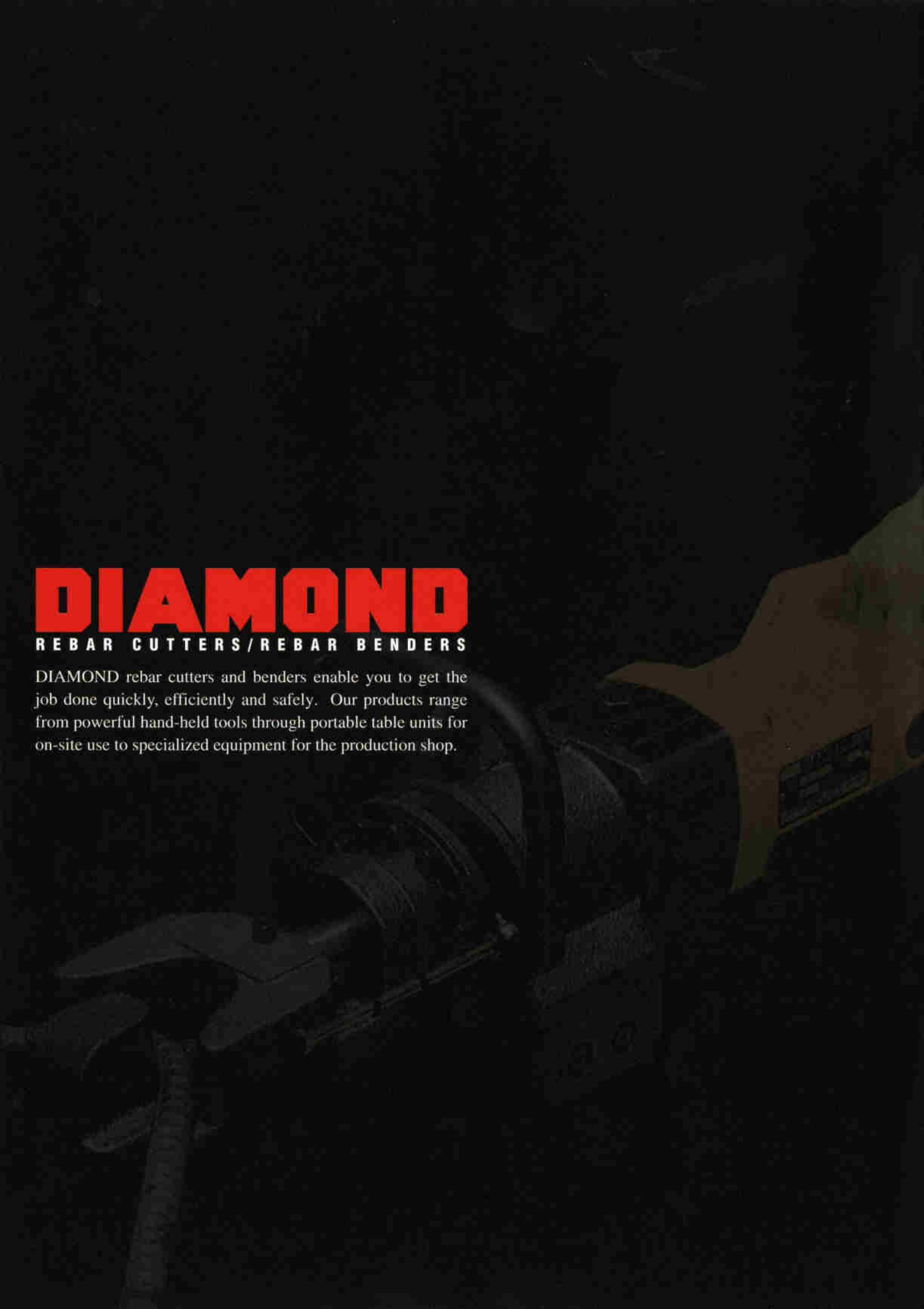
REBAR CUTTERS / REBAR BENDERS

IKK CO., LTD.

DIAMOND

REBAR CUTTERS / REBAR BENDERS

DIAMOND rebar cutters and benders enable you to get the job done quickly, efficiently and safely. Our products range from powerful hand-held tools through portable table units for on-site use to specialized equipment for the production shop.



At the heart of each of our hand-held cutters and benders is the time-proven DIAMOND operating system, which uses electrically driven hydraulics to ensure smooth, powerful and fast results. Since DIAMOND originated this concept in 1972, continuous development has led to higher output, lower weight and even greater toughness and durability.

Our DC series cutters cleanly shear a rebar within a few seconds, are quicker and more economical than disc or abrasive type cutters and, unlike oxyacetylene torches, do not damage the rebar by heat transference. Safety too is improved as there are no sparks or flame and no trailing hoses to snare equipment or workers' feet.

The DBD series portable benders may be run off a small generator and are designed for the ease of operation and quick yet accurate bending necessary for fabrication in the field, while the production shop equipment offers a selection of heavy-duty and automatic models to suit a variety of needs.

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At a glance :  Max. rebar diameter  Weight  Double insulation

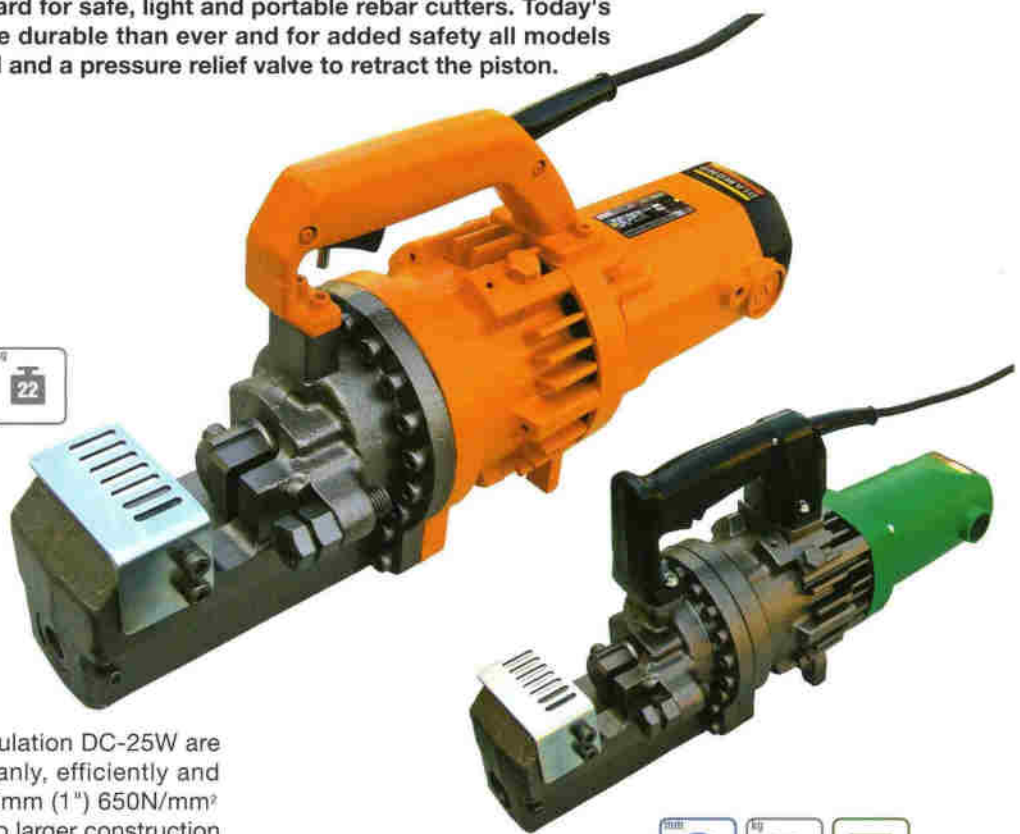


REBAR CUTTERS

Diamond electro-hydraulic rebar cutters—the first and still the best

Ever since introducing the world's first electro-hydraulic tools in 1972, Diamond has set the standard for safe, light and portable rebar cutters. Today's line-up is tougher and more durable than ever and for added safety all models now feature a cutting guard and a pressure relief valve to retract the piston.

DC-25X



The DC-25X and double-insulation DC-25W are heavy-duty cutters that cleanly, efficiently and safely shear rebars up to 25mm (1") 650N/mm² tensile strength. Well suited to larger construction jobs and even small fabrication shops.

DC-25W



DC-20WH



DC-20W



The DC-20 cutters are very popular, heavy-duty tools for general use. Whichever you choose, the basic DC-20WH, the double-insulation DC-20HL or the lighter, side-handled DC-20W, you can rely on its 15 tons of pressure to cut a 20mm (3/4") 650N/mm² tensile strength rebar in 3~4 seconds. All three models have newly developed balanced armatures and specially hardened pistons for long life.

DC-20HL



SPECIFICATIONS

| Model | DC-25X | DC-25W | DC-20WH | DC-20W | DC-20HL |
|----------------------|--|-------------|-------------|-------------|-------------|
| Max.rebar diameter | 25mm (1") | | 20mm (3/4") | | |
| Cutting speed | 5 sec. | 4 sec. | 3 sec. | | 4 sec. |
| Max.tensile strength | 650 N/mm ² | | | | |
| Power supply | Single phase mains electricity / Generator | | | | |
| Voltage | 100V/115V/230V | | | | |
| Power Input | 1330W | 2000W | 1050W | 2500W | 1050W |
| Weight | 22.5kg | 22.0kg | 11.5kg | 10.5kg | 11.5kg |
| Dimensions (mm) | 515×150×250 | 525×145×250 | 410×110×210 | 500×150×135 | 395×112×220 |



DC-16W



Our biggest seller, the DC-16W is a compact but rugged, professional grade cutter for rebars of up to 16mm (5/8") 650N/mm² tensile strength.

DC-13LV



It may be a lightweight (just 6kg) but the DC-13LV packs a heavyweight punch, taking only 1½ seconds to sever a 13mm (½") 650N/mm² tensile strength rebar.



SPECIFICATIONS

| Model | DC-16W | DC-13LV | DC-16LZ |
|----------------------|--|-------------|-----------------------|
| Max.rebar diameter | 16mm (5/8") | 13mm (1/2") | 16mm (5/8") |
| Cutting speed | 2.5 sec. | 1.5 sec. | 2 sec. |
| Max.tensile strength | 650 N/mm ² | | 490 N/mm ² |
| Power supply | Single phase mains electricity / Generator | | |
| Voltage | 100V/115V/230V | | |
| Power Input | 1050W | 1020W | 1020W |
| Weight | 8kg | 6.0kg | 6.8kg |
| Dimensions (mm) | 460×270×115 | 380×220×105 | 380×175×105 |

DC-16LZ



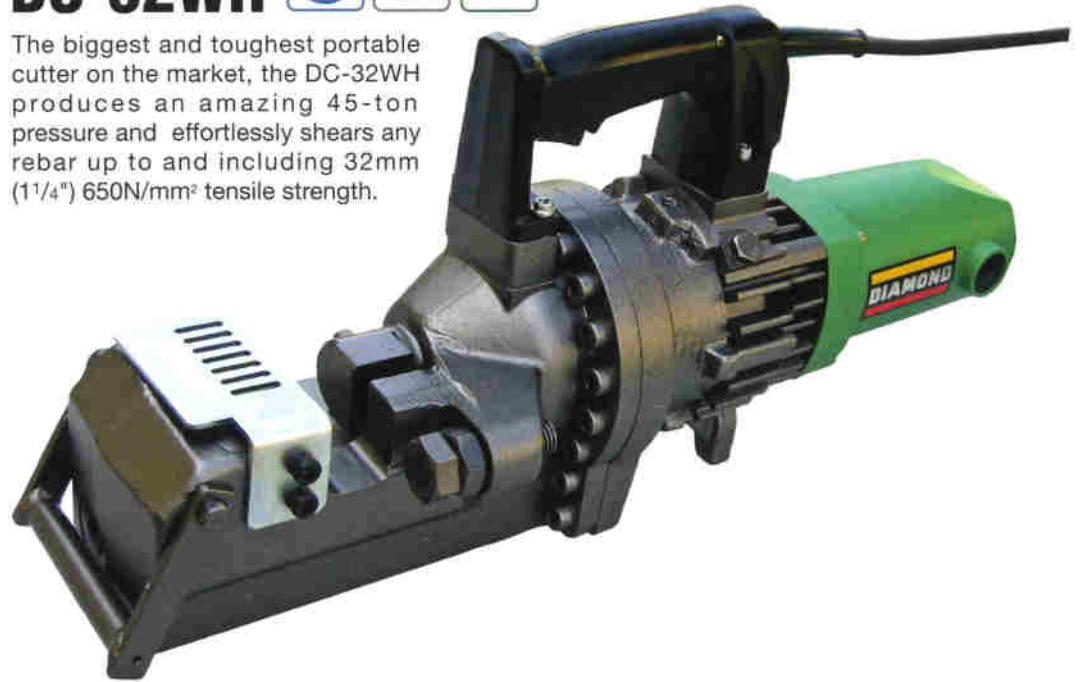
A medium-duty cutter, the DC-16LZ is an excellent choice for the light user as its small cutting head will fit into tight spots.



DC-32WH



The biggest and toughest portable cutter on the market, the DC-32WH produces an amazing 45-ton pressure and effortlessly shears any rebar up to and including 32mm (1 1/4") 650N/mm² tensile strength.



SPECIFICATIONS

| Model | DC-32WH | DCC-1618 | DCC-1314 |
|----------------------|-----------------------|-----------------------|-----------------|
| Max.rebar diameter | 32mm (1 1/4") | 16mm (5/8") | 13mm (1/2") |
| Cutting speed | 12 sec. | 5 sec. | 4.5 sec. |
| Max.tensile strength | 650 N/mm ² | 490 N/mm ² | |
| Power supply | ※1 | Battery charger | |
| Voltage | 100V/115V/230V | DC18V Battery | DC14.4V Battery |
| Power Input | 2000W | 3.0 Ah | |
| Weight | 35.8kg | 7.3 kg | 4.5 kg |
| Dimensions (mm) | 591 × 180 × 272 | 460 × 98 × 240 | 300 × 85 × 250 |

※1: Single phase mains electricity / Generator



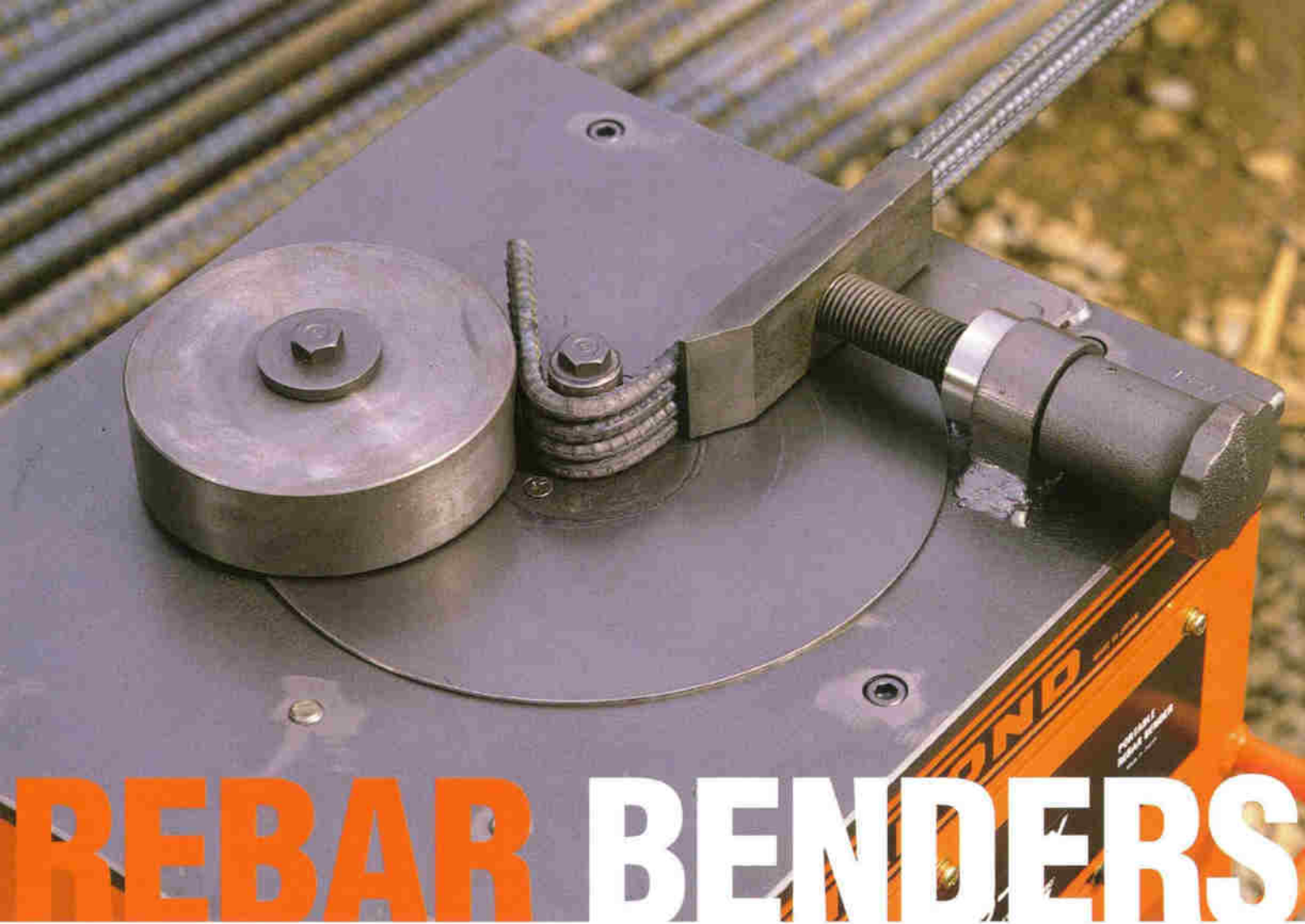
DCC-1314



DCC-1618



The DCC-1618 and its smaller brother, the 4.5kg DCC-1314, are cordless cutters with heads that rotate through 345° for use in truly awkward locations. Handling rebars of up to 16mm (5/8") and 13mm (1/2") 490N/mm² tensile strength respectively, they are equally suitable for mesh and bolts and, since they do not produce sparks or generate heat, they are particularly effective in rescue operations. No need to worry about battery performance: up to 150 cuts with 13mm (1/2") rebars (used on 16mm (5/8") rebars, the DCC-1618 makes up to 100 cuts per charge).



Portable table-type and hand-held benders for on-site work

DBD series benders are fast, accurate and easy to use: just set the bending angle and press the button.

DBD-25H

Our latest table-type bender is a heavy-duty model for rebars of up to 25mm (1") 620N/mm² tensile strength. It comes fully equipped with a set of nine bending rollers in a steel carrying case. Although intended primarily for on-site work, it is eminently suitable for the production shop.



DBD-25X 25 86



DBD-25L 25 61



Both the DBD-25X and the smaller, lighter DBD-25L are prized field models because of their proven durability and ability to bend 25mm (1") 450N/mm² tensile strength rebars. For rebars of up to 20mm (3/4"), the DBD-19L is similarly treasured. Optional foot control, stand and bender covers are available for all three models.



DBD-19L 20 40

SPECIFICATIONS

| Model | DBD-25H | DBD-25X | DBD-25L | DBD-19L | DBD-16L |
|--------------------|--|----------------------|----------------------|-------------|---------------|
| Max.rebar diameter | | 25mm (1") | | 20mm (3/4") | 16mm (5/8") |
| Bending speed | 9 sec. | 6 sec /180° | 7 sec /180° | 5 sec /180° | 1.5 sec /180° |
| | 620N/mm ² | 560N/mm ² | 490N/mm ² | | |
| Bending angle | Up to 180° | | | | |
| Power supply | Single phase mains electricity / Generator | | | | |
| Voltage | 100V/115V/230V | | | | |
| Power Input | 1500W | 1330W | 1700W | 1050W | |
| Weight | 97 kg | 86 kg | 61 kg | 40.8 kg | 20 kg |
| Dimensions (mm) | 540×580×440 | 490×550×440 | 462×320×415 | 320×425×415 | 320×350×245 |

Optional attachments: stand, footswitch



DBD-16L 16 20

This small unit may be carried in one hand but has all the attributes of its bigger brethren and can make a 180° bend in a 16mm (5/8") rebar in just 1.5 seconds.



HANDY BENDER

HB-16W



A hand-held bender for use where table-type units cannot go. An optional bending die and shoe cover are available for larger radius bends.



Optional bending die and shoe cover



SPECIFICATIONS

| Model | HB-16W | DBR-32WH |
|----------------------|--|-----------------|
| Max.rebar diameter | 16mm (5/8") | 32mm (1 1/4") |
| Bending speed | 9 sec /135° | 4 sec /90° |
| Max.tensile strength | 490N/mm ² | |
| Bending angle | Up to 135° | Up to 140° |
| Power supply | Single phase mains electricity / Generator | |
| Voltage | 100V/115V/230V | |
| Power Input | 1050W | |
| Weight | 15 kg | 26 kg |
| Dimensions (mm) | 585 × 195 × 205 | 660 × 270 × 200 |

REBAR STRAIGHTENER

DBR-32WH



A dual-purpose tool that cleanly straightens bent rebars and functions as a simple bender. Accepts any 490N/mm² tensile strength rebar up to 32mm (1 1/4").

| Rebar diameter | Straightening capacity | | Bending capacity | |
|----------------|------------------------|------------|------------------|-----------|
| | Push | Pull | Push | Pull |
| 13mm (1/2") | up to 125° | up to 121° | up to 94° | up to 92° |
| 16mm (5/8") | 128° | 124° | 90° | 90° |
| 20mm (3/4") | 130° | 126° | 90° | 90° |
| 25mm (1") | 132° | 124° | 90° | 90° |
| 29mm (1 1/8") | 140° | 135° | 90° | 90° |
| 32mm (1 1/4") | 144° | 138° | 90° | 90° |



Optional bending hook



Pull

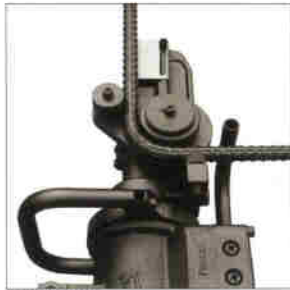


Push



Push

REBAR BENDER/CUTTERS



Bending 90°



Bending 180°



DBC-16H



Cutting

This convenient, heavy-duty appliance for rebars of up to 16mm (5/8") 620N/mm² tensile strength enables you to cut and bend up to 180° wherever the need arises. The operating mode is selected simply by turning a lever.

SPECIFICATIONS

| Model | DBC-16H | DBC-25X |
|----------------------|--|----------------------|
| Max.rebar diameter | 16mm (5/8") | 25mm (1") |
| Bending speed | 5.5 sec | 6 sec |
| Max.tensile strength | 620N/mm ² | 560N/mm ² |
| Bending angle | Up to 180° | |
| Cutting speed | 2.5 sec | 5 sec. |
| Power supply | Single phase mains electricity / Generator | |
| Voltage | 100V/115V/230V | |
| Power Input | 1050W | B.1330W C.1330W |
| Weight | 17 kg | 129 kg |
| Dimensions (mm) | 645×165×230 | 700×680×440 |



DBC-25X



A great package that combines bender and cutter in one compact unit. For rebars up to 25mm, 560N/mm² tensile strength.



AUTOMATIC CUTTING LINES & BENDERS

LS-120BA, LS-180BA, LS-200BA



LS-180BA

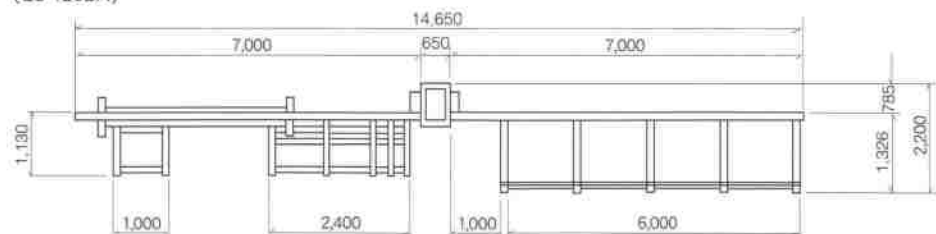
Our semi-automatic cutting lines speed up production and eliminate physical effort. Combined with the 5LH-52 Cutter, they load, cut and stack rebars. The controls are clear and simple and an easy-to-read digital indicator ensures the length is always precisely set.

Cutting lines are of modular design. Shorter or longer systems as well as lines without the cutter can, of course, be supplied upon request.



5LH-52

(LS-120BA)



SPECIFICATIONS

| Model | LS-120BA | LS-180BA | LS-200BA |
|-----------------------|----------|----------------------|----------|
| Width of conveyor | | 120mm | |
| Cutter | 5L-52 | 5LH-52 | 5S-52 |
| Max. rebar diameter | | 38mm | |
| Max. tensile strength | | 550N/mm ² | |
| Rebar capacity | 25mm | 3 bars | 6 bars |
| | 32mm | 1 bar | 3 bars |
| | 38mm | 1 bar | 2 bars |

The DAB series of fully automatic, multi-head benders are the ultimate in production efficiency. Operation cannot be easier: choose one of the pre-set hoop/stirrup patterns, set the side lengths and press the footswitch. Features include a motor-driven stock loader and a pneumatic clamp to secure the rebars during the bending process. The series includes two, three and five head models for 16mm and 25mm rebars. A 5-head and a 3-head model are shown here.



DAB-16-5NC (5-head)

SPECIFICATIONS

| | | |
|-----------------------|---|--------|
| Model | DAB-16-5NC | |
| Max. rebar diameter | 16mm(5/8") | |
| Max. tensile strength | 450N/mm ² | |
| Rebar capacity | 10mm | 7 bars |
| | 13mm | 5 bars |
| | 16mm | 2 bars |
| Power supply | Three phase mains electricity / Generator | |
| Power Input | 6.5 kw | |
| Weight | 3200 kg | |
| Dimensions (mm) | 7410×1900×1300 | |

Typical patterns & sizes (10mm rebar)

| | Min. | Max. (mm) |
|-------|---------------|-----------------|
| PTN 1 | 250 2000 | 1200 2000 |
| PTN 2 | 250 4500 | 1000 4500 |
| PTN 3 | 250 2000 | 1200 2000 |
| PTN 4 | 450 510 3200 | 3200 3200 |
| PTN 5 | 950 6500 | 6500 |
| PTN 6 | 250 260 2750 | 2750 2750 |
| PTN 7 | 250 260 2700 | 2000 1200 2700 |



DAB-25-3 (3-head)

SPECIFICATIONS

| | | |
|-----------------------|---|--------|
| Model | DAB-25-3 | |
| Max. rebar diameter | 25mm(1") | |
| Max. tensile strength | 450N/mm ² | |
| Rebar capacity | 10mm | 9 bars |
| | 13mm | 7 bars |
| | 16mm | 5 bars |
| | 20mm | 2 bars |
| | 22mm | 1 bar |
| | 25mm | 1 bar |
| Power supply | Three phase mains electricity / Generator | |
| Power Input | 7.2 kw | |
| Weight | 3300 kg | |
| Dimensions (mm) | 9400×1920×1200 | |

Typical patterns & sizes (10mm rebar)

| | Min. | Max. (mm) |
|-------|--------------------|-----------------|
| PTN 1 | 110 800 1100 1000 | 900 1000 1000 |
| PTN 2 | 110 400 1000 | 800 1000 1000 |
| PTN 3 | 400 400 2000 | 2000 2000 |
| PTN 4 | 900 1500 | 1500 |
| PTN 5 | 400 3500 | 3500 |
| PTN 6 | 110 400 1000 | 110 1000 1000 |
| PTN 7 | 400 400 1000 | 1200 1000 1000 |