

*MECHANICAL SECTIONS  
TRAINING EQUIPMENT*



*MADE IN ITALY*



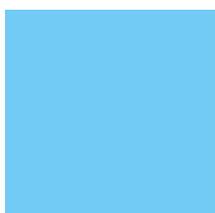
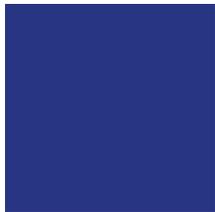
## HYDRAULIC FLUIDS, ELECTRIC MOTORS AND REDUCERS

### ELECTRIC MOTORS/REDUCERS AND HYDRAULIC FLUIDS COMPONENTS - CUTAWAY . . . . .186 - 190

- Motors . . . . .
- Reducers . . . . .
- Koyo ball bearing . . . . .
- Hydraulic motors . . . . .
- Hydraulic distributors . . . . .
- Cylinders . . . . .



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**Hydraulic Fluids,  
Electric Motors and Reducers**

**VB 13088 THREE-PHASE SELF-BRAKING ELECTRIC MOTOR (on base) - manual**

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**VB 13089 SINGLE-PHASE ELECTRIC MOTOR (on base) - manual**

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**VB 13090 THREE-PHASE ELECTRIC MOTOR (on base) - manual**

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**VB 13088**

**Approx. weight and dim.:**

*Cm:* 38x20x25h  
*Net Weight:* kg 10  
*Gross Weight:* kg 16

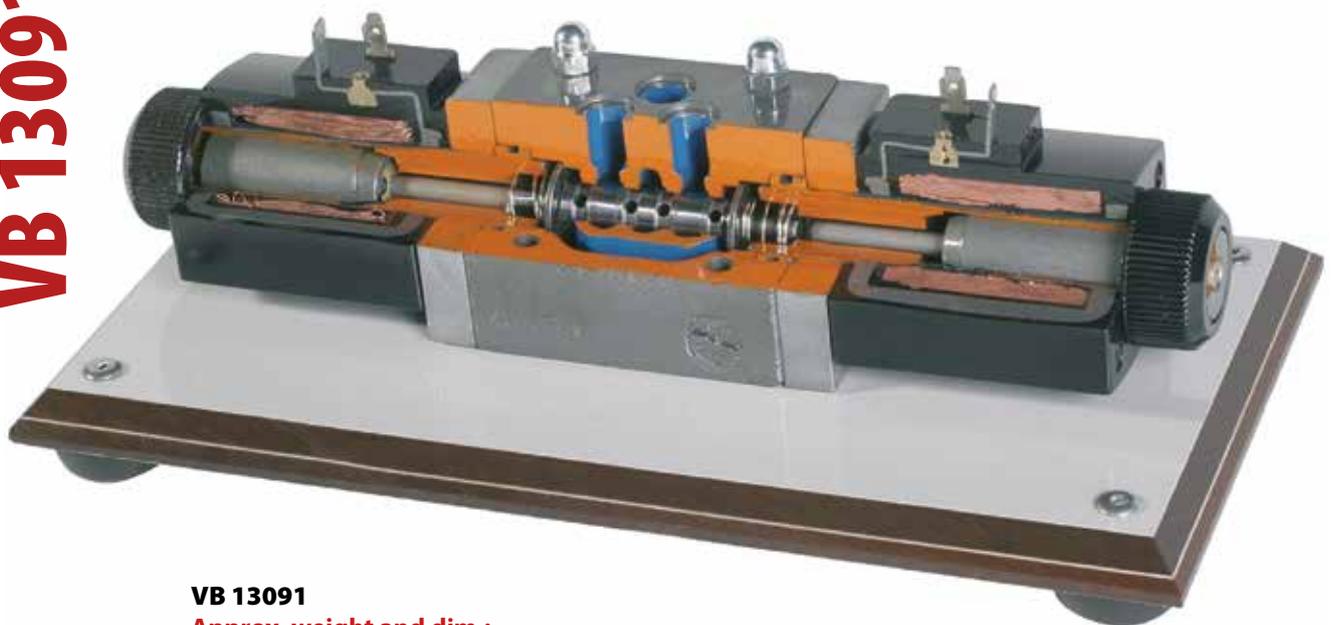
**VB 13089 - VB13090**

**Approx. weight and dim.:**

*Cm:* 30x30x25h  
*Net Weight:* kg 9  
*Gross Weight:* kg 15

**VB 13091 ELECTROVALVE (on base) - static**

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**VB 13091**

**Approx. weight and dim.:**

*Cm:* 25x15x10h  
*Net Weight:* kg 2  
*Gross Weight:* kg 4

**VB 13092 ANGLE REDUCER (on base) - manual**

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**VB 13093 RIGHT ANGLE REDUCER (on base) - manual**

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**VB 13094 WORM GEAR REDUCER (on base) - manual**

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**VB 13095 WORM GEAR REDUCER WITH PRE-STAGE GEAR (on base) - manual**

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**VB 13092**

**Approx. weight and dim.:**

*Cm:* 20x20x16h  
*Net Weight:* kg 5  
*Gross Weight:* kg 7

**VB 13093**

**Approx. weight and dim.:**

*Cm:* 20x20x15h  
*Net Weight:* kg 2  
*Gross Weight:* kg 3

**VB 13094**

**Approx. weight and dim.:**

*Cm:* 20x20x20h  
*Net Weight:* kg 5  
*Gross Weight:* kg 7

**VB 13095**

**Approx. weight and dim.:**

*Cm:* 20x20x20h  
*Net Weight:* kg 4  
*Gross Weight:* kg 6

**VB 13096 SINGLE-STAGE REDUCER (on base) - manual**

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**VB 13097 REDUCER WITH SPEED CONVERTER (on base) - manual**

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**VB 13098 CO-AXIAL REDUCER (on base) - manual**

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**VB 13096**

**Approx. weight and dim.:**

*Cm:* 30x30x30h  
*Net Weight:* kg 9  
*Gross Weight:* kg 15

**VB 13097**

**Approx. weight and dim.:**

*Cm:* 24x20x20h  
*Net Weight:* kg 5  
*Gross Weight:* kg 7

**VB 13098**

**Approx. weight and dim.:**

*Cm:* 30x30x25h  
*Net Weight:* kg 15  
*Gross Weight:* kg 21

**VB 13096 - VB 13097 - VB 13098 VB 13092 - VB 13093 - VB 13094 - VB 13095**

**VB 13099 EPYCLICLOYD COAXIAL REDUCER (on base) - manual**

**VB 13100 COMBINED WORM GEAR REDUCER (on base) - manual**



**VB 13099**

**Approx. weight and dim.:**

Cm: 38x20x16h  
 Net Weight: kg 8  
 Gross Weight: kg 14

**VB 13100**

**Approx. weight and dim.:**

Cm: 38x20x16h  
 Net Weight: kg 7  
 Gross Weight: kg 12

**VB 13101 HYDRAULIC GEAR ENGINE (on base) - manual**

**VB 13102 ORBITAL HYDRAULIC MOTOR (on base) - manual**

**VB 13103 VARIABLE CAPACITY HYDRAULIC PUMP (on base) - manual**



**VB 13102**

**VB 13103**

**VB 13101**

**VB 13101**

**Approx. weight and dim.:**

Cm: 20x20x14h  
 Net Weight: kg 3  
 Gross Weight: kg 4

**VB 13102**

**Approx. weight and dim.:**

Cm: 20x20x25h  
 Net Weight: kg 8  
 Gross Weight: kg 14

**VB 13103**

**Approx. weight and dim.:**

Cm: 20x20x28h  
 Net Weight: kg 7  
 Gross Weight: kg 12

## VB 13110 BEVEL HELICAL REDUCER (on base) - manual



### VB 13110

#### Approx. weight and dim.:

Cm: 25x20x20h

Net Weight: kg 5

Gross Weight: kg 8

## VB 13111 KOYO BALL BEARING (on base) - static



### VB 13111

#### Approx. weight and dim.:

Cm: 25x20x20h

Net Weight: kg 4

Gross Weight: kg 6

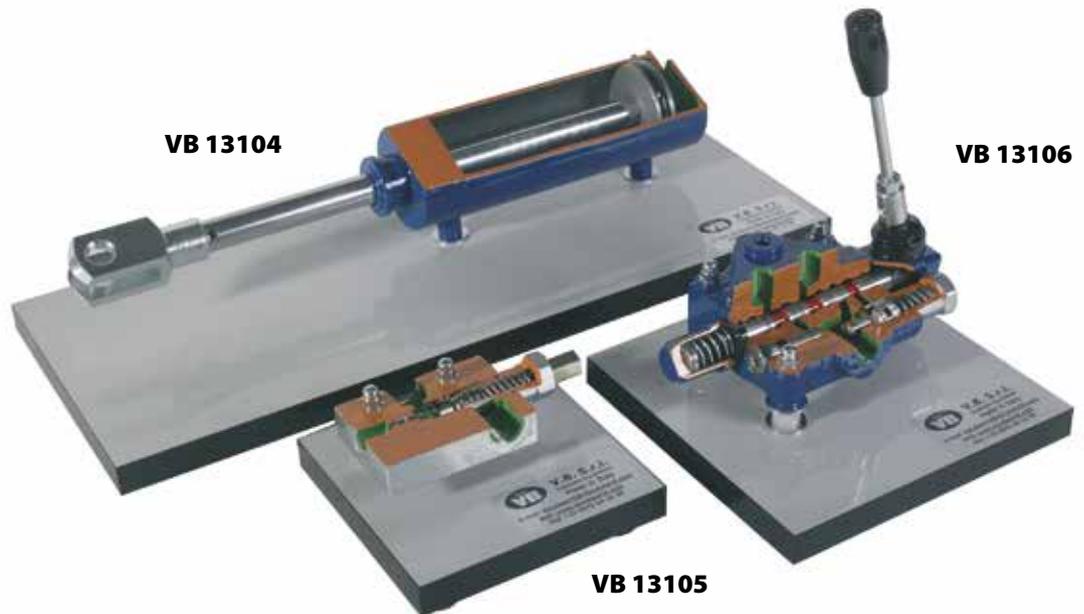
VB 13110

VB 13111

**VB 13104 SIMPLE EFFECT PISTON (on base) - manual**

**VB 13105 PRESSURE REGULATOR VALVE (on base) - static**

**VB 13106 SIMPLE EFFECT DISTRIBUTOR WITH PRESSURE VALVE (on base) - manual**



**VB 13104**

**Approx. weight and dim.:**

Cm: 50x20x14h  
 Net Weight: kg 3  
 Gross Weight: kg 4

**VB 13105**

**Approx. weight and dim.:**

Cm: 15x15x10h  
 Net Weight: kg 1  
 Gross Weight: kg 1,5

**VB 13106**

**Approx. weight and dim.:**

Cm: 20x20x28h  
 Net Weight: kg 1  
 Gross Weight: kg 1,5

**VB 13107 DOUBLE EFFECT HYDRAULIC CYLINDER (on base) - manual**

**VB 13108 TELESCOPIC HYDRAULIC CYLINDER with hydraulic jack (on base) - static**

**VB 13109 SIMPLE EFFECT HYDRAULIC CYLINDER (on base) - manual**

**VB 13107**

**Approx. weight and dim.:**

Cm: 12x40x15h  
 Net Weight: kg 3  
 Gross Weight: kg 6

**VB 13108**

**Approx. weight and dim.:**

Cm: 40x20x15h  
 Net Weight: kg 5  
 Gross Weight: kg 9

**VB 13109**

**Approx. weight and dim.:**

Cm: 12x40x15h  
 Net Weight: kg 4  
 Gross Weight: kg 7



## GENERAL SALES CONDITIONS

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### ORDERS

Orders are valid and binding for VB only after the receipt of written confirmation by the Customer, within 48 hours after verbal order. Order must be complete with the description of all elements, and, when necessary, with drawings to define them in a complete and unequivocal way. Any wrong interpretation or imperfection of the a.m. elements caused by an unclear order, shall give no right to any replacement, refund or discount whatsoever.

### MATERIALS

The samples shown are indicative only and they are not binding, considering the normal variation of the kinds of materials available on the market. All materials used, even first choice ones, are to be intended as commercial standard quality. As for painted materials, a retouch is to be considered as normal.

### PRICES

Pricelist agreed further to changes, are to be intended in € (Euro) and net of any discount; if not otherwise specified prices are considered for goods EXW our facilities.

### DELIVERY TERMS

The delivery terms run from the date of receipt of the order complete with the description of all necessary elements; they can be extended due to Force Majeure reasons, including lack of raw materials, energy supply, or because of mechanical breakdowns, lack of labour due to strikes, diseases, etc. If the delay is longer than 90 days, this gives right to the termination of the contract, but gives no right to any indemnity whatsoever.

### SHIPMENT

Goods are shipped at the Buyer's risk even if sold free destination.

In case of shipment by truck, VB declines any liability for possible damages to third parties or things which may be attributed to the carrier.

### PACKAGE

Returns of packaging are not accepted. If otherwise agreed, their return is to be intended free of charge or reimbursed at cost.

### COMMISSIONING

Commissioning assistance is excluded, except when expressly agreed in writing: in this case all expenses are at the Buyer's charge.

### PAYMENT

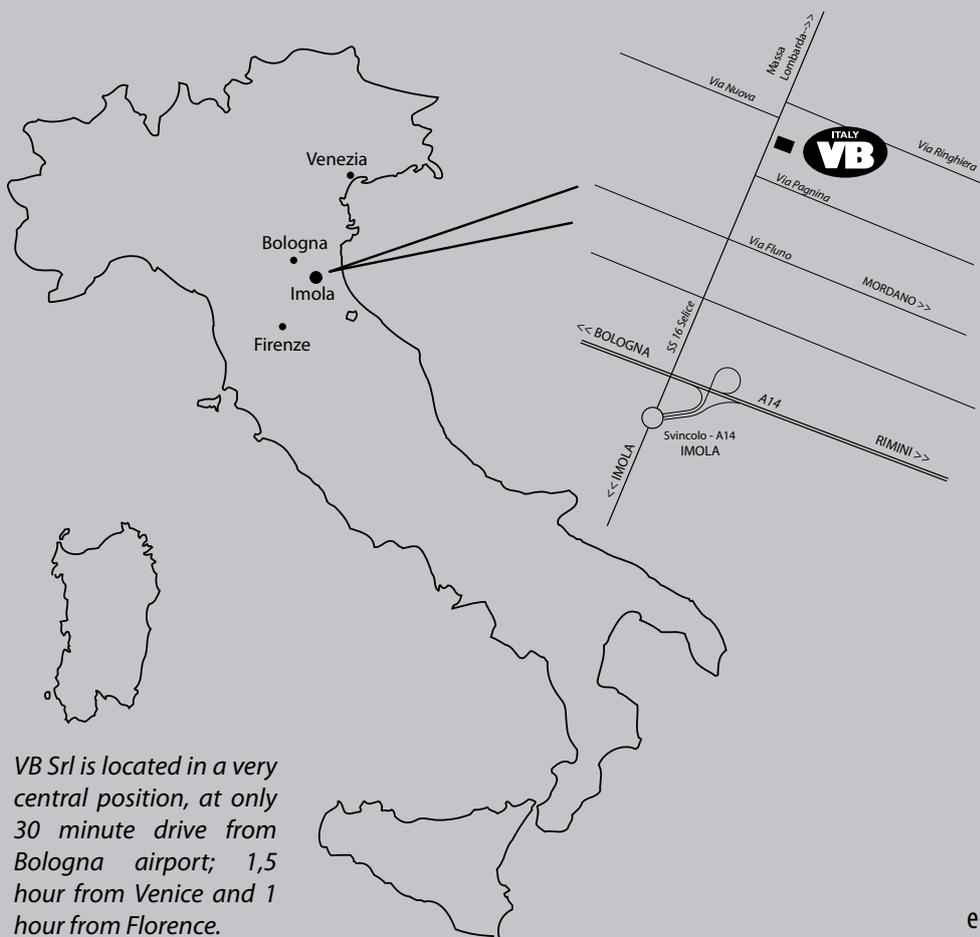
If not otherwise agreed, payments must be made at our offices in Mordano within the fixed terms. The non-payment on maturity, even if only partial, gives right to draw on the debtor, at the debtor's change, plus 20% yearly interest; furthermore it gives right to VB to suspend or cancel every supply on hand or to require the payment in advance. All suppliers are to be intended regulated by the conditional sale agreement till complete payment. VB shall be at same owner of the goods supplied and, in case of non-payment, even if partial, VB shall withdraw all supplies, and also keep the accounts already paid by the customer as partial cover. The invoice, even if formally received, does not involve the extinction of any obligation, in case it is covered by drafts or others.

### CLAIMS

All claims must be done in writing by registered letter within 8 days from receipt of the goods. VB, if the claim is well founded, shall provide for the replacement of the pieces; any refund is excluded.

### JURISDICTION

Any judicial dispute shall fall within the cognizance of Imola or Bologna Law-Court. VB has the right to previously submit the dispute to a Board of three Arbitrators, one to be appointed by VB, one by the Customer and the third by both of them or by the lower Court judge of Imola; in case of disagreement the above mentioned Board shall deliver a final Judgement.



*VB Srl is located in a very central position, at only 30 minute drive from Bologna airport; 1,5 hour from Venice and 1 hour from Florence.*

## **VB s.r.l.**

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