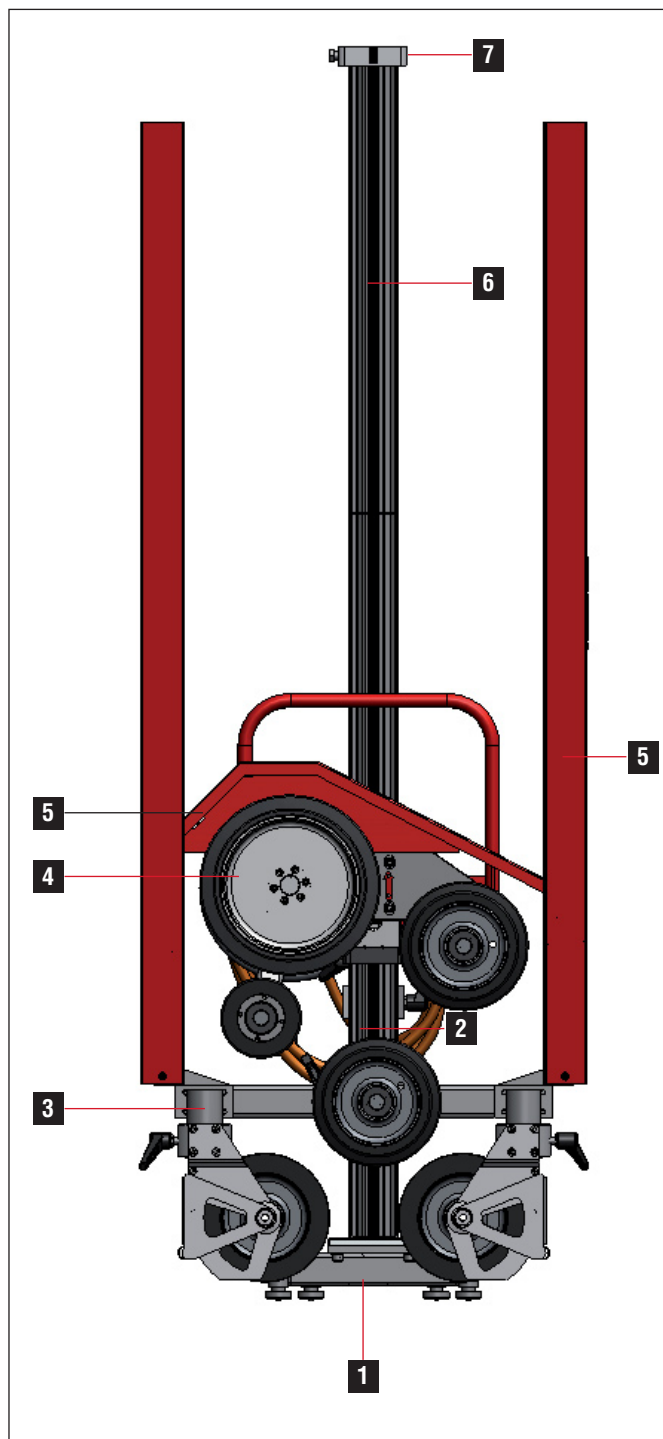


## 2. Description

### 2.1 Use of the equipment as directed

- The DS-WS10(-E) wire saw has been designed for the technical demolition of steel, concrete, stone or brickwork structures in construction and civil engineering applications. Use of the saw for other applications is considered to be “not as directed” and requires prior approval by the manufacturer.
- The operator in charge must be aware of the possible dangers and of his responsibility for safety, both with regard to himself and to others. The operator is responsible for securing the danger area by cordoning the area off and installing the appropriate protective equipment.
- The wire saw is designed for a maximum cutting length of 2 meters. The maximum distance between the pivoting pulleys at the machine and the wire entry or exit point must not exceed 3.5 meters.
- The wire saw may be operated only by specialists trained in concrete cutting techniques, referred to in the following as “operators”. These persons must be familiar with the content of these operating instructions and must have been trained in their safe application by a Hilti specialist.
- National regulations and legislation as well as the information in the operating instructions and safety precautions concerning the saw and its accessories (sawing wire, fastening accessories, lifting equipment, compressor, hydraulic power unit etc.) must be observed.
- Do not use the saw to cut loose objects or objects held against the wire by hand.
- Use of the wire saw or its components for purposes other than wire sawing is prohibited, i.e. use as a transport or conveyance device is not permissible.
- The machine is suitable for wet and dry cutting. A vacuum dust removal system must be used when dry wire sawing. Special dust removal hoods are available on request.
- The equipment may be lifted by crane only at the lifting points provided.
- Do not cut materials which, as a result of the cutting process, may produce toxic, hazardous or explosive dust or vapors.
- Do not cut easily combustible aluminum or magnesium alloys.

### 2.2 Components

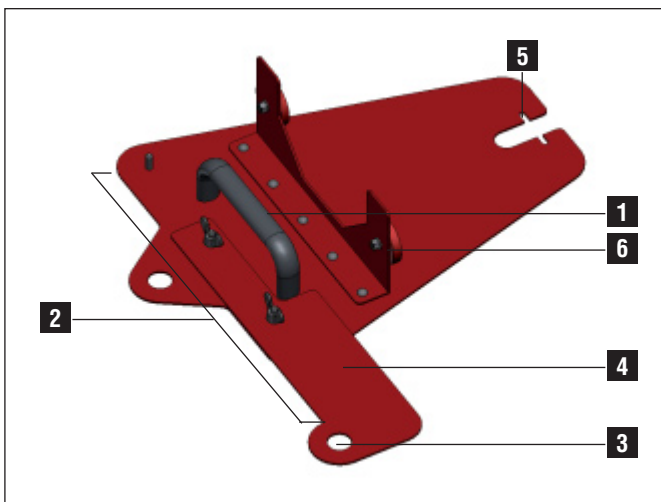


- 1 Base plate
- 2 Guide rail and advance unit
- 3 Pivoting pulley crossbar
- 4 Hydraulic drive unit (DS WS10) or electric drive unit (DS WS10-E)
- 5 Guard
- 6 Wire storage extension
- 7 End stop

### 2.3 Operating controls and parts

#### Positioning template

- 1** Grip
- 2** Edge indicating line of cut
- 3** Wire entry point
- 4** Pivotal drilling point indicator
- 5** Optimum anchor position
- 6** Retaining magnet for attachment to base plate

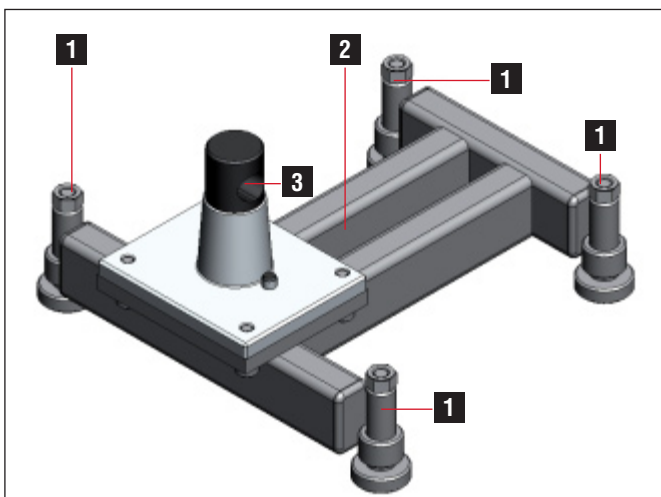


#### NOTE

The drilling point indicator can be pivoted between the positions of the through holes for the tension and slack sides of the wire.

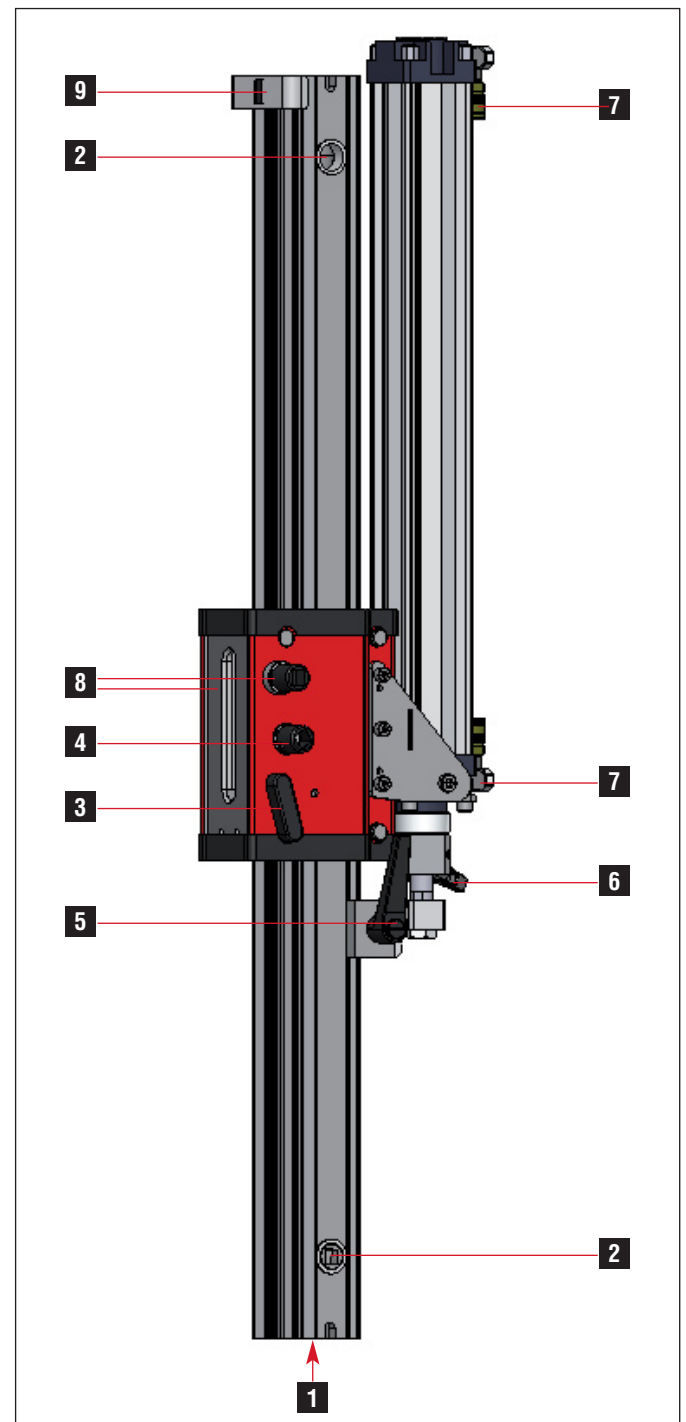
#### Base plate

- 1** Leveling screws
- 2** Anchor slot
- 3** Connecting taper



#### Guide rail and advance unit

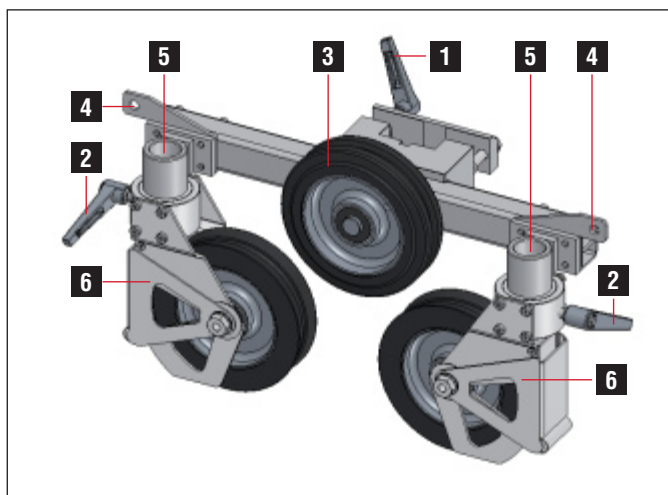
- 1** Internal taper
- 2** Eccentric pin
- 3** Carriage locking mechanism
- 4** Manual advance mechanism
- 5** Piston rod securing clamp
- 6** Return lock
- 7** Compressed air connection
- 8** Drive unit interface and locking mechanism
- 9** End stop



## 2. Description

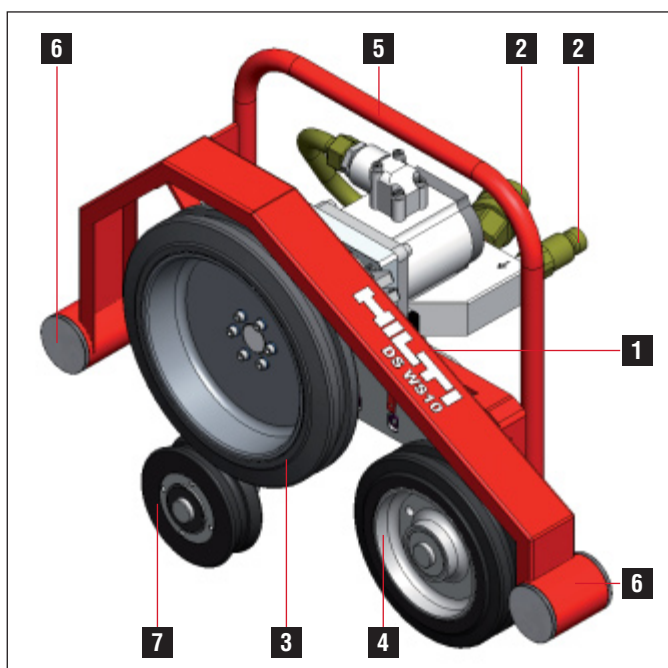
### Pivoting pulley crossbar

- 1 Attachment point and clamp
- 2 Pivoting pulley locking lever
- 3 Wire storage pulley
- 4 Guard mounting hole
- 5 Hollow axles
- 6 Guard



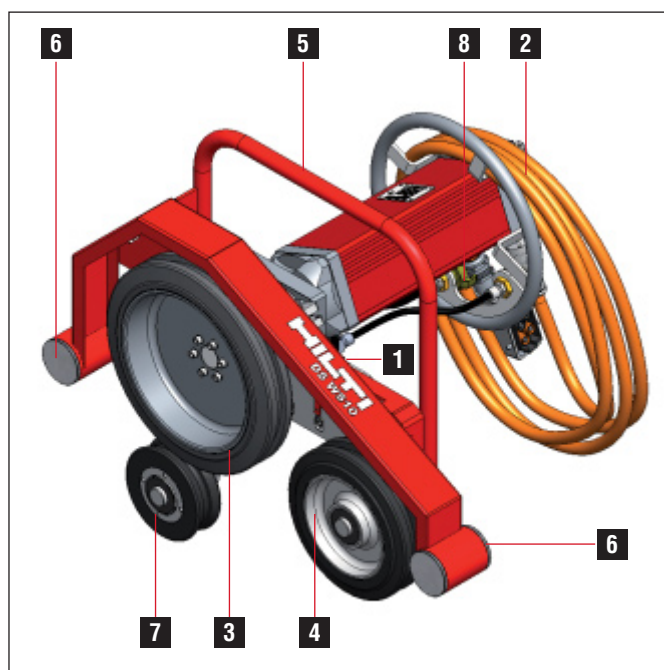
### DS WS10 hydraulic drive unit

- 1 Mounting interface
- 2 Hydraulic connection
- 3 Drive pulley
- 4 Return pulley
- 5 Carrying / holding bar
- 6 Guard guides
- 7 Traction pulley



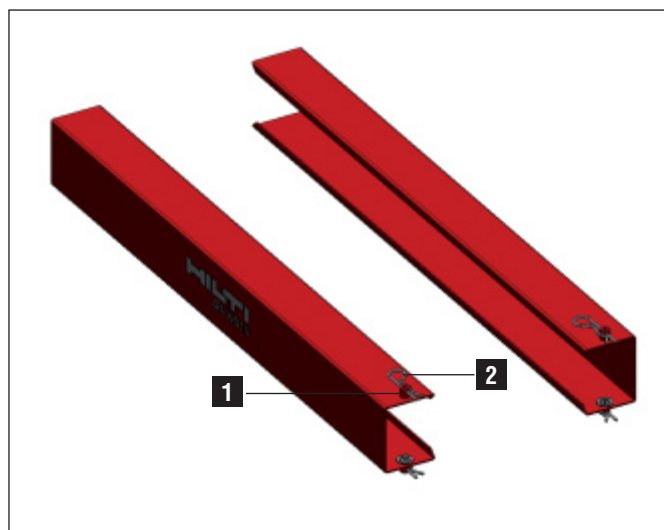
### DS WS10-E electric drive unit

- 1 Mounting interface
- 2 Power cable
- 3 Drive pulley
- 4 Return pulley
- 5 Carrying / holding bar
- 6 Guard guides
- 7 Traction pulley
- 8 Cooling water connection – feed/return



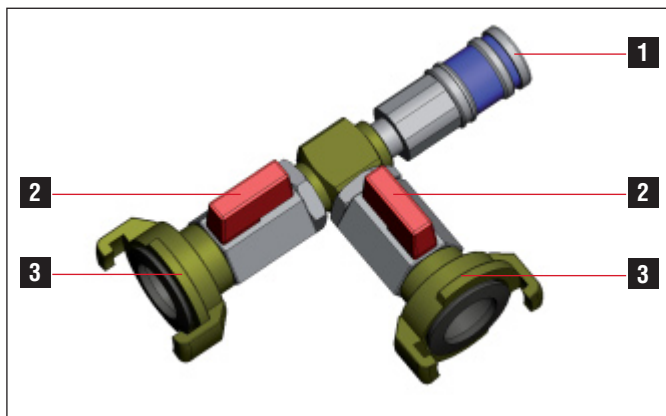
### Guards

- 1 Guard mounting pin
- 2 Spring pin



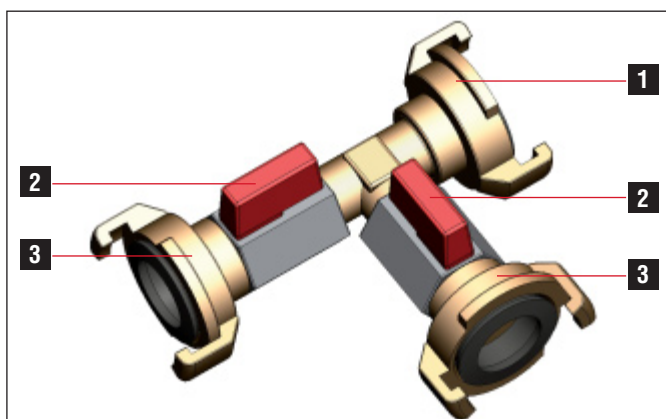
### DS WS10 water connection

- 1 Coupling (water outlet from hydraulic unit)
- 2 Flow regulation and shut-off valve
- 3 Water hose connection (cooling water nozzles)



### DS WS10-E water connection

- 1 Coupling (water outlet from motor cooling circuit)
- 2 Flow regulation and shut-off valve
- 3 Water hose connection (cooling water nozzles)



### DS WS10 pneumatic system control unit

- 1 Advance direction control valve
- 2 Regulator for advance pressure adjustment (wire tension)
- 3 Advance pressure indicator
- 4 Securing band
- 5 Safety and operating instructions
- 6 Compressed air supply connection
- 7 Advance cylinder connection
- 8 Air compressor

