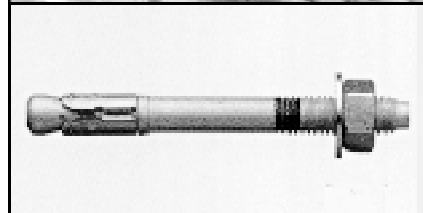


Strengthening system from Hilti

Hilti, a Swiss multinational company with a group turnover of over US\$ 3.2 billion, has various products in its product line for seismic retrofitting. Hilti operates in over 120 countries around the world. The following applications are generally used for seismic retrofitting.

Strengthening of structures

Hilti Chemical anchors like HY-150 and HY-50 can be used for rebar fastening in concrete and brickwork, respectively. Hilti has mechanical anchors like HSL and HDA for fixing of steel plates for strengthening purpose.



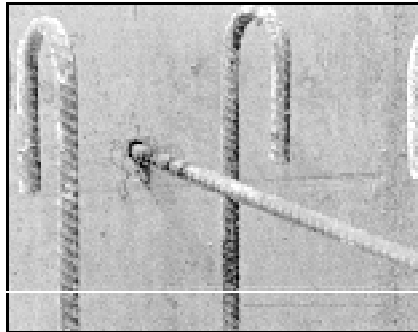
Anchor type HST

The HST anchors can be used in concrete — in the compression or tension zone — and in hard natural stone. It is usually used for fastening through in-place parts, for example, angles, tracks, channels, machines, wooden beams, etc.

It has a safety wedge sleeve for reliable anchoring and certain follow-up expansion. It is resistant to fire and its setting operations are short and simple. It bears a guide load of 5 to 29.5 kN for tension and 5.5 to 35.3 kN for shear.

Chemical anchors

Hilti chemical anchors like HY-150 and HY-50 can be used for rebar fastening in concrete and brickwork respectively. These anchors can be fastened without expansion pressure. It is user friendly and versatile.



Injection technique for concrete

Drilling holes for anchors

Hilti has a range of drilling machines for drilling holes for strengthening of the structures. Range includes TE-2, TE-5, TE-6S, TE-15C, TE-25, TE-55 and TE-76.



TE2 drilling system

TE 2

It is used for drilling anchor holes in concrete and masonry of 4-12 mm diameter. It can produce upto 4600 blows per minute.

TE 76

TE 76 is used for hammer drilling in concrete and masonry with carbide tipped drill bits and drill holes of 12-40 mm diameter.



TE76 drilling system

When breach bits are used for drilling, the drilled holes are of 45-150 mm diameter and when percussion core bits are used the hole diameter can go upto 45-150 mm. Chiselling is done by using pointed flat, wide-flat, hollow, channel, round and mortar chisels and brushing tools. It can produce upto 2700 blows per minute

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