STAINLESS STEEL
HELICAL BARS

QIUSUO® - Customizing All Types of Stainless Steel Helical Bars Products for Your Projects



PRODUCT SELECTION & SPECIFICATION GUIDE

QIUSUO

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STAINLESS STEEL HELICAL BARS

for Crack Stitching & Masonry Reinforcement

Helical reinforcing bars are stainless steel bars formed into a continuous helical profile. The profiled surface provides mechanical interlock with compatible repair grout or resin, allowing tensile loads to be transferred across cracked or weakened masonry.

They are commonly installed into horizontal mortar joints or prepared slots for crack stitching, local masonry reinforcement and structural repair. Diameters, lengths and end configurations can be supplied according to project requirements.

Features & Benefits

Continuous Helical Profile

Provides effective mechanical interlock with compatible repair grout.

High Tensile Capacity

Helps transfer tensile loads across cracked or weakened masonry.

Corrosion Resistance

Stainless steel construction supports long-term use within masonry joints.

Low-Impact Installation

Installed into prepared slots or mortar joints with limited disturbance to the surrounding masonry.

Flexible Installation

Suitable for straight joints, corners, curved masonry and selected irregular wall structures.

Custom Supply Options

Available in different diameters, lengths, packaging forms and end configurations.

Material Options



Specification	Available Options
Material Grade	AISI 304, 316 or 316L stainless steel
Nominal Diameter	4 mm, 6 mm, 8 mm, 10 mm and 12 mm
Length	1 m, 10 m or customized
Sales Unit	Sold by the metre
Supply Form	Straight bars, long lengths or coils
End Configuration	Flat cut, pointed or customized
Surface Condition	Clean stainless steel finish

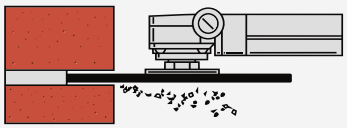
Installation Methods

Standard Installation — Grout-Bonded

The helical bar is embedded in a prepared mortar joint using polymer-modified repair mortar. This method is commonly used for crack stitching and continuous masonry reinforcement.



1



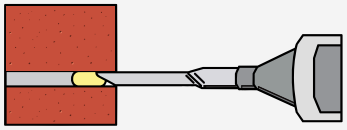
Cut a slot along the mortar joint

2



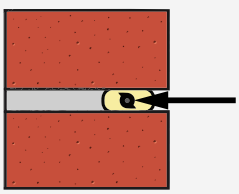
Remove all loose mortar, dust and debris

3



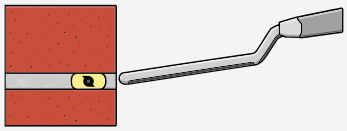
Apply Repair Mortar

4



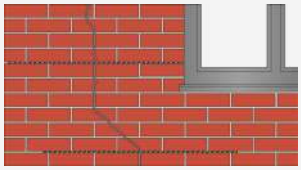
Press the helical bar into the mortar

5



Cover the bar completely with mortar

6



Typical Crack-Stitching Arrangement

The standard flat-cut helical bar is embedded in a prepared mortar joint using compatible repair mortar.

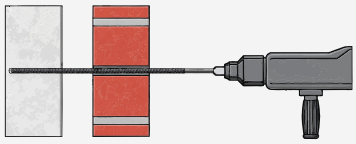
Installation Methods



Optional Installation — Mechanically Driven

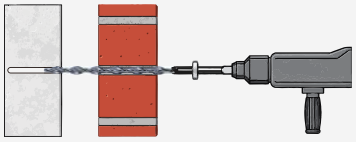
A custom pointed helical bar is driven through a pre-drilled pilot hole to connect masonry leaves. This option requires separate technical evaluation and quotation.

1



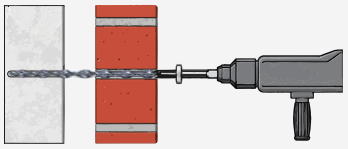
Drill a pilot hole through the masonry

2



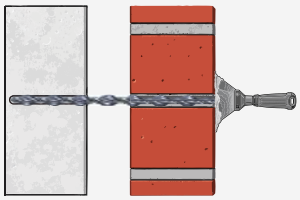
Fit the pointed bar into the installation tool

3



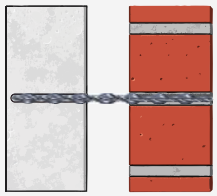
Drive the bar to the required depth

4



Seal the entry point with repair mortar

5



Typical Masonry-Leaf Connection

Mechanically driven installation requires a pointed end and separate evaluation based on the masonry substrate, bar size and required embedment.

Applications

Stainless steel helical bars are used to repair, reconnect and reinforce cracked or weakened masonry while minimizing disturbance to the existing structure.

Crack Stitching

Reinforcing cracked brick and masonry walls.

Lintel Repair

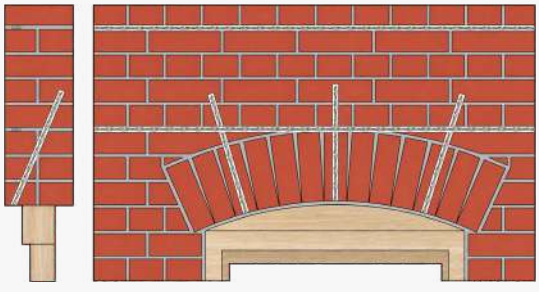
Stabilizing cracked masonry above doors and windows.

Wall Reconnection

Reconnecting separated or poorly bonded masonry walls.

Parapet Reinforcement

Strengthening parapet walls and upper masonry sections.



Typical Lintel Repair Arrangement

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