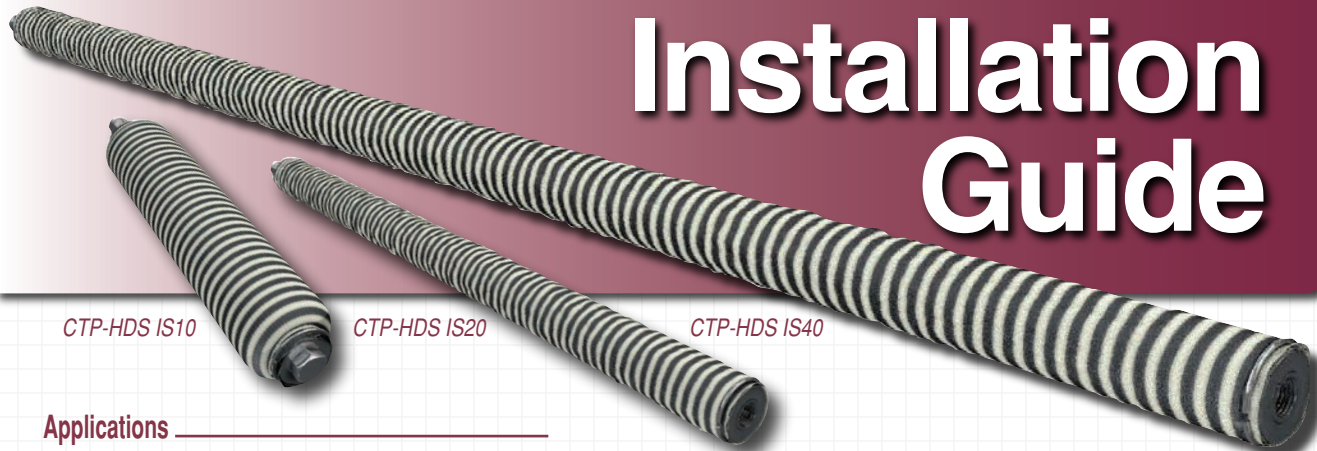


CTP-HDS SYSTEM

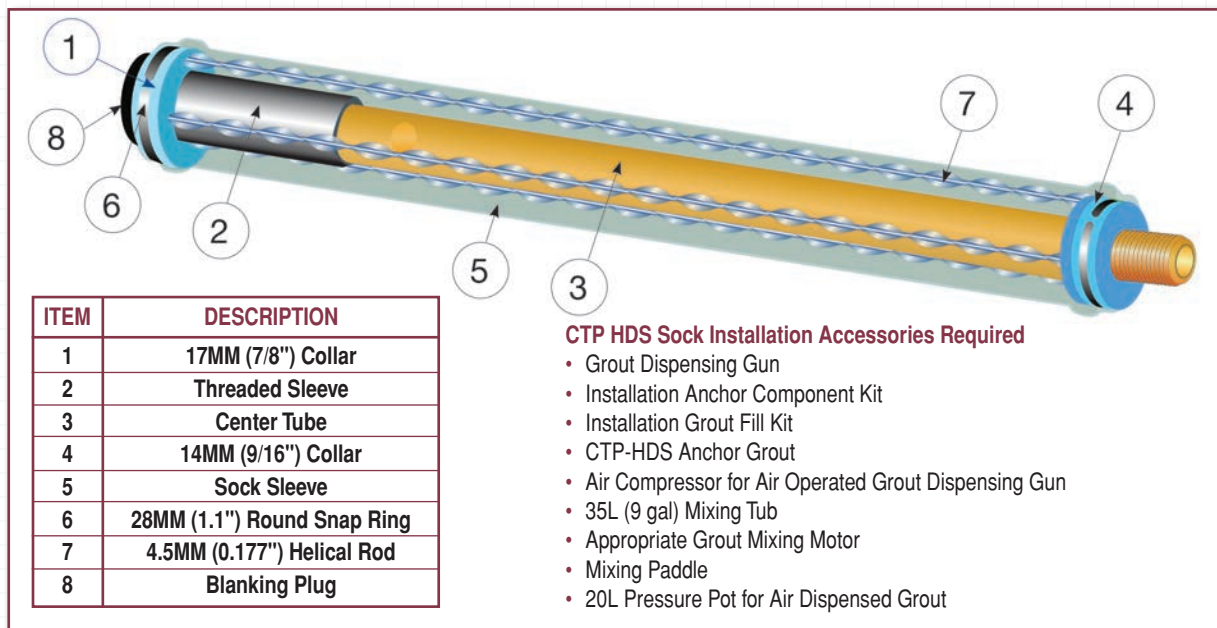
Installation Guide



Applications

- The CTP-HDS System heavy duty sock anchor is a fully engineered technical solution for strengthening masonry and repairing cracked or delaminated stonework.
- Available in standard 10", 20", 40" and custom lengths to cater for any job, the CTP-HDS System stabilizes and secures all types of masonry, with minimal disruption, to ensure a strong, durable and flexible repair.

CTP Heavy Duty Injection Sock Anchors Sizes 40", 20" & 10"



ITEM	DESCRIPTION
1	17MM (7/8") Collar
2	Threaded Sleeve
3	Center Tube
4	14MM (9/16") Collar
5	Sock Sleeve
6	28MM (1.1") Round Snap Ring
7	4.5MM (0.177") Helical Rod
8	Blanking Plug

CTP HDS Sock Installation Accessories Required

- Grout Dispensing Gun
- Installation Anchor Component Kit
- Installation Grout Fill Kit
- CTP-HDS Anchor Grout
- Air Compressor for Air Operated Grout Dispensing Gun
- 35L (9 gal) Mixing Tub
- Appropriate Grout Mixing Motor
- Mixing Paddle
- 20L Pressure Pot for Air Dispersed Grout

Benefits

- Versatile applications (arches, historic or new build structures)
- The only injection sock anchor that is designed to be assembled on site to achieve required length facilitating the installation process
- Eliminates the need for rosette washers or restraint plates
- Compatible to the original structure (cementitious)
- Durable (stainless steel)
- CTP Stitch-Tie® helical section used for increased tensile strength and keying the grout
- Easy to install
- Clean to install
- Can be used in weak and poor quality substrates
- No manufacturing lead time (pre-manufactured in 3 lengths)
- Grout is pumped through the central spine (no plastic tubes creating weak spots)
- Easy to ship on pallets
- Suitable for nearly all solid and hollow substrates

Engineered Anchoring Solutions Provider

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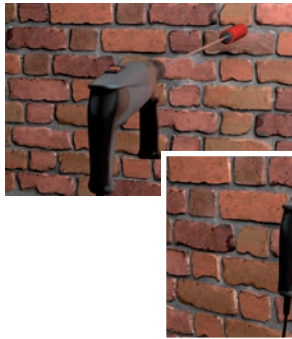
Phone: (219) 878-1427 • Fax: (219) 874-3626 • Email: sales@CTPanchors.com • www.CTPanchors.com



Installation Guide

CTP-HDS SYSTEM *Heavy Duty Injection Sock Anchor*

NOTE: Please wear the appropriate safety and protective clothing when installing fixing and anchor products. Always observe the necessary Health and Safety Guidelines.



1. Mark the entry points as specified by the engineer and drill to the correct depth and diameter using either a core drill or an SDS Max rotary hammer drill for the diameter pilot specified.



2. Ensure all drill dust and drill debris is removed from the pilot holes using a suitable air pump.



3. Lightly Spray the drilled pilot hole with clean water to maximize grout adhesion and facilitate a gradual and even grout cure.

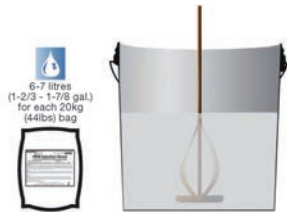


4. Screw the blanking plug CTP-HDS-IC-BP with washer CTP-HDS-IC-W completely into the end of the first HDS anchor until it bottoms and snug tight, then insert into the drilled hole.



5. Additional sock anchor lengths can be added by screwing them together until they make contact. Dry fit the assembly to assure correct drilled depth.

6. Once the required length is achieved, attach the supplied hose CTP-HDS-IC-T to the threaded end of anchor by threading the hose to the anchor until it is fully engaged with the exposed stud. Once all anchors are installed, mix the grout.



7. To mix the grout CTP-HDS-20G, add the appropriate amount of water to the mixing pail first, then the powder and mix well using a paddle CTP-HDS-MIXER, until a very fluid but creamy uniform consistency is created. Always maintain the correct working ratio, as per the manufacturer's instructions.



8. Pour the mix into a pressure pot CTP-HDS-POT and appropriate grout gun, connected to an appropriate compressor, set to a maximum of 3 bar (44psi) pressure.



9. Once ready to fill, slip a clamp CTP-HDS-TC-CL over the exposed hose, then push fit the steel pipe into the open end.



10. Switch on the compressor and proceed with pumping.

11. The CTP-HDS Sock Anchor System is back-filled, expanding the reinforced mesh sock to completely fill any voids, providing a permanent cementitious fixing to the surrounding masonry.

12. When the sock has been fully inflated, milk grout gently runs from the anchor indicating that it's full.



13. Maintaining the pressure at this stage forces the milk grout further into the surrounding material and minimizes shrinkage. As it cures, the high-performance grout firmly secures the helical bars to create a single structural entity that resists shear, compressive and tensile forces.

14. After a few minutes, fasten the clamp before turning off the compressor.



15. It is advisable to remove the hose from the threaded tube 2-3 hours after installation.

16. Wash any excess grout off with clean water, then fill the holes with SureFill flexible pointing mortar and color match the masonry with Surestain.



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