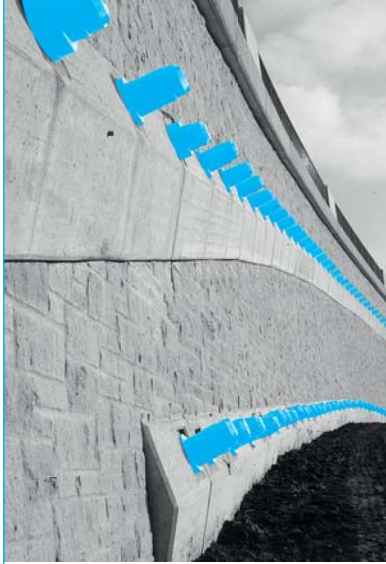


P R E S T R E S S E D  
C O N C R E T E  
T E C H N O L O G Y



Project Report

# Anchor Manufacturing System - semi-automatic -



Fig. 1:  
Semi-automatic anchor  
manufacturing system

# Description of system

The semi-automatic anchor manufacturing system greatly eases the prefabrication of PE-sheathed strands for ground anchors of up to 40 meters in length. Depending on the anchor design concerned, these strands can be filled with grease as corrosion protection for semi-permanent anchors. To achieve a high filling degree, the strand is untwisted for greasing. This system is also suitable for processing bare strands.

- Use of large grease containers (up to 200 litre barrels), quick and easy replacement
- Simple order management
- Clear step-by-step process visualization
- Ergonomic workplace design
- Enclosed guide channel with hydraulic ejection onto worktable

The machine feeds the PE sheath into a channel, the operator cuts it to the required length and clamps it. The machine then feeds the greased or ungreased strand into the sheath. Using the integrated abrasive cutter, the operator cuts the strand to length and moves it out manually. The ejection takes place automatically.



Fig. 2: Greasing the strand

The semi-automatic production of these strands offers the operator a number of benefits:

- Simple, process-reliable production of greased strands
- Simple machine design with a common drive motor for strand and PE sheath
- Closed grease tank, heated and insulated



Fig. 3: PE-sheath clamping device

## Data

<b>Product:</b>	<ul style="list-style-type: none"> <li>• PE-sheathed, greased strand</li> <li>• PE-sheathed, ungreased strand</li> <li>• Plain strand</li> </ul>
<b>Cycle time:</b>	3 min. (at a strand length of 25 m) *
<b>Feed speed:</b>	1 – 2 during greasing
<b>Cut strand length, max.:</b>	40 m/s (infinitely variable)
<b>Anticorrosion agent:</b>	Nontribos MP-2 8 (different types on inquiry)
<b>Client:</b>	BBR Adria
<b>Date:</b>	April 2017
<b>Optional accessories:</b>	<ul style="list-style-type: none"> <li>• PE-sheath uncoiling reel</li> <li>• Strand uncoiling reel</li> <li>• Drum pump for grease supply</li> <li>• Worktable for completion of anchors</li> <li>• Discharge channel</li> <li>• Coiler</li> </ul>

\* Depending on parameters and speed of manual work +/- 1 min.