



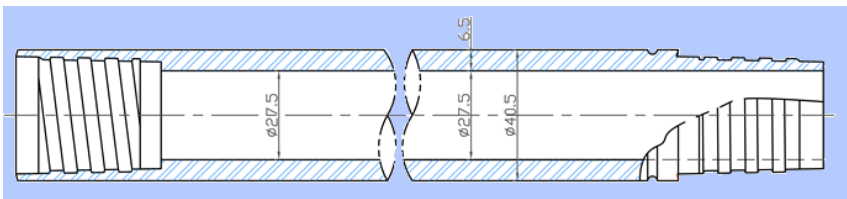
NLC Co., Ltd.

# NT 40.5 Rod

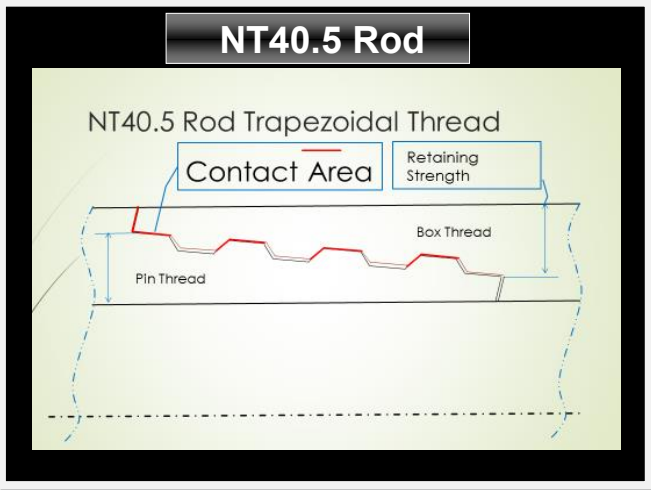
## NLC NT40.5 Rod - developed for grouting / soil investigation / SPT with a new concept.

### Features

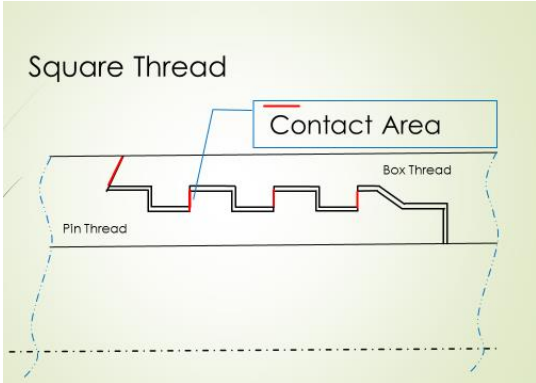
- 1) Flush Joint structure eliminates couplings.
- 2) The no-coupling structure with wide rod I.D. can prevent pressure loss inside the rod, which brings about:
  - ① Higher core retrieval rate; and
  - ② Reduction of pump fuel consumption / burden on a pump.
- 3) Taper threads with wide joint areas realize:
  - ① Rigid Joint resisting high complex torque;
  - ② Easy make-up and break-up;
  - ③ High sealing capability without water leakage; and
  - ④ Avoiding the expansion of box threads caused by drill bit pressure.



O.D.	40.5 mm	
I.D.	27.5 mm	
Weight	16.5 kg / 3 m	
	8.2 kg / 1.5 m	
	5.5 kg / 1.0 m	
	Yield Str.	Breaking Str.
Tension	217 kN	271 kN
Torque	4010 N-m	4500 N-m

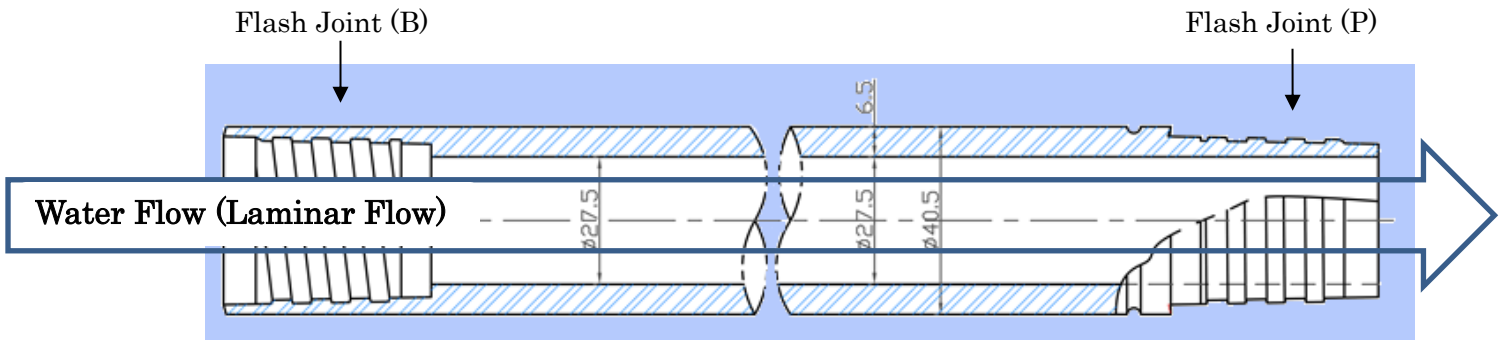


### Normal Drill Rods



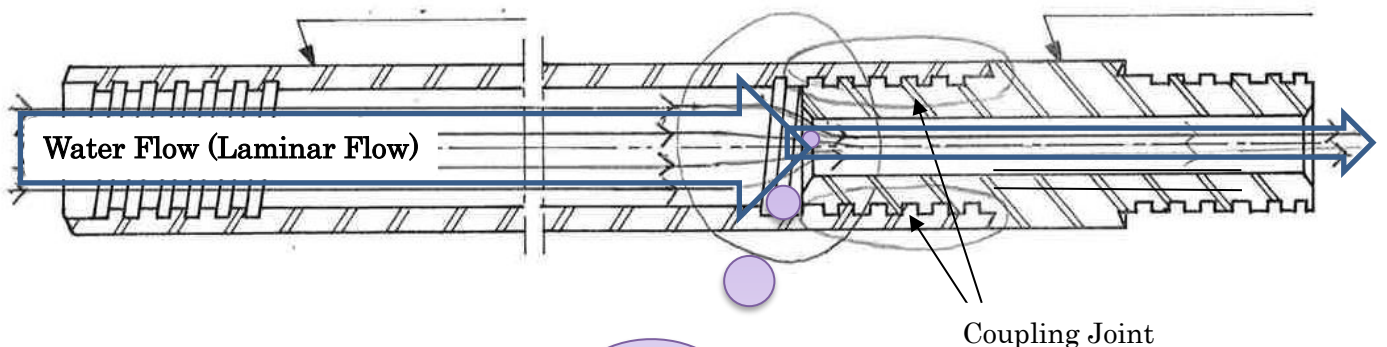
# NLC NT40.5 Rod Technical Advantages in Drilling / Grouting / SPT

## NT40.5 Rod



Almost No Pressure Loss  
No Coupling  
Easy make-up and break-up

## Normal Drill Rods (DCDMA and JIS Standard)



Turbulence Flow  
Counter Pressure

Pressure Loss



N L C CO.,LTD.

	<b>NT40.5 Flush Joint</b>	<b>Normal Drill Rods with Coupling</b>
<b>Thread Type</b>	<b>Taper Thread</b> Similar to wireline Q thread	<b>Square Thread</b>
<b>Connection</b>	<ul style="list-style-type: none"> <li>• Wider contact areas between threads realize:</li> <li>• High Sealing Capacity</li> <li>• Rigid Joint against high torque</li> <li>• Easy make-up / break-up</li> </ul>	<ul style="list-style-type: none"> <li>• Smaller connection area between threads</li> <li>• Lower Sealing Capacity</li> <li>• Weaker Joint</li> </ul>
<b>SPT</b>	<ul style="list-style-type: none"> <li>• Higher resistance against knocking force and shocks</li> <li>• <b>Less damage to thread connection</b></li> </ul>	<ul style="list-style-type: none"> <li>• Lower resistance against knocking force and shocks</li> <li>• Box threads easily swell / open by knocking force</li> </ul>
<b>Pumping</b>	Less pressure for : Drilling water Grouting Cement Milk	More pressure for : Drilling Water Grouting Cement Milk
<b>Pump unit</b>	<ul style="list-style-type: none"> <li>• Less burden</li> <li>• Less fuel</li> </ul>	<ul style="list-style-type: none"> <li>• More burden</li> <li>• More fuel</li> </ul>
<b>Core</b>	<ul style="list-style-type: none"> <li>• Less damage by low water pressure</li> <li>• Superior core retrieval rate</li> </ul>	<ul style="list-style-type: none"> <li>• More damage by high water pressure</li> <li>• Inferior core retrieval rate</li> </ul>