

## Rotating tubular chamber

### Description

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The rotating tubular chamber has been designed to perform scaffold seed and culture processes by means of rotation while culture media is circulated through the lumen and around the external surface of the scaffold. The combination of the rotation movement with the TEB series constitutes a full system for tissue engineering research with tubular scaffolds.

The chamber is designed to hold scaffolds as small as 1 mm in diameter, though it can be adapted to fit the dimensions of your particular scaffold.



### Applications

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- **Cell seeding, by means of rotation**
- **Culture, simulating the blood flow by applying flow through the lumen of the scaffold**

Also culture media in the outer surface of the scaffold can be pumped through an external circuit.

### Main features

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The lumen diameter of the scaffolds used in the chamber can be as small as 1 mm or lower and the useful length can vary from 5 to 15 mm.

Capillar vessels and small tube-shaped organs subjected to luminal flow are good candidates to be culture in this chamber, which is suitable to apply flow conditions and rotation simultaneously.

Rotating tubular chamber	
Autoclavable	Yes
Flow circuits	<ul style="list-style-type: none"> <li>• Luminal flow circuit</li> <li>• External flow circuit</li> </ul>
Scaffold type	Tubular scaffold
Scaffold Internal diameter[*]	Variable
Scaffold length[*]	Variable
Rotation speed	0.66 to 600 revolutions per hour
Rotation modes	<ul style="list-style-type: none"> <li>• Continuous</li> <li>• Intermittent</li> <li>• Alternating</li> </ul>
Control	PC-based control software

[\*]: Consult us for detailed information on the available bores.