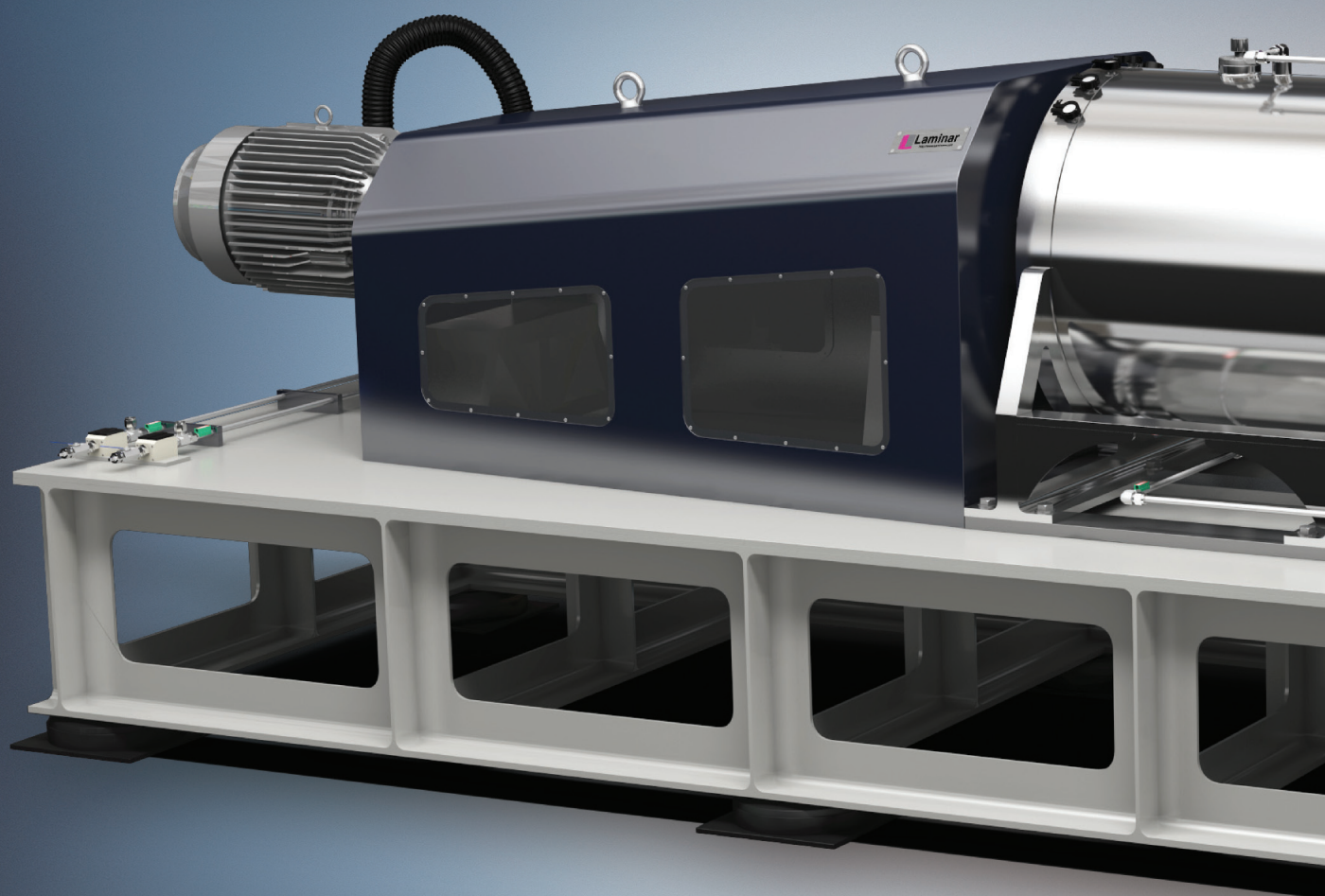


# Laminar Continuous Taylor Reactors

## Datasheet

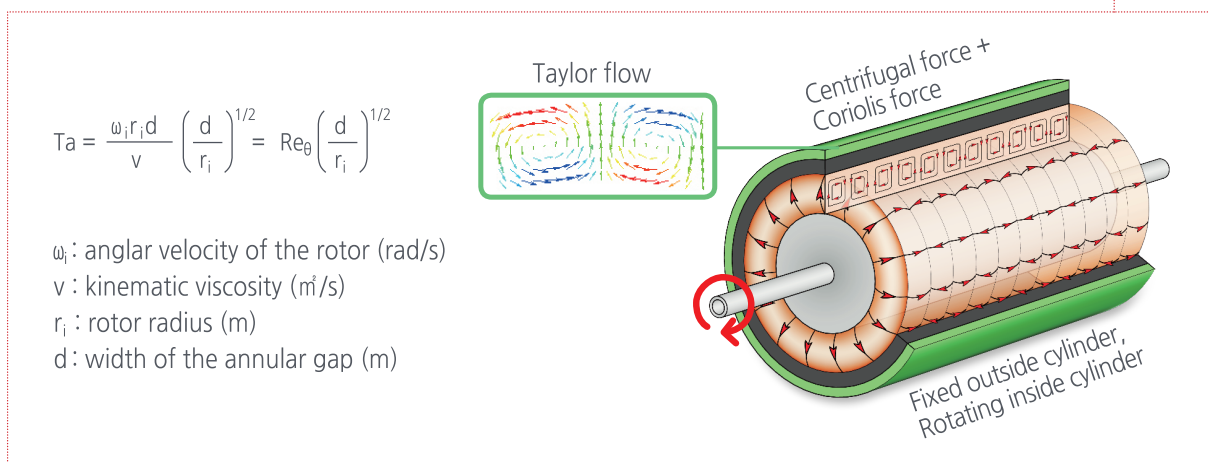
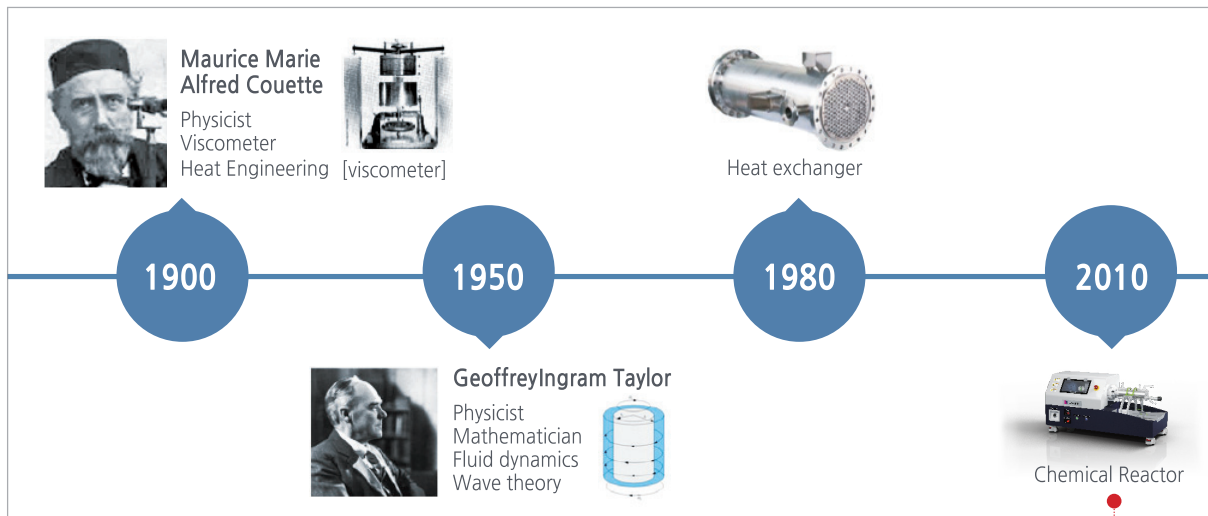


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## HISTORY



## ADVANTAGE



TIME



QUALITY



COST

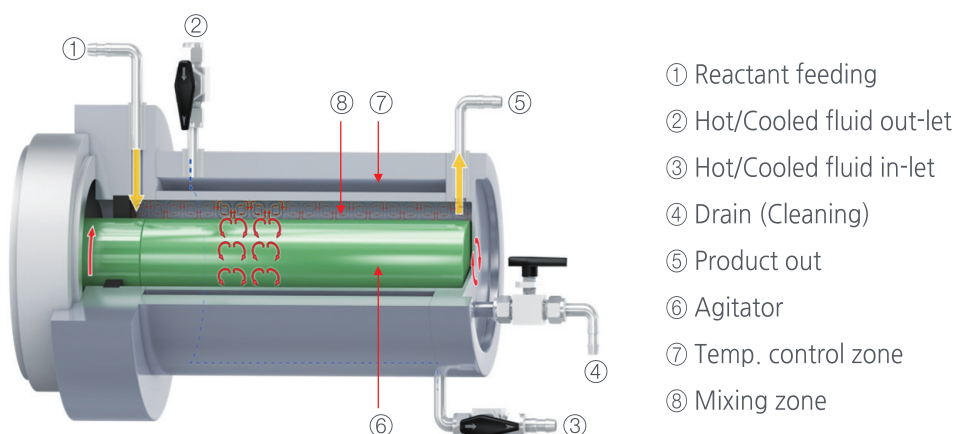


CONTINUOUS

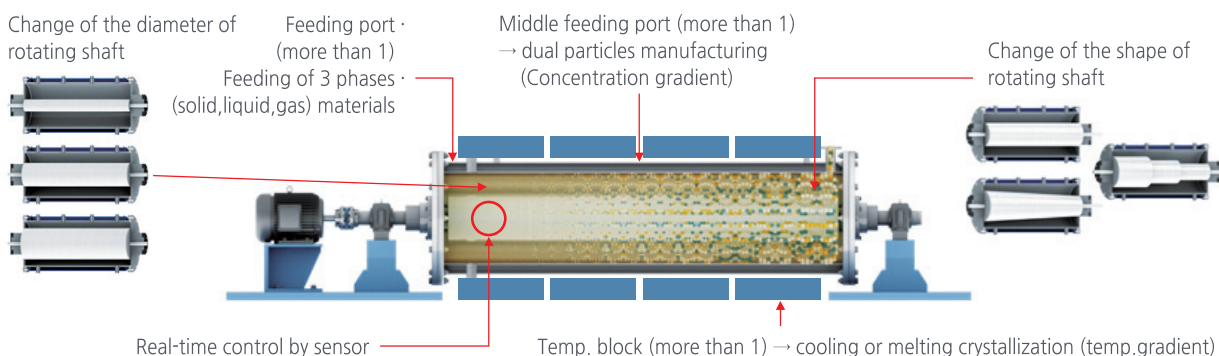
Cathode material of Lithium ion battery, precursor

Division	Batch Reactor	LCTR <sup>®</sup> Reactor
Fluid mixing method	Macro-mixing	Micro-mixing
Mass transfer velocity (m/s)	1	3.3
Mixing intensity (W/kg)	0.8	5.8
Reaction time (h)	10	2
Span([D <sub>90</sub> -D <sub>10</sub> ]/D <sub>50</sub> )	0.5	0.2
Tap Density(g/mL)	2.1	2.2

## DIAGRAM (Cross-Section)



## OPTIONS



## APPLICATIONS

Product		
$\text{LiFePO}_4$	$\text{Ba}(\text{NO}_3)_2$	$\text{NiSO}_4$
$(\text{NiMnCo})(\text{OH})_2$	$\text{KNO}_3$	$\text{CoSO}_4$
$\text{Li}_2\text{CO}_3$	$\text{NaHCO}_3$	$\text{TiO}_2$
$\text{CaCO}_3$	Durene	Methionine
$\text{K}_2\text{CO}_3$	Diiodobenzene	GMP
$\text{NH}_4\text{H}_2\text{PO}_4$	Triiodobenzene	IMP
$\text{NaI}$	Lysine	Graphene Oxide
$\text{SiO}_2$	Tryptophan	SMZ
Process		
Crystallization	Sol-gel process	Impregnation
Re-crystallization	Polymerization	Extraction
Co-precipitation	Radical reaction	Core-shell process
Precipitation	Coating	Exfoliation



## LCTR®- Series



Model	Volume (L)	Dimension (L/W/H)	Max. Agitation speed (rpm)	Weight(Kg)
Mini-V	0.02	274 x 525 x 617	1,500	40
Lab II - V	0.1	500 x 500 x 1,178	1,500	85
Lab II - H	0.2	1,102 x 450 x 574	1,500	120
Tera 3100 (General Type)	1	1,470 x 700 x 1,157	1,500	450
Tera 3300 (PLC, CE Certified)	1	1,400 x 700 x 1,150	1,500	650
Peta	10	2,330 x 700 x 1,220	1,500	1,200
	50	3,400 x 1,300 x 1,600	1,200	3,000
Exa	100	5,800 x 2,300 x 1,850	300	5,000
	500	6,500 x 2,500 x 2,000	250	15,000
	1,000	8,500 x 3,000 x 2,300	250	25,000

**For more information, or to discuss your requirements,  
please contact us on 01954 232 776**

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