

## Development of Hydraulic Design Programs for Centrifugal Pumps

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오종식 (MEEREX 대표)

JongSik Oh  
ceo@meerex.com

MEEREX

Mobile : 011-409-6528

RPUM1D™

- Meanline Design Sizing
- Stepanoff Classical Design Constants
- Volute Pump
- Optimal Inlet Design

JongSik Oh  
ceo@meerex.com

MEEREX

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## Hydraulic Design

- Meanline Design
- Meanline Performance Prediction
- Impeller 3D Profile Design
- 3D Turbulent Navier-Stokes CFD

- RPUM1D™
- RPUM1PR™
- RPUM3D™
- INSTURBO™

JongSik Oh  
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MEEREX

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RPUM1D™

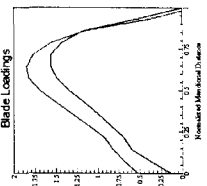
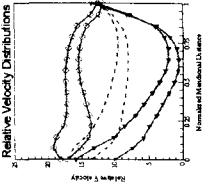
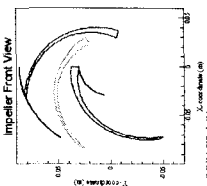
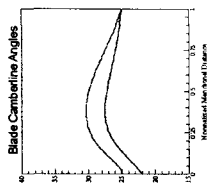
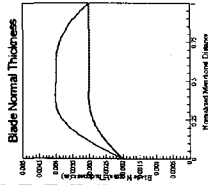
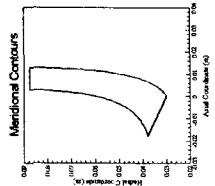
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MEEREX

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# RPUM3D™



Jongsik Oh  
ceo@meerex.com

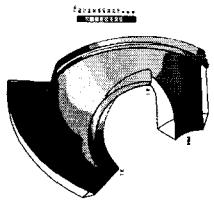
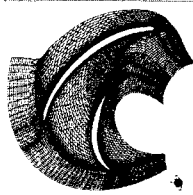
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# INSTURBO™

- 3D Incompressible Navier-Stokes CFD
- k-epsilon Turbulence
- Shrouded/ Open Impellers
- Segregated Pressure Correction

(Based on SIMPLE)



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MEEREX

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