

COMPARISON TABLE

NovaOne Gravity - NovaFlow&Solid

| Main functions | NovaOne Gravity | NovaFlow&Solid |
|--|-----------------|----------------|
| Import format STEP and STL | X | X |
| Multi mesh technology | 0 | X |
| Coating | 0 | X |
| Choke | | X |
| Compressor | | X |
| Flowcolor | 0 | X |
| Flowmeter | 0 | X |
| Tracer particles | 0 | X |
| Thermal cycling | 0 | X |
| Cooling channels | 0 | X |
| Mold spraying | 0 | X |
| Vents (atmospheric) | X | X |
| Squeeze pins | | X |
| Re-melt material chills | | X |
| Sensor elements | | X |
| Parameter optimization | 0 | X |
| Maximum calculation cores | 4(0) | Unlimited |
| Maximum mesh amount | 4 million (0) | Unlimited |
| Settings module for setting default settings | (preset) | X |
| Gravity casting method - Pressure height method | X | X |
| Ladle pouring over lip method (basic + advanced) | X | X |
| Bottom pouring ladle method (basic + advanced) | X | X |
| Presspour method | 0 | X |
| Solver settings menu | X | X |
| Solver 0 (quasi equilibrium model) | X | X |
| Solver 1 (non equilibrium model) | | X |
| NovaShot module (HPD pre-calculations) | 0 | X |
| Browser module (full functionality see below) | X | X |
| Convection | X | X |
| Gas calculation | 0 | X |
| Turbulence factor (necessary for filters) | X | X |
| Only 3D Import, Simulation Setup, Flow&Solid and Browser module | X | (full) |
| Result fields: Temperature, Temperature gradient, Air entrapment, Liquid phase, Velocity, Geometrical modulus and Shrinkage | 0 | (full) |
| Result fields: Solidification time, Fill time, Air contact time, Wall contact time, Thermal modulus, Hot spot, Warming up time, Niyama | 0 | X |
| Database module in order to add and change alloys | X | |
| Limited database: Aluminum, Steel, Gray and Ductile Iron | X | (full) |
| Extra modules: Solid, Flow, Quick flow, NovaStress, Good Guys' Index, Calibrate and Settings | 0 | X |
| NovaStress (optional module) | 0 | 0 |

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| Special functionality | NovaOne Gravity | NovaFlow&Solid |
|--|-----------------|----------------|
| Low pressure die casting | O | X |
| Tilt casting | O | X |
| Centrifugal casting | O | X |
| Filter function – foam or pressed, virtual (foam filter group) | X | X |
| Filter function - real (imported solid with correct dimension) | X | X |
| Exothermic powder function | | X |
| Exothermic function (exo sleeves group) | X | X |
| Autosimulate | O | X |
| Estimation of volume | | X |
| Preheating simulation | | X |
| Temperature distribution | | X |
| ATAS MetStar database connection (density calibration) | | X |

| Browser functionality | NovaOne Gravity | NovaFlow&Solid |
|--|-----------------|----------------|
| Create autoreport | X | X |
| Create movies | X | X |
| Autogenerate movies | X | X |
| Create multi window movie | X | X |
| Create multi simulation movie | X | X |
| Create picture | X | X |
| Viewing of results in 2D, 3D and transparency mode | X | X |
| Userfield | X | X |

X = Included in version
 O = Optional module (need to be purchased extra)