

## COMPARISON TABLE

# NovaOne HPD - NovaFlow&Solid

Main functions	NovaOne HPD	NovaFlow&Solid
Import format STEP and STL	X	X
Multi mesh technology	0	X
Feeding point technology for shrinkage prediction	X	X
Feeding pressure value setting (3rd phase)	X	X
Die coating	X	X
HPD filling – Total filling time	X	X
HPD filling – Time (flow versus time)	X	X
HPD filling – Trigger (flow versus coordinate)	X	X
HPD filling – Trigger + filling time	X	X
HPD filling with chamber (virtual)	X	X
Piston movement calculation	0	X
Instant pour for hot chamber		X
Parameter optimization		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)	0	X
Vacuum vents (compressor)	0	X
Squeeze pins		X
Re -melt material chills	0	X
Sensor elements		X
Maximum calculation cores	4 (0)	Unlimited
Maximum mesh amount	20 million (0)	Unlimited
Calculation of solidification shrinkage	X	X
Database module in order to add and change alloys	0	X
Settings module for setting default settings	(preset)	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
NovaStress (optional module)	0	0
Only 3D Import, Simulation Setup, Flow&Solid and Browser module	X	(full)
Result fields: Temperature, Liquid phase, Velocity, pressure and shrinkage	X	(full)
Result fields: Temperature gradient, Air Entrapment, Slag particles, Solidification time, Fill Time, air contact time, Wall contact time, Thermal modulus, Geometrical modulus, Hot Spot, Warming up time, Niyama	0	X
Limited database – only aluminum + zinc alloys (changes of alloys not possible)	X	(full)

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### NovaOne HPD- NovaFlow&Solid

Functionality for other methods	NovaOne HPD	NovaFlow&Solid
Gravity casting filling (Lip pouring, Bottom pour...)	O	X
Low pressure die casting	O	X
Tilt casting	O	X
Lost wax casting		X
Centrifugal casting	O	X
Filter function – foam or pressed, virtual or real		X
Exothermic powder function		X
Extra modules: Solidification, Flow, Quick flow, Settings and Database	O	X
ATAS MetStar connection (in database)		X

Browser functionality	NovaOne HPD	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
User field	X	X

X = Included in version

O = Optional module (need to be purchased extra)