

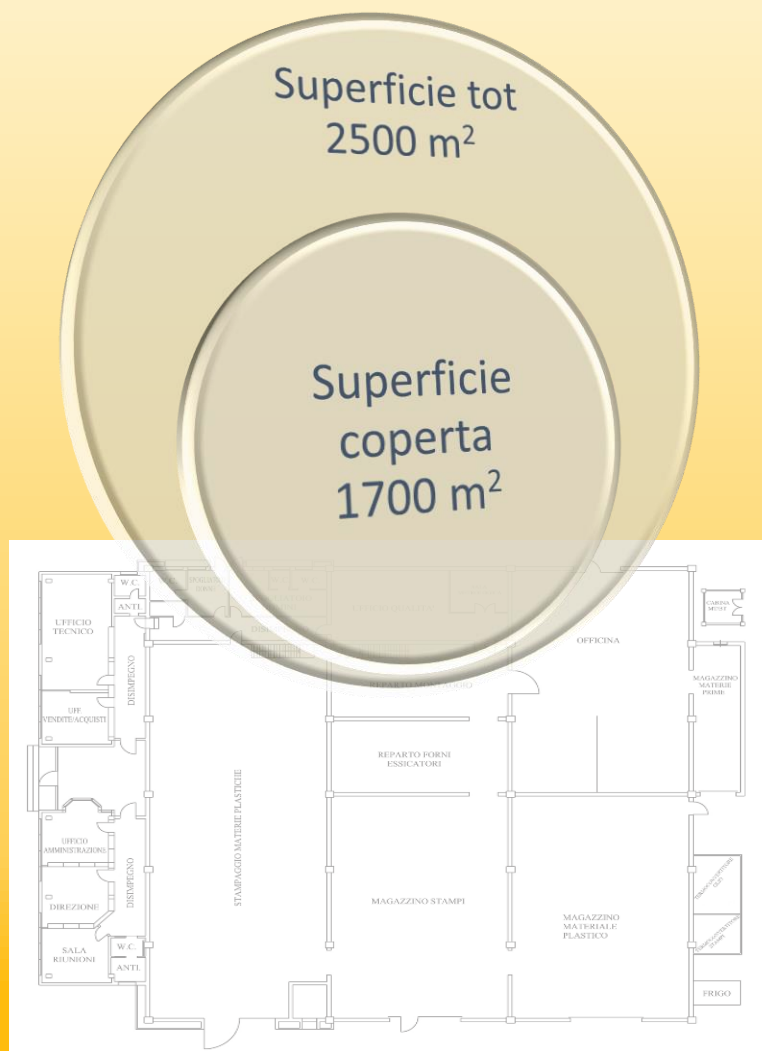


Ultrapolimeri e Viscoelasticity

Molding Innovation Day 2013

Cattini S.r.l. - R&D Dept.

Panorama analitico



35 Addetti

22 Produzione

2 Commerciale

4 Qualità

3 Tecnico

4 Amministrazione

**Dal 2000
il Sistema Qualità Aziendale
è certificato UNI EN ISO 9001**



**Dal 2008
il Sistema Gestione Ambientale
è certificato UNI EN ISO 14001**

Punti di forza

Stampaggio di TECNOPOLIMERI e SUPERPOLIMERI dal 1985

Parti complesse e di piccole dimensioni

Capacità di produzione da piccole ad altissime tirature

Sovra-stampaggio di inserti metallici e polimerici

Pregevoli tolleranze dimensionali ottenute di solo stampaggio

Codesign particolari



Progettazione e produzione
stampi e attrezzature



Stampaggio ad iniezione di tecnopolimeri e
superpolimeri

Benefici di Moldex3D



Benefici di Moldex3D



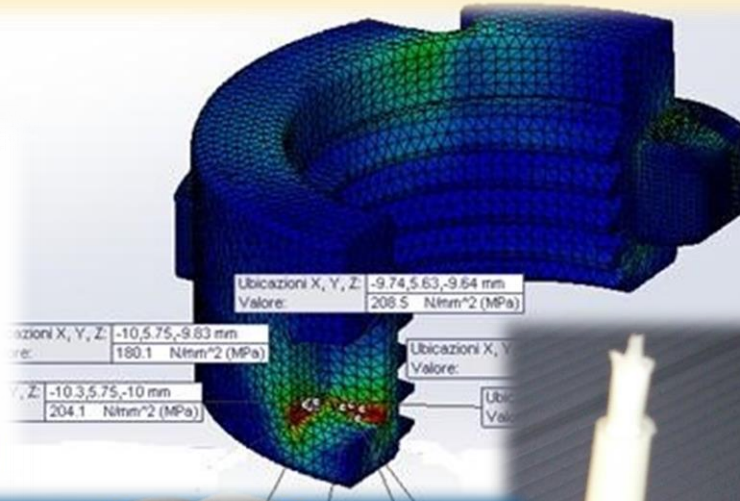
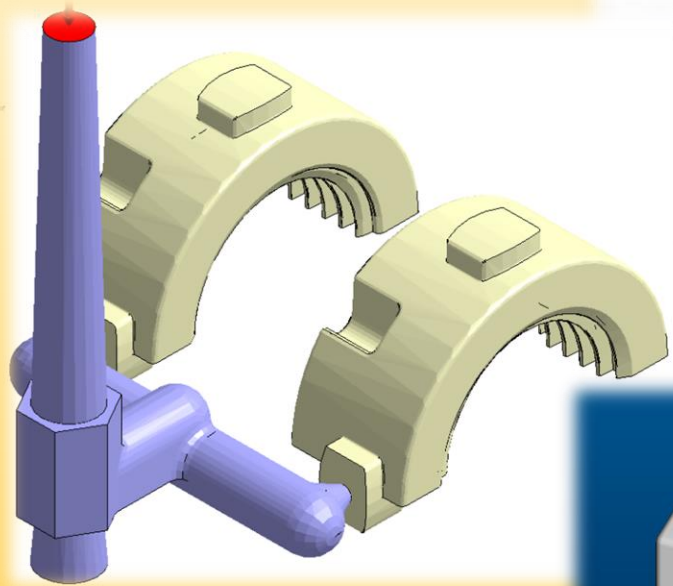
Benefici di Moldex3D



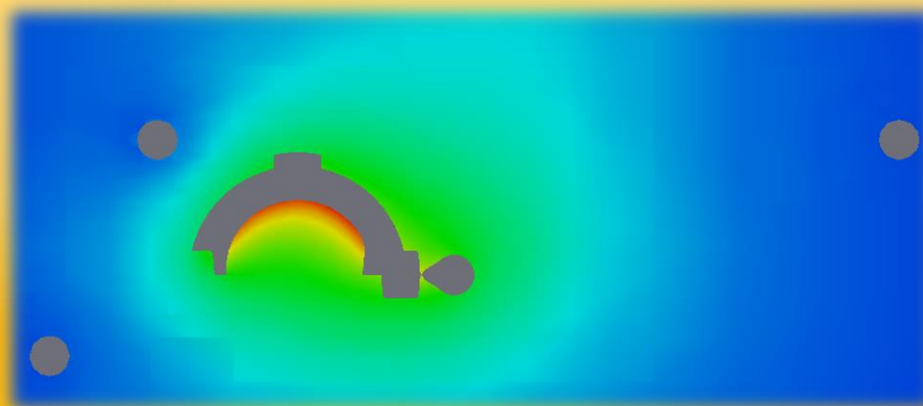
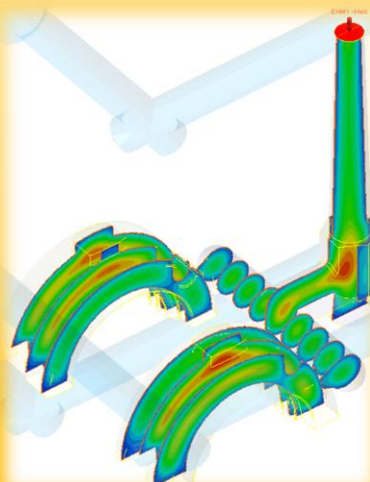
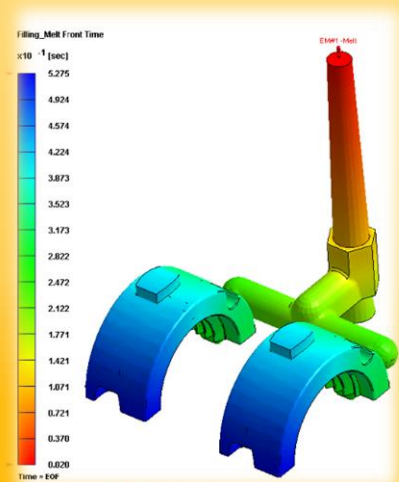
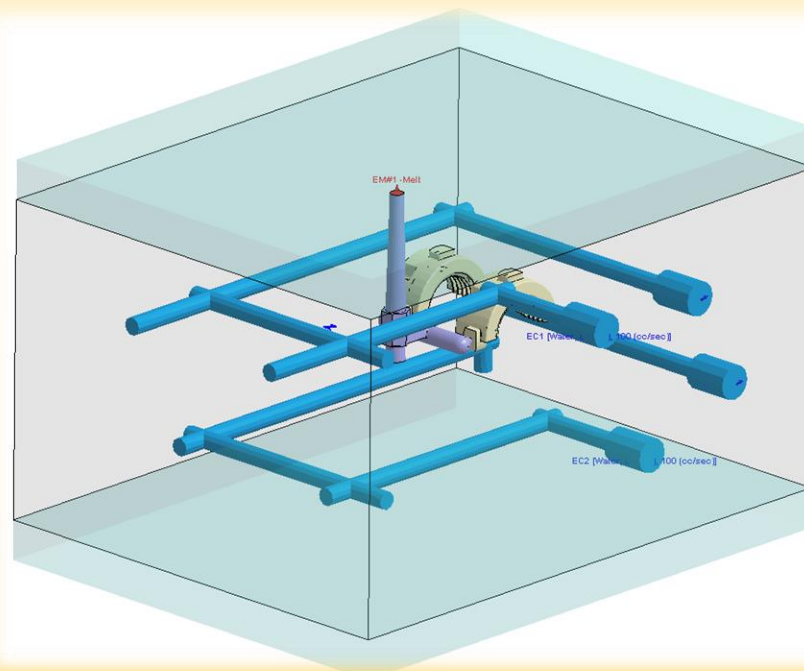
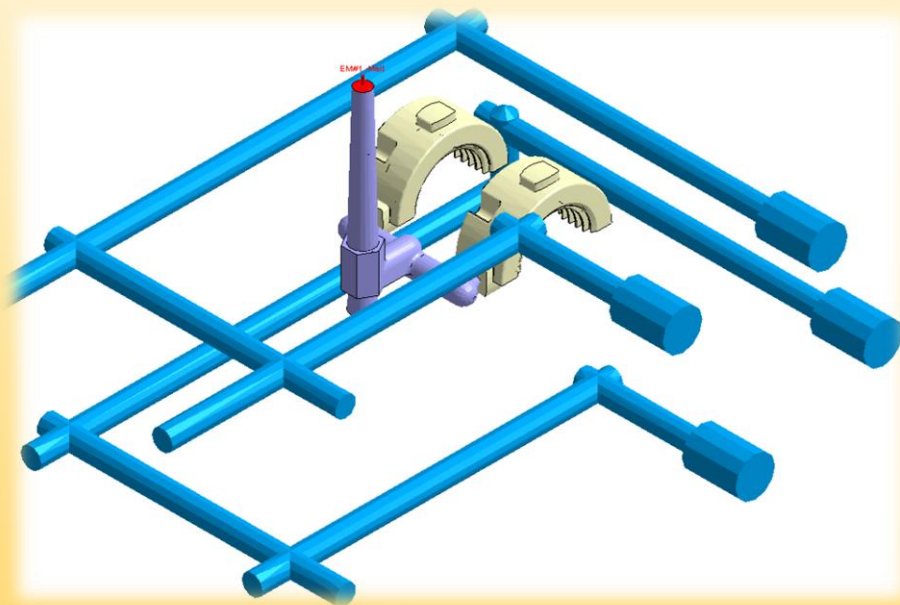
Benefici di Moldex3D

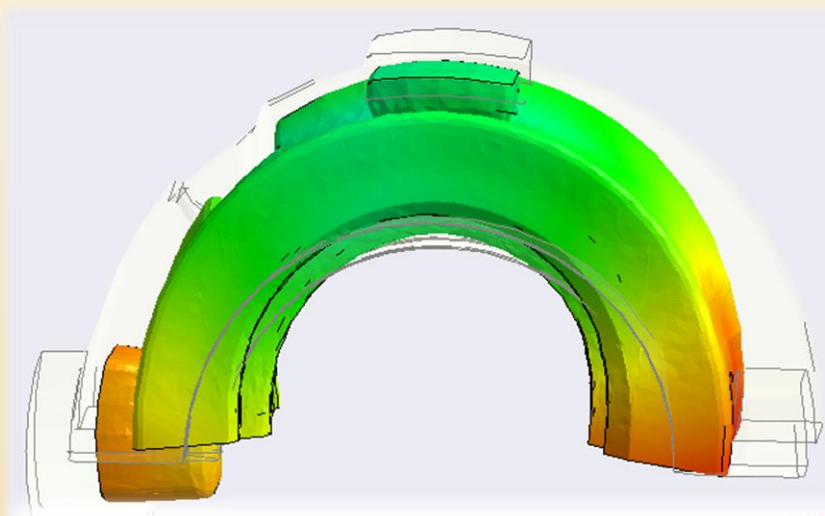


Case study



Analisi





Measure

From : 6639 To : 1559 [1-888518]

Distance = 22.68 mm

Warpage result

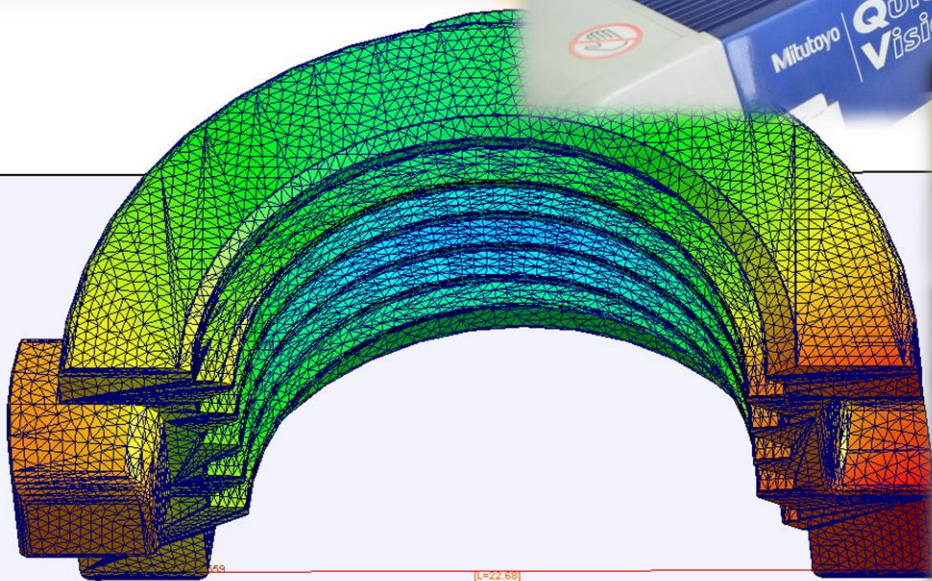
Deformed distance = 22.0927 mm

Difference = 0.587278 mm

Linear shrinkage = 2.58941 %

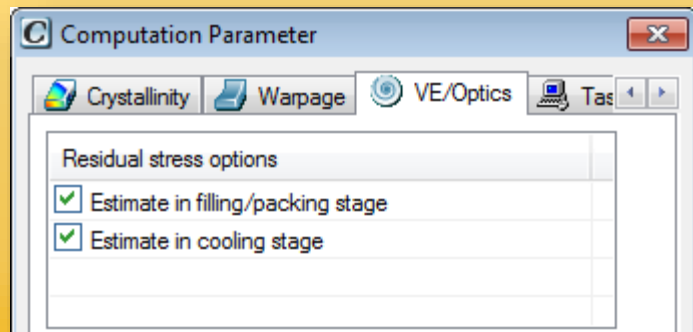
Item	Node1	Node2
X-Coord	6.936	6.936
Y-Coord	47.54	24.86
Z-Coord	1.759e-015	2.083e-015
dX=X2-X1	0	0
dY=Y2-Y1	-22.68	-22.68
dZ=Z2-Z1	3.24e-016	3.24e-016
dL=Distance	22.68	22.68
X-Coord*	7.01	7.06
Y-Coord*	47.21	25.12

☒ Show on screen
☐ Show tooltip



Benchmark

Run	PC Mode				Analysis parameters								Mesh				CPU Times (m)					Accuracy
	CPU	Acc Hardware	Comput.	Hyperthread	Acc/Perf level	Estimate cool time	Particle tracer	Autoset cool time	Predict gate freeze time	Cristallization computation	In-mold constraint	Extend pack to cool	Mesh level	Reliability	Ens min layers	Elements	Fill	Pack	Warp	Cool	Tot	Warpage
1	Intel i7 3.4 GHz	4 CPU	Local	Off	5	N	N	N	N	N	N	N	3	High	True	987281	180,0	96,0	5,2	4,8	286,0	80%
2	Xeon e5 2.8 GHz	4 CPU	Local	Off	5	N	N	N	N	N	N	N	3	High	True	987281	186,0	102,0	6,3	4,7	299,0	80%
4	Xeon e5 2.8 GHz	4 CPU	Comp Man	Off	5	N	N	N	N	N	N	N	3	High	True	987281	204,0	126,0	7,6	5,4	343,0	80%
5	Xeon e5 2.8 GHz	4 CPU	Comp Man	Off	5	Y	Y	Y	N	N	Y	N	3	High	True	987281	270,0	150,0	14,1	47,4	481,5	30%
6	Xeon e5 2.8 GHz	4 CPU	Comp Man	Off	5	N	Y	N	N	Y	N	N	3	High	True	987281	330,0	174,0	7,2	6,7	517,9	80%
7	Xeon e5 2.8 GHz	4 CPU	Comp Man	Off	5	N	N	N	Y	N	N	N	3	High	True	987281	234,0	126,0	7,6	5,8	373,4	80%
8	Xeon e5 2.8 GHz	4 CPU	Comp Man	On	5	N	N	N	N	N	N	Y	3	High	True	987281	228,0	108,0	6,0	4,4	346,4	87%
9	Xeon + Xeon	2+2 CPU	Cluster	On	5	N	N	N	N	N	N	N	3	High	True	987281	162,0	84,0	5,5	4,0	255,5	80%





Si ringrazia per la collaborazione



Ringraziando per l'attenzione
auguriamo una buona giornata