

mid Moulding
Innovation
Day 2026

Integrazione macchina

Moldex3D/Fanuc/OMV

Moldex3D

Moldex3D
MOLDING INNOVATION

FANUC

omv

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In Moldex3D è possibile trasferire i dati di progetto della simulazione in 3 modi:

- 1- creazione presentazione **REPORT**
- 2- creazione **PROCESS SHEET** in excel
- 3- trasferimento diretto dati verso la **PRESSA**

FANUC – ENGEL – SUMITOMO – TOYO - ARCUCHI

FANUC FANUC
120.93.28.141 • Active

TOYO TOYO
Machine: 0 • Inactive

ARCUCHI Arcuchi
Machine: 0 • Inactive

Con ogni produttore è stato definito un protocollo specifico:

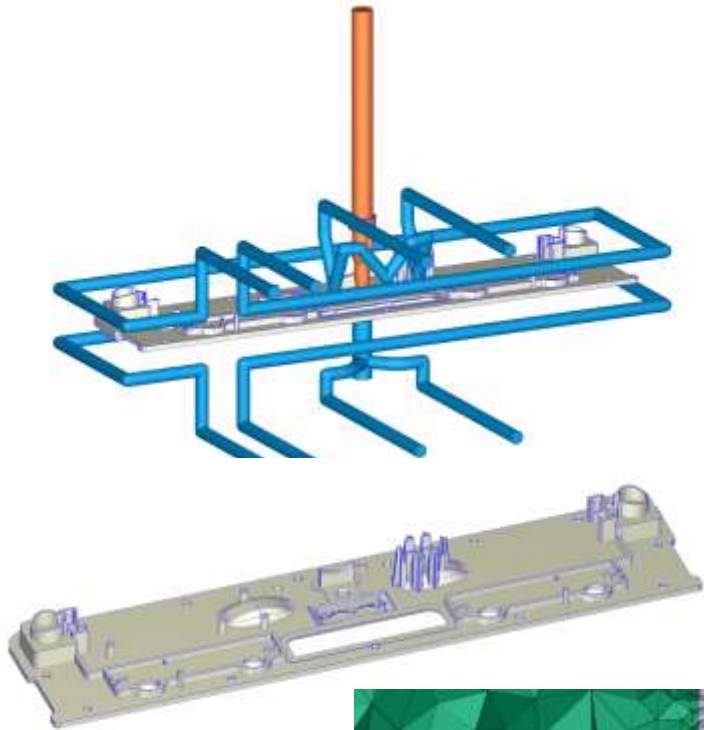
Creazione file specifici CSV nel formato di lettura della macchina

Interazione con portale specifico Produttore presse

Utilizzo protocollo mediante iSLM per trasmissione dati



Eseguita simulazione in Moldex3D



Setting method : CAE mode

In this mode, process parameters are not derived from the molding machine informations. You may freely specify process conditions for simulation.

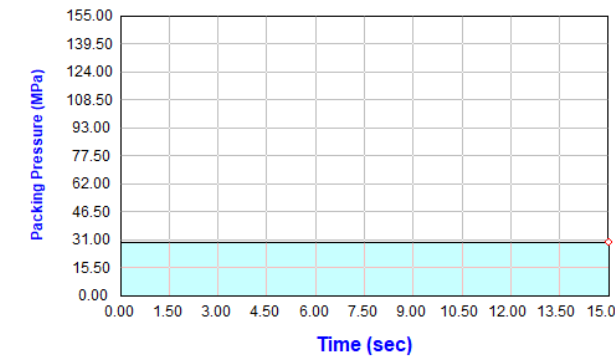
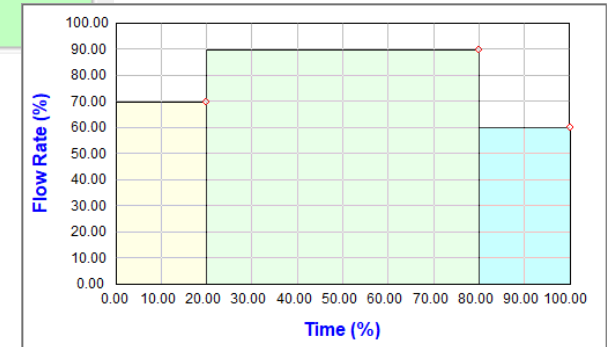
Process File : Fanuc PLAST_Run6_1_1.pro

Mesh File : model_Run2.mfe

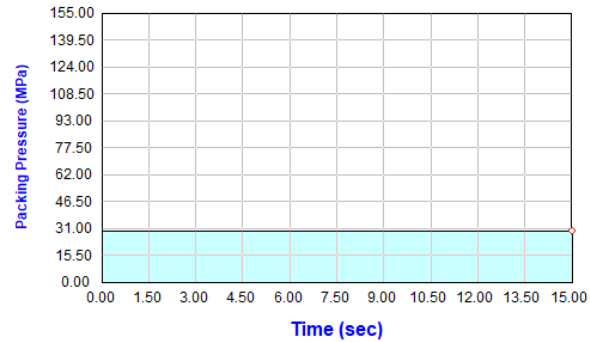
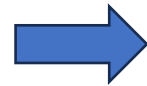
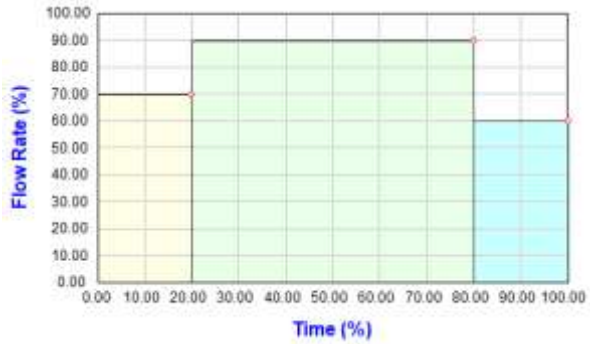
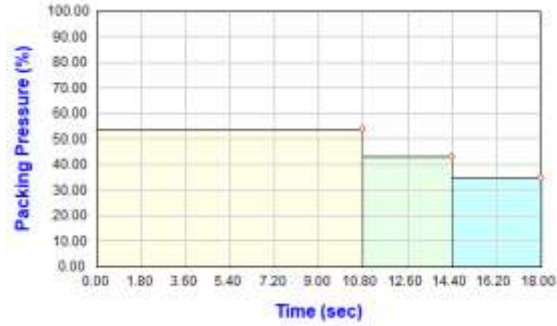
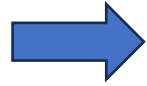
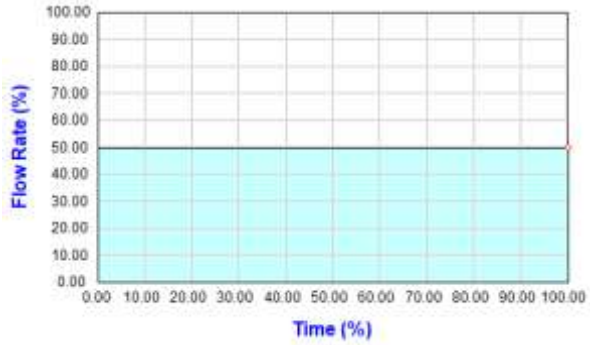
Material File : PA6_ALTECHPA6A3030109GB30_0.1.mtr

Maximum injection pressure	155	MPa
Maximum packing pressure	155	MPa

[Filling]	
Filling time (sec)	2.5
Melt Temperature (oC)	280
Mold Temperature (oC)	85
Maximum injection pressure (MPa)	155
Injection Volume (cm^3)	170.448
[Packing]	
Packing time (sec)	15
Maximum packing pressure (MPa)	155
[Cooling]	
Cooling Time (sec)	15
Mold-Open Time (sec)	10
Eject Temperature (oC)	179
Air Temperature (oC)	25
[Miscellaneous]	
Cycle time (sec)	42.5

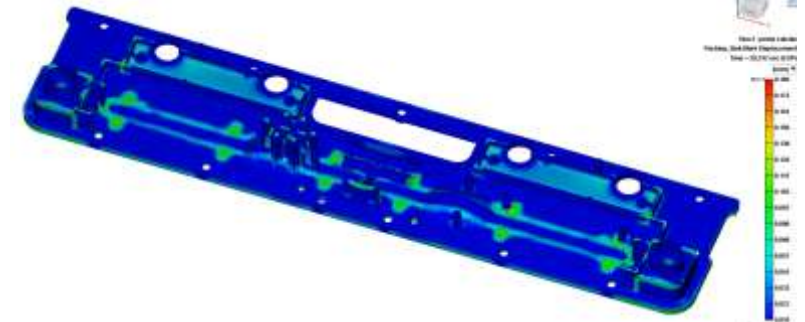
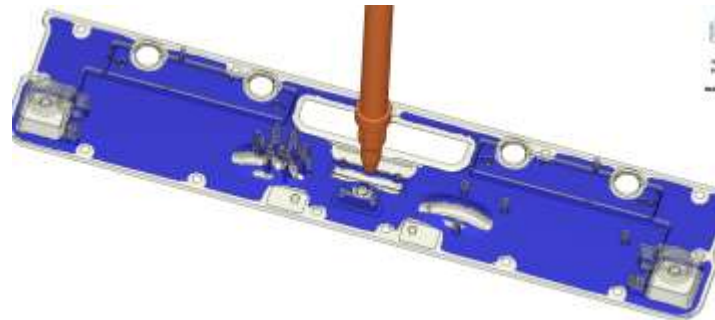
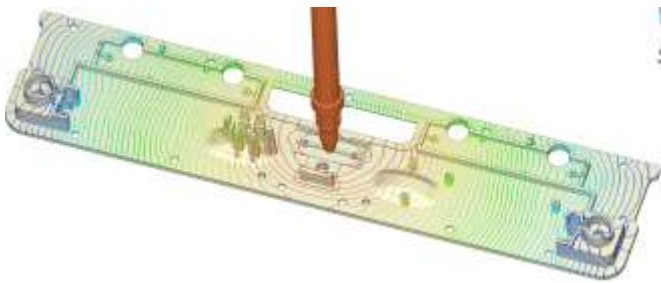


Ottimizzazione parametri di stampaggio in Moldex3D

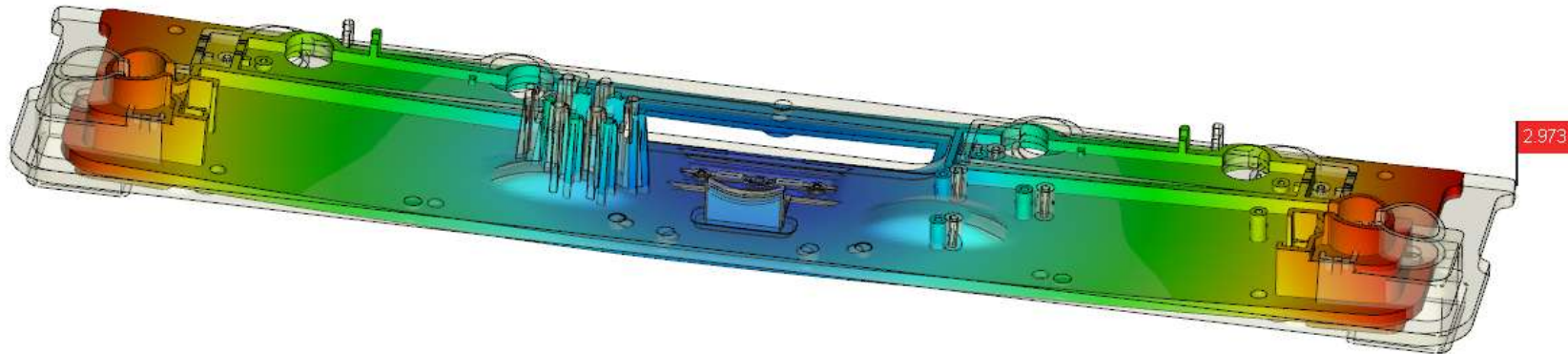
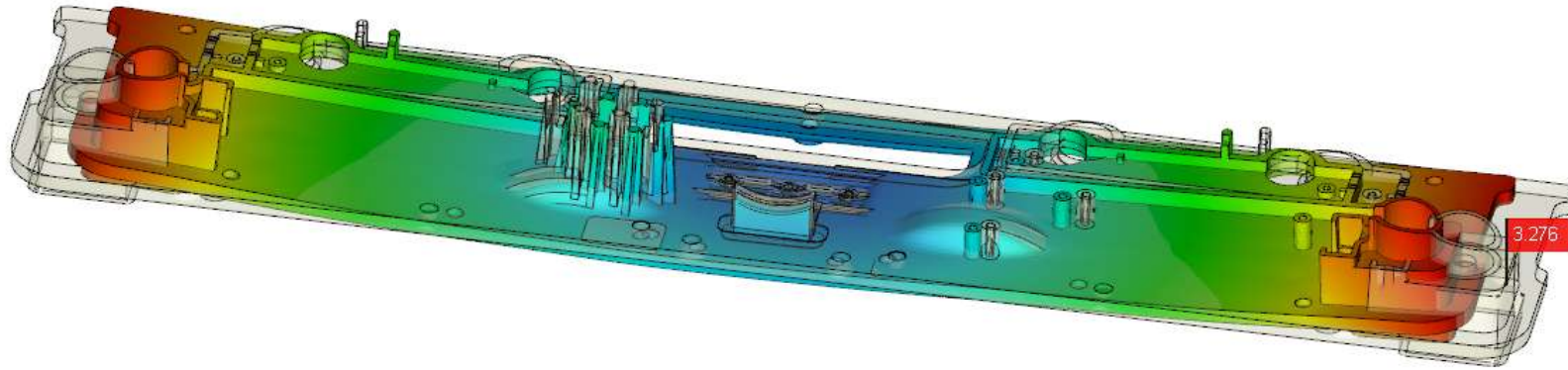


Process Condition	
Time	sec
Filling	2.200
Packing	10.000
Cooling	30.000
Mold Open	5.000
Cycle	55.200
Temperature	
Melt	260.000
Mold	85.000
Ejection	174.000
Air	25.000

Process Condition	
Time	sec
Filling	2.500
Packing	15.000
Cooling	15.000
Mold Open	10.000
Cycle	42.500
Temperature	
Melt	200.000
Mold	85.000
Ejection	179.000
Air	25.000



Ottimizzazione parametri di stampaggio in Moldex3D



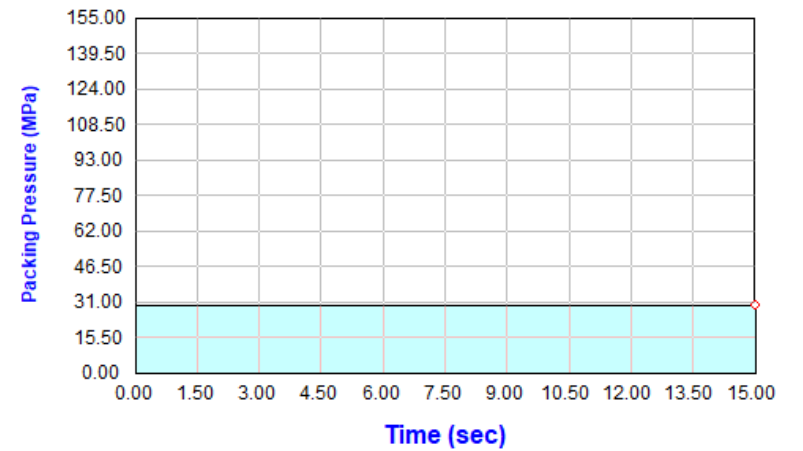
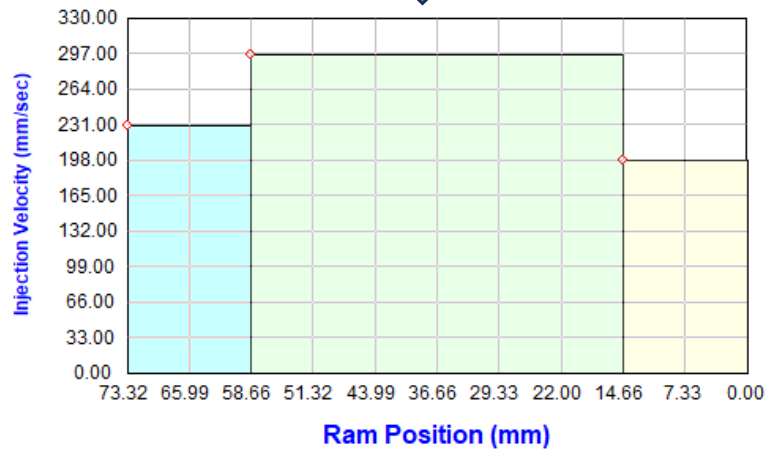
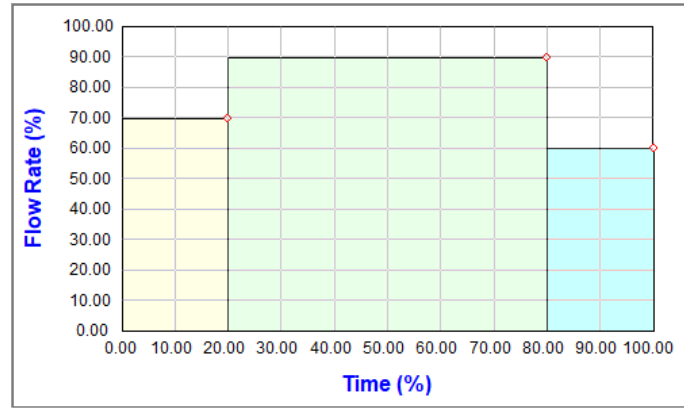
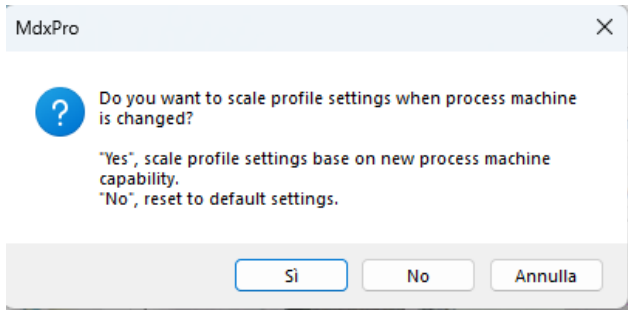
Passaggio da Modalità CAE a Modalità MACCHINA

The screenshot illustrates the transition from CAE to machine mode in Moldex3D. It features three main components:

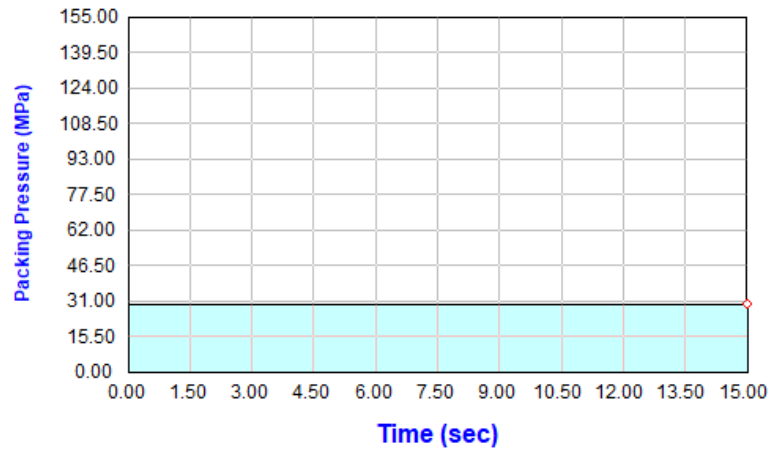
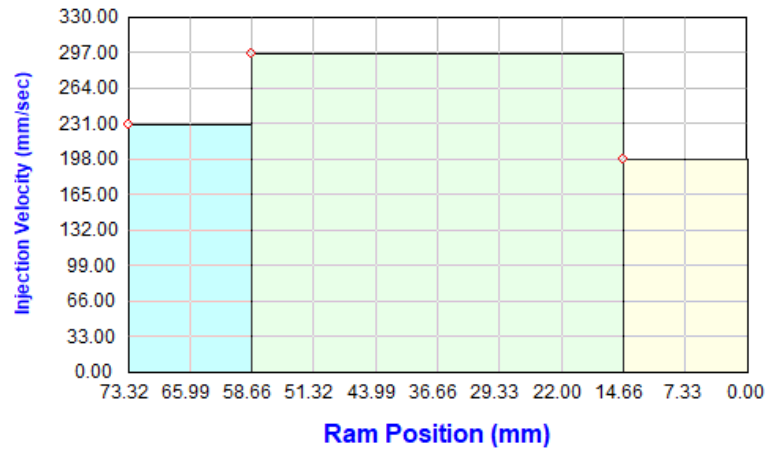
- Search Machine Dialog:** A window for selecting machine parameters.
 - Maker: FANUC
 - Item: Screw Diameter (selected)
 - Other options: Screw Stroke, Injection Pressure, Clamping Force.
 - Buttons: Search, Close.
 - Table with columns: Maker, Grade, Item.
- Screw List:** A vertical list of screw models, with 'S-2000i300B-STD' highlighted in blue.
- Screw Info Table:** A table providing technical specifications for the selected screw.

Item	Content	Unit
Maker	FANUC	
Grade	S-2000i300B-STD-68	
Last modified date (yy/mm/dd)		
Comment		
Screw Diameter	68	mm
Screw Stroke	260	mm
Shot Weight	850	g
Injection Pressure	155	MPa
Injection Rate	1198.45	cm ³ /sec
- 3D Model:** A 3D rendering of an injection molding machine with a red screw highlighted inside the barrel.

Passaggio da Modalità CAE a Modalità MACCHINA



Interfaccia Macchina ROBOSHOOT



2026/05/25 11:56
MOLD TEST MOLD

TIME ADJUST	DISPLAY LANGUAGE	UNIT
DATE: 2026 / 5 / 25	DISPLAY LANGUAGE: ENGLISH	POS/VEL: mm
TIME: 11 : 56 : 37		PRESSURE: Mpa
SCREEN SETTING		TEMPERAT: °C
SCREEN SAVER: 23 min		FORCE: kN
BRIGHTNES: 80		ROTATION: RPM
		INJECT SET: POSITION
		EXT ROTATE: ROTATION

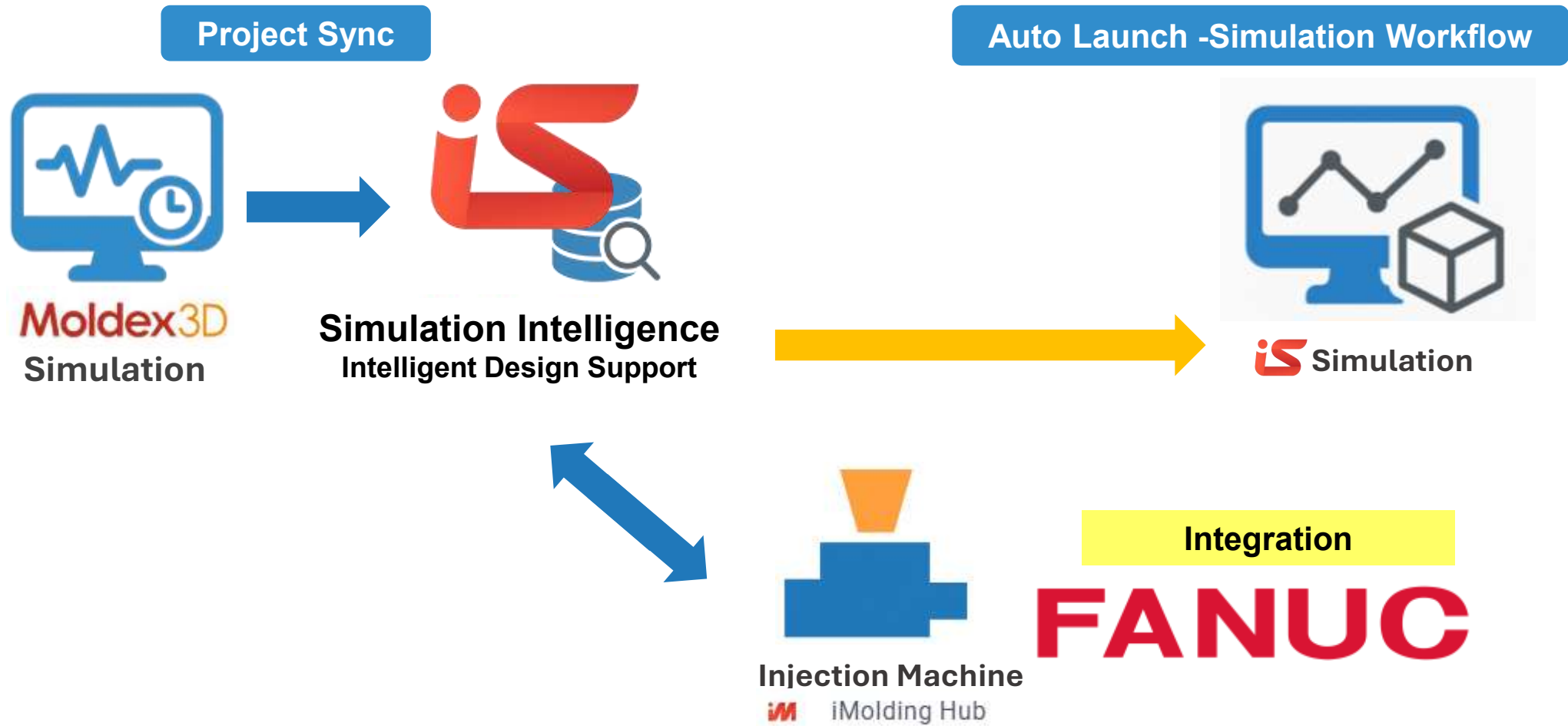
LAYOUT SETTING	OTHERS
INJECTION EXTRUDER SCREEN: B STYLE	AUTO DISPLAY OF ALARM WINDOW: N/A
CLAMP EJECT SCREEN: B STYLE	MOLDING DATA OUTPUT: DATA LIST
SIMPLE SETTING SCREEN: B STYLE	
WAVE GRAPH BACKGROUND COLOR: A STYLE	
LUJUDGE SET STYLE: WIDTH	
SETTING PROFILE(ACTUAL WINDOW): DISPLAY	
KEYBOARD LAYOUT: ABCDEF	

VISIBLE FUNCTION		SCREEN IMAGE OUTPUT		TOTAL
PRE-EJECTOR: HIDE		1: SIMPLE SETTING	2: INJECT EXTRUDER	8
		LARGE	LARGE	
		3: TEMPERATURE	4: CLAMP EJECT	
		LARGE	LARGE	

1 / 4

SEQ. SEL ECTION | DISPLAY SETTING | CUSTOM MENU SET | TEMPER PARAM | INPUT LOCK | MACHINE SETTING1 | MACHINE SETTING2 | COMMUNIC ACTION

E ora che ho la simulazione fatta e ottimizzata?



In iSLM...



Posso caricare i progetti studiati con Moldex3D

Imposto un Mold Tryout prendendo i dati dall'analisi CAE

Trasferisco i dati alla macchina

Registro i risultati della prova stampo

The screenshot displays the iSLM software interface, divided into two main sections: 'Mold Tryout Information' and 'Basic Process'.

Mold Tryout Information (Left Panel):

- Basic Information:** Includes fields for Mold Tryout Name (TD Prova indici), Solution (Gear), Original CAE Run (Run01/), Mold Tryout Work Order, Reference Data (CAE), Part Revision, Purpose, Time, Place, Member, Members External to the Solution, Tryout Cost, Man-hour, and Notes.
- Part Information:** Includes fields for Part Name, Part Size, Part Volume, and Runner Volume.
- Scientific Molding:** Includes Short Shot Validation, Injection Velocity Validation, Gate Seal Validation, Packing Pressure Validation, Cooling Time Validation, and Clamping Force Validation.
- Molding Record:** Includes Molding Conditions, Melt Temperature, Plasticizing, Decompression Before Dosage, Plasticizing, Decompression After Dosage, Mold Close / Open, and Molding Record.

Basic Process (Right Panel):

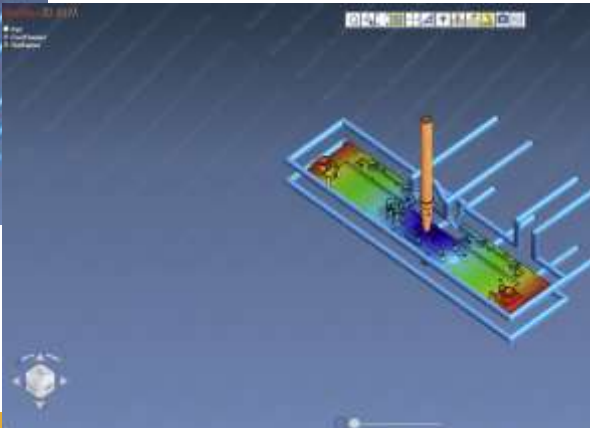
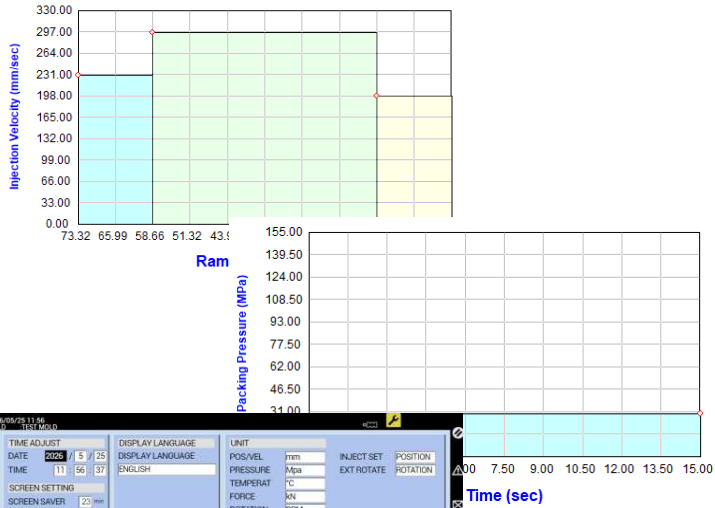
- Molding Conditions:** Includes a Comment field.
- Melt Temperature:**

Zone1	225°C
Zone2	220°C
Zone3	215°C
- Plasticizing:**
 - Decompression Before Dosage: Velocity (100mm/sec), Distance (20mm).
 - Plasticizing:

	Circumferential Speed	Pressure	Position
1	100RPM	10MPa	25mm
 - Decompression After Dosage: Velocity (100mm/sec), Distance (20mm).
- Mold Close / Open:**
 - Mold Closing:

	Velocity	Force	Position

Impostazione in macchina e fine tuning





Thank you