Product Catalogue / Die casting machines

INSPIRED BY 80 YEARS OF EXPERIENCE.
ENGINEERED BY IDRA.

Inspire



THE FUTURE OF DIE CASTING IS HERE

IDRA

WInspire

Die casting machines

WInspire is an inspirational, technical hybrid machine, designed to combine the best available technologies for energy efficiency, precise injection control, and an optimized total cost of ownership.

- **Real-time closed-loop control** with on board data management and injection curve storage
- Water cooled **servo-motor control**
- Idra Inject Computer
- Fully enclosed guard design



HIGH PERFORMANCE AND CONSISTENT QUALITY

OL CS WInspire machines, ranging from 300 tons to 900 tons of clamping force, are designed for high performance and constant product quality.

REMOTE DIAGNOSIS AND TROUBLE SHOOTING

The system is available to achieve remote monitoring, malfunction diagnostic and trouble shooting via remote internet connection. **IDRA** can provide the customized automatic die casting cell solutions according to the products of the customer, which improves production efficiency and reduces labor cost.



IDRA

Mechanical structure

The compact mechanical structure and **robust dimensions** have been designed using the same **criteria** and characteristics that have always guaranteed long life and reliability for the foundry.

Emphasis on the overall length of the machine ensures that the **required floor** space is equal to or better than the two platen product range.



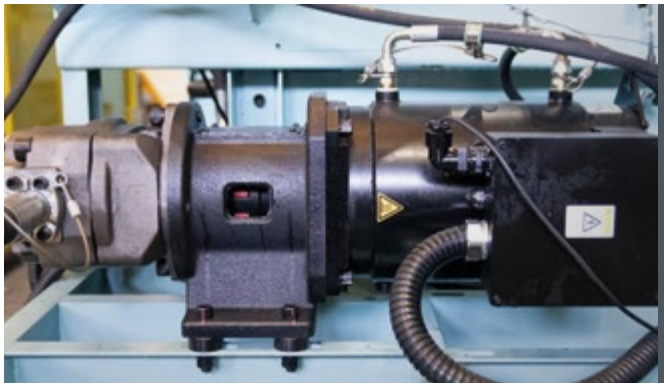
SMART INJECTION

The injection unit performance is managed through **real-time closed-loop control with on board data management and injection curve storage**, powered by the **Idra Inject Computer** — enabling full remote service access and seamless **MES integration**.



RELIABILITY AND STABILITY

IDRA toggle system, ingenious design of more than 80 years experience.



ENERGY SAVING

Equipped with advanced water cooled Modrol **servo-motor control**, saves 50% or more energy consumption and reduce operation cost.
The comparison is based on the same machine model equipped with a fixed displacement pump.

UNCOMPROMISING QUALITY

The **WInspire**' clean and effective design, high-end specifications and compact dimensions take die-casting into a new era. Optimised in every way, **WInspire** machine is the result of Clever Italian Design and State-of-The-Art Construction Materials. Cost effective manufacturing in a competitive world.

Last generation industrial multi-touch screen monitor

Automated machine settings



Improved User Experience

Intuitive User Interface

Digital button panel

Combination touchscreen and manual controls



NOVA

NEO OPERATOR VISUAL ASSISTANT

USER FRIENDLY CONTROLS

Inject Computer 3.2
(best in class machine management software). Eliminated push button Unit using Multiple touch screens. Cell controller Single point setting for integrated peripheral automation.

Technical information

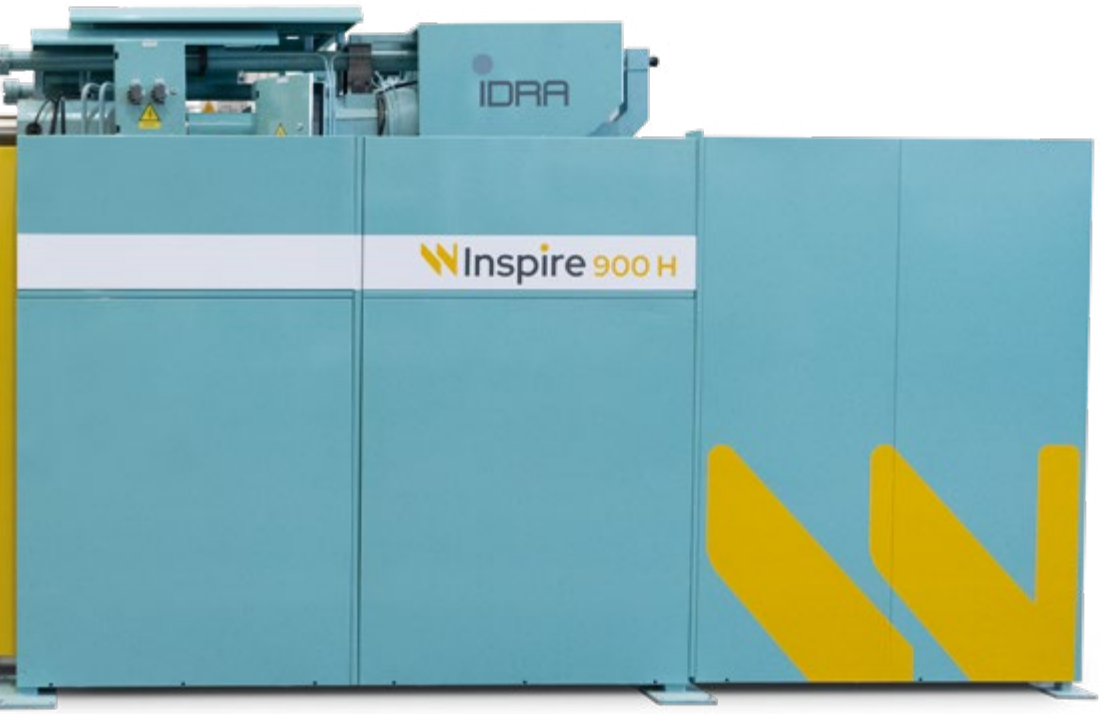


MODEL			WInspire 300	WInspire 420	WInspire 560	WInspire 700	WInspire 900
Clamping force		kN	3.000	4.360	5.850	7.500	9.200
Clamping stroke		mm	460	600	700	780	900
Die height	min.	mm	250	250	300	400	450
	max.	mm	650	700	800	900	1000
Platen dimensions (H x V)		mm	860x860	1.019x1.019	1.160x1.160	1.320x1.320	1.400x1.400
Space between tie bars		mm	560x560	669x669	760x760	860x860	910x910
Ejection force		kN	157	246	246	385	385
Ejection stroke		mm	105	140	165	175	200
Injection force (back pressure 0 bar)		kN	419	457	531	615	806
Injection stroke		mm	450	500	600	650	700
Plunger diameter		mm	50-70	60-80	70-90	80-100	80-110
Shot weight (Al alloy)		kg	1,6 - 3,2	2,6 - 4,7	4,3 - 7,1	6,1 - 9,5	6,5 - 12,4
Casting pressure (intens, back pressure 0 bar)		bar	2.100-1.050	1.600-900	1.350-800	1.200-750	1.600-800
Casting area		cm^2	140-285	270-480	430-730	625-1.000	575-1.150
Max. casting area (400 bar)		cm^2	750	1.090	1.463	1.875	2.300
Shot injection position		mm	0, -125	0, -200	0, -270	0, -300	0, -350
Working pressure		bar	160	160	160	160	160

The technical information and pictures shown are subject to change and may be modified and/or improved as considered necessary.

WInspire - The Future of Die Casting

"Innovation doesn't happen by chance.
It is engineered."





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