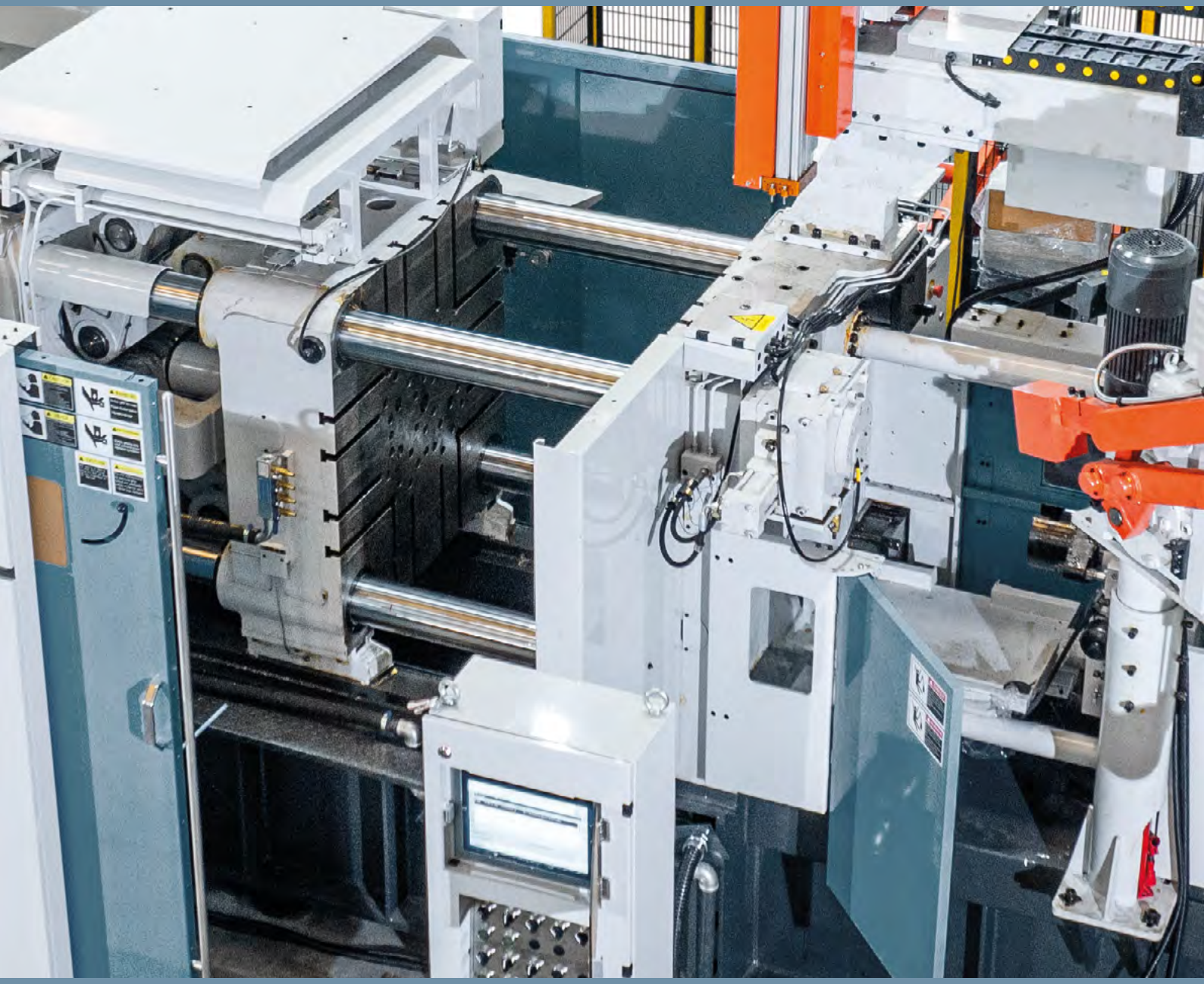
Product Catalogue / Die casting machines

IT REPRESENTS A NEW EXPERIENCE IN DIE CASTING FROM MANY POINTS OF VIEW

DC PRESS



THE FUTURE OF DIE CASTING IS HERE

IDRA

XPRESS

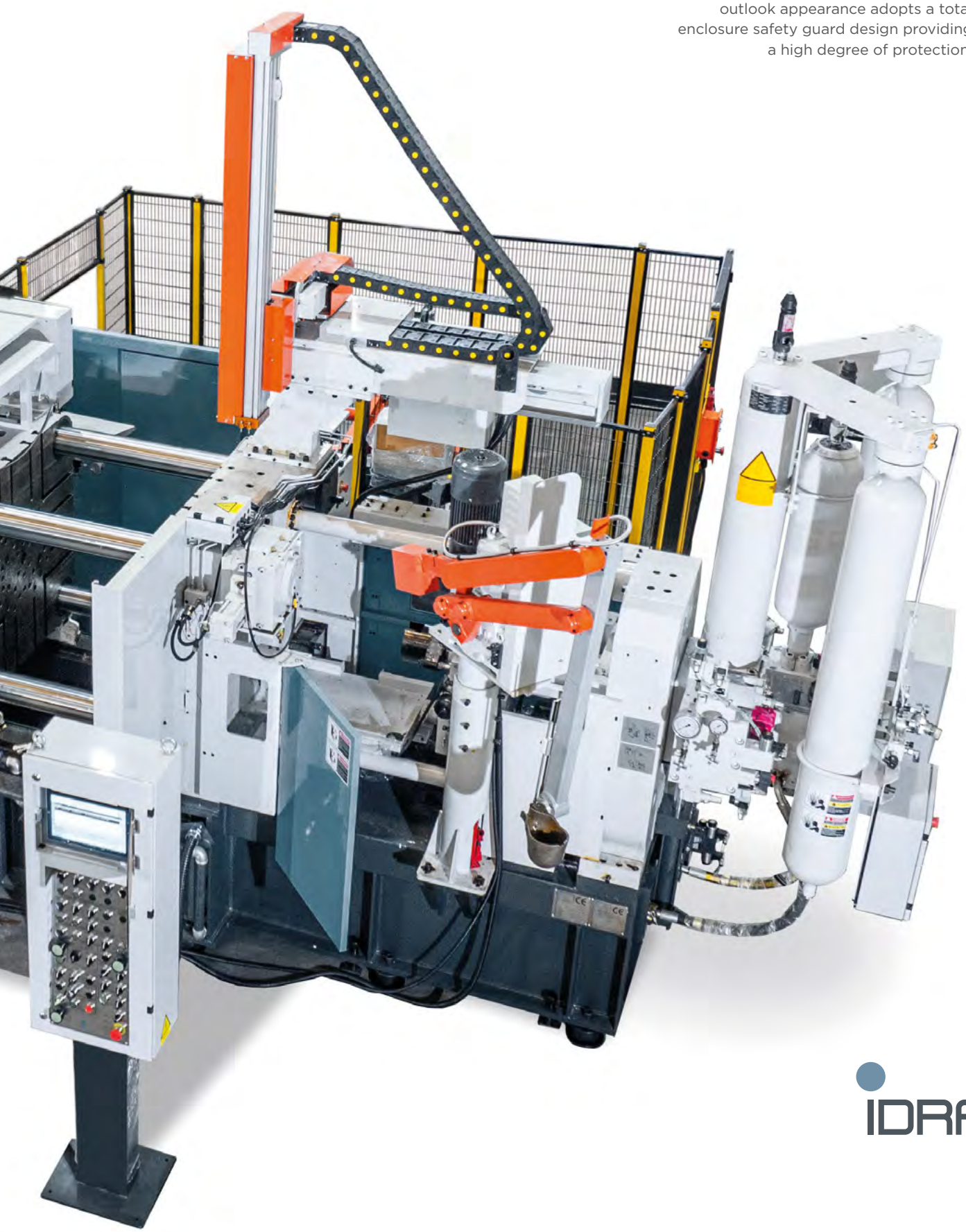
Die Casting Machines

XPress series intelligent die casting machine, clamping force ranges from 300 to 900 ton, and can provide Italy's cutting-edge technology to more customers. Stable, precise and efficient production enhances the competitiveness of its users.



WORLDWIDE RECOGNIZED SAFETY STANDARD

The machines comply with CE standard requirement. A clean and modern design outlook appearance adopts a total enclosure safety guard design providing a high degree of protection.



IDRA

XPress, intro

Conceived and designed in Italy, **XPress** pushes the boundaries, with many technological innovations & world class specifications, in one compact solution, beautifully designed to have the same high performance of larger and more costly presses.



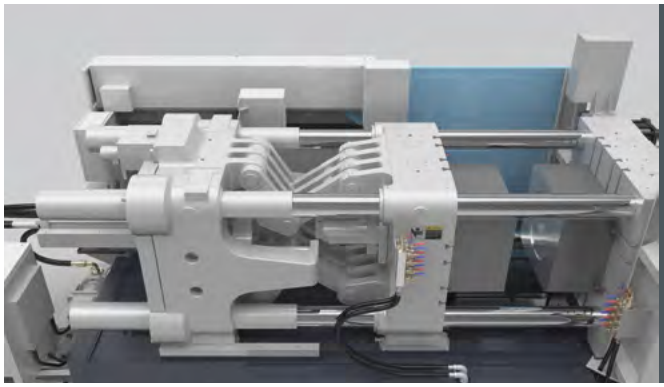
SMART INJECTION

The injection unit of the machine adopts the **IDRA** proven design, providing a high performance injection, resulting in more accurate casting pressure, more stable injection speed, and easier to operate.



RELIABILITY AND STABILITY

IDRA toggle system, ingenious design of more than 70 years experience.



ENERGY SAVING

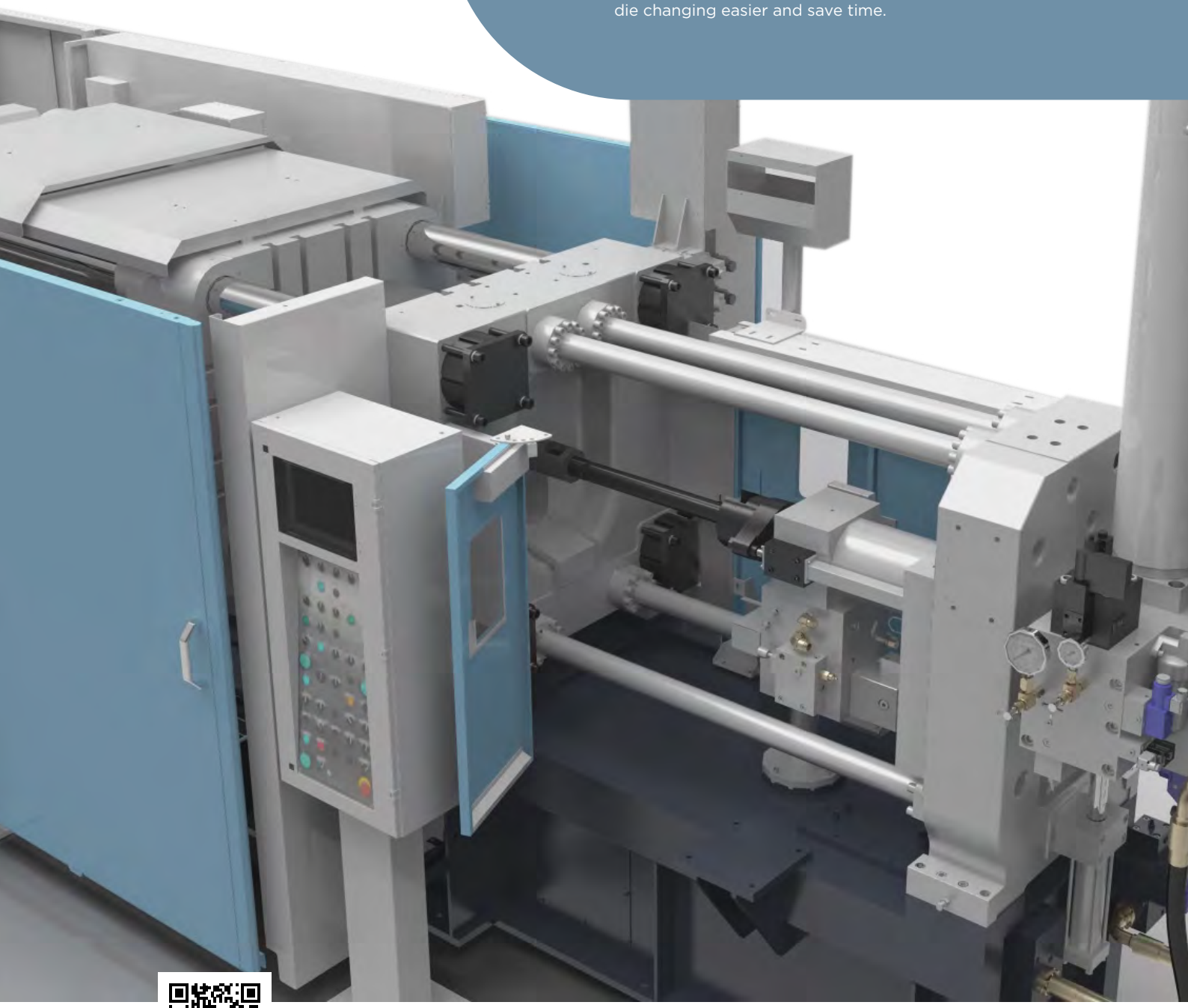
Equipped with energy saving system, saves 50% or more energy consumption and reduce operation cost. The comparison is based on the same machine model equiped with a fixed displacement pump.

UNCOMPROMISING QUALITY

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

QUICK DIE CHANGE (optional)

Nowadays production requires high efficiency, demanding die changes in the shortest possible time. Optional hydraulic tie bar extraction device can pull tie bar out completely, thus the tie bar will not be damaged whilst changing the tool. Optional hydraulic die clamping devices can make die changing easier and save time.

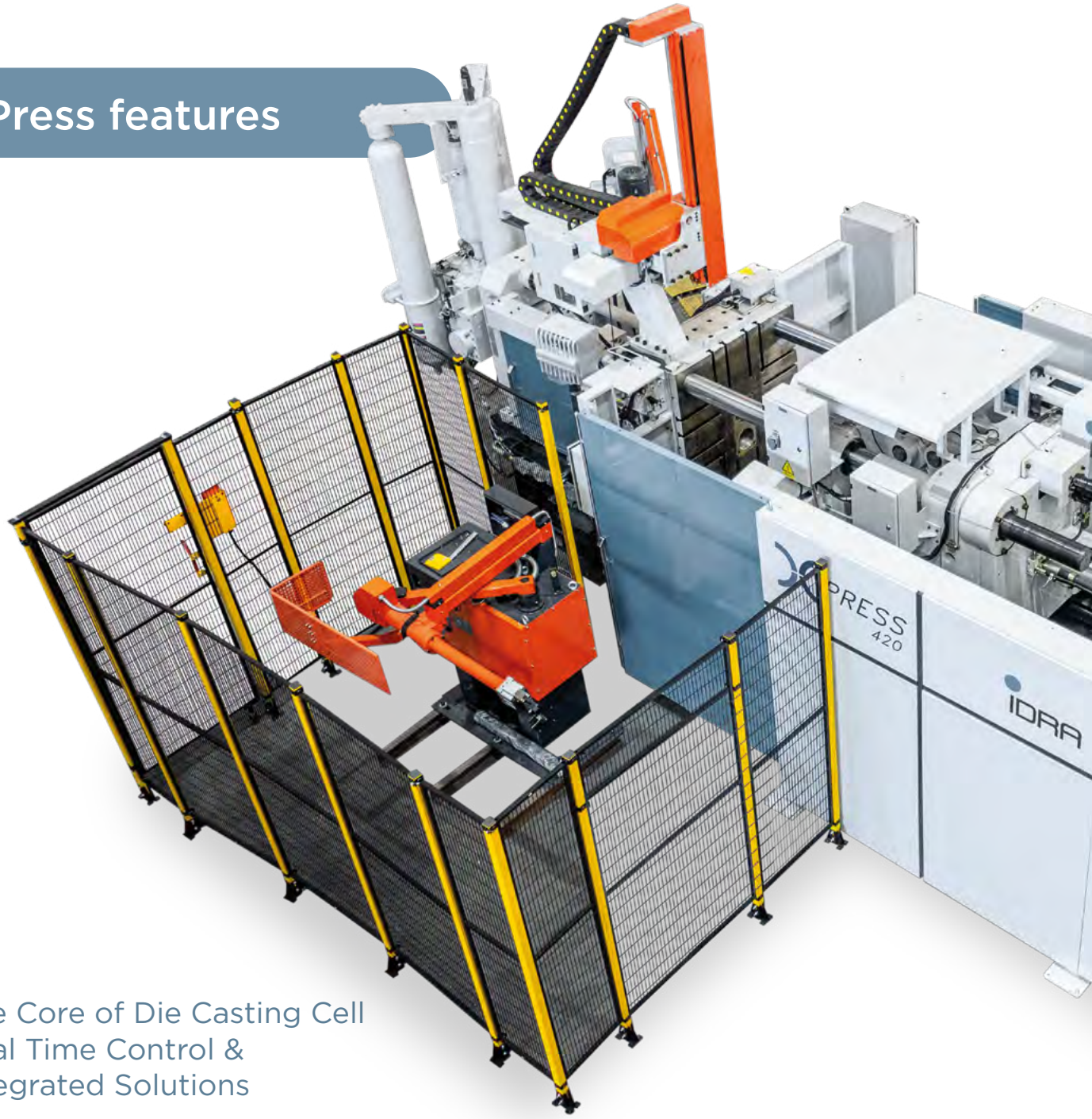


WATCH THE VIDEO

XPRESS - QUALITY AND INNOVATION

XPress pushes the boundaries with many world-class technological innovations and specifications in one compact, beautifully designed solution.

XPress features



The Core of Die Casting Cell Real Time Control & Integrated Solutions

CONTROL TECHNOLOGY FOR CASTING HIGH QUALITY COMPONENTS

IDRA unique real-time control system, gives each die casting process excellent quality and casting consistency. The intelligent process control system greatly prolongs the service life of the die.

IDRA INJECTION UNIT ENSURES RELIABLE PRODUCTION

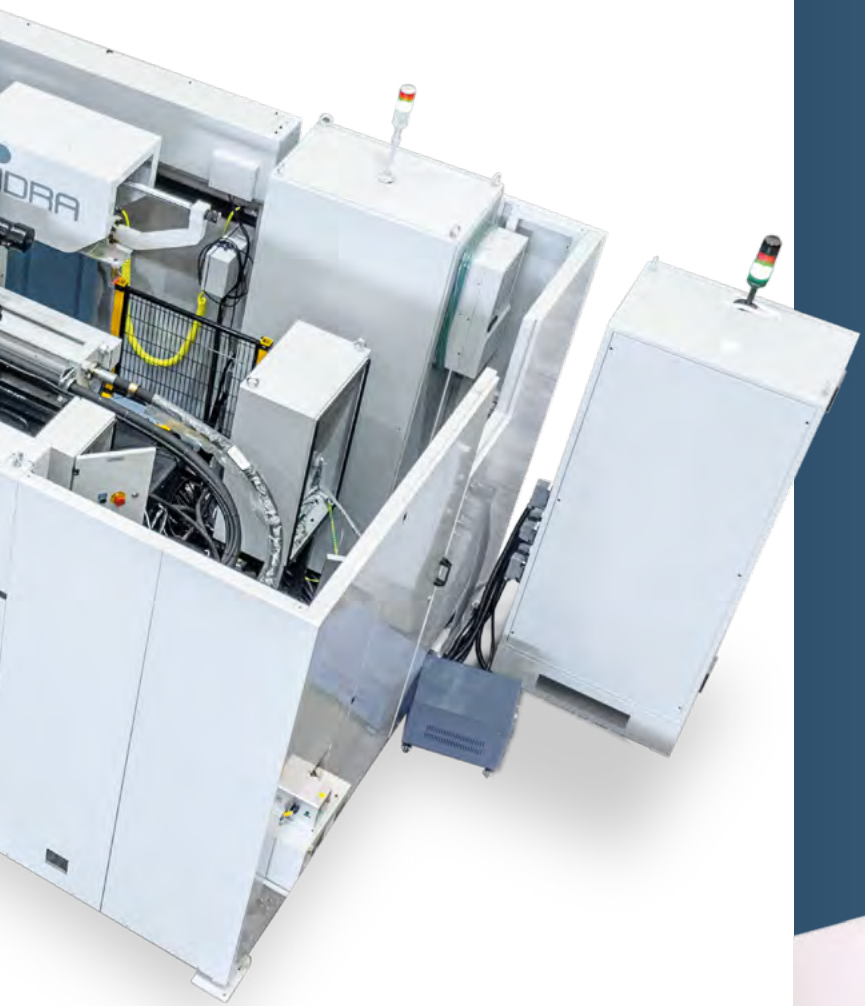
Injection control technology improves injection performance in the way of pressure & speed control precision. High dynamic injection force ensures the best metal filling. with a precise and stable casting pressure, complemented by convenient adjustment.

USER FRIENDLY OPERATION SYSTEM

The Operator interface is intuitive and easy to understand, allowing operators to set-up the die casting machine and save parameters easily. Integrated process and diagnostics, achieve professional casting solution.

SPC QUALITY MONITORING

Large capacity data storage system.
Powerful function, clear and accurate injection process curve display.
Major Process Parameters analysis for SPC and quality trend check.



AUTOMATIC DIE CASTING CELL

Provide customized automatic die casting cell solutions to achieve various automatic production processes and enable the traceability of products.

SPRAYER

High-atomization nozzles improve the surface quality of die casting parts. Flexible and precise grouping control, effectively reduce the consumption of release agent and compressed air. Sprayer head can be customized according to the die shape, which achieves fixed-point quantitative spraying, which greatly improves production efficiency.

TRIM PRESS

Energy saving servo system can save energy consumption and reduce the trimming cycle time. The trim press can fulfill requirements of different applications.

ENERGY SAVING AND ENVIRONMENTALLY FRIENDLY

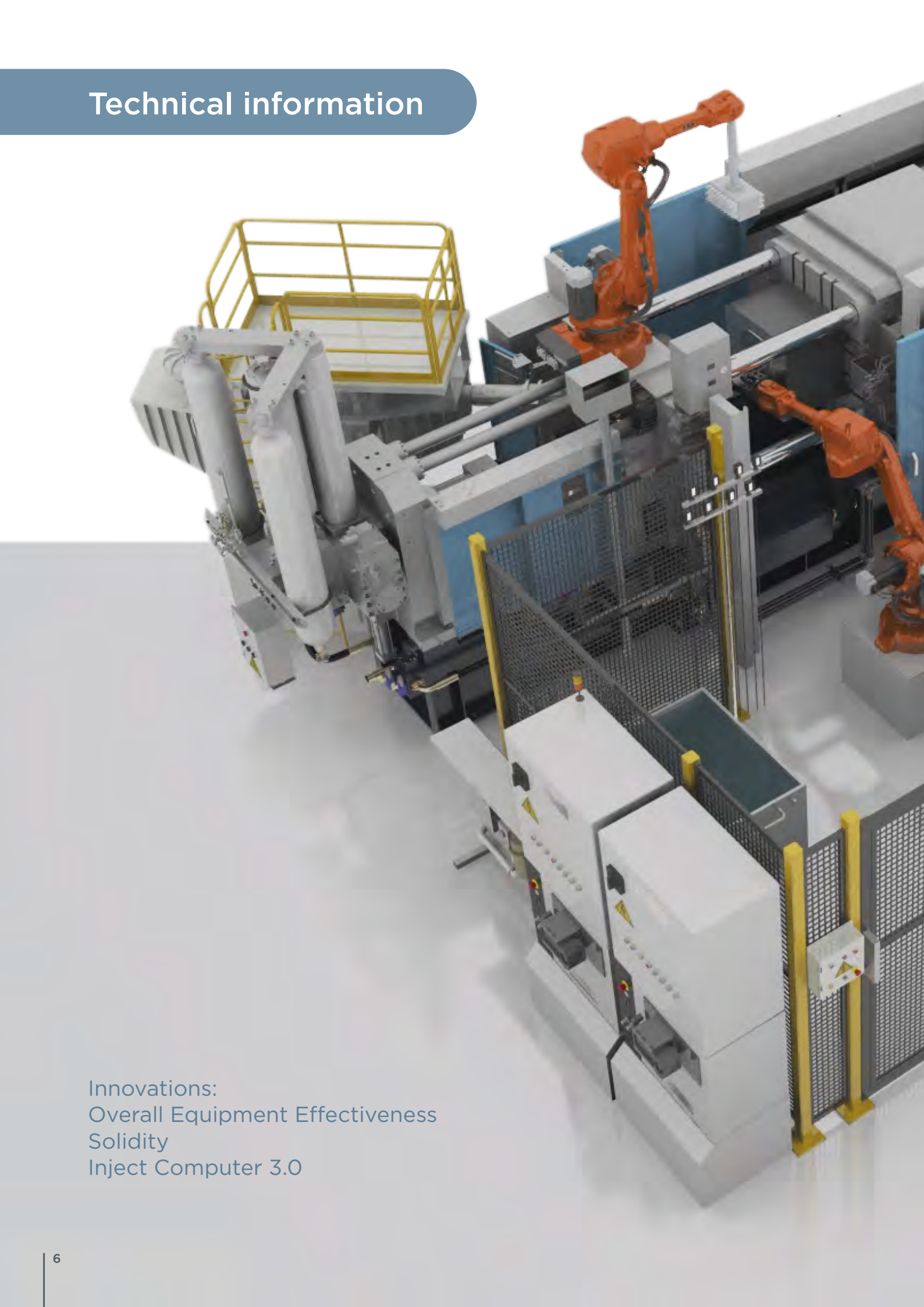
The die casting cell uses energy saving system, which can greatly save energy consumption. The fume extraction system and die releasing agent collection system can reduce the waste discharge pollution.

REMOTE DIAGNOSIS AND TROUBLE SHOOTING

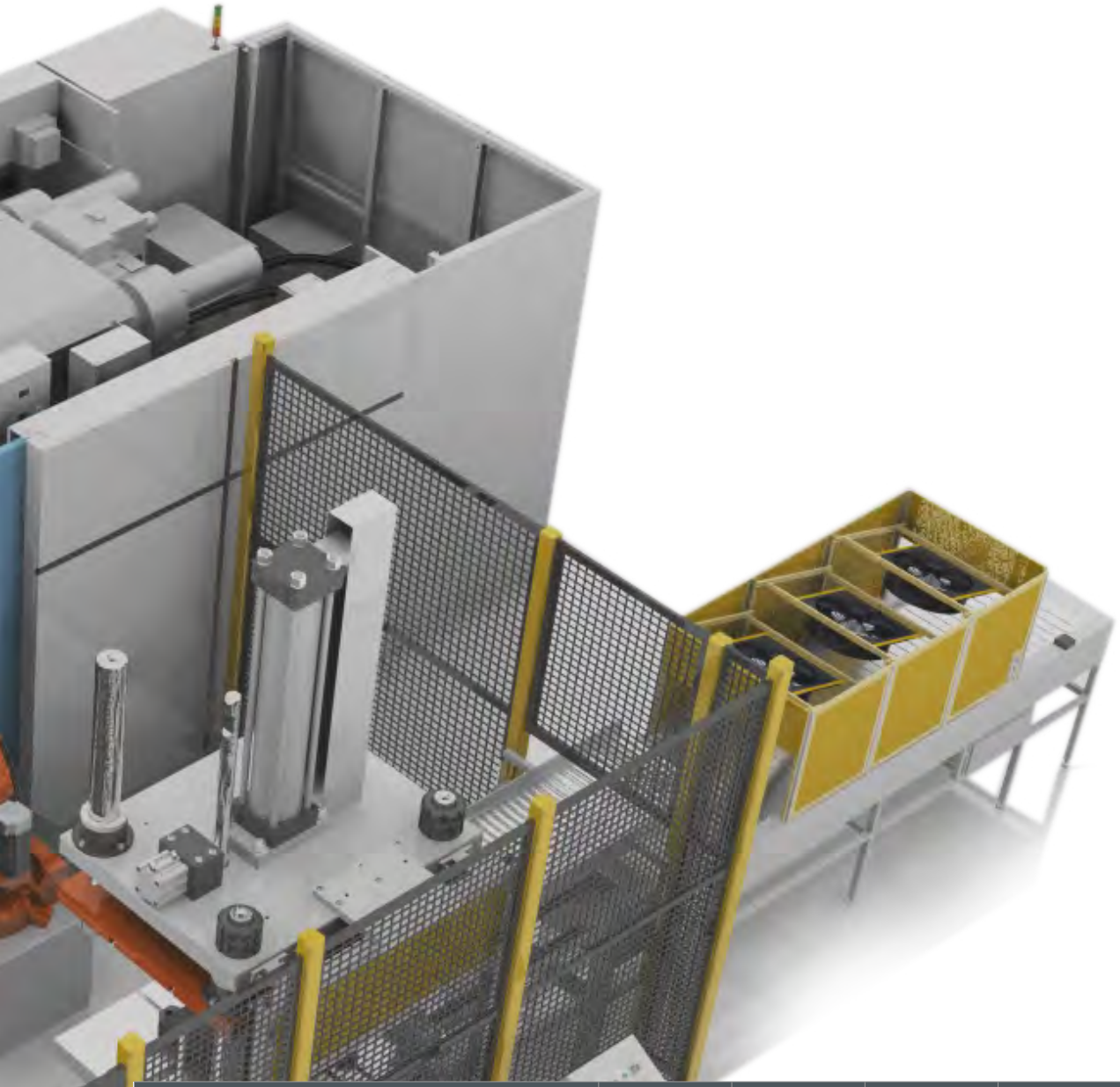
The system is available to achieve remote monitoring, malfunction diagnostic and trouble shooting via remote internet connection. **IDRA** can provide the customized automatic die casting cell solutions according to the products of the customer, which improves production efficiency and reduces labor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



Technical information

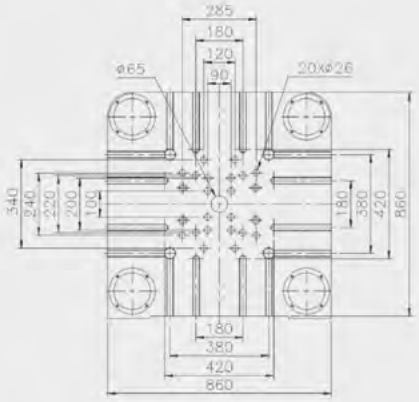


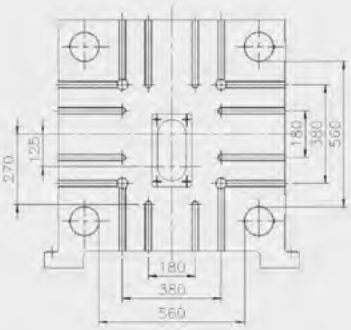
Innovations:
Overall Equipment Effectiveness
Solidity
Inject Computer 3.0



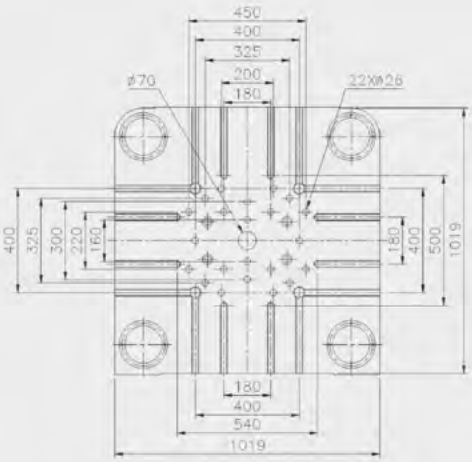
MODEL			XPress 300	XPress 420	XPress 560	XPress 700	XPress 900
Clamping force		kN	3.000	4.360	5.850	7.500	9.200
Clamping stroke		mm	460	600	700	780	900
Die height	min.	mm	250	250	300	400	450
	max.	mm	650	700	800	900	1000
Platen dimensions (H x V)		mm	860x860	1.019x1.019	1.160x1.160	1.320x1.320	1.400x1.400
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	160-80
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

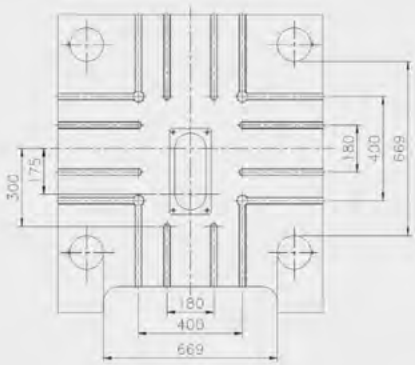
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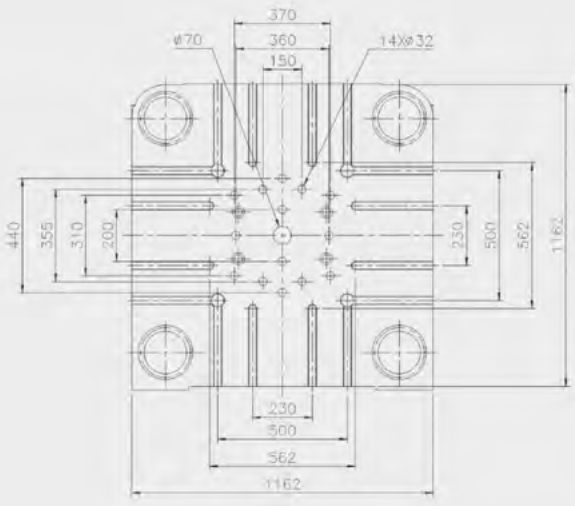


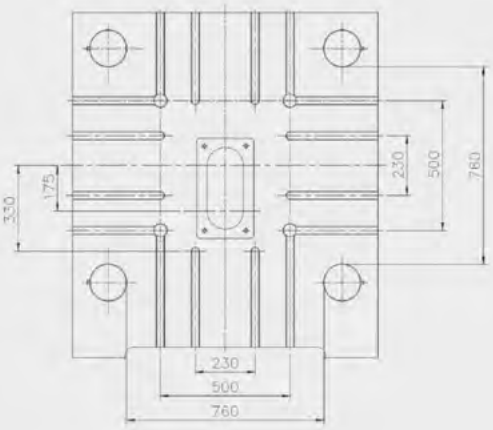
XPress 300



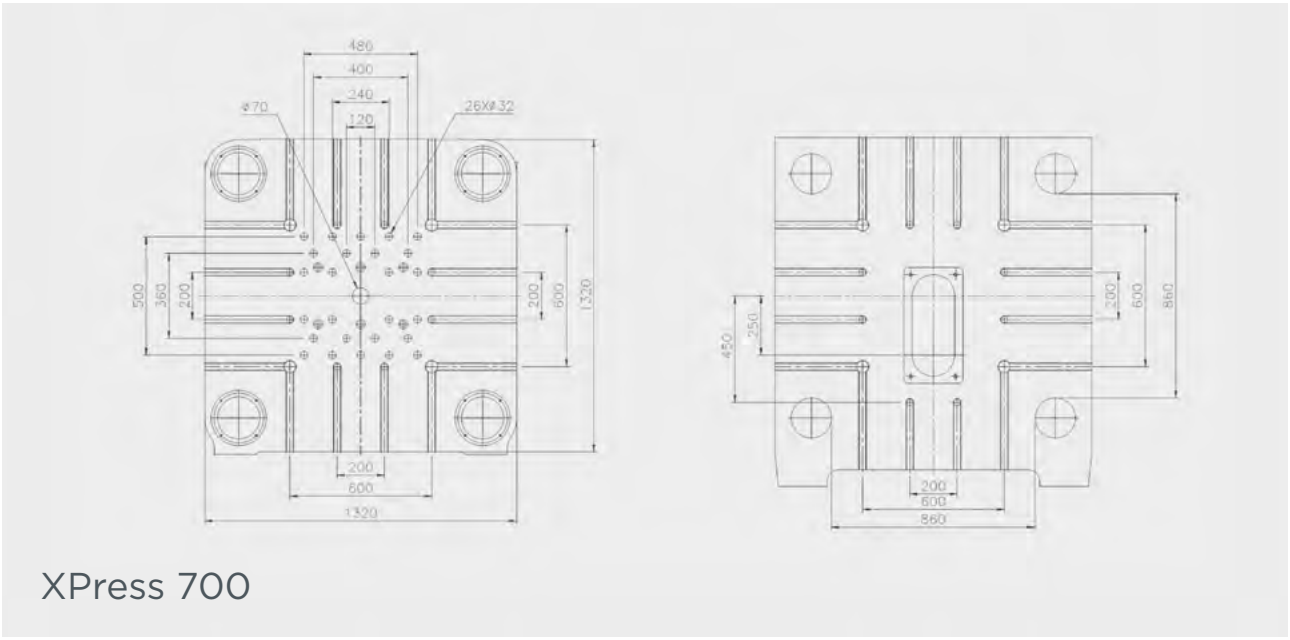


XPress 420

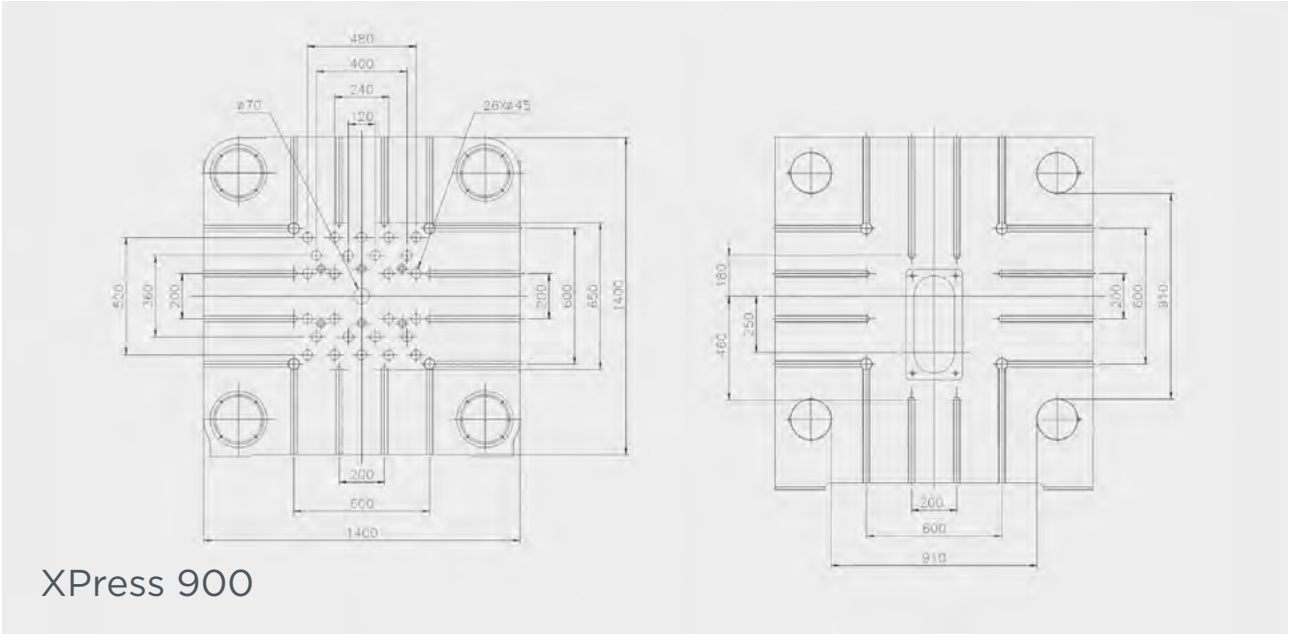




XPress 560



XPress 700



XPress 900



EN

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