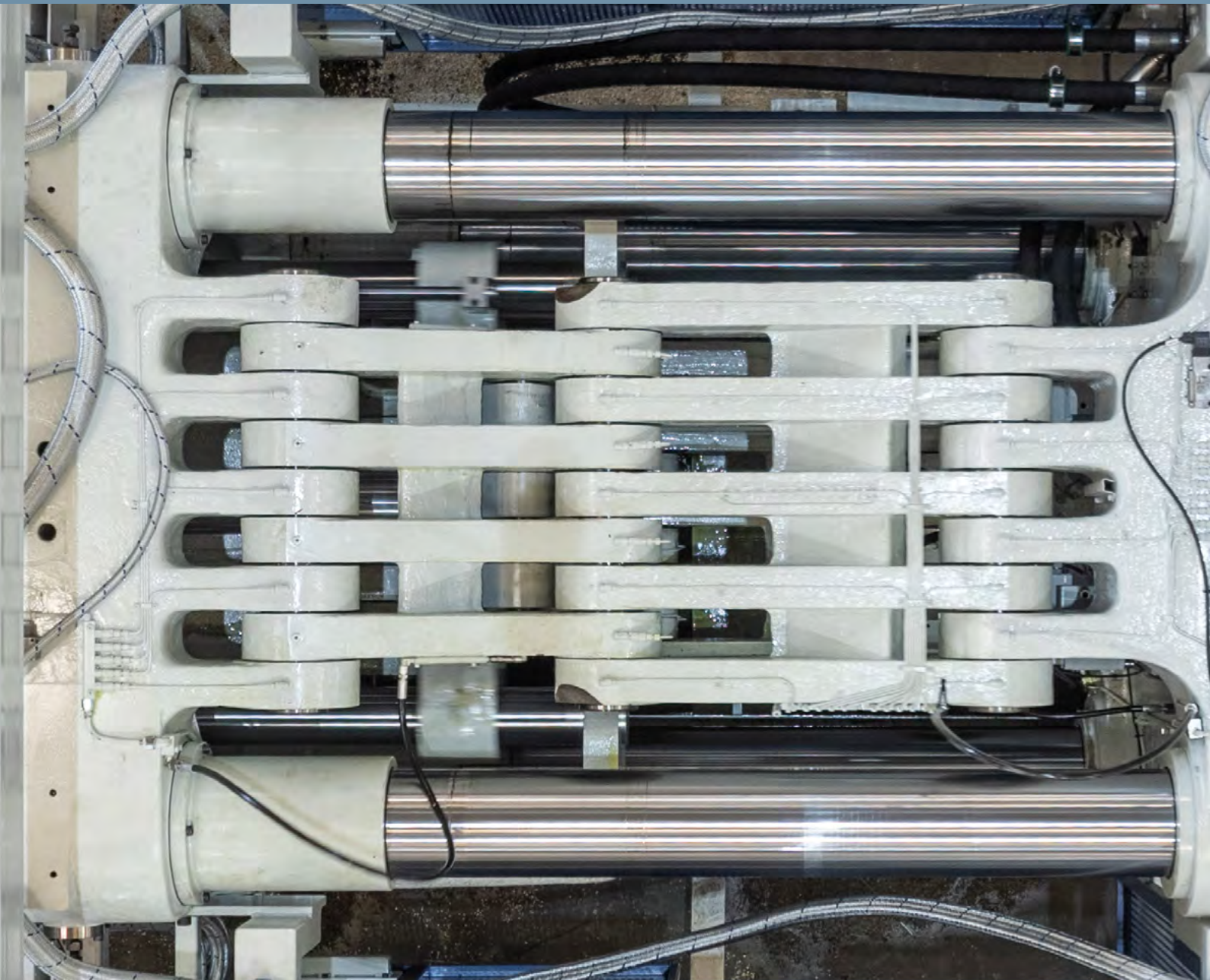


Product Catalogue / Die casting machines

DESIGNED FOR HIGH PERFORMANCE  
AND CONSTANT PRODUCT QUALITY

OLCS



THE FUTURE OF DIE CASTING IS HERE

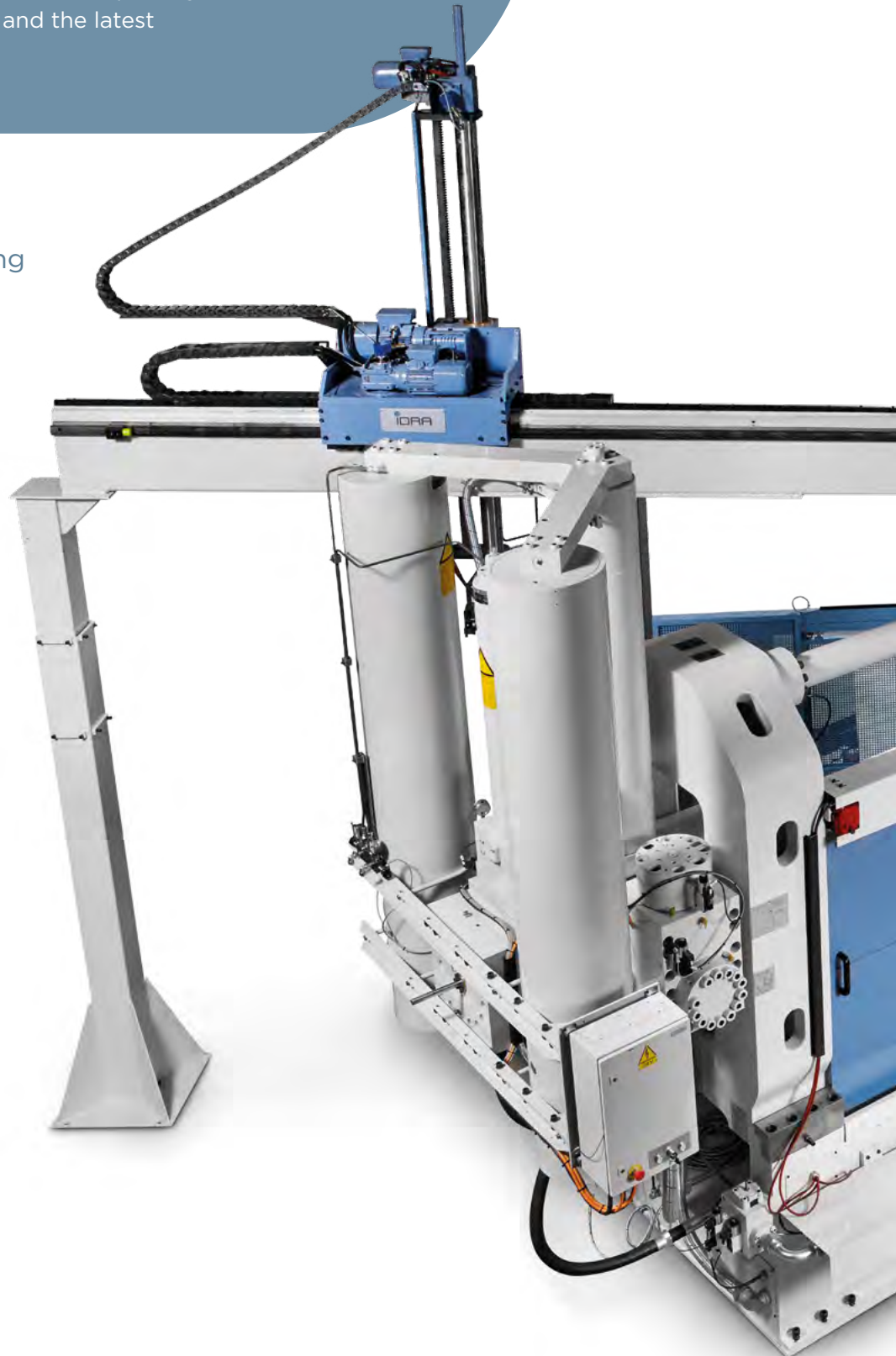
IDRA

# OL CS

## Die casting machines

Continuing the **IDRA** reputation for innovation and development the **OL CS** takes 80 years of industry experience and condenses it in to one package designed for foundry needs and the latest production requirements.

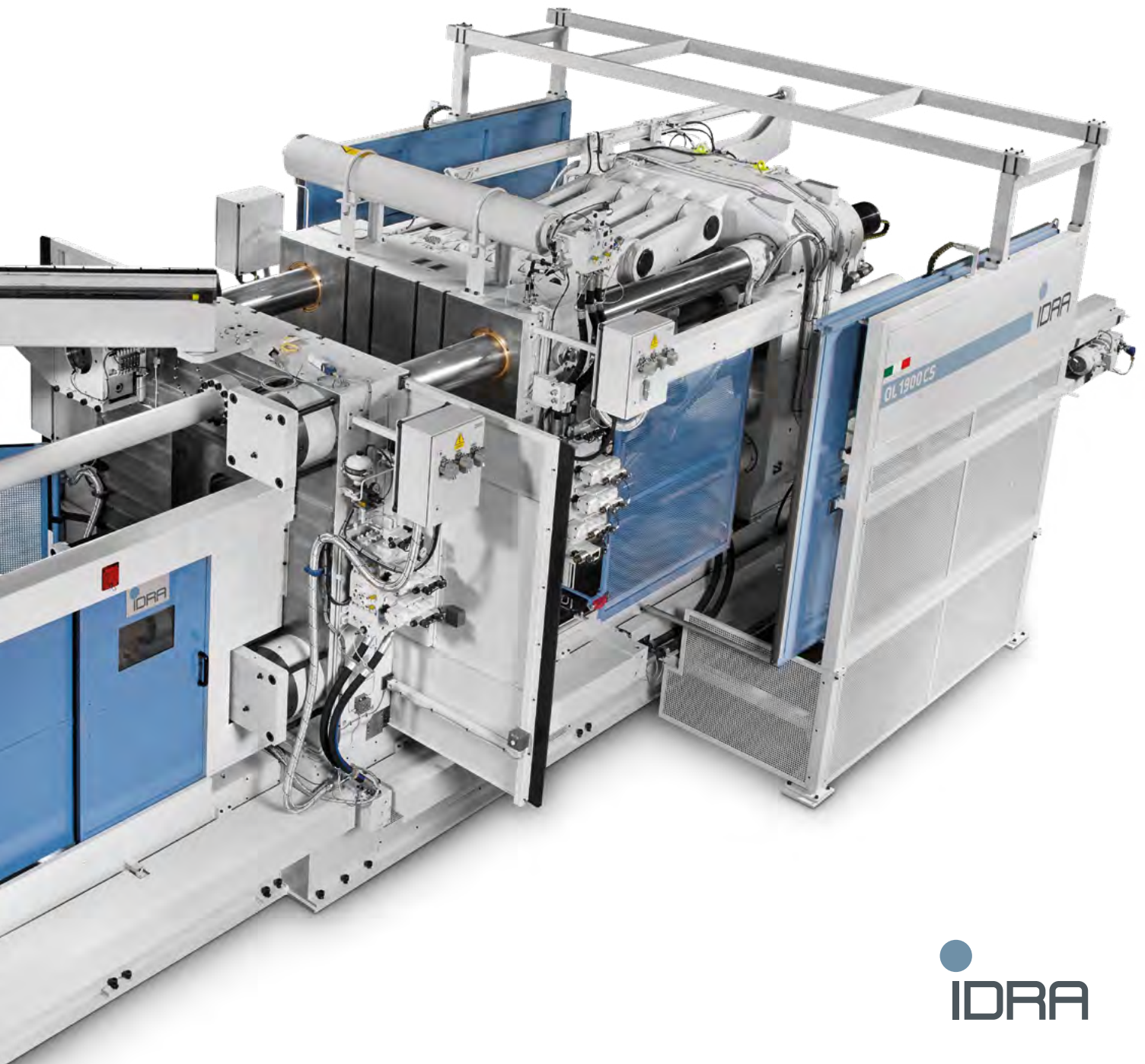
- Closed loop pressure control
- Temposonic measuring
- Rapid Die Change
- Laser Platen foot measurement
- Analog fluid control





## HIGH PERFORMANCE AND CONSISTENT QUALITY

**OL CS** machines, ranging from 420 tons to 4200 tons of clamping force, are designed for high performance and constant product quality. **IDRA** is constantly developing **OL CS** range, with innovative solutions designed to answer all the latest production requirements.



# 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.



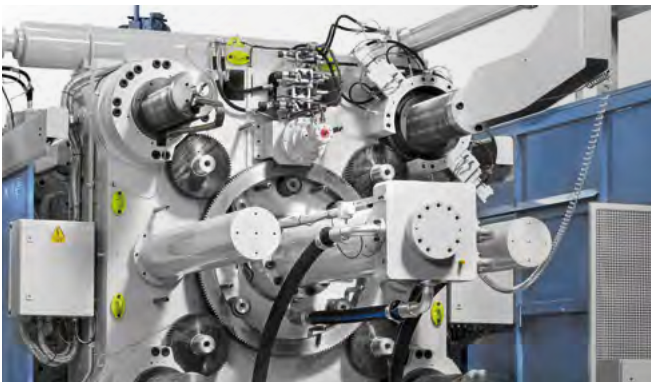
## SOLIDITY AND EFFICIENCY

Integrated high flow hydraulic manifold blocks and increased pump capacity ensure that the fast cycle times required can be achieved, whilst energy cost can be kept to a minimum by the use of energy efficient motors with speed control. The drastic reduction of external pipe work reduces the need for maintenance and minimises the risk of fluid loss.



## QUALITY AND PRODUCTIVITY

New OL CS series gives excellent performance of the injection, combining high dynamic force with strong intensification for final pressure and complete flexibility of setting to give precise, stable production parameters. High integrity components for the automotive sector, including structural and power train, can be produced with the highest guaranteed quality and productivity.



## ACCESSIBILITY

Due to the innovative mechanical design all groups of the machine take into consideration the need for easy access for maintenance procedures. Closed loop multi point control of the injection velocity and pressure, programming and control of process parameters give the die caster all of the necessary tools required for the most demanding parts.

## OVERALL EQUIPMENT EFFECTIVENESS

**OEE** (Overall Equipment Effectiveness) identifies the percentage of manufacturing time that is truly productive. **OL CS** improves Quality, Performance and Availability (reducing Stop Time).



## IC 3.0

### INJECT COMPUTER 3.0

The award winning **Inject Computer 3.0** offers the best in class machine management software. Incorporating a **multi touch screen** and **3D diagnostics** with **single point setting** for integrated peripheral automation. Available with machine tablet allowing portable access for diagnostics and management of the production cell.

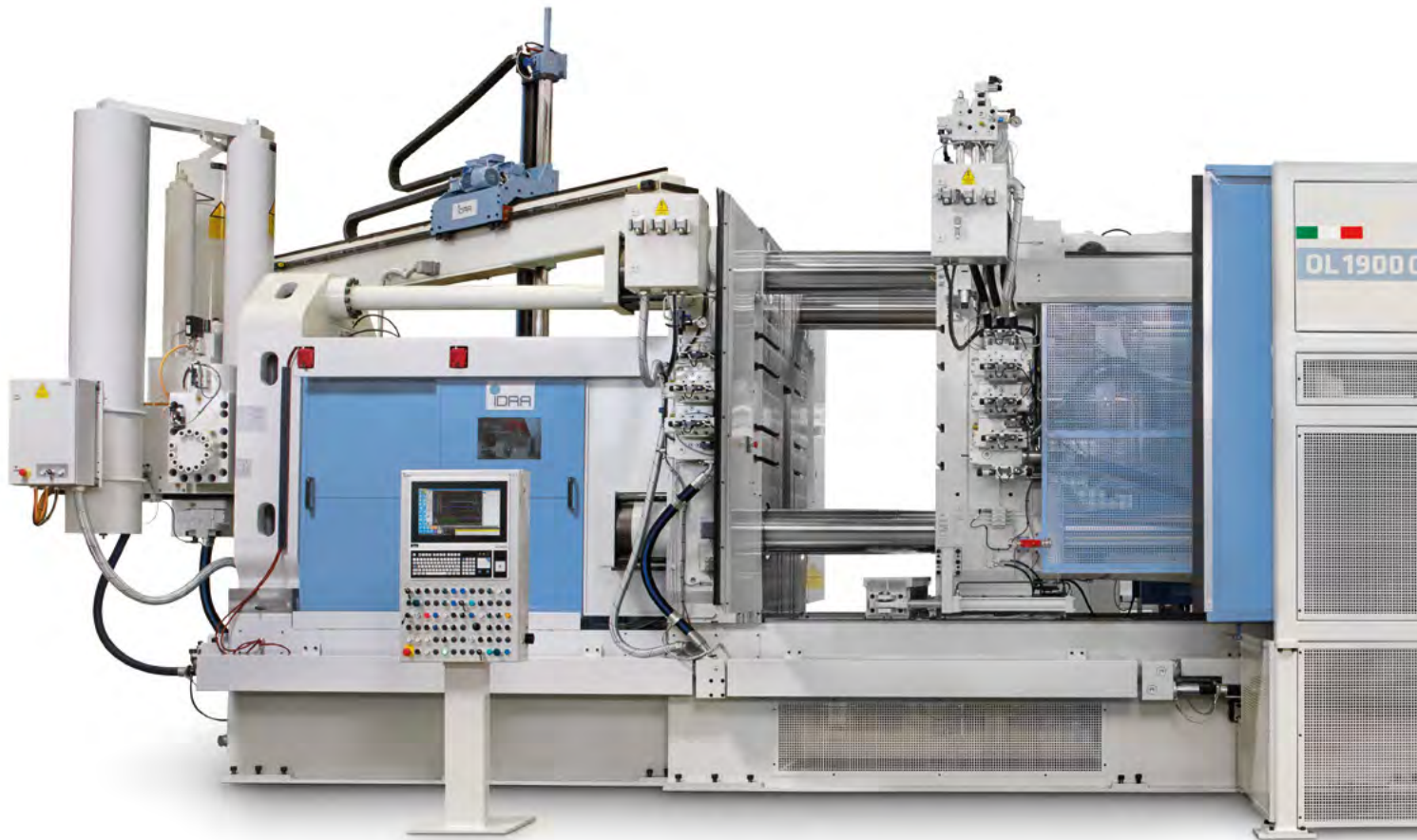


**WATCH  
THE VIDEO**

### OLS CS INJECTION CONTROL SYSTEM

IDRA's new OLS injection is equipped as standard with Parker closed loop meter out proportional valve, which has the same technical characteristics and response time as a servo valve.

# Technical information



MODEL		OL 420 CS	OL 560 CS	OL 700 CS	OL 900 CS	OL 1100 CS	
<b>Force</b>							
Clamping force	kN	4.360	5.850	7.500	9.200	11.000	
	ton	445	597	765	938	1.122	
Injection force with 20 bar counterpressure	kN	417	483	550	728	828	
Ejection force	kN	246	246	385	385	483	
<b>Technical performance data</b>							
Die height	max	mm	700	800	900	1.000	1.050
	min	mm	250	300	400	450	450
Platens dimensions (HxV)	mm	970x970	1.160x1.160	1.300x1.300	1.400x1.400	1.620x1.620	
Tie bar spacing	mm	620x620	760x760	840x840	910x910	1.000x1.000	
Tie bar diameter	mm	130	140	165	180	200	
Movable platen stroke	mm	600	700	780	900	960	
Ejection stroke	mm	140	165	175	200	230	
Max. shot weight (Al alloy)	kg	4	6	9	13	17	
Max. projected area (400 bar on metal)	cm <sup>2</sup>	1.112	1.491	1.912	2.346	2.804	
<b>Machine technical data</b>							
Dry Cycles (as per DIN 24480)	n/1'	3,5	3	2,9	2,7	2,5	
Pumps motors power	kW	30	37	45	45	55	
Machine weight	ton	18	24	33	47	56	
Machine dimensions (L x W x H)	m	6,9x3,1x3,0	7,6x3,4x3,1	8,1x3,4x3,2	9,0x3,7x3,8	9,6x3,9x4,2	

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



## FORECO, FOREVER

Forward thinking Eco Complimentary Commitment to the world we live in: it's **IDRA's** mission to work with a green eye on the future, in order to hand our world to the next generation better than we found it.

- 1 Low number of rejects in production.
- 2 High efficiency and optimised energy use.
- 3 Creating a sustainable foundry environment, right from the design stage.
- 4 It contributes to lower production costs.

OL 1300 CS	OL 1600 CS	OL 1900 CS	OL 2200 CS	OL 2700 CS	OL 3200 CS	OL 3700 CS	OL 4200 CS
13.250	17.100	19.600	23.000	28.100	32.500	37.700	43.200
1.351	1.743	1.998	2.345	2.864	3.313	3.843	4.404
976	1.080	1.210	1.354	1.731	1.910	2.061	2.255
630	630	688	688	786	786	1.100	1.100
1.100	1.200	1.450	1.550	1.750	1.900	2.100	2.100
450	450	600	700	800	900	1.100	1.100
1.730x1.730	1.850x1.850	1.960x1.960	2.120x2.120	2.380x2.380	2.640x2.640	2.840x2.840	2.900x2.900
1.100x1.100	1.160x1.160	1.250x1.250	1.345x1.345	1.500x1.500	1.720x1.720	1.770x1.770	1.850x1.850
215	240	250	280	300	330	350	370
1.070	1.200	1.400	1.400	1.500	1.600	1.700	1.800
230	255	280	280	350	350	400	400
19	21	28	36	42	59	79	84
3.377	4.358	4.995	5.861	7.161	8.282	9.608	11.009
2.5	2.2	2.1	1.9	1.7	2.1	1.7	1.5
2x37	2x37	2x45	2x55	2x55	2x90	2x110	2x110
65	85	98	113	150	205	227	270
10,3x3,7x4,0	10,8x4,1x4,2	11,7x4,2x4,4	12,2x4,5x4,9	12,7x5,4x5,1	14,5x5,6x5,3	15,2x5,8x5,6	15,7x5,9x5,7

EN

[www.idragroup.com](http://www.idragroup.com)

**IDRA S.r.l.**

Via dei Metalli, 2  
25039 Travagliato (BS)  
Italy  
Tel. +39 030 2011 1  
Fax +39 030 2002 345  
sales.italy@idragroup.com

**IDRAPRESSE MEXICO S. de R.L. de C.V.**

Carretera Saltillo 308 Int. 7,  
Provienda del Poniente Sector Uno  
66129, Santa Catarina  
Nuevo León, Mexico  
Tel. +52 1 81 3581 4504  
sales.mexico@idragroup.com

**IDRA PRESSEN GmbH**

Eisenbahnstrasse 6  
73630 Remshalden Grunbach  
Deutschland  
Sales: +49 163 6364 802  
Service: +49 163 6364 801  
sales.germany@idragroup.com

**IDRA CHINA LTD.**

No. 42 MinYi Road  
SongJiang Area  
201612 Shanghai  
P.R. China  
Tel. +86 21 68751216  
sales.china@idragroup.com  
www.idrachina.com

**IDRA NORTH AMERICA INC.**

1510 North Ann St.  
Kokomo, Indiana 46901  
USA  
Tel. +1 765 459 0085  
Fax +1 765 457 0095  
sales.usa@idragroup.com



Scan to access  
our catalogs  
in all languages.



Management  
System  
ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018  
[www.tuv.com](http://www.tuv.com)  
ID 900004771



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



OLCS\_EN\_26112025\_01\_26