

Your project is our main project

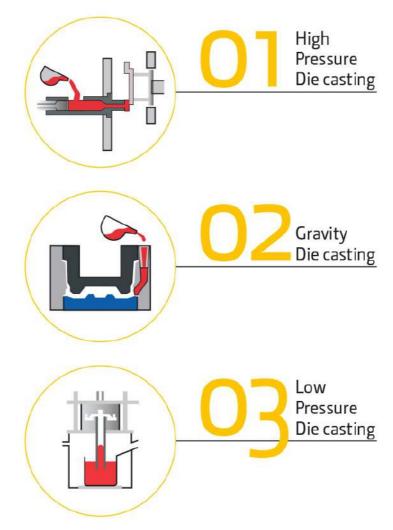
www.italpressegauss.com





One supplier for light alloy casting

Italpresse Gauss is a comprehensive supplier of light alloy casting equipment and automation solutions for three different die casting processes: high pressure, gravity and low pressure.

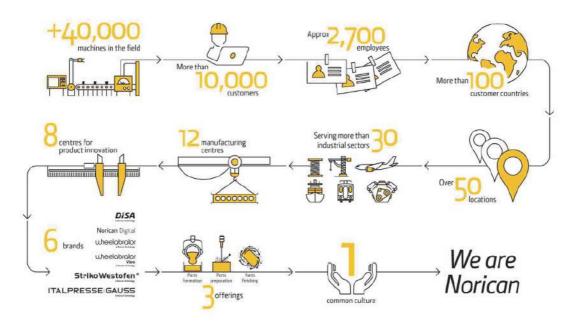


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Norican Group

Shaping Industry



Together with you, we are shaping industry

Italpresse Gauss builds machines and automatic work cells for the light alloy casting, mainly for the automotive industry, with a focus on excellence, technological innovation, quality and production flexibility.

The Company provides advanced solutions backed by 50 years of experience acquired worldwide and offers prompt and professional service to ensure optimum performance and durability of products, wherever they are. Italpresse Gauss is committed to increasing its leadership position and worldwide presence, by providing cutting-edge technological solutions.

Since its establishment in 1969, Italpresse Industrie has produced high-pressure machines and automatic work cells for the die casting of light alloys.

It has been a technological leader in the industry since the 1970s with the introduction of foundry automation and with the development in 2005 of the two-platen machine.

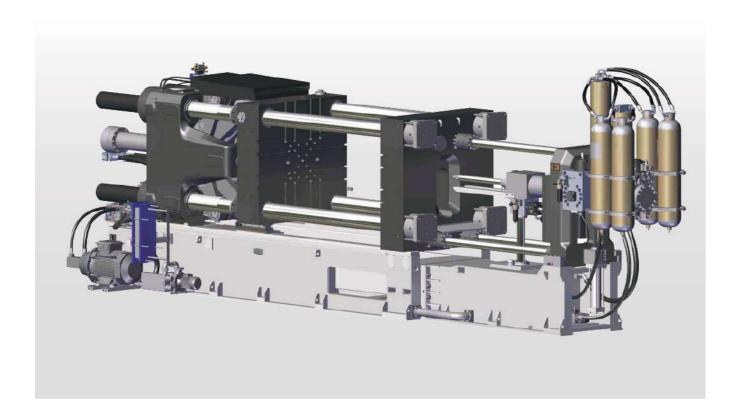
Gauss Automazione, established in 1967, supplies work cells for gravity and lowpressure light alloy die casting, mainly for the automotive industry. Norican Group is home to four leading, globally operating brands: DISA, Italpresse Gauss (incorporating Italpresse Industrie and Gauss Automazione), StrikoWestofen and Wheelabrator. As one strong global partner, Norican Group is able to serve customers better, faster and more efficiently, giving easy access to all the four brands have to offer and working in partnership to keep customers well ahead of the curve. From melting, dosing and moulding through to surface preparation, Norican Group provides the solutions to solve customers' challenges.

ITALPRESSE	1969	1975							
	Establishment of the Company	Development of the first automatic work cell.	2000	2005	2010	2014	2015	2017	FUTURE
GAUSS	1967	1975	Consolidation of the Group's global structure with branches set up in	First on the market to offer the two-platen toggle-free mathine.	Italpresse Gauss as leading	Gauss instals its first low pressure die casting machine.	Development of HMe and ECO-FIT.	Italpresse Gauss is now part of Norican	A continuing challenge
	Establishment of the Company	Development of the automation for the first Itabresse automatic work cell.	China, France, Mexico and USA		technological partner on the global stage.			Group	



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High Pressure Die Casting / IP & IPr Series



Three platen machine with toggle

The three platen machine with toggle features the range's traditional consolidated technology. Thanks to 49 years of experience and worldwide usage, a wide variety of models is available.

- Focused on reliability and easy maintenance
- New hydraulics, modular and with flexible hoses
- Large platen and longer strokes in less space

In 2014, improvements were made to the three-platen machine and a new version was developed. The new series, the IPr, is inspired from the classic IP toggle machine offers larger platens and longer strokes in less space.

Fully automated cell

The Three Platen Machine can be supplied with automation and peripheral devices: a FULLY AUTOMATED CELL that integrates all peripheral devices, from the furnace to automatic deburring with pieces ready for machining.





Technical Data

			Injection force (with o/25 bar backpressure)	Injection stroke	dimen- sions	between tie-bars	Min. /Max . die height	moving platen stroke	Ejection Force	ejection stroke	area (with pressure on metal 40 MPa)	shot weight	rating	Machine weight	Overall dimensions (L x W x H)
		kN	kN	mm	mm	mm	mm:	mm	kN	mm	cm2	kg	kW	t	mm
IP 550		5395	604/505	500	1075.X 1100	690 x 690	325/825	630	290	170	1349	7.9	30	241	7650 x 2720 x 2950
IP 750		7360	710 / 619	575	1255 x 1265	775× 775	385/940	750	369	180	1840	8.cr	37	32.6	8560 x 3050 x 2885
IP 900		9319	819 / 720	600	1400 x 1410	8 ₇₅ × 8 ₇₅	400/1000	850	486	200	2330	13.3	45	45	8705 x 3341 x 3030
IP 1100		10790	1015 / 892	740	1500 X 1520	945 × 945	425/1040	950	486	220	2700	19	2 X 30	55	10100 x 3920 x 3540
	STD		1025 / 924	750	afire v	1000 V						14-1		70	10130 x 4070 x 3580
IPr 1150	PLUS	11277	1226 / 1105	850	1650	1050	400/1150	1000	486	220	2820	21.8	2 x 30	75	10530 x 4070 x 385
	STD		1226/1105	850	1-00 v	7150 V	0.00000-000					21.8			пзоо х 4100 х 3860
IPr 1450	PLUS	14219	1446 / 1303	950	1780	1150 X	400/1300	1200	579	z60	3555	28.0	2 X 37	105	11300 × 4100 × 4230
	STD		1446 / 1303	950	10E0 V							28.0		110	12000 × 4470 × 4350
IP, 1750	PLUS	17161	1712 / 1541	1150	1950 X	1250 X 1250	450/1400	1400	579	260	4290	38.5	2 × 45	120	13270 x 4470 x 4115
	STD		1712 / 1541	1150	7300 W	1, 00 v						38.5			14100 × 4550 × 4310
IPr 2250	PLUS	22064	1971 / 1774	1250	2200 X 2200	1400 x	650/1600	1500	751	300	5516	47-3	2 X 55	150	14350 x 4650 x 4650
	STD		1971 / 1774	1250								47.3		220	15.270 × 4750 × 4590
IPr 2750	PLUS	26967	2250 / 2025	1350	2450 x 2450	1550 X 1550	750/1800	1600	751	300	6742	63.8	2 X 75	223	15460 x 4750 x 479
	STD		2250 / 2025	1350	-6-0.0	1100 V						63.8			16400 x 5050 x 490
IPr 3300	PLUS	32360	2549 / 2384	1350	2650 x	1700	800/2000	1700	1010	400	8090	70.7	4 × 45		16500 x 5050 x 490
	STD		2649 / 2384	1350	-900	,0 pp. u						70.7			17000 x 5610 x 5175
IPr 3700	PLUS	36282	2970 / 2673	1500	2800 X	18:00 X 18:00	900/2100	1800	1010	400	9071	86.6	4× 55	272	17800 x 5610 x 5200
IP: 4400	STD	43164	2970 / 2673	1500	2900 x 2900	1850 x 1850	900/2300	1900	1063	400	10780	86.6	4 × 75	344	18125 x 6010 x 5225
	P 900 IP 1100 IP 1150 IP 1450 P 2750 P 2750 P 3700	P 900 IP 1100 FLUS FLUS PLUS PLUS PLUS PLUS PLUS FLUS PLUS FLUS PLUS FLUS FLUS	P 900 9319 IP 1100 10790 IP 1150 TLUS STD 14219 PLUS PLUS TP 1276 PLUS STD 22064 PLUS PR 2250 TLUS PR 2300 TLUS PR 3300 TLUS PR 3300 TLUS PR 34282 PLUS	P 900 9319 819 / 720 IP 1100 10790 1015 / 892 IP 1150 71277 71226 / 1105 STD 1226 / 1105 IP 1450 712419 7146 / 1303 IP 1750 7146 71541 PLUS 1712 / 1541 PLUS 1712 / 1541 PP 2250 71446 / 1303 STD 1712 / 1541 PP 2250 7174 1971 / 1774 PP 2750 714 1971 / 1774 PP 2750 715 1971 / 1774 STD 1971 / 1774 PP 2750 715 26967 715 2250 / 2025 PP 3300 715 36282 715 2649 / 2384 PP 3700 715 36282 715 2673	P 900 9319 819 / 720 600 IP 1100 10790 1015 / 892 740 IP 1150 71025 / 924 750 IL 226 / 1105 850 IP 1450 7105 850 IP 1450 7105 850 IP 1450 7105 850 IP 1450 7105 850 IP 146 / 1303 950 IP 1750 7106 7106 7106 7106 7106 7106 7106 710	P 900 9319 819 / 720 600 1400 x 1410 IP 1100 10790 1015 / 892 740 1500 x 1520 IP 1150 71277 7226 / 1025 / 924 750 1650 x 1650 x 1650 IP 1150 71277 7226 / 1026 / 1005 850 7780 IP 14219 7226 / 1005 850 7780 IP 1450 7226 / 1005 850 7280 x 1650 IP 1450 7226 / 1005 7280 x 1650 IP 1450 7226 / 100	P 900 9319 819 / 720 600 1400 × 875 × 875 IP 100 10790 1015 / 892 740 1500 × 945 × 945 IP 1100 10790 1025 / 924 750 1650 × 105	P 900 9319 819 720 600 14,00 × 875 × 400/1000 P 1100 10790 1015 892 740 1750 × 945 × 945 × 425/1040 P 1150 T1277 T1226 T105 850 1650 × 165	P 900 9319 819 720 600 1400 × 875 × 400/1000 850 P 100	P 900 9319 819 / 720 600 1400 875 400/1000 850 486 IP 100 10790 1015 / 892 740 1500 945 425/1040 950 486 IP 1150 71277 720 7250 850 7650 7650 750 750 1000 486 IP 1450 71277 7261 1150 7200 7200 7200 750 750 750 750 750 750 750 750 750 7	P 900 9319 819 / 720 600 1400 × 875 × 400/1000 850 486 200 IP 100 10790 1015 / 892 740 1500 × 945 × 425/1040 950 486 220 IP 110 1025 / 924 750 1650 1050 400/150 1000 486 220 IP 1150 7 1277 1226 / 1105 850 1780 × 1050	P 900 9319 819 / 720 600 14,00 x 875 400/1000 850 4,86 200 2330 IP 1100 10790 1015 / 892 740 1500 x 520 945 x 520 946 425/1040 950 4,86 220 2700 IP 1100 10790 1015 / 892 740 1500 x 945 x 1050 x 10	P 900 9319 819 / 720 600 1400 x 875 400 / 1000 850 486 200 2330 13.3 IP 100 10790 1015 / 892 740 1500 x 1500 x 1500 x 1500 0 486 220 2700 19 IR 100 10790 1015 / 892 740 1500 x	P 300 939 819 / 720 600 14,00 x 875 400/1000 850 4,86 200 2330 13.3 45 IP 100 10790 1015 / 892 740 1500 945 x 400/1000 850 4,86 220 2700 19 2 x 30 IR 105	P 900 9399 819 / 720 600 14,000 x 875 400 / 1000 850 486 200 2330 13.3 45 45 IP 100 10390 1015 / 832 740 1500 x 520 945 x 425/1040 950 486 220 2700 19 2 x 30 55 IP 100 1025 / 924 750 1650 850 1000 x 690 1000 486 220 2860 718 2 x 30 75 IP 100 1127/ 1226 / 1105 850 1000 x 690 1000 486 220 2860 718 2 x 30 75 IP 100 1127/ 1226 / 1105 850 1000 x 690 1000 486 220 2860 718 2 x 30 75 IP 100 1127/ 1226 / 1105 850 1000 x 690 1000 486 220 2860 718 2 x 30 75 IP 100 1127/ 1226 / 1105 850 1000 x 690 1000 486 220 2860 718 2 x 30 75 IP 100 1127/ 1226 / 1105 850 1000 x 690 1000 579 260 3155 72 88.0 100 IP 100 1127/ 1226 1150 1050 1050 1250 1250 1250 1250 1250

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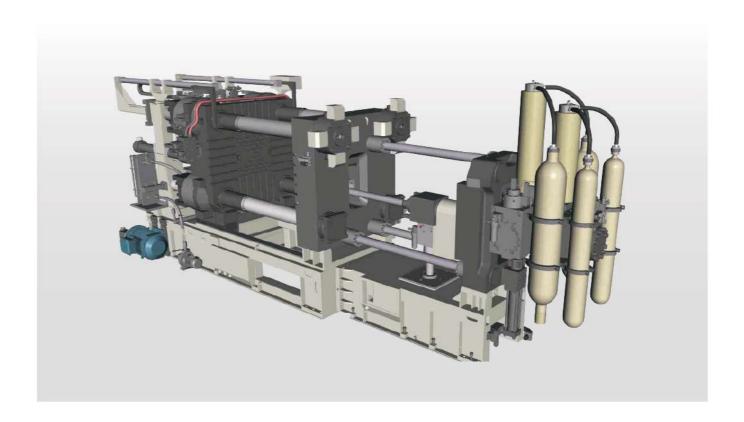






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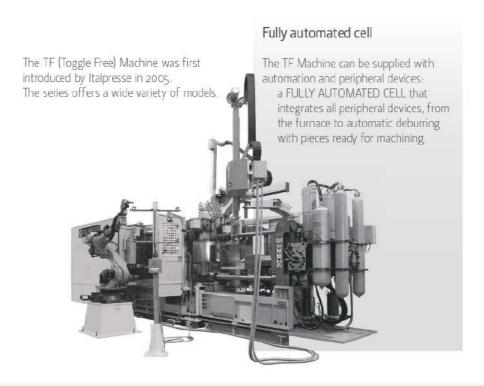
High Pressure Die Casting / TF Series





The two platen toggle free machine is compact, modern and efficient. The hydraulically driven closing force keeps the machine steady, ensuring the dies close better, thus reducing scrap. The machine automatically compensates for die parallelism issues and thermal expansion, making it suitable for operation in various working conditions.

- · Optimisation of space
- Flexibility
- · Reliability/maintainability
- · Rational design









Technical Data

	Series	Closing force	Injection force (with o/25 bar backpressure)	Injection stroke	Platens dimensions	Distance between tie-bars	Min. /Max . die height	Max. moving platen stroke	Ejection force	Central ejection stroke	Max. surface area (with pressure on metal 40 MPa)	Max. shot weight	Motor rating	Machine weight	Overall dimensions (length x width x height)
		kN	kN	mm	mm	mm	mm	mm	kN	mm	cms	kg	kW	t	mm
	TF 1000	9810	1015 / 892	740	1520 x 1520	950 x 950	550/1000	1300	486	200	2450	19	55	485	9090 x 3460 x 3540
	TF 1350	13243	1150 / 1011	740	1785 x 1785	1050 x 1050	600/1040	1400	574	240	3310	21.8	2 × 37	67	9225 x 4060 x 3750
MEDIUM SIZE	TF 1650	15186	1294 / 1137	800	1960 x 1960	1150 x 1150	700/1150	1500	574	255	4040	23.6	2 × 37	96	9667 x 4320 x 4300
	TF 1850	1B148	1470 / 1298	900	z200 x 2200	1300 x 1300	800/1210	1650	574	280	4535	26.5	2× 55	116	11120 x 4780 x 4690
	TF 2150	21090	1704/1505	1000	2230 x 2260	1350 x 1350	900/1400	1800	716	300	5270	3 .8	2 X 55	1445	11775 × 4930 × 4685
	TF 2500	24525	1704 / 1505	1000	2535 X 2535	1550 x 1550	900/1500	2000	716	300	6130	42.4	2×75	167	12140 x 5000 × 4947
	TF 2700	26487	2135 / 1885	1250	2535 × 2535	1550 x 1550	900/1800	2450	716	300	6620	59.1	2x 90	171	13611 × 5220 x 4910
LARGE	TF 3060	30019	2135 / 1885	1250	2880 x 2880	1700 x 1700	1100/1650	2000	995	325	75 ⁰ 5	59.1	2 X 110	216	14230 X 5400 X 5220
SIZE	TF3500	34335	5818 /24 <u>8</u> 9	1250	306a x 306a	1780 x 1780	1200/1800	2100	996	350	8585	65.4	2 X 110	240	14780 x 5600 x 5830
	TF 4400	43164	2818 / 2489	1500	3200 X 3200	1850 x 1850	1300/2000	2500	996	400	10780	78.5	2 X 160	296	16960 x 6000 x 5930
	TF 5600	55000	3320/3040	1600	3500 x 3500	2000 X 2000	1400/2400	3300	1196	400	13750	по	4×90	350	17700 x 6500 x 6300

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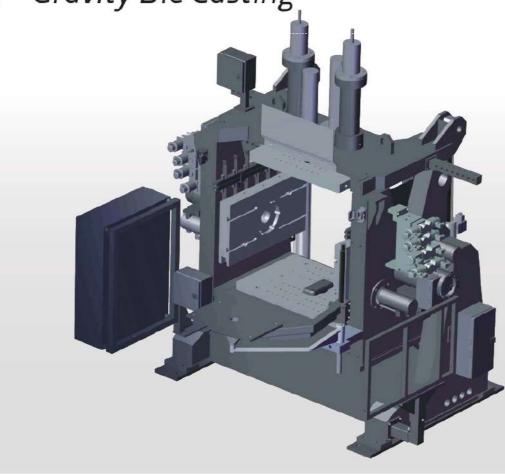














- More than 50 types of machines for different dies.
- · All machines differ in terms of:
- Plate size (up to 1200x200);
- Number of dies per machine.

Gauss gravity die casting machines are classed as follows:

- Die horizontal opening machines
- Die vertical opening machines
- o/go° Tilting machine controlled by hydraulic servo-valve, GT CAST-ID series
- o/120° Tilting machine controlled by servomotor GT CAST-EL series

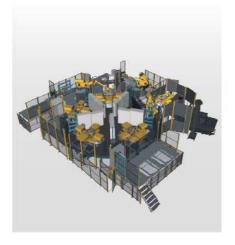
Fully automated cell

Gravity die casting machines can be supplied in FULLY AUTOMATED solutions: carousel, linear cell or flexible cell. The Casting cells can be fully automated with Italpresse Gauss gantries or anthropomorphic robots and supplied with pre-finishing devices.













Carousel

- Turntable: from 3 m to 12m
- · Payload: from 2 tonnes to 90 tonnes
- Sectors for gravity casting machines: from 2 to 10
- Complete set of safety guards in accordance with European Law (CE)
- Absolute flexibility for the installation of any type of casting machine
- Very high production rate and minimisation of number of operators

Linear Cell

- · Total length up to 24 m
- Cells: from 2 to 6 machines
- Complete set of safety guards in accordance with European Law (CE)
- Absolute flexibility for the installation of any type of casting machine
- Very high production rate and minimisation of die change times

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Flexible Cell

- · Made up of 1 or 2 gravity casting machines
- This solution has great flexibility when it comes to choice of automation
- It is especially suitable for small/medium production series. It is appreciated for the "investment modularity", an important feature for customers with a long ramp-up





Low Pressure Die Casting







LPG Series

Italpresse Gauss, a leader in the production of high-pressure and gravity die casting solutions, has developed a line of low-pressure die casting machines, the LPG series. This gives you the advantage of having a partner for 3 different light alloy casting technologies.

Some important features

Rationalisation of the cooling system which runs using proportional electro valves and hydraulic blocks, all seated and grouped on top of the machine, with access stairs for easier maintenance.

- Large platen and furnace dimensions for multiple cavity dies
- Translation of the furnace on rails with auto lift and lock
- Tilting furnace to facilitate emptying and maintenance
- Casting removal device for complete automation

Fully automated cell

Gauss Low Pressure Machines can be supplied with automation and peripheral devices: a FULLY AUTOMATED CELL that integrates all peripheral devices, from the furnace to automatic deburring with pieces ready for machining.

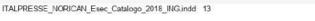
Technical data sheet	LPG 700	LPG 1000	LPG 1850
Clearance between tie bars			
Longitudinal mr	1 1950	1950	2100
Transverse mr	800	1000	1500
Moving platen stroke mr	1300	1300	1500
Opening Force kN	103	188	253
Control system			
Operator panel	Industrial PC	Industrial PC	Industrial PC
PLC	Siemens S7	Siemens S7	Siemens S7

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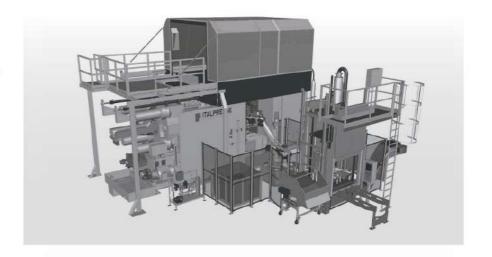


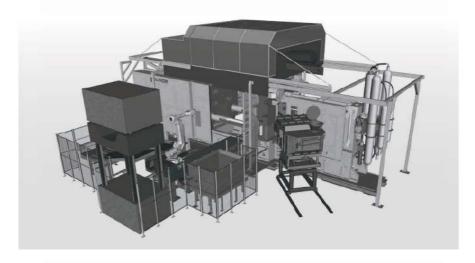
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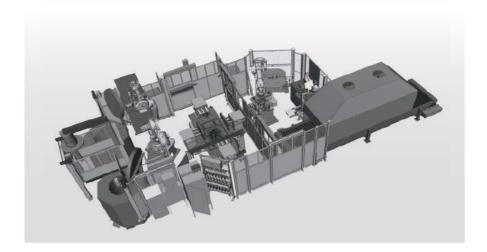
Turnkey Fully Automated Cells

Solutions designed to suit your need

Italpresse Gauss supplies automatic work cells that integrate all peripheral devices, from the furnace to the automatic deburring. We offer flexible solutions with turnkey delivery of individual components, complete cells or the engineering process alone. We can carry out the design, realization, installation and start-up from feasibility studies, to design, assembly of the machine and all the peripheral devices including integrated control system.











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	HPDC	GDC	LPDC
FURNACE	0	0	0
DEGASSING	0	0	0
AUTOMATIC CORE ASSEMBLY		0	0
CORE SETTING		0	0
INSERT HANDLING	0		0
POURING	0	0	
VACUUM	0	0	0
EXTRACTION	0	0	0
INTEGRITY CONTROL CHECK	0	0	0
LUBRICATION/TALCING	0	0	0
MARKING & MARKING CHECK	0	0	0
PRE DECORING		0	0
COOLING (AIR/WATER)	0	0	0
DECORING		0	0
CUTTING	0	0	0
DEBURRING/TRIMMING/ HANDLING	0	0	0
and other customisable options			





















Italpresse Gauss 4.0













ECO-FIT MODE

HMe is the user-friendly system developed by Italpresse Gauss for the supervision and control of machines.

HMe is powered by Wonderware, the global leading brand by Schneider Electric for industrial software including HMe and SCADA.

HMe is a powerful and smart tool for machine supervision and real-time storage of large amounts of data with an intuitive and user-friendly interface.

Interactive assistance and guided maintenance are the innovative features of AMe:

- · Once the user's tablet frames the machine part requiring assistance, the user can request a video call and will be guided stepby-step by the Italpresse service operator.
- The user is also able to access all the maintenance documentation, available in 3D and PDF and to view step-by- step maintenance procedures in Augmented

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ECO-FIT MODE is the smart system specially designed to save energy. Available on the entire machine range, it reduces electricity consumption by up to 50%.

ECO-FIT MODE PLUS combines the features of ECO-FIT MODE with the advantage of a single-stage pump and a low-inertia motor with encoder feedback increasing energy savings up to 60%. Available for machine sizes up to TF1650 and IPr1450.







Service







A team of specialist engineers and technicians offers prompt and professional aftersales service to ensure optimum performance and durability of Italpresse Gauss products, wherever they are.

The Service team can operate promptly on site or via Remote Assistance. A large spare parts warehouse in Italy and several warehouses around the world guarantee rapid delivery of spare parts. Specialist training courses can be provided onsite on your premises, or here at Capriano del Colle. We also provide a range of other services, such as assistance for manufacturing and production processes, to support you in the use and management of our systems.







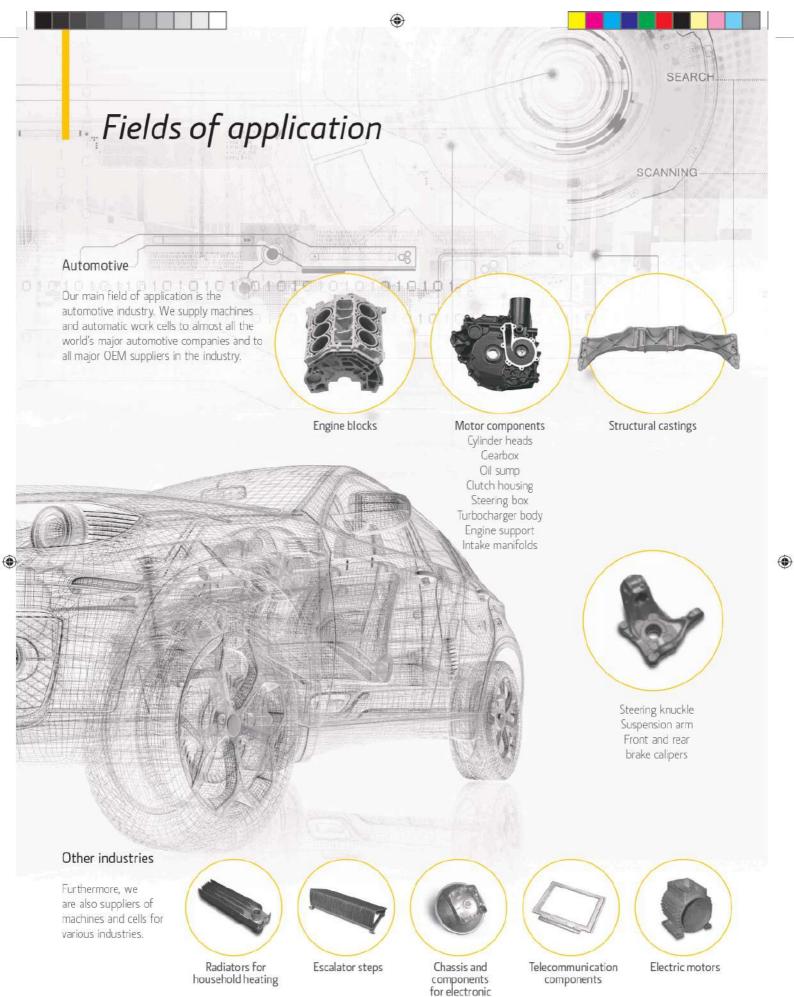
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devices

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