



Cogne Acciai Speciali Group

Automotive

High performance stainless steels



Cogne Acciai Speciali is committed to the Automotive Market

Mobility for people and goods has recently gained an array of options that go from Internal Combustion Engine (i.e.: ICE), Fuel Cell Electric Vehicle (FCEV) up to Hydrogen Direct Injection (H2 DI). Each one of these solutions requires stainless steel components made by either cold forging, or machining or hot stamping processes tested for perfect functioning in terms of both safety and durability under any extreme operating condition.

When producing components dedicated to the Automotive sector, Cogne Acciai Speciali offers products that are set up with well-defined production cycles and controls.



Cogne Acciai Speciali stainless steels for automotive

ENGINE MANAGEMENT

Fuel injectors
Engine valves
Oxygen sensors fuel
Pump throttle shaft
Radiator
Egr components
(Bypass valves)
Engine solenoids
Fasteners

SAFETY

Windshield wipers
(Support wire)
Airbag
(Bars for cartridge
And knitted wire)
Cruise control
Abs and ride
Control
Solenoids
Pressure sensors

BRAKING SYSTEMS

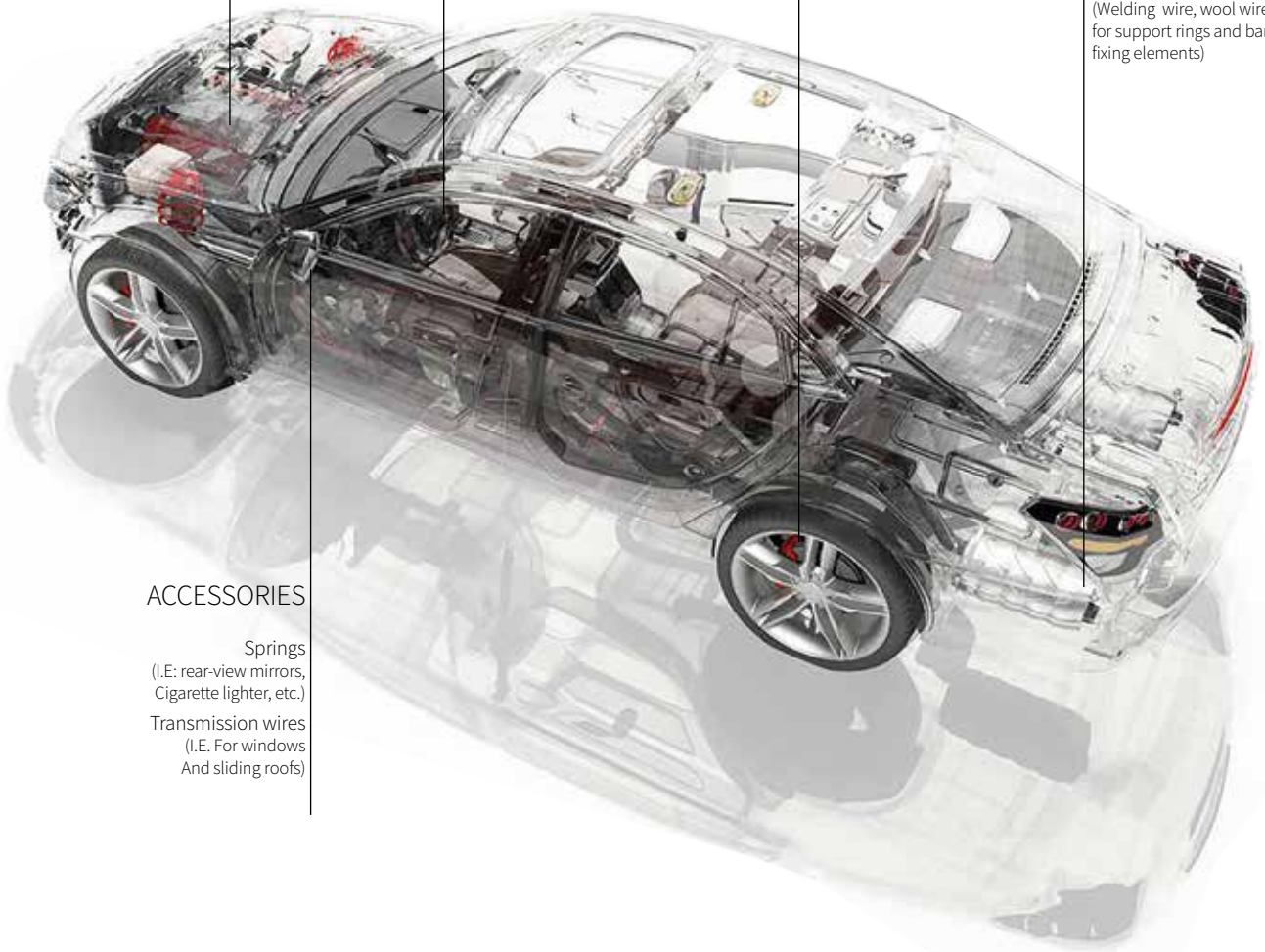
Anti-lock braking solenoids

EXHAUST SYSTEMS

Catalytic
(Welding wire, wool wire, wire
for support rings and bars for
fixing elements)

ACCESSORIES

Springs
(I.E: rear-view mirrors,
Cigarette lighter, etc.)
Transmission wires
(I.E. For windows
And sliding roofs)



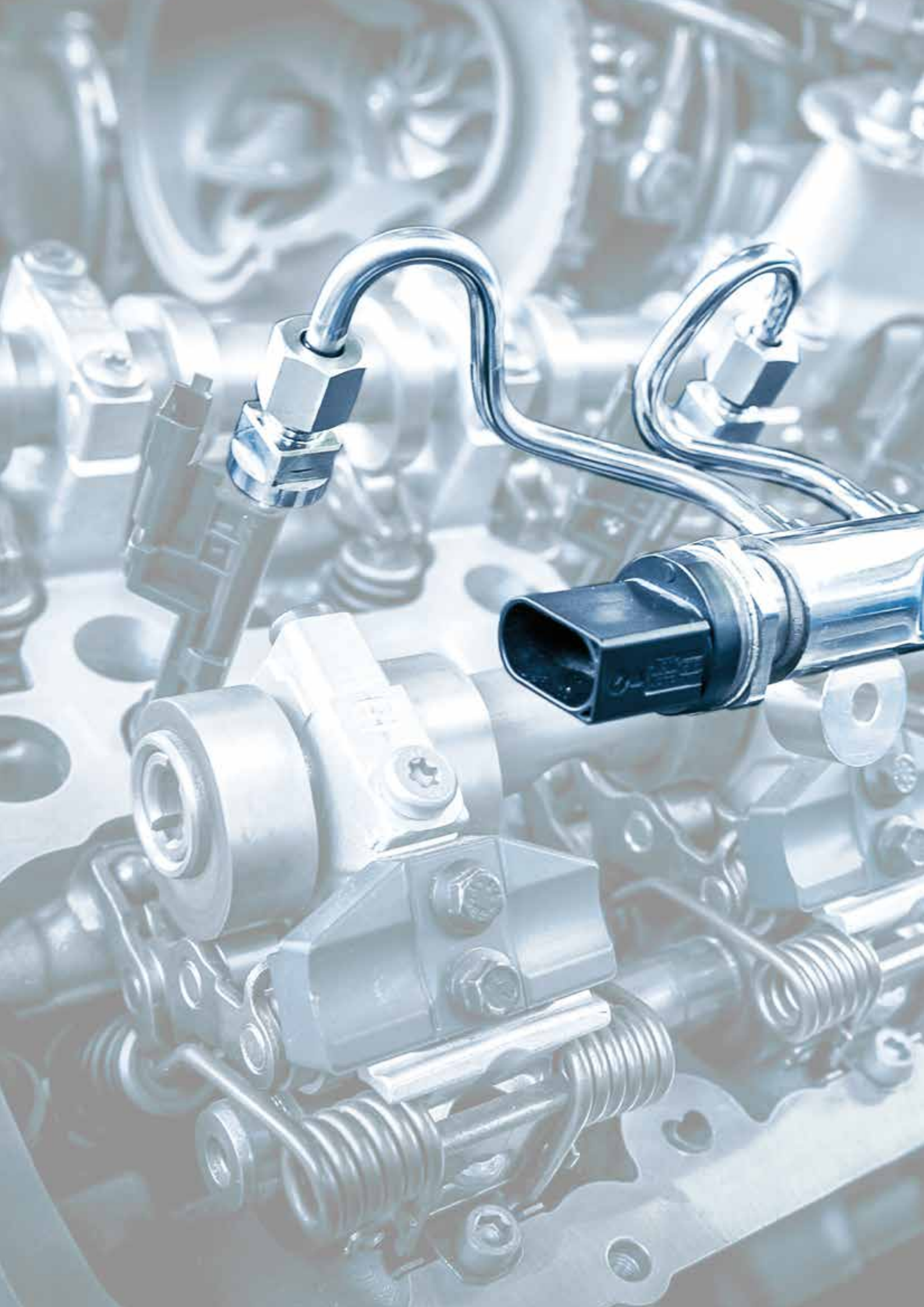
OUR STAINLESS STEELS for automotive

Steel Class	Cogne Grade	Lavorabilità	EN/DIN/UNI migliorata	W.N.	BS	AISI/ASTM/ASME
Austenitic grades	303/1	IMCO*	X8CrNiS 18-9	1.4305	303S31	303 8F B8F
	303K	IMCO*	X6CrNiCuS 18-9-2	1.4570		
	304R		X2CrNi 19-11	1.4306	304S12	304 L
	F304	IMCO*	X5CrNi 18-10	1.4301	304S31	304 B8
	304K		X3CrNiCu 18-9-4	1.4567	394S17	304 Cu
	F304L	IMCO*	X2CrNi 19-11	1.4306	304S12	304 L
	F304L1	IMCO*	X2CrNi 18-9	1.4307	304S11	
	309Si		X15CrNiSi 20-12	1.4828	309S24	309
	F316	IMCO*	X5CrNiMo 17-12-2	1.4401	316S31	316 8M B8M
	F316L	IMCO*	X2CrNiMo 17-12-2	1.4404	316S11	316L 8M B8M
	316LM2	IMCO*	X2CrNiMo 18-14-3	1.4435	316S13	316L
	316LMH*		X2NiCrMo 18-14-3	1.4435		
	316L4		X2CrNiMo 18-14-3	1.4435	316S13	316L
	316T/1	IMCO*	X6CrNiMoTi 17-12-2	1.4571	320S31	316Ti
	321/3	IMCO*	X6CrNiTi 18-10	1.4541	321S31	321
Ferritic grades	430/1		X6Cr17	1.4016	430S17	430
	430/4	IMCO*	X6Cr17	1.4016	430S17	430
	430F2	IMCO*	X6CrMoS17	1.4105		430F
	430F4	IMCO*	X6CrMoS17	1.4105		430F
	430F6	IMCO*	X6CrMoS17	1.4105		430F
	434		X6CrMo17-1	1.4113	434S17	434
	430NB		X3CrNb17	1.4511		430Cb
Duplex grades	329A		X2CrNiMoN 22-5-3	1.4462	318S13	F51 Cr22
	329S		X2CrNiMoCuWN 25-7-4	1.4501		F55
Heat resisting grades	310/1		X8CrNi 25-21	1.4845	310S31	310 S
	347		X6CrNiNb 18-10	1.4550	347S31	347
Precipitation hardening grades	354		X1CrNiMoCuN 25-18-7	1.4547		F44
	630/3	IMCO*	X5CrNiCuNb 16-4	1.4542		
	SF286		X6NiCrTiMoVB 25-15-2	1.4980	286S31	660
Super alloy grades	904L		X1NiCrMoCu 25-20-5	1.4539	904S13	904L
Martensitic grades	410/2		X12Cr13	1.4006	410S21	410
	E415/1		X3CrNiMo 13-4	1.4313	425C12	F6NM
	415M/3		X4CrNiMo 16-5-1	1.4418		
	416/1	IMCO*	X12CrS13	1.4005	416S21	416
	420A/7	IMCO*	X20Cr13	1.4021	420S29	420L
	420B/4	IMCO*	X30Cr13	1.4028	420S37	420M
	420BF/2	IMCO*	X29CrS13	1.4029	416S37	420F
	420C		X39Cr13	1.4031	420S45	420H
	420C/1		X46Cr13	1.4034		
	420CF	IMCO*	X45CrS13	1.4035		
	420C/4	IMCO*	X46Cr13	1.4034		
	420D		X65Cr13	1.4037		
	420D/6		X65Cr13	1.4037		
	420RM1		X39CrMo 17-1	1.4122		
	430F/3	IMCO*	X14CrMoS17	1.4104		430F
	431/1	IMCO*	X17CrNi 16-2	1.4057	431S29	431
	440B		X90CrMoV18	1.4112		440B
	440C/2		X105CrMo17	1.4125		440C
616C		X20CrMoV 12-1	1.4922			
616		X20CrMoWV 12-1	1.4935		422	

*Ni > 13% Ni equivalent > 28,5

Stainless steel bars

Diameter[mm]	Round bars				Hexagins Bars
	Peeled and reeled	Cold Drawn	Peeled & Polished	Centerless Ground	Cold Drawn
	20 - 101,60	4,00 - 25,4	20 - 80	4 - 80	11 - 27





One Cogne:
channeling the power
of together to create a
better future.

Cogne Acciai Speciali
renews and forges
its commitment
towards people, the
environment, its
local community and
respect for human
rights.

OUR DASHBOARD

Quality... every step of the way



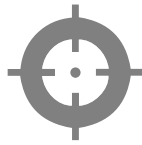
MELTING

High purity
Microcleannes
Macrostructure online control



ROLLING & HEAT TREATMENT

Product defectivity online control
Heat treatment diagram control



FINISHING

Peeling
Drawing
Grinding
Magnetic annealing treatment
Mechanical characteristic control



FINAL INSPECTION

Dimensional laser control
Magnatest
Eddy current testing machine
US testing
Final approval



Automotive



Our Cogne engine valve steels

Grade	C	Si	Mn	P	S	Cr	Mo	Ni	Nb	W	N ₂	Annealed HRC	Hardened & tempered HRC	EN 10090	SAE	JIS	Others	
VA34	0.28-0.38	0.5-1.0	1.5-3.5	≤0.050	≤0.030	22-24	≤0.5	7.0-9.0		≤0.5	0.25-0.35	≤38		1.4866	X33CrNiMnN23.8	EV16		23-8N
VA61	0.48-0.58	≤0.45	8-10	≤0.050	≤0.030	20-22		3.25-4.5			0.35-0.50	≤40		1.4871	X53CrMnNiN21.9	EV8	SUH35	21-4N
VA66/2	0.5-0.6	≤0.25	7-10	≤0.050	≤0.030	19.5-21.5		1.5-2.75			0.20-0.40	≤40		1.4875	X55CrMnNiN21.9	EV12		21-2N
VA63	0.45-0.55	≤0.45	8-10	≤0.050	≤0.030	20-22		3.5-5.5	1.8-2.5	0.8-1.5	0.40-0.60	≤40		1.4882	X50CrMnNiNbN21.9	EV8NbW		21-4NWNb
VM09	0.45-0.55	1.0-2.0	≤0.60	≤0.030	≤0.030	7.5-9.5		≤0.50				≤30	30-35		X50CrSi8.2		SUH11	
VM11	0.40-0.50	2.7-3.3	≤0.80	≤0.040	≤0.030	8.0-10.0		≤0.50				≤30	30-35 / 35-43	1.4718	X45CrSi9.3	HNv3	SUH1	
VM12D/1	0.35-0.45	2.0-3.0	≤0.80	≤0.040	≤0.030	9.0-11.0	0.8-1.3					≤30	30-35	1.4731	X40CrSiMo10.2		SUH3	

Valves

Round Bars

Diameter [mm]

Hot rolled

Cold drawn

Centerless ground

Peeled

5,00- 60,0



Discover Cogné World



- PRODUCTION&DISTRIBUTION
- DISTRIBUTION

Headquarter



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