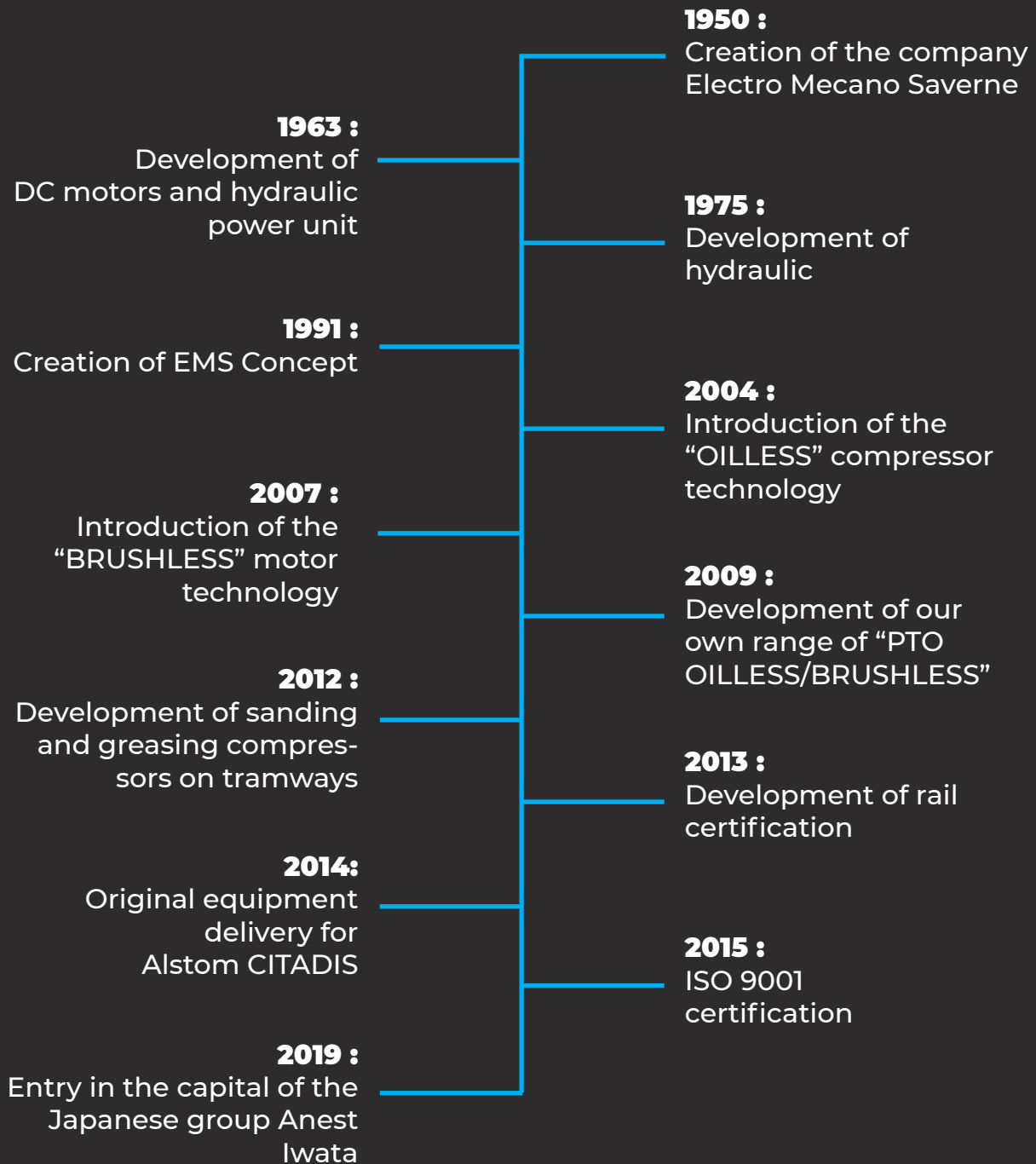


SCROLL TECHNOLOGY

SOLUTIONS FOR MOBILITY



COMPANY HISTORY



APPLICATIONS





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THE SCROLL TECHNOLOGY



- 1 Pump inlet
- 2 Pump outlet
- 3 Fixed scroll
- 4 Orbiting scroll
- 5 Main bearing housing
- 6 High flow sirocco fan for cooling



OIL-FREE OPERATION



**LOW POLLUTION
NOISE**



**REDUCED
VIBRATIONS**



**REDUCED
MAINTENANCE**



**ENERGY
CONSERVATION**



**ADJUSTABLE SPEED
FOR SOUND**

The scroll technology provide an oilless solution for compressor, that is further-
more quiet, robust and free of maintenance up to 5000 hours of operations.
Scroll compressors can be coupled with different types of motors, in order to
meet a multitude of applications (ex: bus, electric bus, train, tramway, etc.)

From 2.2 kW to 7.5 kW, from 160l/min to 750l/min, our Scroll compressors are capable of meeting a wide range of applications, allowing quiet operation with reduced maintenance steps and optimized costs.



SCROLL HEAD COMPRESSOR

	Power	Max Pressure	Airflow @ 2200 RPM	Airflow @ 2600 RPM	Airflow @ 3000 RPM
Scroll IA1	2.2 kW	10 bar	160 l/mn	280 l/mn	240 l/mn
Scroll IA2	3.7 kW	10 bar	230 l/mn	260 l/mn	300 l/mn
	3.7 kW	8 bar	300 l/mn	350 l/mn	400 l/mn
Scroll IA3	5.5 kW	10 bar	380 l/mn	450 l/mn	525 l/mn
	5.5 kW	8 bar	500 l/mn	560 l/mn	650 l/mn
Scroll IA4	7.5 kW	10 bar	450 l/mn	540 l/mn	640 l/mn
	7.5 kW	8 bar	550 l/mn	640 l/mn	750 l/mn

24 VDC SOLUTIONS



Our 24 VDC solutions are available from 2.2 kW to 5.5kW, offering a airflow from 160l/mn to 525l/mn at 10 bar. The 24 VDC solutions are perfectly suitable for truck application, to supply air for the brake or the suspensions.

	Voltage	Power	Max Pressure	Airflow @ 2200 RPM	Airflow @ 2600 RPM	Airflow @ 3000 RPM
Scroll IA1 TRA145	24 VDC	2.2 kW	10 bar	160 l/mn	280 l/mn	240 l/mn
Scroll IA2 TRA168	24 VDC	3.7 kW	10 bar	230 l/mn	260 l/mn	300 l/mn
Scroll IA3 TRA168	24 VDC	5.5 kW	10 bar	380 l/mn	450 l/mn	525 l/mn
Scroll IA4 TRA168	24 VDC	7.5 kW	10 bar	450 l/mn	540 l/mn	640 l/mn

48/80 VDC SOLUTIONS



Our 48/80 VDC solutions are available with 2 motors. The 80 VDC solution is powered by BLPM brushless motor delivering 1.5 kW. The 48 VDC solution is powered by the AMB motor, available in 2.2kW and 3.7kW. The 48 VDC solutions are suitable for handling and the 80 VDC solutions is suitable for airport handling.

	Voltage	Power	Max Pressure	Airflow @ 2200 RPM	Airflow @ 2600 RPM	Airflow @ 3000 RPM
Scroll IA1/ AMB46	48 VDC	2.2 kW	10 bar	160 l/mn	280 l/mn	240 l/mn
Scroll IA2/ AMB46	48 VDC	3.7 kW	10 bar	230 l/mn	260 l/mn	300 l/mn
	Voltage	Power	Max Pressure	Airflow @ 2000 RPM	-	-
Scroll/ BLPM	80 VDC	1.5 kW	10 bar	207 l/mn	-	-

200/800 VDC SOLUTIONS



Our 200/800 VDC solutions are available with a range of motor going from 2.2 kW to 7.5 kW with a variable rotation speed and provide 160l/min to 640l/min at 10 bar. This solutions is suitable for electric buses and trucks.

	Voltage	Power	Max Pressure	Airflow @ 2200 RPM	Airflow @ 2600 RPM	Airflow @ 3000 RPM
Scroll IA1 TRI-V	200/800 VDC	2.2 kW	10 bar	160 l/mn	280 l/mn	240 l/mn
Scroll IA2 TRI-V	200/800 VDC	3.7 kW	10 bar	230 l/mn	260 l/mn	300 l/mn
Scroll IA3 TRI-V	200/800 VDC	5.5 kW	10 bar	380 l/mn	450 l/mn	525 l/mn
Scroll IA4 TRI-V	200/800 VDC	7.5 kW	10 bar	450 l/mn	540 l/mn	640 l/mn

400 VAC SOLUTIONS



Our 400 VAC solutions are available with a range of motor going from 2.2 kW to 7.5 kW with a rotation speed of 3000 RPM and provide 240l/min to 640l/min at 10 bar. This solution is suitable for railway system and urban railway system.

	Voltage	Power	Max Pressure	Airflow @ 3000 RPM
11024026 Scroll IA1 TRI	400 VAC	2.2 kW	10 bar	240 l/mn
11024027 Scroll IA2 TRI	400 VAC	3.7 kW	10 bar	300 l/mn
11024028 Scroll IA3 TRI	400 VAC	5.5 kW	10 bar	525 l/mn
11024029 Scroll IA4 TRI	400 VAC	7.5 kW	10 bar	640 l/mn

ACCESSORIES

CAN COMMUNICATION
J1939



CYCLONIC FILTER WITH
CLOGGING INDICATOR



AIR DRYER



AIR COOLER



ELECTRICAL BOX



QUALIFICATIONS

CEM/CE/R10/R100

SHOCK AND VIBRATION : NF-EN-61373 : 2011

SALT SPRAY TEST : ISO9227 : 2017 – 500 HOURS

CLIMATICS : NF-EN-60068

ACOUSTICS : 70/75 DBA

SPECIFIC REQUESTS

EMS has the ability to respond to custom requests regarding chassis, voltage, power, application, necessary accessories, etc.

Examples :





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