



Windings and die-cast  
components for electric motors

## vision

From leader in Italy to global player for high technology-content windings, die-casts and assembly procedures.

## mission

Our mission is to create value for our customers on an ongoing base, through identification of innovative technological solutions, by providing technical consultancy and assistance during the design stage, a constantly expanding assortment of products and services and by updating both products and production means, on a regular basis.





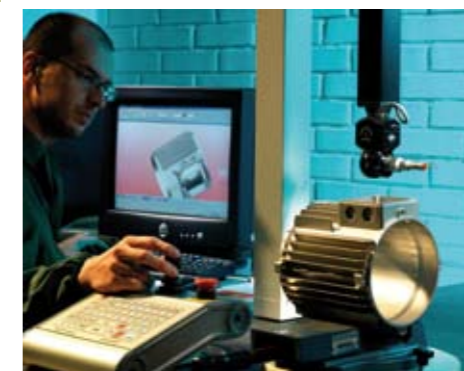
# Values



Reliability, competence, professional approach and transparency are the bedrock for our success / Came SpA's success.



Came SpA is the only single-source supplier for wound stators, die-castings, machining and assemblies in Italy. We work with supplied laminations or we can source the laminations and the magnetic wire, from a list of qualified vendors.



# Benefits

# history



1977 Came SpA starts up its first production plant (located at S. Pietro Mussolino) for windings (manually produced), serving the electric motors and pumps sectors.

1980 Came SpA production using its first semiautomatic inserting and binding machines (sizes 63-71).

1985 Windings produced with automatic inserting, insulating and binding machines at the new production plant at Molino di Altissimo (Came SpA's current headquarters).

1990 Came SpA starts up its plant dedicated to die-casting (aluminium) of cases, flanges and shields for the pumps sector (sizes 63-71-80).

1995 The MEC63 winding is produced by automatic transfer system for insertion.

1998 New automatic production transfer lines (also for sizes MEC71 and MEC80).

2000/2005 Doubling of the automatic lines with new 63-71 transfer systems (4 heads) for production of pumps, compressors and pressure washers. Came SpA starts up its production plant in Via Valletta, Crespadoro, dedicated to the production of special windings (sizes 56 to 160). The die-casting plant completes its range with cases, flanges and shields (up to MEC100). Transfer systems ( 4 heads ) for the production of wound stators for the pumps industry, air compressors industry and high pressure cleaners industry

2008 Produces die-cast components with moulds (contract work) and provides customized project solutions. The transfer lines for production of windings now cover the 63-132 range.

The customer comes first.



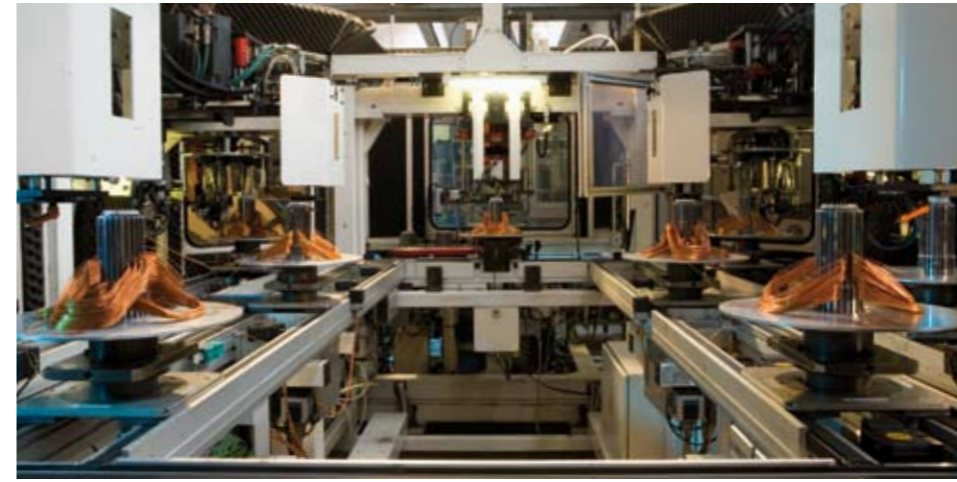
# objectives

Came SpA boasts enormous product and process potentials. Our main objective is to create value for our customers through a “constant growth oriented corporate system”

Engagement on a day-to-day basis in innovation, research and problem-solving by realization of ad hoc products, plus a proactive approach to producing solutions that meet the needs of our customer base. Constant innovation, research and problem solving by realizing custom products; proactive approach towards creative solutions that meet our customers' needs.



Came SpA is the only company with four fully integrated production plants.



## organization

The structure of the Came SpA universe is the outcome of top trained human resources, department supervisors' involvement in the corporate objectives, internal management and creation of our own internal IT systems.

Our corporate policy envisages constant monitoring of stakeholders. Periodic assessment is conducted of the competence, suitability (with respect to positions held), and professional and individual development of suppliers, employees and other team workers.

We firmly believe in the wellbeing of our team and in rewarding merit, as part of our efforts toward creating an atmosphere of harmony which shall be reflected in our reliability and in the quality of outcomes for our customer base.

This approach enables maximum production flexibility, an extremely rapid information flow, prompt decision-making, and the provision of solutions for our customer base. With its lean structure, Came SpA can pinpoint with extreme precision the nature of the assistance our customers require, and can provide this assistance meticulously, thereby cultivating an approach according to which everyone feels they belong to a customer-oriented team.





Over time, Came SpA has acquired a leadership position within the wound stators, die-castings and assembly procedures marketplace, thanks to its technical competence, combined with a policy of constant investment in leading-edge technologies.

# technology

# innovation

Came SpA's track record in the field of product and process innovation covers three decades. Our focus is on the marketplace and quality (hence, ISO 9001:2000 Certification in 2004).



## solutions



The Came universe is renowned for the quality of customer care during the design and production stages, and for its customized services.

- Wound stators
- Rotor shafts
- Aluminium die-casting and machining
- Assemblies services like stator-frame accommodation, turning and milling

## service

- technical and professional support for custom winding;
- technical and design support in the area of castings (development of moulds, die-casting, die-casting using clients' moulds)
- supplying rotor shafts, laminations, magnetic wire as well as other components for electric motors;
- provision of other components of electric motors;
- fully guaranteed, reliable delivery;
- logistic back-up;
- just in time delivery.



Because our customer is base is our most precious resource.

# customers

Came SpA is an ideal partner for all producers of electric motors, pumps, pressure washers, compressors, automated systems or gearmotors. Came SpA's customers include leading concerns such as:



the range of Came

## 2 POLES

Poles	Type of winding	Ø external	Ø internal	No. of slots
2	Two-phase	73	38	24
2	Two-phase	80	40	12
2	Two-phase	80	40	24
2	Two-phase	80	45	24
2	Two-phase	90	47	24
2	Two-phase	92	50	24
2	Two-phase	110	55	24
2	Two-phase	110	62	24
2	Two-phase	125	65	24
2	Two-phase	135	70	24
2	One-ph(cb)	135	70	24
2	One-phase	73	38	24
2	One-phase	80	40	12
2	One-phase	80	45	24
2	One-phase	90	47	24
2	One-phase	90	50	18
2	One-phase	90	50	24
2	One-phase	106,5	55	24
2	One-phase	107	55	24
2	One-phase	107	62	24
2	One-phase	110	55	24
2	One-phase	110	58	24
2	One-phase	117	61	24
2	One-phase	120	62	24
2	One-phase	125	65	24
2	One-phase	125	71	24
2	One-phase	127	70	24
2	One-phase	128	67	24
2	One-phase	135	70	24
2	One-phase	150	80	24
2	One-phase	152	80	24
2	One-phase	173	90	24
2	One-phase	173	90	36
2	Three-ph(s)	73	38	12
2	Three-ph(s)	80	40	12
2	Three-phase	64	38	24
2	Three-phase	73	38	24
2	Three-phase	80	40	12
2	Three-phase	90	45	24
2	Three-phase	90	47	24
2	Three-phase	90	50	18
2	Three-phase	90	50	24
2	Three-phase	106,5	55	24
2	Three-phase	107	55	24
2	Three-phase	110	55	24
2	Three-phase	110	58	24
2	Three-phase	120	62	24
2	Three-phase	125	65	24

Poles	Type of winding	Ø external	Ø internal	No. of slots
2	Three-phase	125	71	24
2	Three-phase	128	67	24
2	Three-phase	135	70	24
2	Three-phase	135	80	36
2	Three-phase	150	76	24
2	Three-phase	150	80	24
2	Three-phase	152	80	24
2	Three-phase	170	90	24
2	Three-phase	173	90	24
2	Three-phase	173	90	36
2	Three-phase	200	110	36
2	Three-phase	240	135	36
2	Three-phase	270	150	36

## 4 POLES

Poles	Type of winding	Ø external	Ø internal	No. of slots
4	Two-phase	64	38	24
4	Two-phase	68	38	24
4	Two-phase	73	38	24
4	Two-phase	78	43	24
4	Two-phase	80	45	24
4	Two-phase	90	50	24
4	Two-phase	110	62	24
4	Two-phase	110	66	24
4	Two-phase	120	70	24
4	Two-phase	125	80	24
4	Two-phase	125	80	36
4	Two-phase	135	80	32
4	Two-phase	135	80	36
4	One-ph(s)	125	80	36
4	One-ph(s)	135	80	36
4	One-ph(s)	150	90	32
4	One-ph(s)	150	90	36
4	One-ph(s)	152	90	36
4	One-ph(s)	173	103	36
4	One-phase	80	45	24
4	One-phase	90	47	24
4	One-phase	90	50	24
4	One-phase	106,5	62	24
4	One-phase	107	62	24
4	One-phase	110	62	24
4	One-phase	110	66	24
4	One-phase	120	70	24
4	One-phase	125	70	24
4	One-phase	125	80	24
4	One-phase	125	80	36
4	One-phase	140	80	36
4	One-phase	150	90	36
4	One-phase	152	90	36
4	One-phase	170	103	36
4	One-phase	173	103	36
4	One-phase	180	110	36
4	One-phase	200	125	36
4	One-phase	240	150	36

Poles	Type of winding	Ø external	Ø internal	No. of slots
4	One-phase	130	80	24
4	One-phase	135	80	32
4	One-phase	135	80	36
4	One-phase	140	80	36
4	One-phase	150	90	36
4	One-phase	152	90	36
4	One-phase	170	103	36
4	One-phase	173	103	36
4	One-phase	200	125	36
4	Three-phase	64	38	24
4	Three-phase	73	38	24
4	Three-phase	80	45	24
4	Three-phase	90	47	24
4	Three-phase	90	50	24
4	Three-phase	106,5	62	24
4	Three-phase	107	62	24
4	Three-phase	110	55	24
4	Three-phase	110	62	24
4	Three-phase	110	66	24
4	Three-phase	120	70	24
4	Three-phase	120	70	36
4	Three-phase	125	65	24
4	Three-phase	125	70	24
4	Three-phase	125	80	24
4	Three-phase	125	80	36
4	Three-phase	127	70	24
4	Three-phase	130	80	24
4	Three-phase	135	70	24
4	Three-phase	135	80	36
4	Three-phase	140	80	36
4	Three-phase	150	90	36
4	Three-phase	152	90	36
4	Three-phase	152	100	36
4	Three-phase	170	103	36
4	Three-phase	173	103	36
4	Three-phase	180	110	36
4	Three-phase	200	125	36
4	Three-phase	240	150	36

## 6 POLES

Poles	Type of winding	Ø external	Ø internal	No. of slots
6	Two-phase	73	38	24
6	Two-phase	78	43	24
6	Two-phase	80	45	24
6	Two-phase	90	50	24
6	Two-phase	110	62	24

Poles	Type of winding	Ø external	Ø internal	No. of slots
6	Two-phase	110	66	24
6	Two-phase	125	80	36
6	One-phase	90	50	24
6	One-phase	110	62	24
6	One-phase	110	66	24
6	One-phase	125	80	36
6	One-phase	135	80	36
6	One-phase	135	90	36
6	One-phase	150	90	36
6	One-phase	152	90	36
6	One-phase	152	103	36
6	Three-ph(cb)	150	90	36
6	Three-phase	90	50	24
6	Three-phase	90	52	24
6	Three-phase	90	55	36
6	Three-phase	106,5	62	24
6	Three-phase	110	62	24
6	Three-phase	110	65	36
6	Three-phase	110	66	24
6	Three-phase	110	70	36
6	Three-phase	125	80	24
6	Three-phase	125	80	36
6	Three-phase	135	80	36
6	Three-phase	135	90	36
6	Three-phase	150	90	36
6	Three-phase	150	103	36
6	Three-phase	152	90	36
6	Three-phase	152	100	36
6	Three-phase	152	103	36
6	Three-phase	173	103	36
6	Three-phase	173	115	36
6	Three-phase	200	125	36
6	Three-phase	240	150	36

## 8 POLES

Poles	Type of winding	Ø external	Ø internal	No. of slots
8	Two-phase	73	38	24
8	One-phase	125	80	24
8	Three-phase	80	45	24
8	Three-phase	90	50	24
8	Three-phase	106,5	62	24
8	Three-phase	110	66	24
8	Three-phase	125	80	36
8	Three-phase	135	80	36
8	Three-phase	135	90	36
8	Three-phase	150	103	36

8	Three-phase	152	90	36
8	Three-phase	173	103	36
8	Three-phase	200	125	36

## 12 POLES

Poles	Type of winding	Ø external	Ø internal	No. of slots
12	Three-ph(cb)	150	90	36
12	Three-phase	125	80	36
12	Three-phase	135	80	36
12	Three-phase	152	90	36

## DOUBLE POLARITY

Poles	Type of winding	Ø external	Ø internal	No. of slots
2/12	Three-phase	173	103	36
4/8-6	Three-phase	152	90	36
2/4	Two/two	125	65	24
2/4	Two/two	135	70	24
2/4	One-ph(2aw)	90	47	24
2/4	One/two	135	70	24
2/4	One/one	125	65	24
2/4	One/one	135	70	24
2/4	Three-phase	90	50	24
2/4	Three-phase	110	66	24
2/4	Three-phase	120	62	24
2/4	Three-phase	125	65	24
2/4	Three-phase	125	70	24
2/4	Three-phase	125	80	36
2/4	Three-phase	135	70	24
2/4	Three-phase	135	80	36
2/4	Three-phase	152	80	24
2/4	Three-phase	152	90	36
2/4	Three-phase	173	103	36
2/6	Three-phase	125	80	36
2/6	Three-phase	135	80	36
2/6	Three-phase	173	103	36
2/6	Three-phase	200	125	36
4/6	Three-phase	135	80	36
2/8	Three-phase	125	65	24
4/8	Three-phase	110	66	24
4/8	Three-phase	125	80	36
4/8	Three-phase	135	80	36
4/8	Three-phase	173	103	36
6/8	Three-phase	173	115	36

From external diameter 300 to external diameter 500 IEC. Customized solutions.

