Our quality stems from a careful and rigorous process control. From design to production, each stage is monitored in order to guarantee the correct flow and the final product characteristics.

Our controls start from **RAW MATERIALS:**

In Motion employs 100Cr6 high-purity bearing steel from selected suppliers. Each lot is guaranteed and certified through metallographic and mechanical controls.

Example of chemical analysis

Certificato di Prova n.
Test report n.

Tipo di Prova: ANALISI CHIMICA ACCIAI MEDIANTE SPETTROSCOPIA A SCINTILLA
Type of test: Steel chemical analysis by spark spectroscopy
Strumento: Spettrometro Metal Lab Plus ID.261
Equipment: Spectrometer Metal Lab Plus ID.261
Metodo di Prova:
Standard
Data di Esecuzione:
Date of execution

ANALISI:
Analysis

	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Al %	Nb %	B %	Cu %
1	0.989	0.213	0.309	0.016	0.007	1.375	0.015	0.047	0.014	0.017	<0.0001	0.132
2	1.014	0.209	0.303	0.004	0.000	1.421	0.019	0.050	0.013	0.016	<0.0001	0.137
3	0.995	0.210	0.318	0.011	0.001	1.426	0.017	0.053	0.014	0.015	<0.0001	0.135
Med.	0.999	0.210	0.310	0.010	0.003	1.407	0.017	0.050	0.014	0.016	<0.0001	0.135

	Co %	Ti %	V %	W %	Zr %	Pb %	Sn %	Zn %	Ca %	Fe %
1	0.009	0.002	0.003	<0.001	<0.001	0.020	0.004	<0.001	<0.001	96.826
2	0.006	0.003	0.004	<0.001	<0.001	0.018	0.007	<0.001	<0.001	96.775
3	0.009	0.003	0.003	<0.001	<0.001	0.009	0.007	0.001	<0.001	96.773
Med.	0.008	0.003	0.003	<0.001	<0.001	0.016	0.006	<0.001	<0.001	96.792

Our **THERMAL TREATMENT** ensures quality and uniformity of the required characteristics.

Heat treatment furnaces automatically monitor times and temperatures.

Example of metallographic control

Certificato di Prova n.
Test report n.

Tipo di Prova: ESAME MICROSCOPICO MATERIALI FERROSI
Type of test: Microscopic examination of ferrous materials
Strumento: Microscopio metallografico BX51M ID.22
Equipment: Metallographic microscope BX51M ID.22
Metodo di Prova: UNI 3137:1965
Standard
Data di Esecuzione:
Date of execution

ATTACCO: **Nital 4**
Etchant

OBIETTIVO: **100x**
Lens

FOTOGRAFIA:
Photo

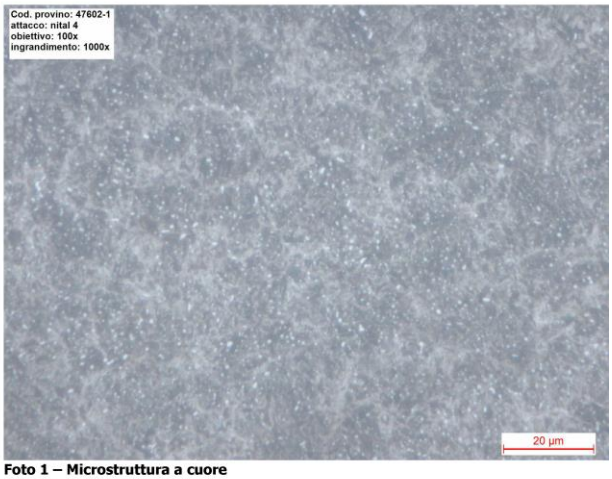


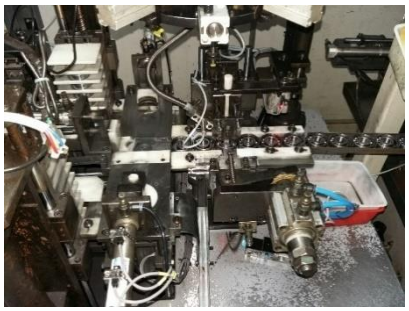
Foto 1 – Microstruttura a cuore
Photo 1 – Core microstructure

Grinding and lapping are performed on latest generation lines capable of achieving very high level of roughness and roundness.

Our laboratories are equipped with roughness and roundness testers through which the process is kept under control.

ASSEMBLY

Automatic assembly line control ensures bearing integrity and the correct amount of grease, while anderometers accurately detect vibration and noise levels.



In Motion's modern equipment performs life tests and, upon request, specific checks following customers' instructions.