

***Critical and Suggested Spare Parts List - Mixer Hercules EX***  
***Elenco Parti di Ricambio Critiche e Consigliate - Mixer Hercules EX***





***Suggested Spare Part List - Elenco Parti di Ricambio Consigliate***



<i>Code - Codice</i>	<i>Description</i>	<i>Descrizione</i>
1090016	V-Belt A88	Cinghia Trapezoidale A88
1060025	Motor (low and high speed)	Motore (bassa e alta velocità)
2010565	Complete Electrical Box	Centralina Completa
1064025	Green Lamp	Lampada Spia Verde
4000226	Emergency Push Button	Kit Pulsante Emergenza
1062062	Main Switch on/off	Interruttore Generale on/off
1062069	Selector Switch	Pulsante Comando
1068393	Timer 0-4 min.	Timer 0-4 min. spinato
1062243	Microswitch	Microinterruttore
1090093	Belt Spz 2120	Cinghia Spz 2120
4000315	Complete Command Plate with Handle	Piastra Comando Completa con Maniglia
4000600	Complete Handle	Maniglia Completa
2005698	Block Bush	Bussola di Bloccaggio
3001521 or 3001522	Lock Nut DX/SX	Chiocciola DX/SX
2000899	Upper Disc Plate	Piatto Superiore
2003856	Lower Plate	Piatto Comando
3001164	Shutter Door	Tapparella

## 1. MAINTENANCE

Before carrying out any maintenance:

1. Switch the machine off
2. Make sure the mains are not connected to the machine
3. Wear protective gloves and protective shoes

	<b>Checks and maintenance must be carried out with compliance with regulations contained in EN 60079-17:2002-07</b>	
<u>ALL ASSISTANCE OPERATIONS ON THE MACHINE MUST BE CARRIED OUT BY A QUALIFIED TECHNICIAN.</u>		

	<u>Warning! Plastic components have to be cleaned by using a wet cloth or antistatic products.</u>	
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## 2. REPAIRS

Repairs must be carried out according to criteria as in regulation IEC 60079-19: 1993-10.

When repairing operations are not carried out by the machine producer, they must be in repair shops with all necessary tools for repairing and final testing, and personnel must have technical knowledge and skills, also on safety rules and regulations.

In case of repairing of explosion proof parts, machine constructional features must not be modified, and repaired parts must be tested and controlled.

A written report on repairs must be made.

If, after repair, the machine is complying with the above mentioned regulations and the operating manual supplied by the producer, a label must be applied to the machine with the following:



- o Symbol R
- o name or trade-mark of the technician
- o serial number of the operation (number given by the technician)
- o date of the repair

In case of repairs which modify important features related to Ex protection (e.g. what above mentioned) and, therefore, the machine is no more complying with operating manual supplied by the producer, the producer's label must be removed and the machine must be used no longer in explosion risk classified environments.

To make the machine Ex again, it must be examined by the producer.

## 3. LIST OF REFERENCE STANDARDS

<p><b>EN 292-1:1992</b> Safety of machinery – general principles for design</p> <p><b>EN 294: 1993</b> Safety of machinery – safety distances</p> <p><b>EN 349: 1994</b> Safety of machinery – minimum gaps to avoid crushing of parts of the human body</p> <p><b>EN 418: 1994</b> Safety of machinery – emergency stops</p> <p><b>EN 60204:1997-05</b> Safety of machinery – electrical equipment of machines</p> <p><b>EN 1050: 1996-11</b> Safety of machinery – principles for risk assessment</p> <p><b>EN 1127-1: 1997-08</b> Explosive atmospheres – basic concepts and methodology</p> <p><b>EN 50014:1997-07+A1..A2</b> Electrical apparatus for potentially explosive atmospheres. General requirements</p>	<p><b>EN 50018:2000-11+A1</b> Electrical apparatus for potentially explosive atmospheres. Flameproof enclosures 'd'</p> <p><b>EN 50281-1-1:1998-09+EC:1999-08</b> Electrical apparatus with protection by enclosure for use in the presence of combustible dusts - Electrical apparatus protected by enclosures - Construction and testing</p> <p><b>EN 13463-1: 2001-11+EC: 2002-07</b> Non-electrical equipment for potentially explosive atmospheres - Basic methodology and requirements</p> <p><b>prEN 13463-5:2002-08</b> Non-electrical equipment intended For use in potentially explosive atmospheres - Part 5: Protection by Constructional safety c'</p> <p><b>98/37/CE</b> Machine directive</p> <p><b>73/23/CEE</b> Low Voltage Directive</p> <p><b>89/336/CEE</b> Electromagnetic Compatibility Directive</p>
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	<b>! WARNING !</b>	
<p>The motors of this equipment are protected by two thermal circuit breaker, calibrated and placed inside the electric box.</p> <p>In case of need, the protection shall be re-armed manually. Breakers are activated only in case of a dire anomaly.</p> <p>To re-arm the breakers the EX electrical box has to be opened. This operation needs to be carried out by a qualified technician, who must keep carefully to the supplier's instructions, attached to this manual.</p>		