



MAINTENANCE

**BELTS, CONVEYORS
AND ROLLERS**



MAINTENANCE OF CONVEYORS AND ROLLERS

BBM Service provides **complete maintenance services** on bottle conveyors packages of any tipe.

Our procedure includes mat dismantling for a complete cleaning of the device, with possible replacement of worn-out parts and update to new generation solutions that better the final result.

Moreover, BBM is also a provider of all compatible spare parts, and overhauled for a conveyor at its highest performance.

OUR STRENGHTS

Reduced machine downtime to the minimum, technical assistance always available

Possibility to recover part of the old equipment, optimizing costs

Technical department checks possible improvements for production optimization

PLAN AHEAD

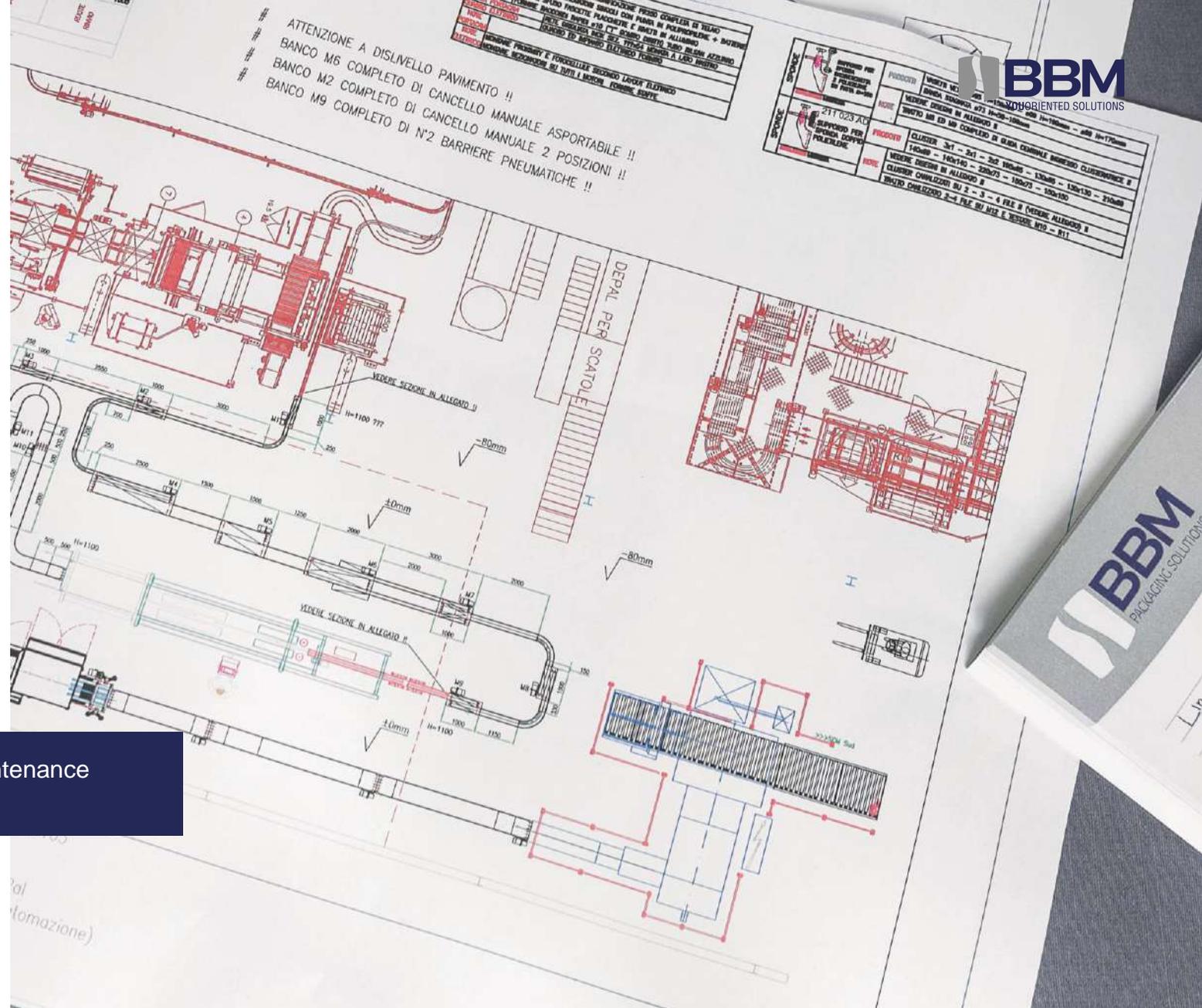
1. PLAN AHEAD

Planning activities help minimize and **avoid downtime**, restore and maintain performance, and save time and money through preventive measures that avoid problems arising.

OUR SERVICES

Diagnostic visits & audit

Preventive maintenance programs



SOLVE NOW

2. SOLVE NOW

Depending on individual needs, the activities carried out by the Service team generally concern

- **Maintenance** with verification of single parts
- **Revision** of worn components
- **Recovery** of missing elements

You can count on our quick support to get your production up and running again in the shortest possible time.

OUR SERVICES

Flexible and fast field service support

Compatible, tested and guaranteed spare parts



MAINTENANCE EXAMPLES



- Transmission check
- Replacing of rails, trailing and idle wheels, sides
- Shafts refurbishment



MAINTENANCE EXAMPLES



SOLVE NOW

MAINTENANCE EXAMPLES

BEFORE



AFTER



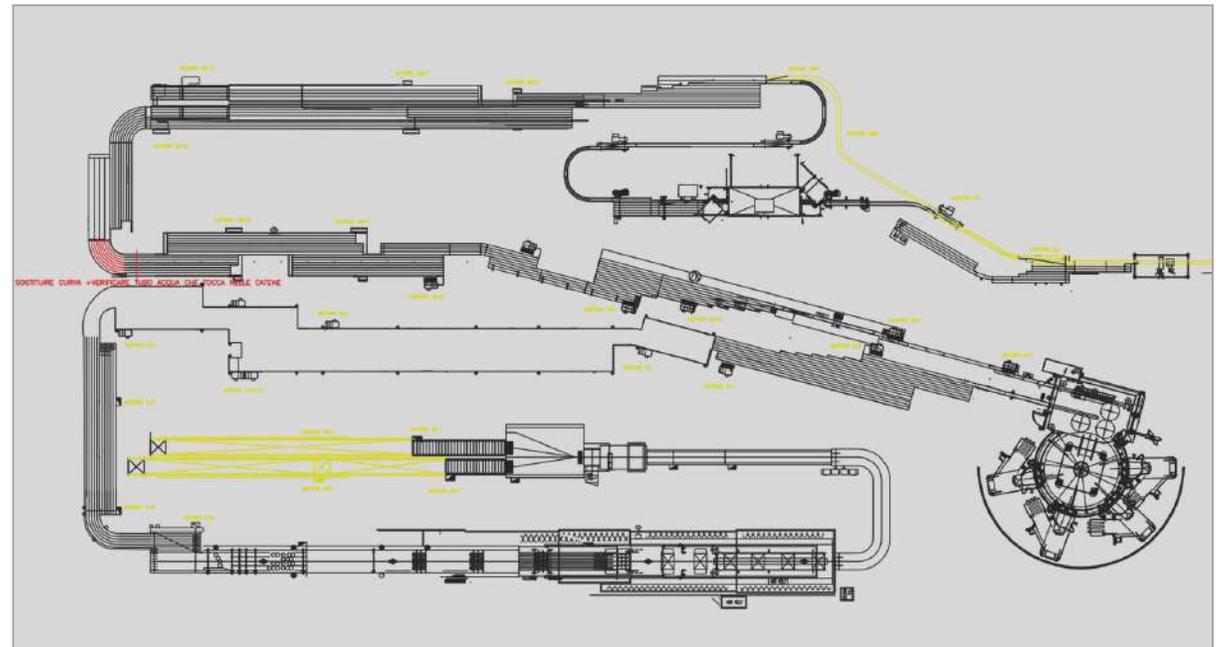
3. ENHANCE FOR TOMORROW

At the end of the job BBM provides a report of the activities carried out, which includes any upgrades and/or improvements suggested to optimize the performance of your bottling line.

OUR SERVICES

Analysis & Consulting

Upgrades & format changes



EXAMPLE OF CONVEYOR MAINTENANCE REPORT



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Service | machines | & much more

MODULO REPORT TECNICO

1. Dati Cliente

Cliente	XXXXXXXXXXXXXXXXXX
Stabilimento	XXXXXXX
Riferimento	Sig. XXXXXXXX XXXXXXXX

2. Dettagli intervento

Nome tecnico	Christian Normanni
Date	Dal 22/10 al 02/11/2016
Macchina	Nastri trasporto
Riferimento	Linea 4

3. Attività svolte

- Sostituzione supporti, alberi, catene, guide; sostituzione tappeti salita cartoni + pulizia nastri e verifica trasmissioni.
- Sostituzione catena rettilinea all'uscita riempitrice + sostituzione guide + guide passaggi zona scarto + pignoni t 21/30.
- Da motore D3 a MB6 sostituzione alberini rinvii + supporti + sostituzione albero motore MB6 diam.40 + rullini sostegno catena curvilinea.
- Motore MB7 sostituzione albero diam.40 + pignoni t 25/40.
- Motore MB12 sostituzione supporti (coio) yar 206 diam.30 + sostituito pignoni (z13, z15, z14, z16, z13, z12 ,z18 ¾ diam.30 + catena ¾) + sostituzione albero di rinvio diam.40.

- Motore MB13 sostituzione pignoni trasmissione + catena (5/8 z21, z23) + sostituzione albero rinvio diam.40 + rinvii 25/40 + accorciato catene.
 - Motore MB15 verifica alberi e trasmissioni (z23, 5/8 z23 5/8), trasmissione motore (z19, z25, 5/8 + catena 5/8) albero diam.35 rinvii 25/35, alta velocità ruote 23/35.
 - Motore MB16 albero diam.35 + trasmissione (pignone z19, z25, 5/8) + ruote t 23/35 + accorciato catene.
 - Motori MB17-18-D23-MB13-D25-D27-E32-E8-E24-E14-E16-E18 controllo catene + verificato trasmissioni.
 - Motore E10-E11 sostituito albero + supporti (coio) + ruote traino t21/40.
 - Motore MC3 sostituito motore + rulli gommati + tappeto + rifatti 2 alberi x rulli tensionamento tappeti (MC8), rifatti tondi polizzena per tensionamento catena5/8 pignoni traino doppi z16 n'2 diam30 z30 n'1 diam.30 z30 n'1 diam.35 5/8 + sostituito cuscinetti rulli gom.6206 2z n'4.
 - Motore 915 sostituito tenuta riduttore.
- 4. Note post attività**
- Consigliamo la sostituzione delle ruote guida tappeto delle due salite cartoni, in totale 24 ruote in alluminio;
 - Consigliamo la sostituzione della curva segnata in rosso nel layout.

UPGRADES AND IMPROVEMENTS

We have a team of qualified technicians and engineers for highly specialized activities that can offer know-how to help you find and develop the right solution to improve the performance of your line. Thus, achieving cost and time savings. **We share the problem with you, develop the solution and implement it.**

HOW WE WORK

Based on the audit performed by our specialized technicians, we can suggest some activities and modifications, the activities can be carried out by our Service team, and usually concern:

Maintenance with checking of single parts, revision of worn components and restoration of missing elements

Replacement of sides with improved solutions

Project and implementation of upgrades to increase the efficiency of your line

Engineering of the lines with possible re-layout activities

AUTOMATIC GUIDE ADJUSTMENT SYSTEM OF CONVEYORS

AUTOMATION FOR A MORE EFFICIENT PROCESS

The automatic format change system of conveyors allows a **quick and precise adjustment of the containment guides** by simply calling up the program from the touch screen panel, without manual intervention by the operator.

The transmission is made automatically across the board through articulated joints and position encoders. This system ensures: maximum accuracy of the positioning of the side, repeatability of adjustments over time, drastically reduced change times.

This system can be applied to all conveying solutions: straight, curved, sloped, elevated sections.



AUTOMATIC GUIDE ADJUSTMENT SYSTEM OF CONVEYORS

FEATURES

- Stainless steel frame with labelsaver guide
- Mechanical transmission with unknotted joints and transfer cases
- Guide positioning by encoder and rack
- Compensation bending guides system
- High quality components



Reduced maintenance in the subsequent years

Quick installation and start-up: the components arrive already pre-assembled

Completely online managed system from a touch screen operator pane

1. AUTOMATIC GUIDE ADJUSTMENT SYSTEM OF CONVEYORS

CASE HISTORY – COCA COLA HBC

CUSTOMER REQUEST

- Production of new format
- Decrease changeover time
- Avoid damage to packages

STATUS QUO

Line composed of roller belts with fixed sides, impossible to make adjustments and format changes

BBM SOLUTION:

- Multi-format line: from a single-format line (3x2 on 2 lanes) to a multi-format line (1x3 on 4 lanes and 2x3 on 3 lanes)
- Reduction of format changeover times: we supply guides that need to be installed only at the beginning and at the end of the belt; the belts without sides in the curved sections allow the production of more formats by changing only the guides in the straight sections.
- Reduction of package problems: without the fixed containment guides and without the roller belt, friction in curves and consequent damage to the packages is avoided.



2. REPLACEMENT OF SIDES WITH MARBET SUPPORTS, RODS, KNOBS

BEFORE



AFTER

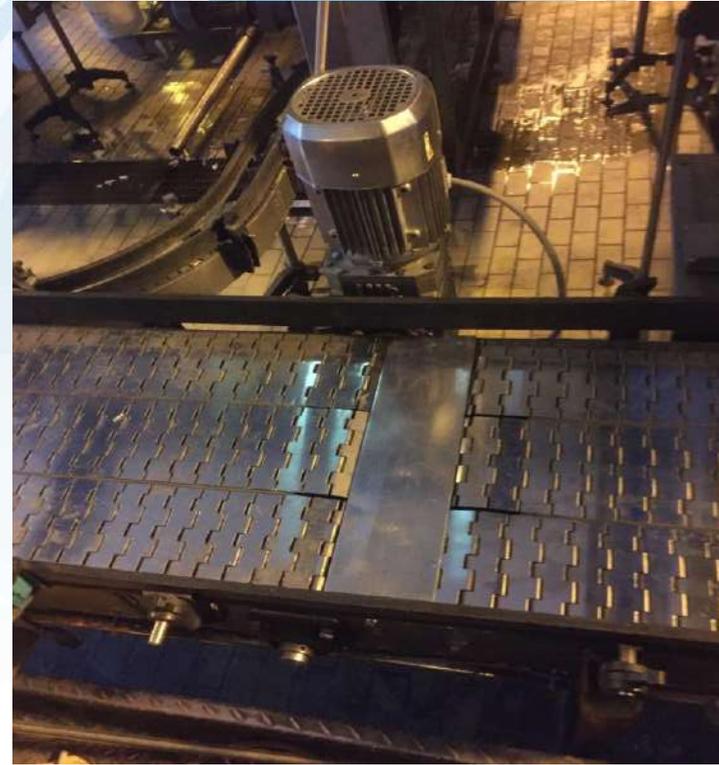


3. ADD TRANSMISSION THROUGH LINE ENGINEERING

BEFORE



AFTER



4. INSERTION OF A CASE-TURNER TO SPEED UP THE LINE

BEFORE



AFTER



REFERENCES



THANK YOU.

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