

6.1 LUBRIFICAZIONE

⚠ ATTENZIONE PERICOLO

Tutte le operazioni di lubrificazione devono essere eseguite a macchina ferma, corrente disinserita e pulsante d'arresto d'emergenza inserito.

Al fine di preservare la macchina da usure, grippaggi o altri gravi danni ai meccanismi, occorre lubrificare ed ingrassare periodicamente tutti i punti previsti ed indicati in questo capitolo.

Occorre inoltre osservare scrupolosamente i tempi e le quantità indicate.

Symbols	Brand names and types	Consistency (NLGI)	Manipul. penetration (dyn)	Dropping point A.S.T.M. (°C)
	AGIP GE MU	2	280	190
	AGIP GE MU/EP	1	325	185
	AGIP GR SLL	0	380	190
	KLUBER Shabura GS/NBUS		280	220

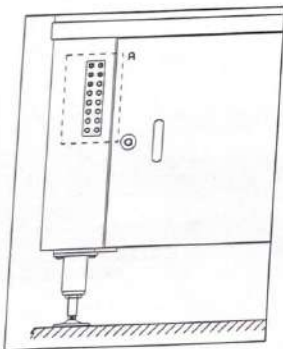
Greases characteristics table

Symbols	Brand names and types	Classification ISO	Viscosity 40° C cSt	Viscosity index A.S.T.M.	Flaming point V.A. (°C)	Dropping point (°C)	Specific weight at 15° C (g/dl)	Densifying
	AGIP Biola	100	100	95	230	-24	0.895	40/40/0 40
	AGIP ATF Dexron		35	174	205	-42	0.865	
	AGIP Biola S	220	235	205	210	-30	1.010	
	AGIP Biola S	150	135	180	210	-30	1.005	

Oils characteristics table

LUBRIFICAZIONE CENTRALIZZATA

Sul fronte basamento macchina sono raggruppati tutti i punti di ingrassaggio principali A.



6.1 LUBRICATION

⚠ WARNING DANGER

All lubrication operations must be performed with the machine stationary, the current disconnected and the emergency stop button engaged.

In order to protect the machine from wear, seizures, or other serious damage to the mechanisms, all of the points indicated in this chapter must be periodically lubricated and greased.

Adhere closely to the times and quantities indicated.

CENTRALIZED LUBRICATION

The main greasing points A are all grouped together on the front machine frame.

Controllare ed ingrassare settimanalmente i gruppi elencati nella seguente tabella:

Check and grease the units listed in the table below every week:

ATTENZIONE

Il simbolo ● identifica il gruppo presente sulla macchina (vedi tabella).

WARNING

The symbol ● identifies the unit present on the machine (see table).

Number of hours	POINTS TO LUBRICATE	Pos.	OPERATIONS	Symbol	Quantity (cm ³)
40	● Carousel 1 st -2 nd range Fig. 6.1				
	Carousel column upper bearing	3	Pump with carousel moving slowly	△	2
	Carousel hub central bearings	2			
	Carousel column lower bearing	4			
40	Carousel 3 rd range Fig. 6.2				
	Carousel column upper bearing	7			
	Carousel hub central bearings	6			
	Carousel column lower bearing	8			
40	Carousel 4 th range Fig. 6.3				
	Carousel column upper bearing	11			
	Carousel hub central bearings	10			
	Carousel column lower bearing	12			
40	Carousel 5-6 th range Fig. 6.4				
	Carousel column upper bearing	58			
	Carousel hub central bearings	59			
40	Fixed height carousel Fig. 6.5				
	Carousel column upper bearing	13			
	Carousel column lower bearing	14			
40	● Stars 1 st -2 nd -3 rd -4 th range Fig. 6.6 and 6.7				
	Entrance starwheel bearings	16	Pump with carousel moving slowly	△	2
	Exit starwheel bearings	17			
40	Stars 5 th -6 th range and Gripstar HS Fig. 6.8 and 6.9				
	Entrance starwheel upper bearing	18			
	Entrance starwheel lower bearing	19			
	Exit starwheel upper bearing	20			
	Exit starwheel lower bearing	21			
40	Gripstar HS carousel command Fig. 6.10				
	Geared ring	22	Pump with carousel moving slowly	△	2
	Geared ring control pinion bearing	23			
	Geared ring pinion	24			
40	Gripstar HS carousel raising columns Fig. 6.11				
	Lifting hubs	26		△	2
40	● UCP supports Fig. 6.12	15		△	2

Centralized lubrication table

PROCOMAC
Robust Impact Technology

MANUTENZIONE E PICCOLI INTERVENTI
MAINTENANCE AND SMALL INTERVENTIONS

Gripstar

Chap. 6

Ed. 02-97

Il nuovo controllo periodicamente (tramite l'apposito
giunto trasparente) che l'olio sia sempre al livello
giusto. In caso di diminuzione (rispetto al livello nuovo),
aggiungere olio.

We recommend that you check periodically (with the
proper rod or transparent plug) that oil is always at the
right level. In case of decreases, add new oil.

GEAR BOX TYPE	RUNNING IN PERIOD	LUBRICATION INTERVAL
BY 100 AC	400 working hours	12500 working hours
BY 100 350	400 working hours	10000 working hours
BY 100 25	400 working hours	18000 working hours

6.3 REVISIONE DELLA PINZA PORTABOTTIGLIA

PARTI SOGGETTE AD USURA

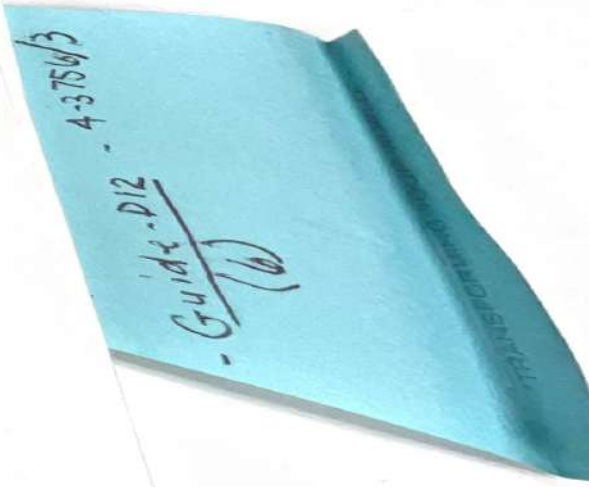
La pinza portabottiglia può necessitare di manutenzione
periodica. Qualora si sia verificata la necessità di
manutenzione, si deve intervenire in buone condizioni per
maneggiare la pinza.

La pinza portabottiglia è in grado di portare la pinza
portabottiglia. La pinza portabottiglia è in grado di
portare la pinza portabottiglia. La pinza portabottiglia
è in grado di portare la pinza portabottiglia.

6.3 OVERHAUL OF THE BOTTLE GRIPPER

PARTS SUBJECT TO WEAR

The bottle-holder gripper might need serv-
ice after normal wear or because of damage.
To keep the bottle gripper in good condi-
tion, check the gripper in good condi-
tion every six months.
On the roller-holder condition of
the guide normal wear.
To disassemble the
line can easily
The with easily
The with easily



ating collector

PARTS LIST

AC
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MANUTENZIONE E PICCOLI INTERVENTI
MAINTENANCE AND SMALL INTERVENTIONS

Gripstar

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Chap.

6

TECHNICAL ST
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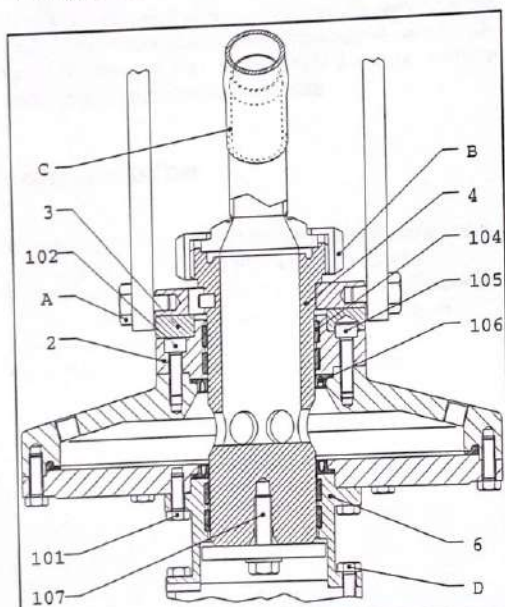
stafte di

- Staccare tutti i tubi flessibili di collegamento collettore-valvole.
- Al banco di lavoro svitare la vite **107** e il sfilare il corpo **4**.
- Svitare le viti **102 - 105** e **101** che uniscono rispettivamente il canotto **2** ed il supporto **6** al distributore.
- Procedere alla sostituzione delle tenute **106** usurate.

IMPORTANTE

Al fine di assicurare una perfetta tenuta dell'apparato si raccomanda una particolare attenzione nel condurre l'inserimento delle nuove tenute onde evitare danneggiamenti alle stesse.

- Verificare lo stato di usura degli anelli **104** e **3** ed eventualmente sostituirli.
- Eseguire un controllo finale, assemblare i componenti ripetendo tutte le operazioni sopra descritte con procedura inversa.



Single rotating collector

COLLETORE ROTANTE DOPPIO

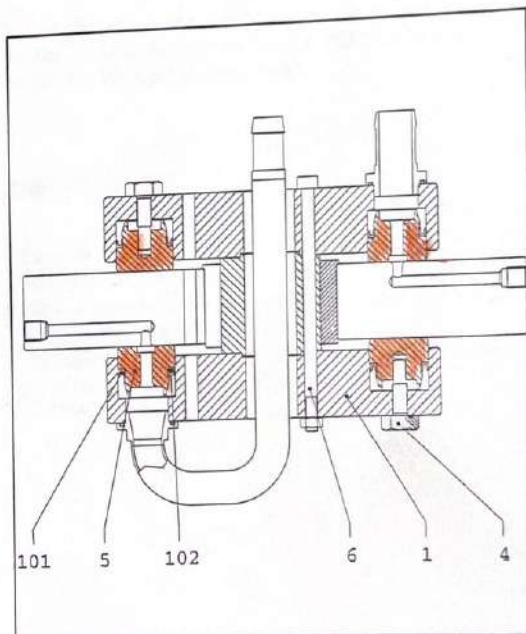
- Chiudere l'alimentazione dell'acqua di trattamento.
- Scollegare tutti i tubi di alimentazione collettore.

- Loosen screws **A** and detach the manifold supporting gudgeon pins.
- Loosen screws **D**.
- Detach all flexible manifolds valves connecting pipes.
- On the work table loosen screws **107** and take off the body **4**.
- Loosen screws **102 - 105** and **101** that respectively connect bushing **2** and support **6** to distributor (manifold).
- Proceed with worn seals **106** replacement.

IMPORTANT

Particular attention has to be given during the introduction of new seals in order to avoid damaging them.

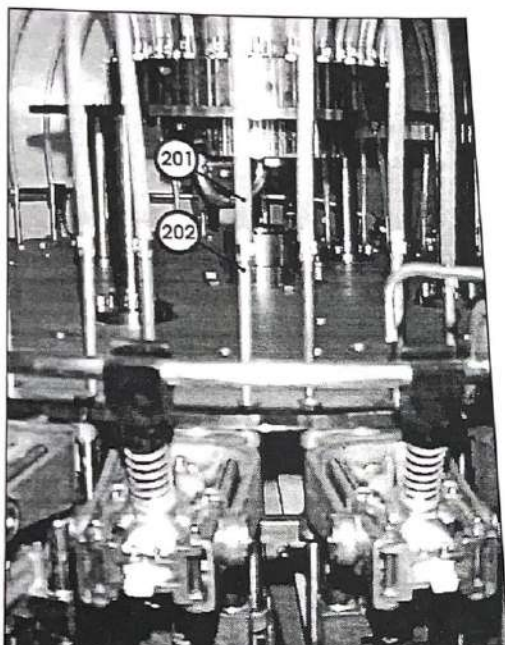
- Check if rings **104** and **3** are worn and if necessary replace them.
- Make a last check, assemble the components and repeat every operation in the opposite sense.



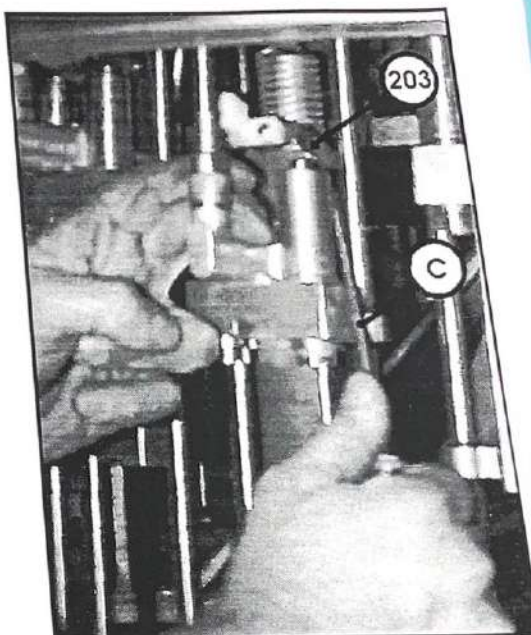
Double rotating collector

DOUBLE ROTATING COLLECTOR

- Close the treatment water supply.
- Disconnect all of the manifold feed tubes.



Dismantling the collector distribution tubing



Dismantling the feeler

- Al banco di lavoro sfilare lo stelo 1 e sostituire la tenuta 103 (per montare la nuova tenuta usare l'attrezzatura A).
- Togliere l'anello 5 e sfilare la boccia 2 inserendo un cacciapine dal lato inferiore della valvola.
- Sostituire la tenuta 102 utilizzando l'attrezzatura B per il montaggio di quella nuova.
- Verificare l'integrità degli OR 104.
- Infilare la boccia 2 (sostituire la vecchia boccia se usurata o danneggiata) e bloccarla con l'anello 5.
- Infilare lo stelo 1 nel corpo valvola 4 (sostituire lo stelo se usurato o danneggiato).
- Infilare la valvola nella sua sede.
- Inserire la molla 105 e chiudere la valvola con la ghiera 3.

Ripetere la sequenza sopra descritta per tutte le valvole di spruzzatura presenti sulla macchina.

- At the work bench slide out the rod (1) and replace the seal (103) (To mount the new seal use equipment A).
- Remove the ring 5 and slide out the sleeve 2 by inserting a screwdriver into the lower side of the valve.
- Replace the seal 102, using the equipment B for the mounting of the new ring.
- Check the condition of the OR 104.
- Slide in the sleeve 2 (replace the old sleeve if it is worn or damaged) and secure it with the ring 5.
- Slide the rod 1 into the valve body 4 (replace the rod if it is worn or damaged).
- Slide the valve into its housing
- Insert the spring 105 and close the valve with the locknut 3.

Repeat the sequence described above for all of the spraying valves found on the machine

- A-375W/3
- Guide-D12
(6)

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IMPIANTI PER IMBOTTIGLIAMENTO

TAVOLA TECNICA

DATA

27.05.98

TAV. N°

340310123

P5399 ZEPF TECHNOLOGIES - WENTE VINEYARDS

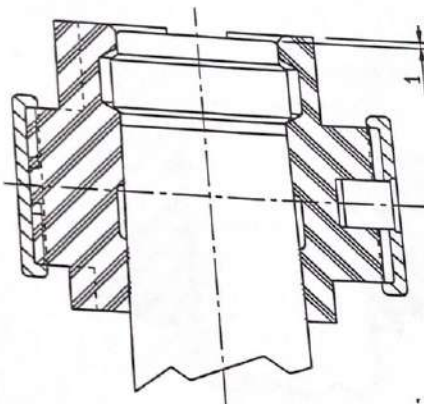
GRIPSTAR 2S 6.24.136.163

27-MAY-98

In data

Richiesta da: colo

THIS DRAWING IS VALID FOR BOTTLE : 0.75 Lt. WP2 Push-Up Claret GLASS
: 0.75 Lt. W137V Push-Up Burgandy GLASS
: 0.75 Lt. W5 Claret GLASS



RUBBER PAD 34001191/2 P
ITEM A : GREEN

REPLACEMENT OF THE RUBBER PADS OF THE BOTTLE GRIPPER

The rubber pads which are inserted on the two arms of the bottle gripper are specific to the shape and dimensions of the bottle-neck.

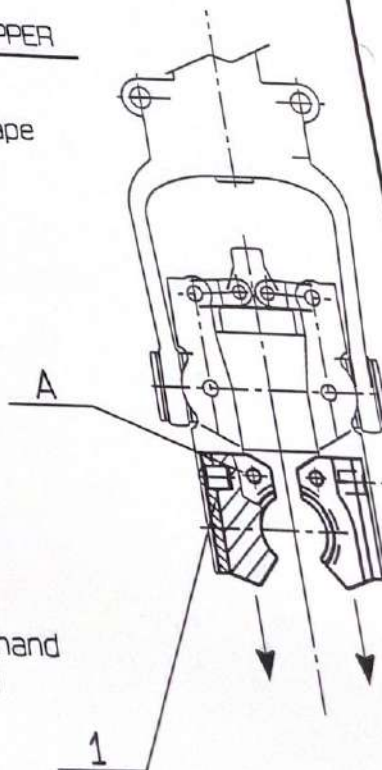
If the bottles have different bottle-necks (owing to the diameter, shape or both) it becomes necessary to replace the rubber pads. Proceed in this way :

- The rubber pads replacement is a simple and completely manual operation, take off each half as indicated by the arrow and reposition the new set in the same way.

NOTE :

- Each bottle gripper is fitted with a left hand and a right hand pad which have to be mounted with the coloured pointer upwards (item A)
A series of pads is different to another because of the different coloured point; to make sure; not to mix them it is recommended to store them in different boxes to avoid errors and fasten replacement.

- Make sure that the height position of the bottle with reference to the rubber pads corresponds to the scheme upper indicated.



A-3756/3

- Guide-D12
(6)

CHAP. 1 INTRODUCTION

After sale service
Spare parts form

PAGE 4

PAGE 5

CHAP. 2 SPARE PARTS LIST

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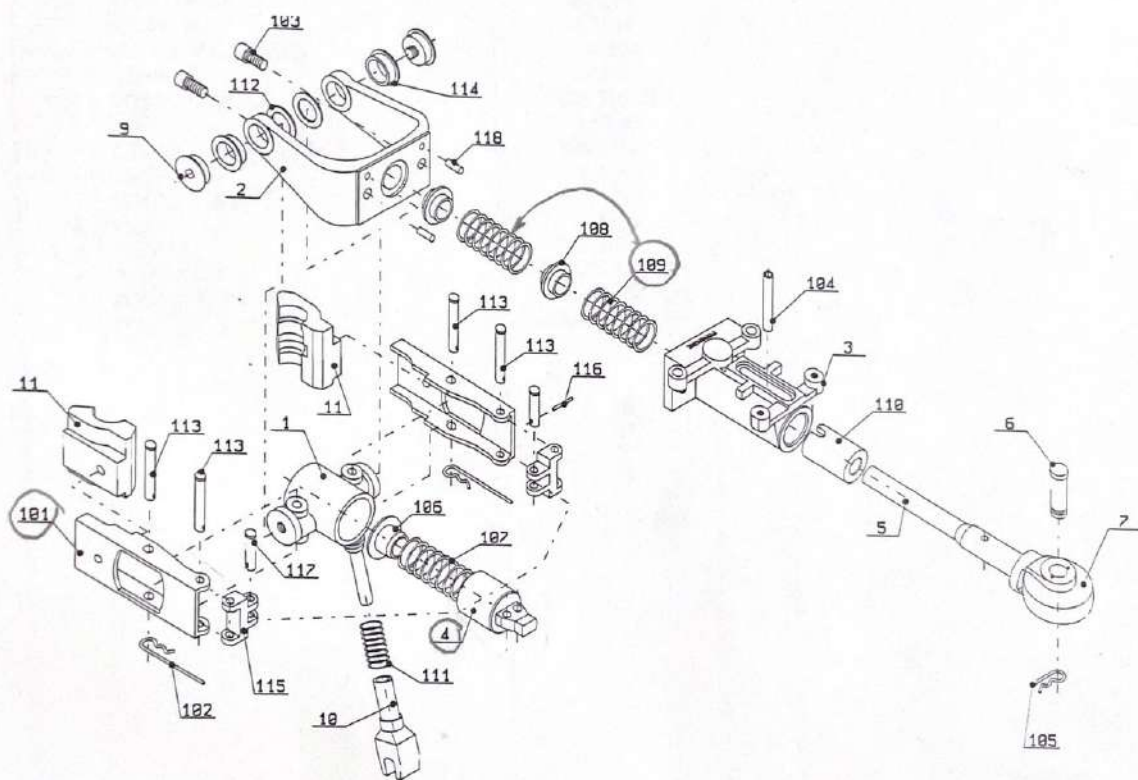
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**PINZA
BOTTLE GRIPPER**

Table
95.012.798

Ed. 07 - 97



Group: BOTTLE GRIPPER

Table: 95.012.798

Item	Description	Procomac code	Quant. 1	Normal wear 1	Emerg. 2	Cus
✓1	BODY 1	4-6565	1			
✓2	FORK 1	4-19271	1			
✓3	BODY 1	4-19276	1			
✓4	CURSOR 6	4-6551/3	1	1	6	
✓5	CURSOR	4-6536	1		6	
✓6	BOARD 2	4-6556	1	1		
✓7	ROLLER 2	4-6554	1	1		
✓9	BOARD 6	4-607	2		6	
✓10	GUIDE D12 4	4-3756/3	1	1		
11	- RUBBER PADS (GREEN)	34001191/2P	1		6	
	- RUBBER PADS (BROWN)	4-40745/1P	1		6	
✓101	FORK 4	4-17315	2	2	6	
✓102	SPRING F.D2 8	4-6261	2			
✓103	SCREW M8x12 10	720090604/02	2			
✓104	PLUG 5x40 4	725130918/01	1			
✓105	SPRING F.D2 4	4-6259	1			
✓106	SLEEVE 4	4-5659	1			
✓107	SPRING P.20/2/80 6	4-18624	1		6	
✓108	SLEEVE 6	4-5657	2	2		
✓109	SPRING C. 22.8/1.8/64 8	90010109/3	2	2		
✓110	SLEEVE 2	4-5656	1	1		
✓111	SPRING P.19.6/1.2/45 8	90010121	1	1		
✓112	WASHER 10	4-5662	2			
✓113	BOARD 5.8x43 6	4-36703/1	2	2		
✓114	SLEEVE 10	4-5664	2	2		
✓115	FORK 6	711000023	2	2	6	
✓116	PLUG 2x18 6	725130309/01	1			
✓117	BOARD 5.2x21.5 6	4-36703/1	2	2		
✓118	PIN 6x14 6	725033805/02	2			

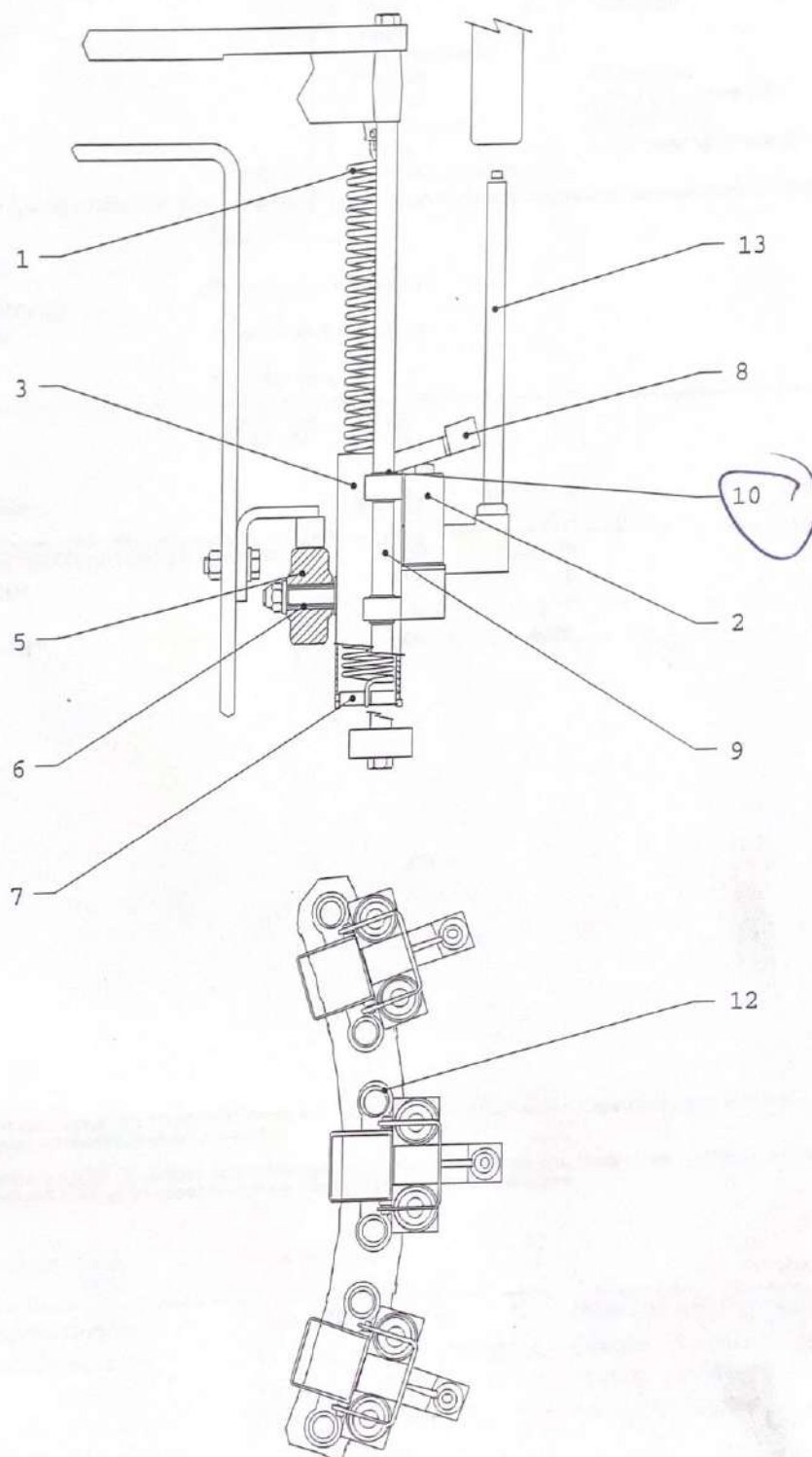
 TECHNICAL SUPPORT
 (800) 664-4660

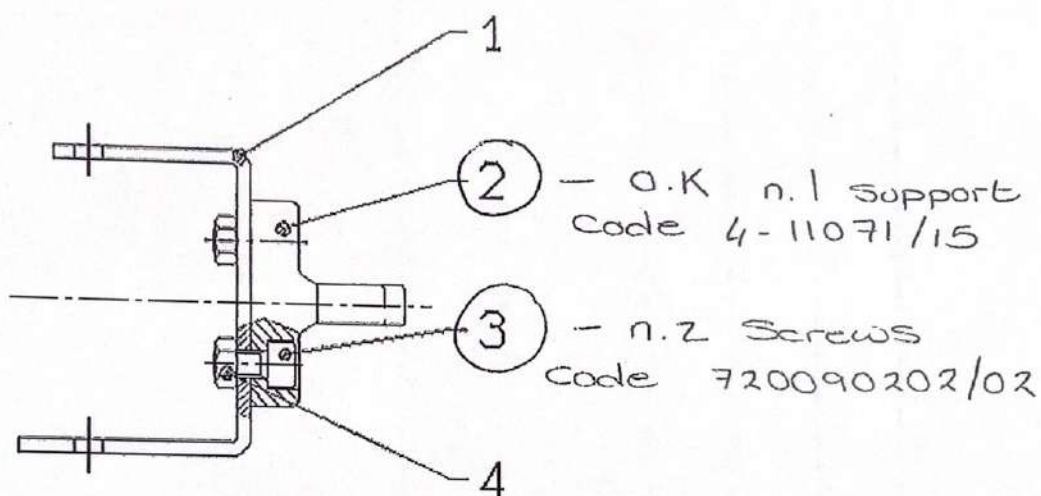
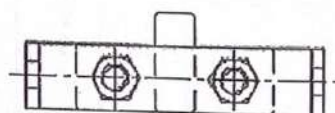
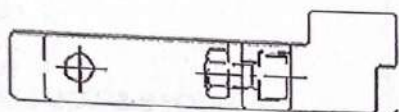

Procomac - Kinsen

N° OF BOTTLE GRIPPERS INSTALLED ON MACHINE=24

1= Shown quantities have to be multiplied by number reported above.

2= Shown quantities are valid independently by number reported above.





			X

SIMILARE AL

CRITICITA' D.O.L.

1

CONNESSA

FIXA CAPRA
CODICE

DENOMINAZIONE

TESTIMONE

QUANTITA'

4-11070/15

INDICE DI MODIFICA

DATA FIRMA

Group: SPRAYERS RAISING
Table: 95.012.268

Ed. 07 - 97

Item	Description	Procomac code	Quant.	Normal wear ¹	Emerg. ²	Customer code
✓ 1	SPRING 4	4-7495	1			
✓ 2	RINSING VALVE 1 (SEE TAB. 95.012.1703)					
3	BODY	34013167/5	1			
✓ 5	ROLLER 4	07001054	1	1		
✓ 6	SPACER 4	34013157	1	1		
7	STOP SPRING	34013113	1			
✓ 8	FEELER 4	4-11070/15	1	1		
✓ 9	BOARD 2	34013103/7	2			
→ 10	SLEEVE 2	34013104	2	2		
12	SLEEVE 4	34035107/1	1	1		
✓ 13	DOUBLE MOVABLE NOZZLE 4 (SEE TAB. 95.012.1449)					

N° OF SPRAYERS RAISING INSTALLED ON MACHINE=24

1= Shown quantities have to be multiplied by number reported above.

2= Shown quantities are valid independently by number reported above.

Group: DOUBLE MOVABLE NOZZLE

Table: 95.012.1449

Ed. 07 - 97

Item	Description	Procomac code	Quant. ¹	Normal wear ¹	Emerg. ²	Customer code
✓1	JUNCTION 1	4-8026	1	1		
✓2	NOZZLE 4	34019112/34	1		1	
✓3	TUBE 4	4-8254	1		1	
✓101	O-RING 2037 EPDM 10	740030013/05	1	1		
✓103	O-RING 106 D.6.75X1.78 EPDM 10	740030008/05	2	2		

N° OF DOUBLE MOVABLE NOZZLES INSTALLED ON MACHINE=24

1= Shown quantities have to be multiplied by number reported above.

2= Shown quantities are valid independently by number reported above.

Group: SPRAYING VALVE DX

Table: 95.012.1703

Ed. 07 - 97

Item	Description	Procomac code	Quant. 1	Normal wear 1	Emerg. 2	Customer code
1	STEM	34004103/1	1	1		
2	SLEEVE	34004102	1	1		
3	SWIVEL JOINT	34004112/3	1			
4	BOTTLE POSITION VALVE	34004114/20	1			
5	RETAINING RING 2	34004111/1	1			
✓102	GASKET EAR 8	7401176000900	1	1	3	
✓103	SEAL RUBBER 8	4-1770/2	1	1	3	
✓104	O-RING 2075 8	740030033/03	2			
✓105	SPRING 4	4-32672/2	1	1	3	

N° OF SPRAYING VALVES INSTALLED ON MACHINE=24

1= Shown quantities have to be multiplied by number reported above.

2= Shown quantities are valid independently by number reported above.

Group: DOUBLE ROTATING COLLECTOR

Table: 95.012.510

Ed. 07 - 97

Item	Description	Procomac code	Quant. 1	Normal wear 1	Emerg. 2	Customer code
1	BODY					
2	SPACER	4-6177	2			
3		4-5987	1	1		
5	SLEEVE					
6	PLUG	4-6174	1	1		
✓ 7	DISTRIBUTOR 2	34025179	4	4		
8		34025180/2	2	2		
✓ 101	GASKET 2					
✓ 102	GASKET 2	7401176000500	2	2		
✓ 103	O-R 12	7401176001200	2	2		
✓ A	HOSE-HOLDER 2	740030020/05	4	4		
✓ B	TUBE 6X8 TEFLON 1	90029037	48	48		
		701490003	25MT	25MT		

Group: PNEUMATIC SYSTEM**Table: 95.012.1343**

Ed. 07 - 97

Item	Description	Procomac code	Quant. ¹	Normal wear ¹	Emerg. ²	Customer code
104	FILTER-PRESSURE REDUCER	791550421	1		1	
107	JUNCTION	790092389	1			
108	CABLE HOLDER	87807060001	1			
109	TUBE 8X6 RILSAN NEUTRO	701460004/00	1MT	1MT		
110	JUNCTION	790092340	1			
204	JUNCTION	790092388	1			
207	JUNCTION	790092273	1			
301	SILENCER	799011801	1			
302	ELECTRICAL CONNECTION	791521001	1			
303	JUNCTION	790092337	1			
304	VALVE 3/2	791511602	1		1	

Group: COLLECTOR SUPPLY

Table: 95.012.1705

Ed. 07 - 97

Item	Description	Procomac code	Quant. ¹	Normal wear ¹	Emerg. ²	Customer code
106	GASKET DN25	4-7444/25	4	4		
109	GASKET DN20	807090122/04	5	5		
116	GASKET DN 25	807090123/04	3	3		
118	VALVE AISI 304	801092104/00	1	1		
121	O-RING 3118	740030055/05	2	2		
123	TUBE 1" SILICON	701580205	1.5MT	1.5MT		
132	VALVE AISI 304	801092103/00	1	1		
A	PRESSURE REDUCER 1/2"	4-23187	2		1	
B	PRESSURE- GAUGE	809101002E424	2		2	
C	JUNCTION	790092017	2			
D	FLOW REGULATOR	793010203	2			
E	GEMU VALVE	801110039	1		1	
F	GEMU VALVE	801110024	1		1	

Group: RINSER COMMAND TRANSMISSION

Table: 95.012.1706

Ed. 07 - 97

Item	Description	Procomac code	Quant. ¹	Normal wear ¹	Emerg. ²	Customer code
1	SHAFT	4-32929/4	1			
4	PULLEY	4-20174/4	1			
7	PULLEY	4-11313/20	1			
101	SUPPORT	731010007	2	2		
104	BELT	752090103/02	1	1		
106	KEY	727010610	1			
901	STRETCHER	4-21158/601	1			

Group: CAROUSEL COMMAND

Table: 95.012.1188

Ed. 07 - 97

Item	Description	Procomac code	Quant. ¹	Normal wear ¹	Emerg. ²	Customer code
3	SHAFT	4-6653/1	1			
4	HUB	4-28	1			
5	BUSHING	4-20610	1			
6	SLEEVE	34007136	1			
104	KEY	727010616	1	1		
105	O-RING	740030077/00	1	1		
106	KEY	727010611	1	1		
108	O-RING	740030135/00	1	1		
110	BEARING	730010212	1	1		
111	GROMMET	740010118/00	1	1		
112	RETAINING	724030030/00	1	1		
A	REDUCTION GEAR	880200300400	1		1	

Group: KINEMATIC MOTIONS

Table: 95.012.1226

Ed. 07 - 97

Item	Description	Procomac code	Quant. 1	Normal wear 1	Emerg. 2	Customer code
1	PULLEY	34008111	1	1		
2	PULLEY	4-6048	1	1		
4	PULLEY	34008112	1	1		
5	PULLEY	34011128	1			
6	PULLEY	23003103/16	1			
7	PULLEY	90050135	1	1		
8	PULLEY	90050133	1	1		
9	GEAR	4-6150	1	1		
10	GEAR	4-6170	1	1		
107	BELT	752062103	1		1	
112	BELT	752060502	1		1	
113	BELT	752061002	1		1	
901	STRETCHER	34008004/001	1	1		
902	STRETCHER	07030005/008	1			

Group: SCROLL COMMAND TRANSMISSION

Table: 95.012.459

Ed. 07 - 97

Item	Description	Procomac code	Quant.	Normal wear ¹	Emerg. ²	Customer code
3	SPACER	34011123	1			
4	PIN	34011121/3	1			
101	BEARING 6006	730010288	2	2		
103	RETAINING RING	724030034/00	2	2		
104	GROMMET	740010271/00	1	1		

Group: CAROUSEL

Table: 95.012.298

Ed. 07 - 97

Item	Description	Procomac code	Quant. 1	Normal wear 1	Emerg. 2	Customer code
1	CONICAL HUB					
3	HUB	34002239/1	1	1		
5	SPACER	34002246/1	1			
6	BEARING SUPPORT	34002118/2	1			
7	RING NUT	34002323/1	1			
9	RING	34002113/1	1			
10	RING	34002110/4	1			
13	RING	34002110/3	1			
14	RING	34002116	1			
15	SPACER	34002115	1			
16	HUB	34002183/1	1			
17	SHAFT	34002182	1			
18	RING NUT	34002329/2	1			
101	O-RING 162	34002145/1	1			
103	BEARING 7306	740030102/00	1	1		
104	RETAINING RING	730030025	2	2		
111	BEARING 6014	724030043/00	1			
112	BEARING 6011	730010625	2	2		
113	RETAINING RING 190	730010510	1	1		
114	BEARING 6212	724030050/00	1	1		
115	RETAINING RING 1110	730010559	1	1		
119	KEY	724030057/00	1	1		
121	O-RING 156	727010808	1	1		
124	O-RING 4875	740030092/05	1	1		
129	GROMMET	740030227/00	1	1		
130	RETAINING RING	740010317/00	1	1		
131	BEARING	724010026/00	1			
132	RETAINING RING	730240059	2	2		
		90055001	1			

Group: CAROUSEL RAISING

Table: 95.012.1115

Ed. 07 - 97

Item	Description	Procomac code	Quant. 1	Normal wear 1	Emerg. 2	Customer code
1	SUPPORT					
2	PLATE	34003117/1	2			
3	FULCRUM	34003120/1	2			
4	PLATE	34003154/1	6			
5	—	34003109/25	2			
6	SPACER					
7	BEARINGS RING	34003113/1	1			
8	HUB	34003128	1			
9	DOWEL	34003122	1			
10	STOP RING	34003124/1	1			
11	SCREW	34003131/1	2	2		
12	PLATE	34003126/10	1			
13	PIN	4-23005	2			
14	PLATE	34003104/7	1			
15	CONNECTIONG ROD	34003125/6	2			
16	PIN	4-22847	1			
17	PLATE	34003104	2			
109	RETAINING RING	4-22836	2			
110	BEARING 6006	724030034/00	1	1		
111	BEARING	730010292	1	1		
117	BEARING	730070025	1	1		
		730243016	4	4		

Group: STAR SHAFT

Table: 95.012.690

Ed. 07 - 97

Item	Description	Pracomac code	Quant. ¹	Normal wear ¹	Emerg. ²	Customer code
1	FLANGE	23002148	1			
2	BUSHING	4-11652/2	1			
3	SHAFT	23002161/11	1			
4	HUB	4-11679	1			
5	RING NUT	23002160	1			
6	WASHER	07016033/18	1			
7	TUBE	4-12229/1	1			
8	JUNCTION	4-12230	1			
102	BELLEVILLE WASHER	731340058	1			
103	GROMMET	740010249/00	1	1		
106	BEARING 6006	730010288	2	2		
108	GROMMET	740010296/00	1	1		
109	O-RING 4118	740030054/00	1	1		
110	PIN	725034011/02	1	1		
111	KEY	727010510	2	2		
112	PLUG	725131213/00	2	2		
113	NIPPLE	790095050/02	2	2		
114	O-RING 4425	740030151/01	1	1		
118	RETAINING RING	724070027/00	1	1		
119	RETAINING RING	724030034/00	5	5		
120	RING	730251098	1	1		
121	O-RING 3075	740030032/01	4			

N° OF STARS INSTALLED ON MACHINE=2

1= Shown quantities have to be multiplied by number reported above.

2= Shown quantities are valid independently by number reported above.