



progalvano™

...gaining quality!

- 5 ROTOR EXPORT 2000
- 10 ROTOR EXPORT 2000/M
- 15 ROTOR 2000
- 21 ROTOR GEMELLI / *TWIN ROTOR BARRELS*
- 26 ROTOR A TRASMISSIONE ESTERNA / *EXTERNAL SIDE DRIVE BARRELS*
- 29 ROTOR SPECIALI / *SPECIAL BARRELS*
- 30 ROTOR EXPORT TRIFOGLIO / *CLOVER BARREL*
- 30 ROTOR EXPORT A 2 O 4 BARILETTI / *ROTOR EXPORT WITH 2 OR 4 CYLINDERS*
- 31 ROTOR IN ACCIAIO INOX / *STAINLESS STEEL BARREL*
- 31 ROTOR CON SISTEMA INIEZIONE LIQUIDI / *LIQUIDS INJECTION DEVICE FOR ROTOR*
- 32 CONTATTI CATODICI SPECIALI / *SPECIAL CATHODIC CONTACTS*
- 33 CONTATTO CATODICO APERTO A DISCO / *CATHODE CONTACT "OPEN" WITH DISC*
- 34 CONTATTO CATODICO STAGNO A DISCO / *WATERTIGHT DISC CATHODE CONTACT*
- 35 CONTATTO CATODICO APERTO A BARRETTE / *CATHODE CONTACT "OPEN" WITH BARS*
- 36 CONTATTO CATODICO STAGNO A BARRETTE / *WATERTIGHT CATHODE CONTACT WITH BARS*
- 37 MONOCONTATTO PER PLASTICA / *SINGLE CATHODE CONTACT FOR PLASTIC*
- 39 SPORTELLI AUTOMATICI / *AUTOMATIC LIDS*
- 40 SPORTELLINO AUTOMATICO CHIUSURE PVDF / *AUTOMATIC LID WITH PVDF CLIPS*
- 43 SPORTELLINO AUTOMATICO AUTOBLOCCANTE / *AUTOMATIC LID SELF-LOCKING*
- 45 CILINDRI IN PP / *PP CYLINDERS*
- 47 PERFORAZIONI / *PERFORATIONS*
- 48 CHIUSURE A MOLLA IN PVDF / *CLIPS IN PVDF*
- 49 COPPIA SPORTELLI / *PAIR OF LIDS*
- 50 CHIUSURA A BRACCI CONTRAPPOSTI / *LOCK WITH OPPOSING ARMS*
- 50 PARATIE / *PARTITION WALLS*
- 51 RICAMBI E ACCESSORI / *SPARE PARTS AND FITTINGS*
- 52 CONTATTI CATODICI A BATACCIO / *DANGLER CATHODE CONTACTS*
- 53 TESTE INTERCAMBIABILI IN OTTONE / *INTERCHANGEABLE BRASS HEADS*
- 54 PIGNONI / *PINION GEARS*
- 55 GRUPPO INGRANAGGIO INTERMEDIO / *INTERMEDIATE GEAR UNIT*
- 56 MOZZI / *HUBS*
- 57 MOTORIDUTTORI / *GEARED MOTORS*

58	ROTOR – SPALLE E CARTER / <i>ROTOR – UPRIGHTS AND PROTECTIVE HOODS</i>
59	ROTOR 2000 – SPALLE E CARTER / <i>ROTOR 2000 – UPRIGHTS AND PROTECTIVE HOODS</i>
60	MORSETTIERE DI ROTAZIONE / <i>PICK-UP CONTACTS FOR ROTATION</i>
61	TRASFORMATORI TRIFASE / <i>THREE-PHASE TRANSFORMERS</i>
62	CUNEI PER VASCA / <i>WEDGES FOR TANK</i>
63	SUPPORTI A CAMPANA / <i>BELL SUPPORTS</i>
64	VITI / <i>BOLTS</i>
65	MINIROTOR
66	MINIROTOR PORTATILI 12V CC / <i>PORTABLE MINIROTOR 12V DC</i>
67	MINIROTOR 2000
68	MINIROTOR EXPORT 2000
69	MINIROTOR A BARRETTE MOD. 135 / <i>MINIROTOR WITH BARS MOD. 135</i>
70	MINIROTOR A BARRETTE MOD. 220 / <i>MINIROTOR WITH BARS MOD. 220</i>
71	CILINDRI IN PP PER MINIROTOR / <i>CYLINDERS IN PP FOR MINIROTORS</i>
72	PERFORAZIONI / <i>PERFORATIONS</i>
73	RICAMBI PER MINIROTOR / <i>SPARE PARTS FOR MINIROTOR</i>
74	CONTATTI CATODICI A BATACCIO / <i>DANGLER CATHODE CONTACTS</i>
75	MORSETTIERE DI ROTAZIONE / <i>LOW VOLTAGE PICK-UP CONTACTS</i>
76	GARANZIA / <i>WARRANTY</i>



LA NOSTRA STORIA

La storia di Progalvano comincia nel 1968, presentandosi sul mercato quale industria produttrice di prodotti chimici e galvanici. Successivamente, grazie allo sviluppo di nuove conoscenze e tecnologie, Progalvano cominciò a specializzarsi nella realizzazione di rotobarili ed accessori galvanici. Oggi, dopo aver sviluppato un'espansione su scala globale, la nostra azienda ha raggiunto un'indiscussa leadership in ambito europeo e mette a disposizione dei propri clienti una vasta esperienza del settore galvanico.

OUR HISTORY

Progalvano traces its beginning back to 1968, when its production was based on chemical processes and electroplating products. After the development of a personal know-how and technology, Progalvano proceeded to specialize in the manufacture of plating barrels and electroplating equipment. Today, after having achieved a global expansion, Progalvano can offer a vast experience in all aspects of plating barrels manufacture, becoming the European leading producer of plating equipments.



PRODOTTI E TECNOLOGIA

La nostra capacità di anticipare le esigenze del mercato si concretizza con l'offerta di rotobarili sempre all'avanguardia e con la progettazione di buratti "su misura", per stare al passo con la mutevole domanda della clientela. Progalvano è un'azienda totalmente orientata all'innovazione e alla ricerca continua di processi produttivi efficienti, per poter così offrire sempre soluzioni e materiali di qualità.

PRODUCTS AND TECHNOLOGY

The capability of Progalvano to anticipate and satisfy the plating supply market's needs becomes reality with the production of state-of-the-art plating barrels and the development of custom-made barrels, in order to satisfy the most peculiar demands of each customer. Progalvano is totally oriented to innovation and to its constant effort of reaching efficient process systems; all this allows us to offer high-quality solutions and materials.



PROGALVANO...gaining quality!

IL SERVIZIO

La nostra azienda offre una gamma completa di ricambi originali ed accessori progettati per essere adattati sui buratti Progalvano, così da rispondere all'esigenza di una rapida e completa manutenzione dei barili forniti. Inoltre, Progalvano continua ad assistere i propri clienti con un servizio post vendita, mettendo a disposizione l'esperienza e la professionalità dei propri tecnici.

AFTER-SALES ASSISTANCE

Our company offers a complete range of original spare parts and fittings specifically designed to fit Progalvano plating barrels; in order to comply with the need for a prompt and complete maintenance of the barrels supplied.

Moreover, Progalvano always offers its customers a constant after-sales assistance thanks to the experience of its technicians.



ROTOR EXPORT 2000



Versatilità e funzionalità

L'Export 2000 rappresenta il rotor Progalvano di riferimento per quanto riguarda i trattamenti di Nichelatura e Zincatura. La sua solidità e la struttura compatta lo rendono un prodotto estremamente versatile e funzionale, che ben si adatta ai diversi processi di molti impianti.

Versatility and functionality

Rotor Export 2000 is the referential equipment among Progalvano Nickel and Zinc plating supplies. Thanks to its strength, solidity and compact structure, we can offer an extremely versatile barrel that can be adapted to various plating processes.



CARATTERISTICHE TECNICHE • TECHNICAL DETAILS

ROTOR EXPORT 2000

N. Codice	Modello	Spessore pareti mm	Volume	Portata kg	Temper. Max °C	Batacchi mm ²	Potenza Motori kW	Peso kg
Code N.	Model	Panel thickness mm	dm ³	Load capacity kg	Max Temper. °C	Danglers mm ²	Motor Power kW	Weight kg
RX20526	500/260	12	27	40	85	50	0.25	92
RX20726	700/260		39	50		50	0.25	98
RX21026	1000/260		56	60		50	0.25	107
RX20732	700/320		55	70		120	0.37	105
RX21032	1000/320		81	80		120	0.37	117
RX20836	800/360		79	80		120	0.37	116
RX21036	1000/360		101	100		120	0.37	123
RX21236	1200/360		122	100		120	0.37	132
RX20836-7	800/360-7		111	90		120	0.37	120
RX21036-7	1000/360-7		141	110		120	0.37	128
RX21236-7	1200/360-7		171	110		120	0.37	135
RX21042	1000/420		140	140		120	0.37	136
RX21242	1200/420		170	140		120	0.37	143
RX21042-7	1000/420-7		195	150		120	0.37	146
RX21242-7	1200/420-7		237	150		120	0.37	153



Supporti a CUNEO+ CAMPANA.
Per una maggior precisione
di posizionamento del rotore
e un ottimo contatto catodico.

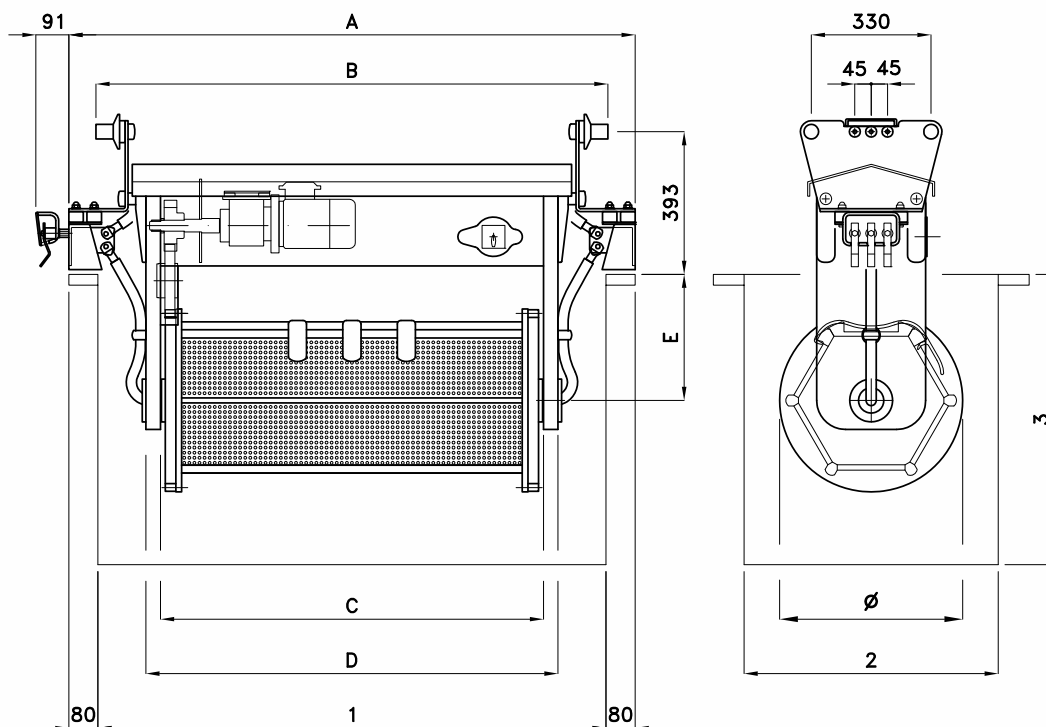
WEDGE + BELL supports.
For a precise positioning
of the barrel and an ideal
cathodic contact.



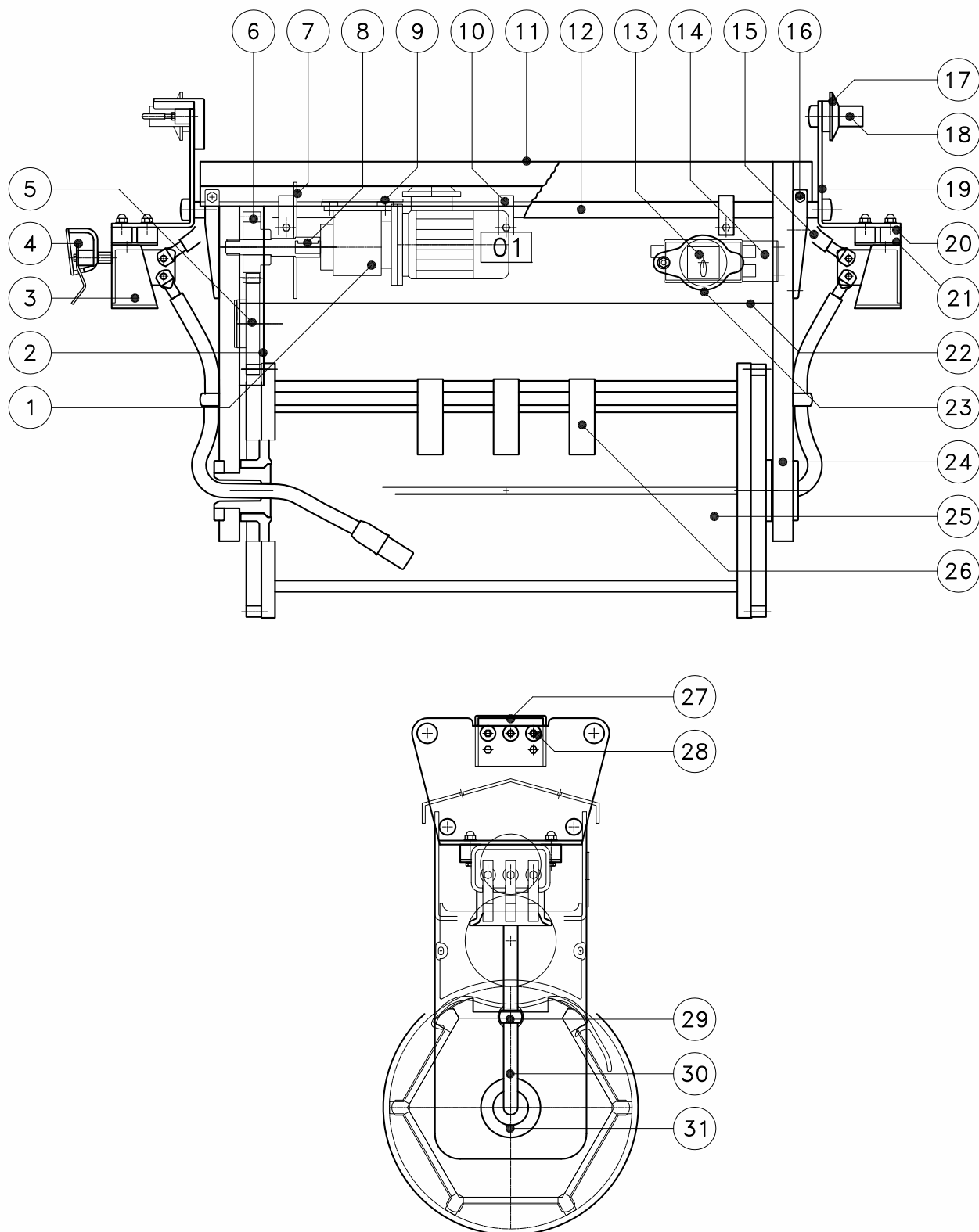


LA GAMMA • RANGE

ROTOR EXPORT 2000								VASCHE / Tanks		
Modello Model		A	B	C	D	E	Ø	1	2	3
260	500	1010	860	555	615	273.5	340	850	600	700
	700	1210	1060	755	815			1050		
	1000	1510	1360	1055	1115			1350		
320	700	1260	1110	755	835	321.5	441	1100	700	800
	1000	1560	1410	1055	1135			1400		
360	800	1360	1210	855	935	346.5	504	1200	700	800
	1000	1560	1410	1055	1135			1400		
	1200	1760	1610	1255	1335			1600		
360-7	800	1360	1210	855	935	346.5	543	1200	800	1000
	1000	1560	1410	1055	1135			1400		
	1200	1760	1610	1255	1335			1600		
420	1000	1560	1410	1055	1135	386.5	583	1400	800	1000
	1200	1760	1610	1255	1335			1600		
420-7	1000	1560	1410	1055	1135	416.5	650	1400	900	1000
	1200	1760	1610	1255	1335			1600		



RICAMBI · SPARE PARTS





ROTOR EXPORT 2000

POS.	COMPONENTE / Part	CODICE / Code
1	MOTORIDUTTORE - gear motor	VEDI PAGINA - see page 57
2	CARTER PROTEZIONE INTERMEDIO - protection for intermediate gear	SURB-52
3	CAMPANA - bell support	VEDI PAGINA - see page 63
4	MORSETTIERA MOD. EXPORT - pick-up contact for rotation	URB-71
5	INGRANAGGIO INTERMEDIO - intermediate gear	VEDI PAGINA - see page 55
6	PIGNONE - pinion	VEDI PAGINA - see page 54
7	PROTEZIONE MOTORE - motor protection	LURB2-30A
8	ALBERO SUPPORTO PIGNONE - pinion shaft	LURB2-08
9	SEDIA MOTORE COMPLETA - motor support plate	URB2-43
10	MORSETTO - motor plate holdfast	SURB-41
11	CARTER SUPERIORE - upper protective hood	VEDI PAGINA - see page 59
12	DISTANZIALE -TIRANTE INOX - stainless steel rod	
	Mod. 700	LURB2-1007
	Mod. 800	LURB2-1008
	Mod. 1000	LURB2-1010
	Mod. 1200	LURB2-1012
13	SALVAMOTORE - motor protector	CR00100
14	SQUADRETTA SUPPORTO SALVAMOTORE - support plate for motor protector	LURB-04
15	CAVO PONTE - bridge cable	
	Mod. 800	URB-11A08
	Mod. 1000	URB-11A08
	Mod. 1200	URB-11A08
16	SUPPORTO SPALLA - upright support plate	LURB2-02B
17	DISTANZIALE DI CENTRAGGIO - centering spacer	SURB-2340
18	PERNO DI SOLLEVAMENTO - lifting pin	LURB2-13
19	STAFFE DI SOLLEVAMENTO (coppia) - lifting brackets (a pair)	LURB2-02A
20	ANTIVIBRANTE 40x30 - antivibration 40x30	SURB-24B
21	PIASTRA SUPPORTO CAMPANA - bell support plate	LURB-03
22	CARTER INFERIORE - lower protective hood	VEDI PAGINA - see page 58
23	PROTEZIONE SALVAMOTORE - cover for motor protector	SURB2-53
24	SPALLA - upright	SR2000-10
25	ESAGONO - cylinder	VEDI PAGINA - see page 46
26	CHIUSURA PVDF - pvdf closing clip	VEDI PAGINA - see page 48
27	PROTEZIONE MORSETTIERA AEREA - protection for hoist pick-up contact	SURB2-54
28	CONTATTO FLESSIBILE X M. AEREA - flexible contact for hoist pick-up	URB-70
29	FERMABATACCHIO RAPIDO - fast dangler stop	SURB-40
30	BATACCHIO - dangler	VEDI PAGINA - see page 52
31	MOZZO CON GHIERA - threaded hub	VEDI PAGINA - see page 56



CARATTERISTICHE TECNICHE · TECHNICAL DETAILS

ROTOR EXPORT 2000 M

N. Codice	Modello	Spessore pareti mm	Volume	Portata kg	Temper. Max °C	Batacchi mm ²	Potenza Motori kW	Peso kg
Code N.	Model	Panel thickness mm	dm ³	Load capacity kg	Max Temper. °C	Danglers mm ²	Motor Power kW	Weight kg
RXM1042	1000/420	15	140	220	85	120	0.37	140
RXM1242	1200/420		170	220		120	0.37	148
RXM1542	1500/420		215	200		120	0.37	160
RXM1042-7	1000/420-7		195	250		120	0.37	150
RXM1242-7	1200/420-7		237	250		120	0.37	158
RXM1542-7	1500/420-7		300	230		120	0.37	170
RXM1060	1000/600	15 - 20	295	400		180	0.55	216
RXM1260	1200/600		358	350		180	0.55	228
RXM1560	1500/600		451	300		180	0.55	245
RXM1060-7	1000/600-7		310	450		180	0.55	225
RXM1260-7	1200/600-7		375	400		180	0.55	237
RXM1560-7	1500/600-7		473	350		180	0.55	255

Struttura in INOX rinforzata
per carichi gravosi
Reinforced chassis in stainless steel
for heavy loads



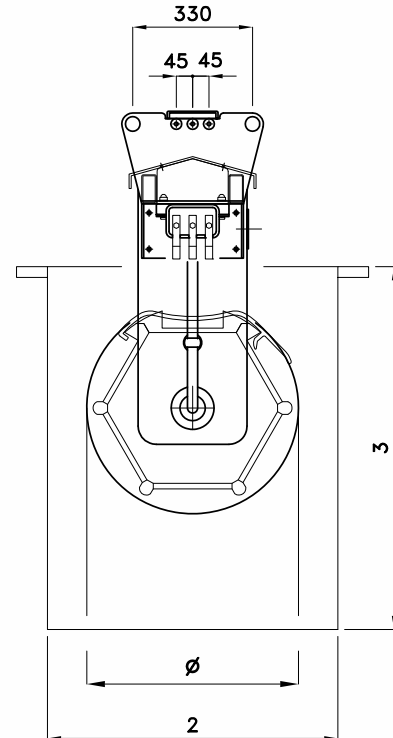
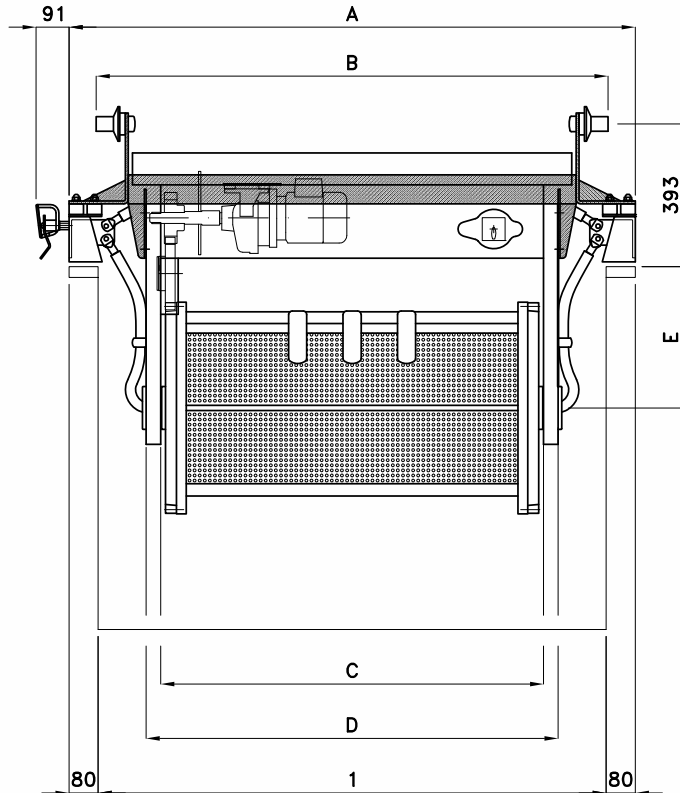
LA GAMMA • RANGE

ROTOR EXPORT 2000 M

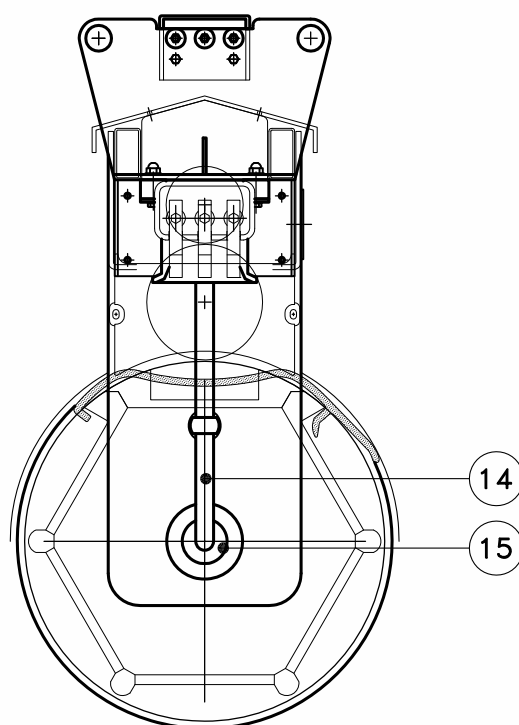
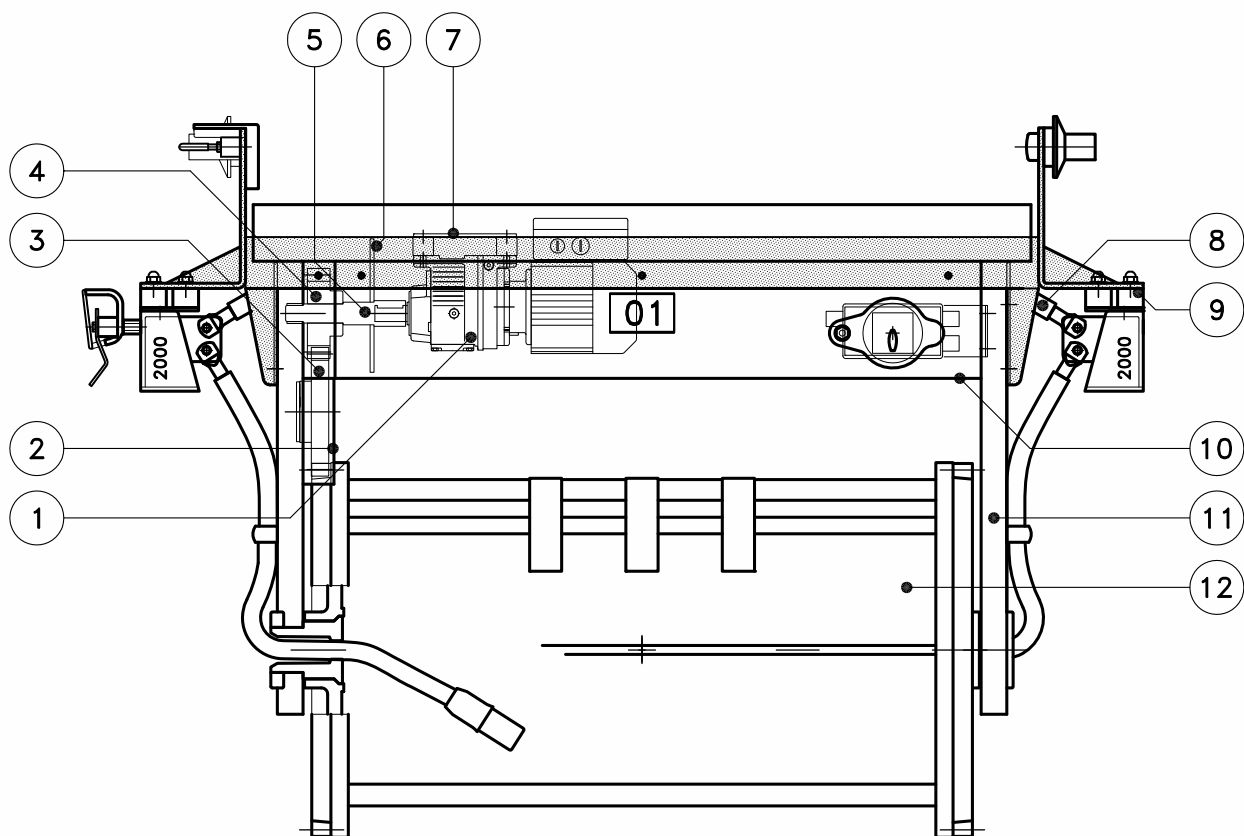
Modello Model		A	B	C	D	E	Ø
420	1000	1560	1410	1055	1135	386.5	583
	1200	1760	1610	1255	1335		
	1500	2060	1910	1555	1635		
420-7	1000	1560	1410	1055	1135	416.5	650
	1200	1760	1610	1255	1335		
	1500	2060	1910	1555	1635		
600	1000	1560	1410	1055	1135	589.5	840
	1200	1760	1610	1255	1335		
	1500	2060	1910	1555	1635		
600-7	1000	1560	1410	1055	1135	589.5	840
	1200	1760	1610	1255	1335		
	1500	2060	1910	1555	1635		

VASCHE / Tanks

1	2	3
1400	800	1000
1600		
1900		
1400	900	1000
1600		
1900		
1400	1200	1400
1600		
1900		
1400	1200	1400
1600		
1900		



RICAMBI · SPARE PARTS





ROTOR EXPORT 2000 M

POS.	COMPONENTE / Part	CODICE / Code
1	MOTORIDUTTORE SEW R37- gear motor SEW R37	VEDI PAGINA - see page 57
	MOTORIDUTTORE SEW R47- gear motor SEW 47	
2	CARTER PROTEZIONE INTERMEDIO Z18 M10 - protection for intermediate gear Z18 M10	LURB2-52A
	CARTER PROTEZIONE INTERMEDIO Z25 M10 - protection for intermediate gear Z25 M10	LURB2M-52
3	INGRANAGGIO INTERMEDIO COMPLETO Z18 M10 in PVDF - PVDF intermediate gear unit Z18 M10	URB2V90D
	INGRANAGGIO INTERMEDIO COMPLETO CON CUSCINETTO Z25 M10 in PP - PP intermediate gear unit Z25 M10 + bearing	URB2MP91
4	PIGNONE Z12 M10 in PE (mod. 420)- PE pinion gear Z12 M10 (mod. 420)	VEDI PAGINA - see page 54
	PIGNONE Z12 M10 in PVDF (mod. 600)- PVDF pinion gear Z12 M10 (mod. 600)	
5	ALBERO SUPPORTO PIGNONE SEW R37- pinion shaft SEW R37	LURB2-08
	ALBERO SUPPORTO PIGNONE SEW R47- pinion shaft SEW R47	LURB2M-08
6	PROTEZIONE - motor protection	LURB2M-30A
7	SEDIA MOTORE COMPLETA SEW R37 - motor support plate SEW R37	LURB2XM-01BG
	SEDIA MOTORE COMPLETA SEW R47 - motor support plate SEW R47	LURB2XM-01AG
8	CAVO PONTE - bridge cable	VEDI PAGINA - see page 9
9	ANTIVIBRANTE 40x30 (mod. 420) - antivibration 40x30 (mod. 420)	SURB-24B
	ANTIVIBRANTE 40x30 (mod. 600) - antivibration 40x30 (mod. 600)	SURB-26B
10	CARTER INFERIORE - lower protective hood	LURB2M-51
11	SPALLA mod. 420 - upright mod. 420	SR2000-10
	SPALLA mod. 600 - upright mod. 600	LR2000-10
12	ESAGONO - cylinder	VEDI PAGINA - see page 46
13	CHIUSURA A MOLLA in PVDF (mod. 420) - PVDF clip (mod. 420)	VEDI PAGINA - see page 48
	CHIUSURA A BRACCI CONTRAPPOSTI (mod. 600) - closing device with "opposing arms" (mod. 600)	VEDI PAGINA - see page 50
14	BATACCHIO 120mm2 (mod. 420) - dangler 120sqmm (mod. 420)	VEDI PAGINA - see page 52
	BATACCHIO 180mm2 (mod. 600) - dangler 180qmm (mod. 600)	VEDI PAGINA - see page 52
15	MOZZO CON GHIERA D.N. 90 (mod. 420) - threaded hub D.N. 90 (mod. 420)	URB2-20B
	MOZZO CON GHIERA D.N. 120 (mod. 600) - threaded hub D.N. 120 (mod. 600)	URB2M-20D



ROTOR 2000



Versatilità e funzionalità

Il Rotor 2000 nasce per l'utilizzo in moderne linee automatiche, ma la sua versatilità lo rende facilmente adattabile ad impianti automatici e semiautomatici. Questo buratto offre performance d'avanguardia per i trattamenti di Nichelatura e Zincatura.

Versatility and functionality

Rotor 2000 is an innovative and versatile plating barrel, and even though it was created to be used on modern automatic plants, it can be easily adapted for being used in manual and semiautomatic plating lines. Rotor 2000 offers state-of-the-art performances for every zinc and nickel plating treatment.

CARATTERISTICHE TECNICHE • TECHNICAL DETAILS

ROTOR 2000

N. Codice	Modello	Spessore pareti mm	Volume	Portata kg	Temper. Max °C	Batacchi mm ²	Potenza Motori kW	Peso kg
Code N.	Model	Panel thickness mm	dm ³	Load capacity kg	Max Temper. °C	Danglers mm ²	Motor Power kW	Weight kg
R20526	500/260	12	27	40	85	50	0.25	86
R20726	700/260		39	50		50	0.25	92
R21026	1000/260		56	60		120	0.25	101
R20732	700/320		55	70		120	0.37	99
R21032	1000/320		81	80		120	0.37	111
R20836	800/360		79	80		120	0.37	110
R21036	1000/360		101	100		120	0.37	117
R21236	1200/360		122	100		120	0.37	126
R20836-7	800/360-7		111	90		120	0.37	114
R21036-7	1000/360-7		141	110		120	0.37	122
R21236-7	1200/360-7		171	110		120	0.37	129
R21042	1000/420		140	140		120	0.37	130
R21242	1200/420		170	140		120	0.37	137
R21042-7	1000/420-7		195	150		120	0.37	140
R21242-7	1200/420-7		237	150		120	0.37	147

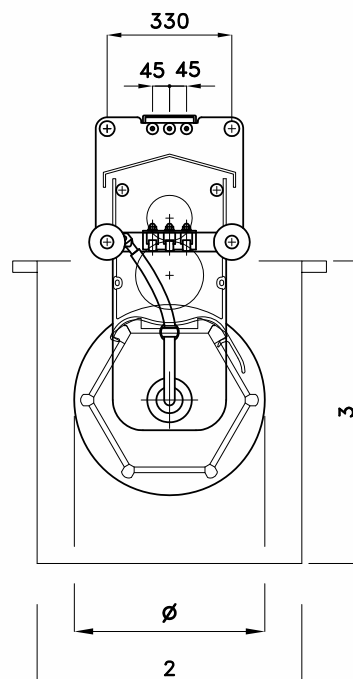
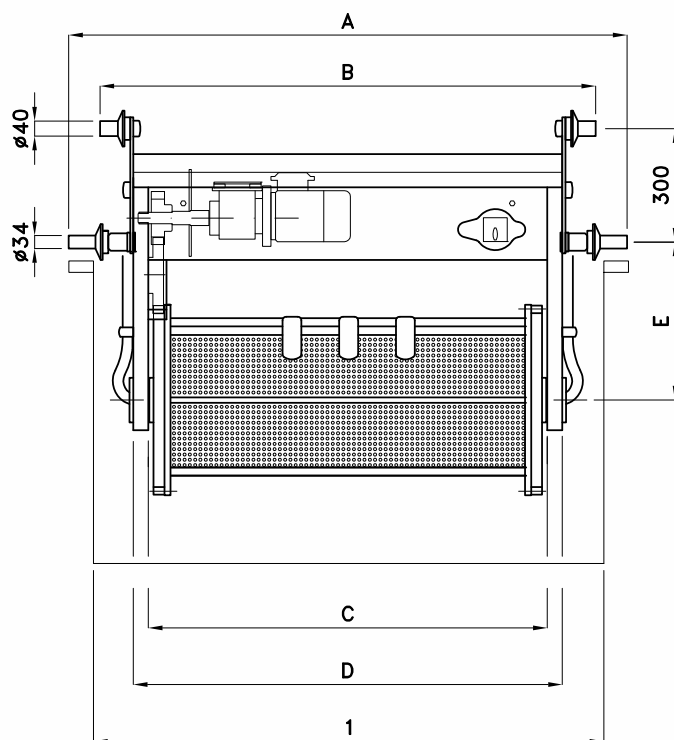
Supporti di contatto a PERNI in ottone
PINS in brass as supports for contact



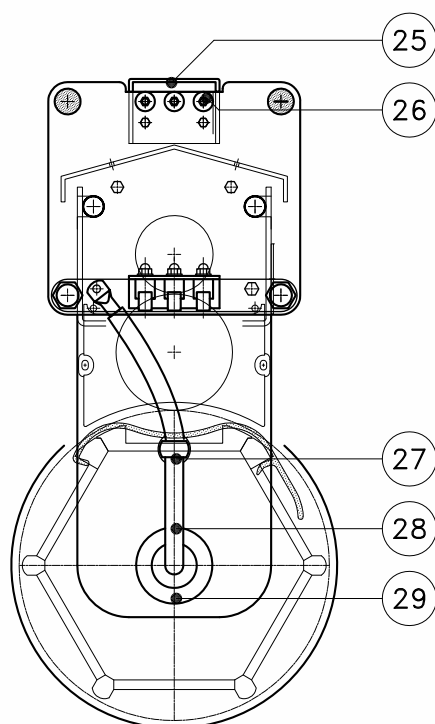
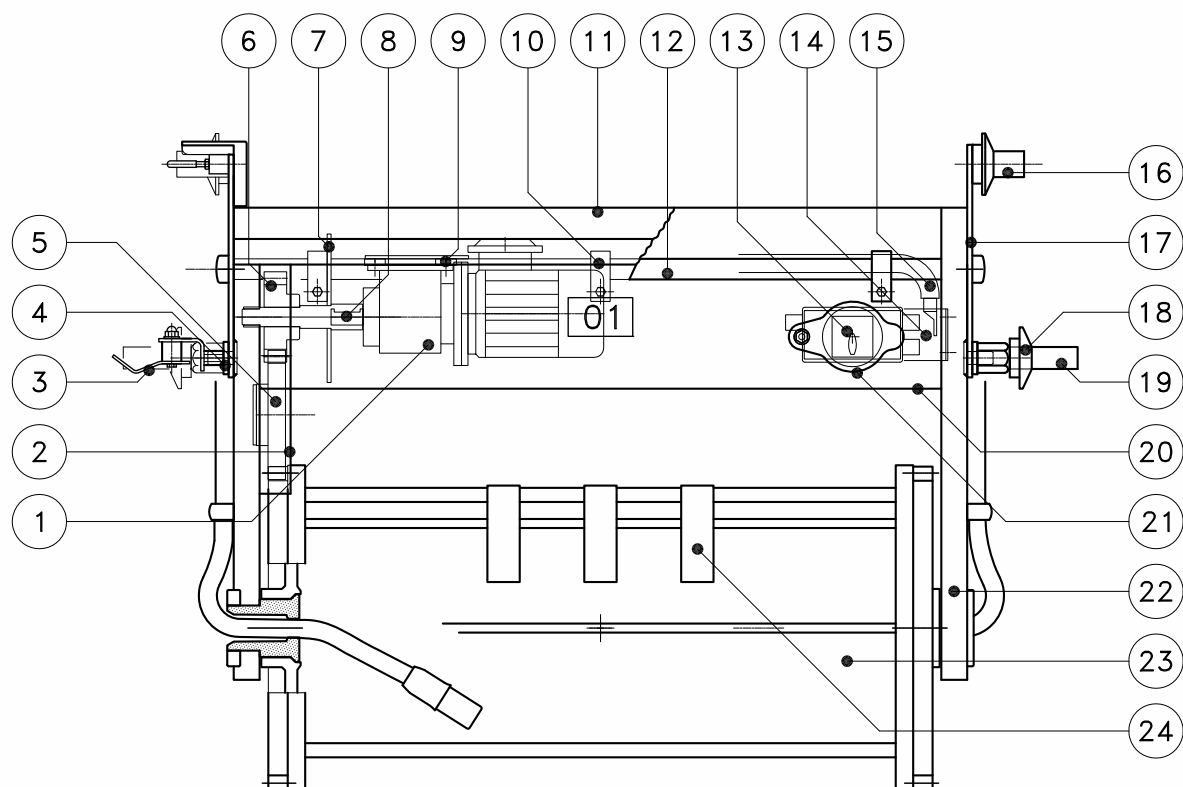


LA GAMMA · RANGE

ROTOR 2000								VASCHE / Tanks		
Modello Model		A	B	C	D	E	Ø	1	2	3
260	500	957	791	555	615	344	340	850	600	700
	700	1157	991	755	815			1030		
	1000	1457	1291	1055	1115			1330		
320	700	1177	1011	755	835	392	441	1050	700	800
	1000	1477	1311	1055	1135			1350		
360	800	1277	1111	855	935	417	504	1150	700	800
	1000	1477	1311	1055	1135			1350		
	1200	1677	1511	1255	1335			1550		
360-7	800	1277	1111	855	935	417	543	1150	800	1000
	1000	1477	1311	1055	1135			1350		
	1200	1677	1511	1255	1335			1550		
420	1000	1477	1311	1055	1135	457	583	1350	800	1000
	1200	1677	1511	1255	1335			1550		
420-7	1000	1477	1311	1055	1135	487	650	1350	900	1000
	1200	1677	1511	1255	1335			1550		



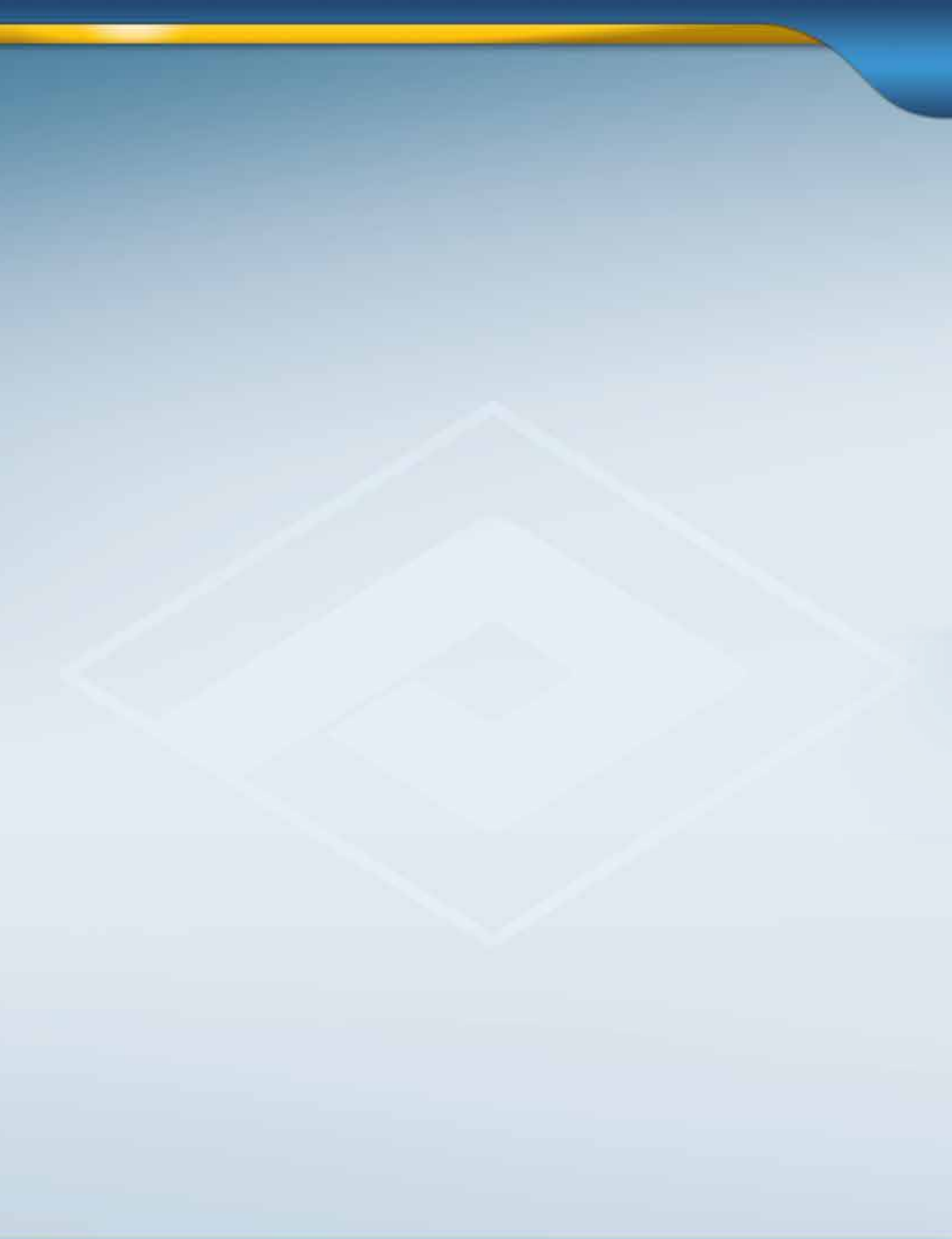
RICAMBI · SPARE PARTS





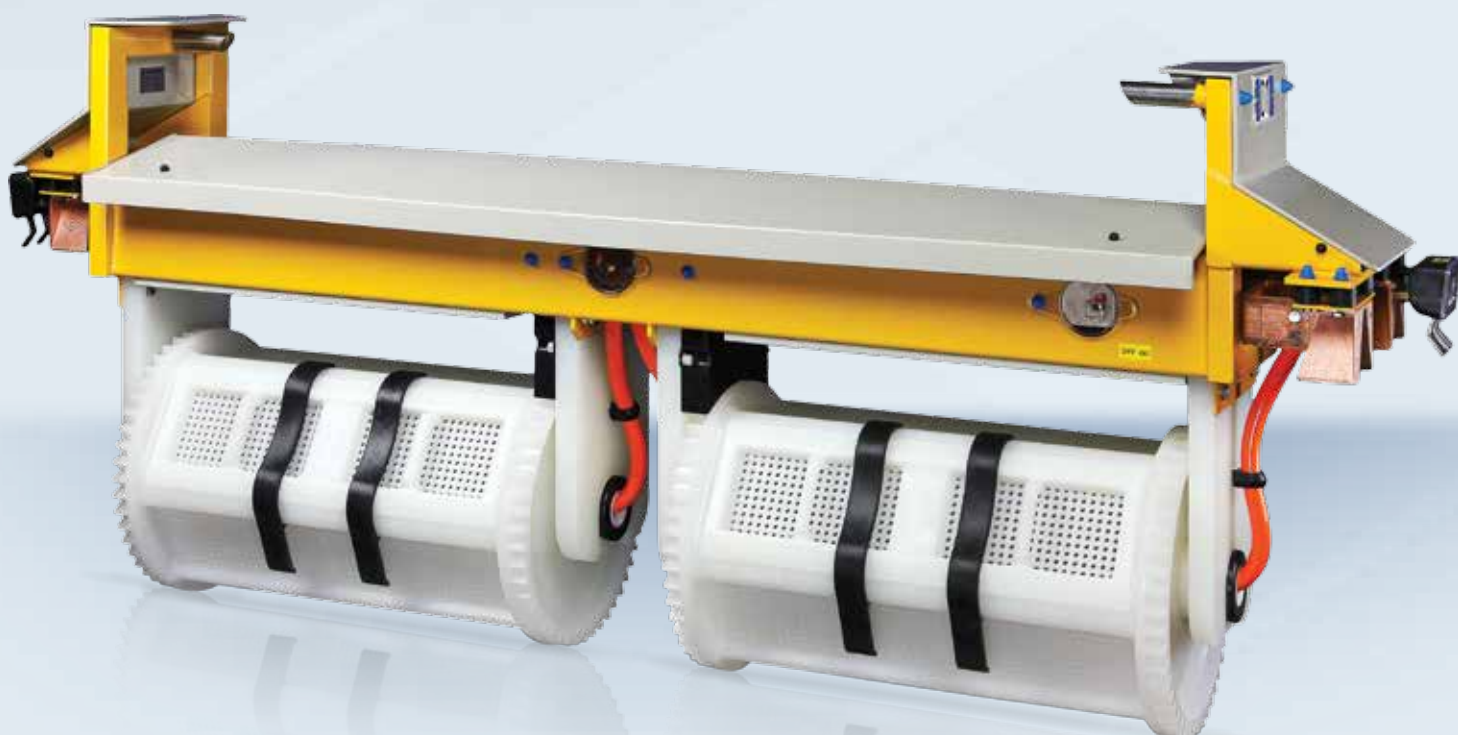
ROTOR 2000

POS.	COMPONENTE / Part	CODICE / Code
1	MOTORIDUTTORE - gear motor	VEDI PAGINA - see page 57
2	CARTER PROTEZIONE INTERMEDIO - protection for intermediate gear	SURB-52
3	MORSETTIERA A CUCCHIAINO - rotation contact	URB-74
4	BARRA DI COLLEGAMENTO - connection bar	LURB2-15B
5	INGRANAGGIO INTERMEDIO COMPLETO - Complete intermediate gear	VEDI PAGINA - see page 55
6	PIGNONE - pinion	VEDI PAGINA - see page 54
7	PROTEZIONE MOTORE - motor protection	LURB2-30A
8	ALBERO SUPPORTO PIGNONE - pinion shaft	LURB2-08
9	SEDIA MOTORE COMPLETA - motor support plate	URB2-43
10	MORSETTO - motor plate holdfast	SURB-41
11	CARTER SUPERIORE - upper protective hood	VEDI PAGINA - see page 58
12	DISTANZIALE -TIRANTE INOX - stainless steel rod	
	Mod. 700	LURB2-1007
	Mod. 800	LURB2-1008
	Mod. 1000	LURB2-1010
	Mod. 1200	LURB2-1012
13	SALVAMOTORE - motor protector	CR00100
14	SQUADRETTA SUPPORTO SALVAMOTORE - support plate for motor protector	LURB-04
15	CAVO PONTE - bridge cable	
	Mod. 800	URB-11A08
	Mod. 1000	URB-11A08
	Mod. 1200	URB-11A08
16	PERNO DI SOLLEVAMENTO - lifting pin	LURB2-13
17	STAFFE DI SOLLEVAMENTO (coppia) - lifting brackets (a pair)	LURB2-02C
18	DISTANZIALE DI CENTRAGGIO - centering spacer dia.40	SURB-2340
19	PERNO DI CONTATTO - contact pin	LURB2-14A
20	CARTER INFERIORE - lower protective hood	VEDI PAGINA - see page 58
21	PROTEZIONE SALVAMOTORE - cover for motor protector	SURB2-53
22	SPALLA - upright	SR2000-10
23	ESAGONO - cylinder	VEDI PAGINA - see page 46
24	CHIUSURA PVDF - pvdf closing clip	VEDI PAGINA - see page 48
25	PROTEZIONE MORSETTIERA AEREA - protection for hoist pick-up contact	SURB2-54
26	CONTATTO FLESSIBILE X M. AEREA - flexible contact for hoist pick-up	URB-70
27	FERMABATACCHIO RAPIDO - fast dangler stop	SURB-40
28	BATACCHIO - dangler	VEDI PAGINA - see page 52
29	MOZZO CON GHIERA - threaded hub	VEDI PAGINA - see page 56



ROTOR GEMELLI

TWIN ROTOR



Raddoppia la produttività

Scegliere dei Rotor Gemelli Progalvano significa aumentare i volumi di materiali trattati in un tempo contenuto. L'introduzione di questi rotor in una linea galvanica garantisce allo stesso tempo un elevato standard di qualità, raddoppiando la produzione. Da ultimo, i Rotor Gemelli possono essere impiegati facilmente anche in impianti misti (buratto e telaio).

Double performances

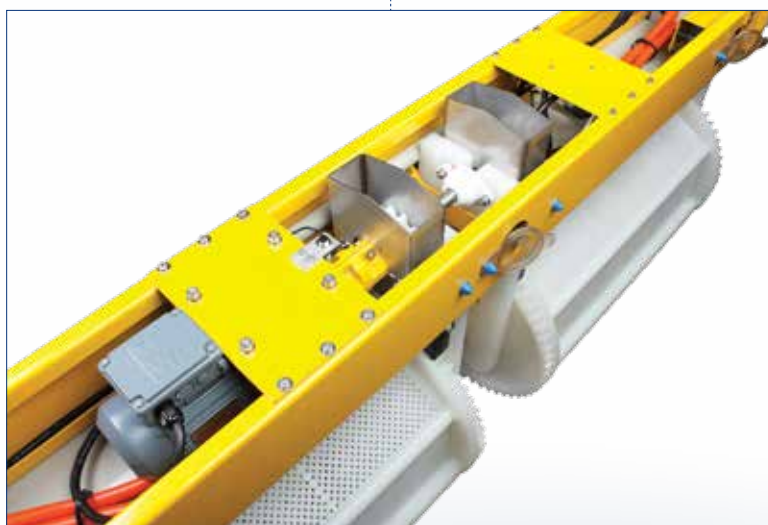
The advantage of adopting this equipment in your plant lays in the chance of plating large amounts of materials in a shorter time. Operating with 2 barrels will give you the chance either to keep high standards of quality or achieving a double production. Twin Rotor barrels can also be used in a plating plant that mixes barrels and racks.



CARATTERISTICHE TECNICHE • TECHNICAL DETAILS

ROTOR GEMELLI • TWIN ROTOR

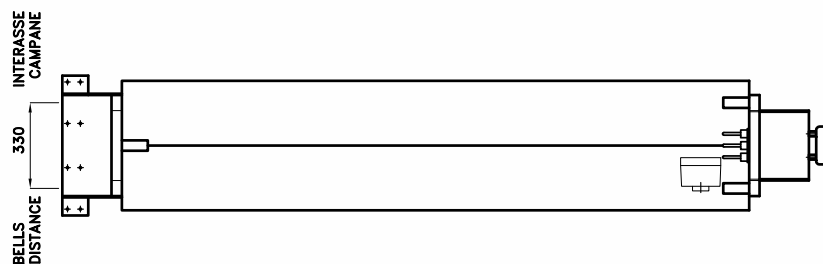
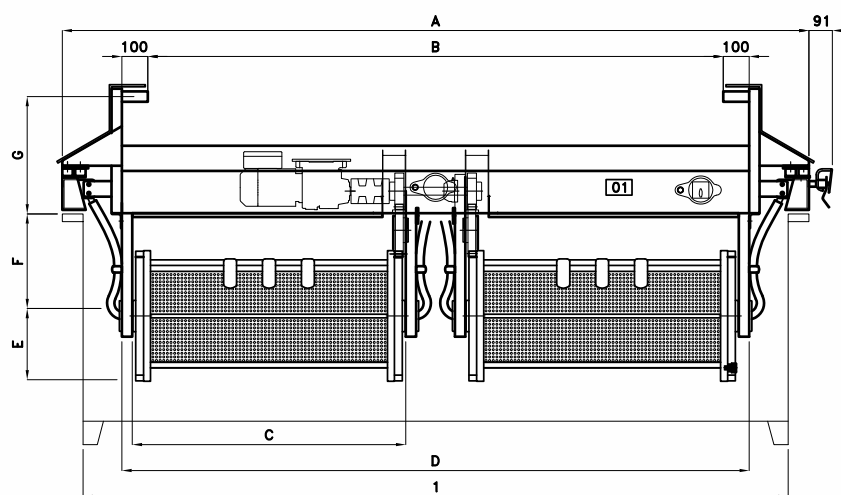
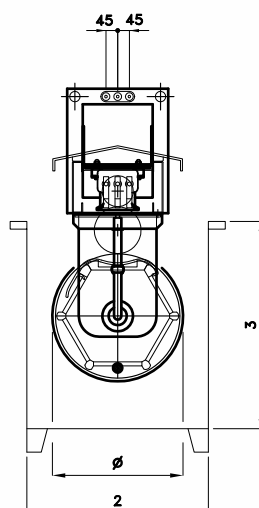
N. Codice	Modello	Spessore pareti mm	Volume	Portata kg	Temper. Max °C	Batacchi mm ²	Potenza Motori kW	Campana	Peso kg
Code N.	Model	Panel thickness mm	dm ³	Load capacity kg	Max Temper. °C	Danglers mm ²	Motor Power kW	Bell mod. 2000	Weight kg
2RX0526	500/260	12	2 x 27	2 x 40	85	50	0.37	n°2	254
2RX0726	700/260		2 x 39	2 x 50		50	0.37	n°2	267
2RX1026	1000/260		2 x 56	2 x 60		120	0.37	n°2	287
2RX0732	700/320		2 x 55	2 x 70		120	SEW 0.37	n°2	282
2RX1032	1000/320		2 x 81	2 x 80		120	SEW 0.37	n°2	305
2RX0836	800/360		2 x 79	2 x 80		120	SEW 0.37	n°2	304
2RX1036	1000/360		2 x 101	2 x 100		120	SEW 0.55	n°3	318
2RX1236	1200/360		2 x 122	2 x 100		120	SEW 0.55	n°3	336
2RX0836-7	800/360-7		2 x 111	2 x 90		120	SEW 0.37	n°2	310
2RX1036-7	1000/360-7		2 x 141	2 x 110		120	SEW 0.55	n°3	324
2RX1236-7	1200/360-7		2 x 171	2 x 110		120	SEW 0.55	n°3	340
2RX1042	1000/420		2 x 140	2 x 140		120	SEW 0.55	n°3	354
2RX1242	1200/420		2 x 170	2 x 140		120	SEW 0.55	n°3	380
2RX1042-7	1000/420-7		2 x 195	2 x 150		120	SEW 0.55	n°3	370
2RX1242-7	1200/420-7		2 x 237	2 x 150		120	SEW 0.55	n°3	392





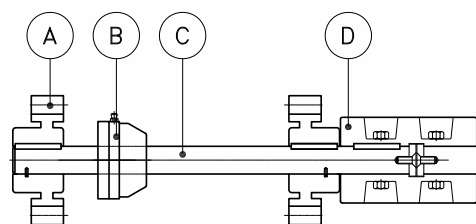
LA GAMMA • RANGE

ROTOR GEMELLI • TWIN ROTOR										VASCHE / Tanks		
Modello Model		A	B	C	D	E	F	G	Ø	1	2	3
260	500	1840	1180	555	1380	221	309	420	340	1680	600	700
	700	2240	1580	755	1780					2080		
	1000	2540	1880	1055	2080					2380		
320	700	2280	1620	755	1820	245	369.5	420	441	2120	700	800
	1000	2880	2220	1055	2420					2720		
360	800	2480	1820	855	2020	252	395.5	450	504	2320	700	800
	1000	2880	2220	1055	2420					2720		
	1200	3280	2620	1255	2820					3120		
360-7	800	2480	1820	855	2020	271.5	395.5	450	543	2320	800	1000
	1000	2880	2220	1055	2420					2720		
	1200	3280	2620	1255	2820					3120		
420	1000	2880	2220	1055	2420	291.5	435.5	450	583	2720	800	1000
	1200	3280	2620	1255	2820					3120		
420-7	1000	2880	2220	1055	2420	325	466.5	450	650	2720	900	1000
	1200	3280	2620	1255	2820					3120		

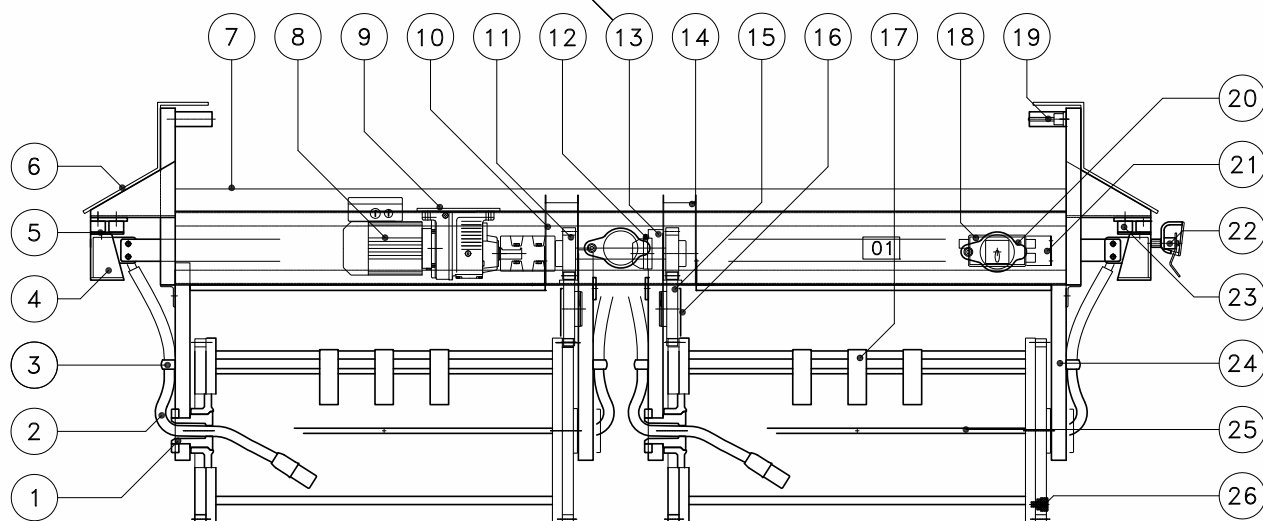


RICAMBI • SPARE PARTS

TRASMISSIONE • TRANSMISSION



POS.	COMPONENTE / Part	CODICE / Code
A	PIGNONE Z12 M10 - pinion Z12 M10	2URBE30D30
	PIGNONE Z20 M5,5 - pinion Z20 M5.5	URB2E30D30
B	CUSCINETTO PER ROTOR GEMELLO bearing for twin rotor	L2URB-07A
C	ALBERO DI TRASMISSIONE DIA. 25/30 transmission shaft dia. 25/30	2URB2-08
D	GIUNTO RMO 30 - joint RMO 30	CR000210
	GIUNTO RMO 25 - joint RMO 25	CR000211





ROTOR GEMELLI • TWIN ROTOR

POS.	COMPONENTE / Part	CODICE / Code
1	MOZZO CON GHIERA D.N. 90 - threaded hub D.N. 90	VEDI PAGINA - see page 56
2	BATACCHIO - dangler	VEDI PAGINA - see page 52
3	FERMABATACCHIO RAPIDO - fast dangler stop	SURB-40
4	CAMPANA MOD. 2000 - bell support mod. 2000	VEDI PAGINA - see page 63
5	PIASTRA SUPPORTO CAMPANA - bell support plate	LURB-03
6	CARTER PROTEZIONE STAFFA SOLLEVAMENTO - protective hood for lifting brackets	L2URB2-55
7	CARTER SUPERIORE Mod. 500 - upper protective hood Mod. 500	L2URB2-50A05
	CARTER SUPERIORE Mod. 700 - upper protective hood Mod. 700	L2URB2-50A07
	CARTER SUPERIORE Mod. 800 - upper protective hood Mod. 800	L2URB2-50A08
	CARTER SUPERIORE Mod. 1000 - upper protective hood Mod. 1000	L2URB2-50A10
	CARTER SUPERIORE Mod. 1200 - upper protective hood Mod. 1200	L2URB2-50A12
8	MOTORIDUTTORE - gear motor	VEDI PAGINA - see page 57
9	SEDIA MOTORE - motor support plate	L2URB2-43A
10	CARTER PROTEZIONE TRASMISSIONE - protective hood for transmission gear	L2URB2-30A
11	PIGNONE - pinion	VEDI PAGINA - see page 54
12	GRUPPO TRASMISSIONE - complete transmission unit	2URB-06
13	SPALLA INTERNA - internal upright	LG2000-10A
14	CARTER PROTEZIONE TRASMISSIONE (lato motore)- protective hood for transmission gear	L2URB2-30B1
15	INGRANAGGIO INTERMEDIO - intermediate gear	VEDI PAGINA - see page 55
16	CARTER PROTEZIONE INTERMEDIO - intermediate gear protection	SURB2-52
17	CHIUSURA PVDF - pvdf closing clip	VEDI PAGINA - see page 48
18	SALVAMOTORE - motor protector	CR00100
19	CONTATTO FLESSIBILE X M. AEREA - flexible contact for hoist pick-up	URB-70
20	PROTEZIONE SALVAMOTORE - cover for motor protector	SURB2-53
21	SQUADRETTE SUPPORTO SALVAMOTORE - support plate for motor protector	LURB-04
22	MORSETTIERA ROTOR EXPORT- Rotor Export pick-up contact	URB-71
23	ANTIVIBRANTE 40x30 - antivibration 40x30	SURB-24B
24	SPALLA ESTERNA - external upright	LG2000-10A
25	ESAGONO - cylinder	VEDI PAGINA - see page 46
26	CAMMA MAGNETICA - magnetic cam	SURB2-56



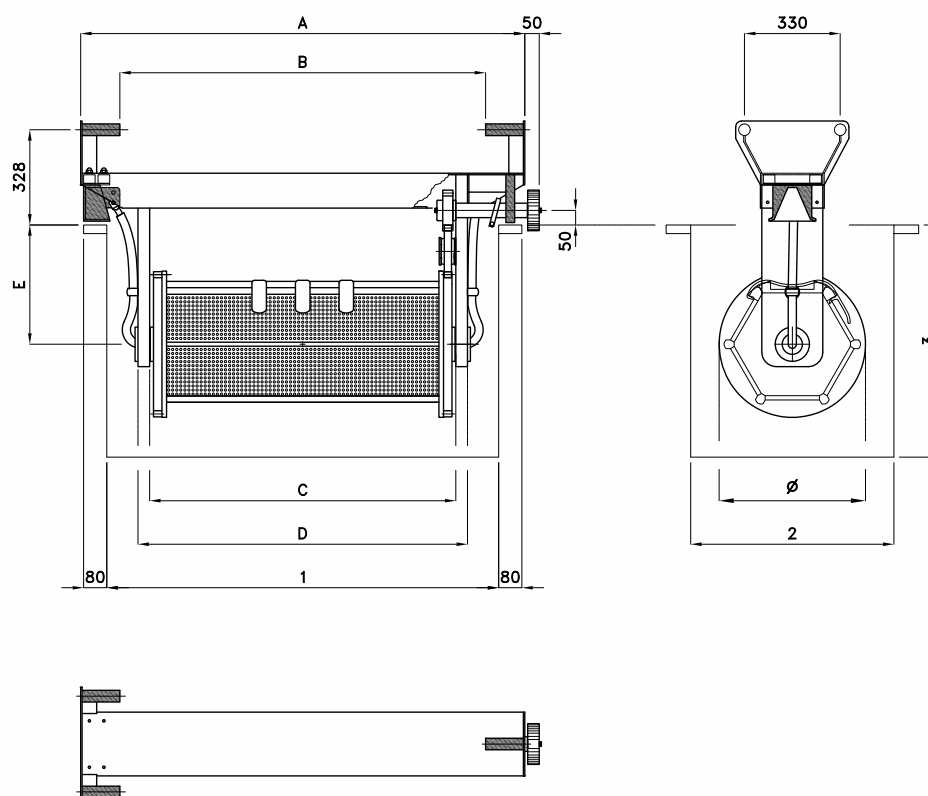
Supporti di contatto a campana e a cuneo
Bell and Wedge supports for contact

Trasmissione con ingranaggio esterno
External side gear and transmission



LA GAMMA • RANGE

ROTOR A TRASMISSIONE ESTERNA • <i>AUTOMATIC SIDE DRIVE BARREL</i>								VASCHE / Tanks		
Codice Code	Modello Model	A	B	C	D	E	Ø	1	2	3
RTE0526	500/260	1030	860	555	615	357	340	850	600	700
RTE0726	700/260	1230	960	755	815	357	340	1050		
RTE1026	1000/260	1530	1260	1055	1115	357	340	1350	700	800
RTE0732	700/320	1230	960	755	835	404	441	1050		
RTE1032	1000/320	1530	1260	1055	1135	404	441	1350	700	800
RTE0836	800/360	1330	1060	855	935	411	504	1150		
RTE1036	1000/360	1530	1260	1055	1135	411	504	1350	700	800
RTE1236	1200/360	1730	1460	1255	1335	411	504	1550		
RTE0836-7	800/360-7	1330	1060	855	935	411	543	1150	800	1000
RTE1036-7	1000/360-7	1530	1260	1055	1135	411	543	1350		
RTE1236-7	1200/360-7	1730	1460	1255	1335	411	543	1550	800	1000
RTE1042	1000/420	1530	1260	1055	1135	453	583	1350		
RTE1242	1200/420	1730	1460	1255	1335	453	583	1550	900	1000
RTE1042-7	1000/420-7	1530	1260	1055	1135	483	650	1350		
RTE1242-7	1200/420-7	1730	1460	1255	1335	483	650	1550		





ROTOR SPECIALI

SPECIAL BARRELS



La standardizzazione di un'idea

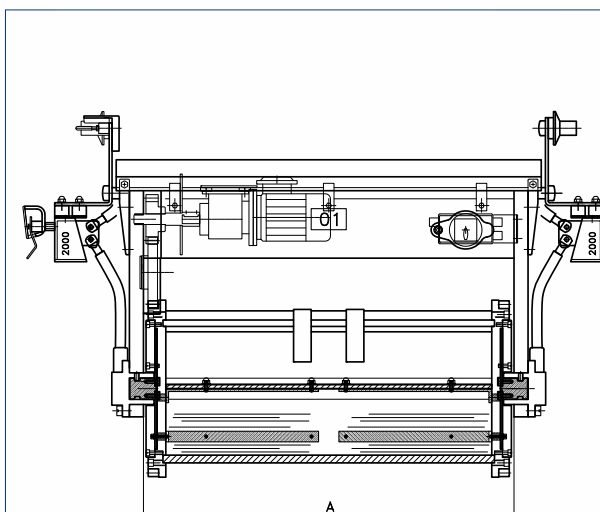
Progalvano progetta e realizza ogni anno numerosi prodotti su misura. Partendo dalle esigenze espresse dalla clientela, nascono spesso numerose varianti dei nostri Rotor che ben si adattano a richieste analoghe di molti altri clienti in tutto il mondo. Grazie a successive prove, migliorie e standardizzazioni nascono così i nostri Rotor Speciali: buratti ispirati dai nostri clienti e perfezionati dall'esperienza tecnica di Progalvano, in un continuo e reciproco scambio di valore!

Standardising an idea

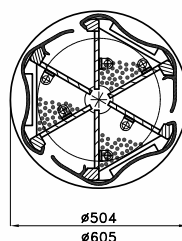
Every year Progalvano conceives and creates several custom-made rotor barrels. By starting from the needs expressed by our customers, we often design variations of Rotors that can be easily adapted to similar customers' demands from different markets around the world. So that, thanks to further tests, improvements and standardisations, we can offer our so-called Special Rotor: barrels inspired by our customers and refined by our technical experience, as in a mutual exchange for value.



ROTOR TRIFOGLIO • CLOVER BARREL



Codice	Modello	A	B	Volume	Portata kg
Code	Model			dm ³	Load Capacity kg
RX2T0836	800/360	855	504	12,5 x 3	14 x 3
RX2T1036	1000/360	1055	504	16 x 3	18 x 3
RX2T1236	1200/360	1255	504	20 x 3	23 x 3
RX2T1042	1000/420	1055	605	22 x 3	25 x 3
RX2T1242	1200/420	1255	605	27 x 3	30 x 3

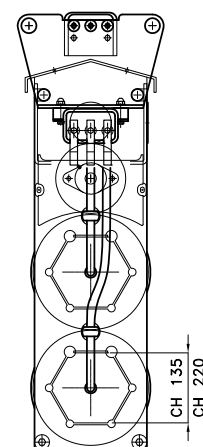
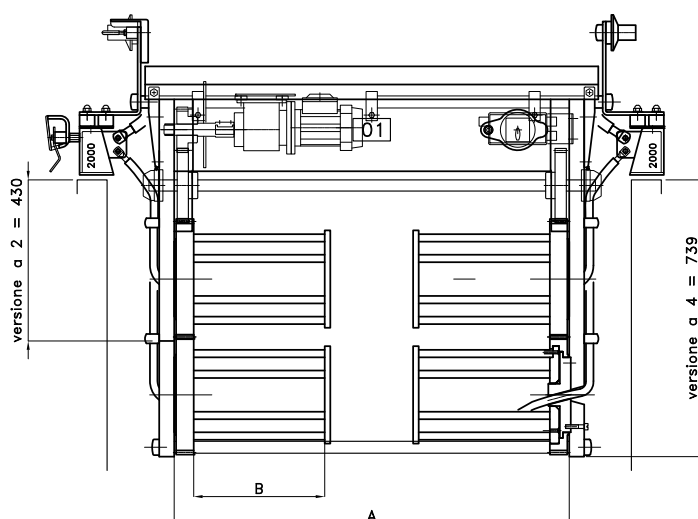


ROTOR EXPORT 4 BARILETTI ROTOR EXPORT WITH 4 CYLINDERS

Codice	Modello	A	B	Volume	Portata kg
Code	Model			dm ³	Load Capacity kg
4MX222-07	700	755	250	7,6 x 4	6 x 4
4MX222-08	800	855	300	9,1 x 4	7 x 4
4MX222-10	1000	1055	350	10,6 x 4	8 x 4
4MX222-12	1200	1255	400	12,1 x 4	9 x 4

ROTOR EXPORT 2 BARILETTI ROTOR EXPORT WITH 2 CYLINDERS

Codice	Modello	A	B	Volume	Portata kg
Code	Model			dm ³	Load Capacity kg
2MX222-07	700	755	250	7,6 x 2	6 x 2
2MX222-08	800	855	300	9,1 x 2	7 x 2
2MX222-10	1000	1055	350	10,6 x 2	8 x 2
2MX222-12	1200	1255	400	12,1 x 2	9 x 2





ROTOR IN ACCIAIO INOX • STAINLESS STEEL BARREL

Struttura esterna
in acciaio INOX AISI 304,
parti immerse realizzate in AISI 316.

*Frame in SS AISI 304,
plunged parts produced in SS AISI 316.*

Prezzi e dettagli su richiesta.
Prices and information on demand.



SISTEMA INIEZIONE LIQUIDI • LIQUIDS INJECTION DEVICE



- Adduzione di soluzioni concentrate all'interno del cilindro.
- Sistema di lavaggio dei pezzi trattati, con notevole risparmio d'acqua.
- Incremento dell'agitazione del bagno.
- *Injection of concentrated solutions inside the cylinder.*
- *Items washing device, for a low water consumption*
- *Increase of fluid agitation*

Prezzi e dettagli su richiesta.
Prices and information on demand.

CONTATTI CATODICI SPECIALI

SPECIAL CATHODIC CONTACTS



Ad ogni articolo il suo contatto catodico

Ogni tipo di minuteria deve poter essere trattata con precisi accorgimenti, a seconda dei vari processi di deposizione. Progalvano affianca alla gamma dei Rotor con contatto a batacchio, altri 5 tipi i contatti catodici progettati per trattare particolari oggetti con forme, materiali e dimensioni specifiche.

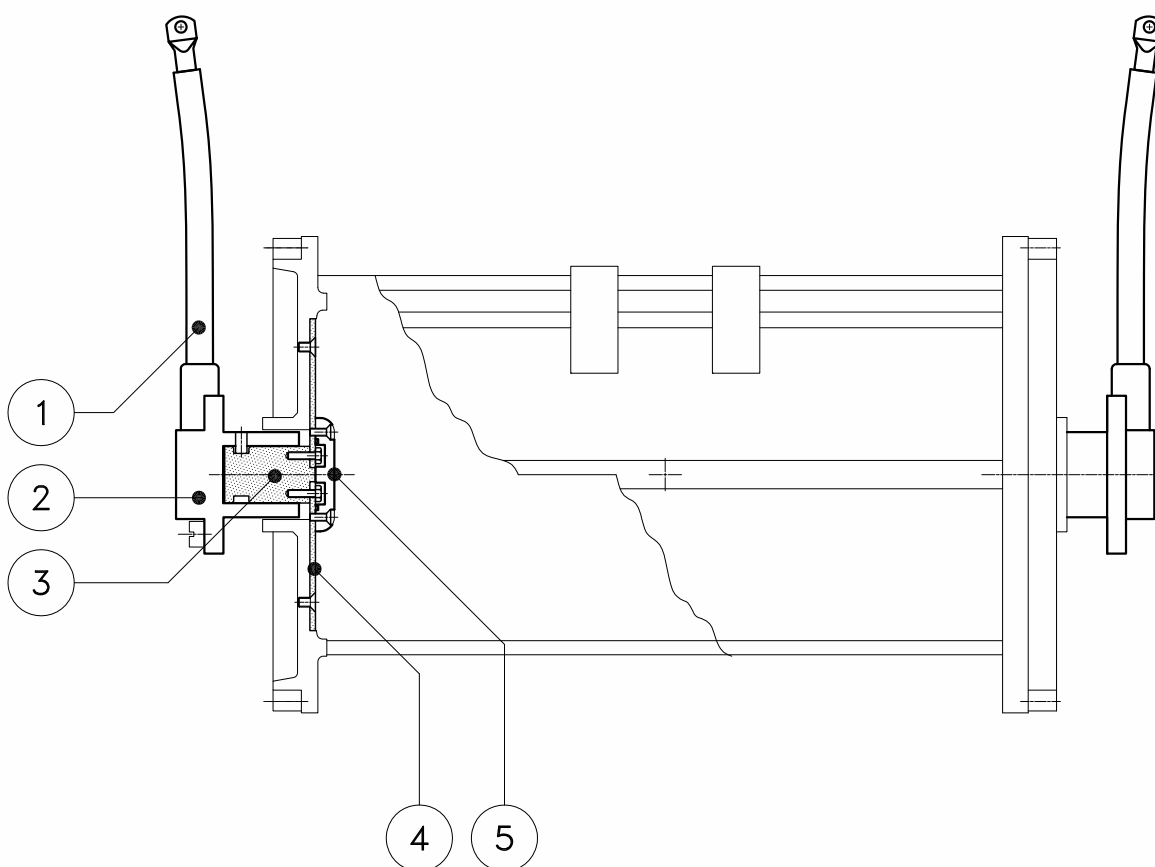
Every item its cathodic contact

Every kind of smallware must be treated using precise devices, according to various deposition processes.

Beside the overall range of barrels having dangles contact, Progalvano offers other 5 types of cathodic contacts designed to treat items with specific shapes, dimensions and materials.


CONTATTO CATODICO APERTO A DISCO • CATHODE CONTACT "OPEN" WITH DISC

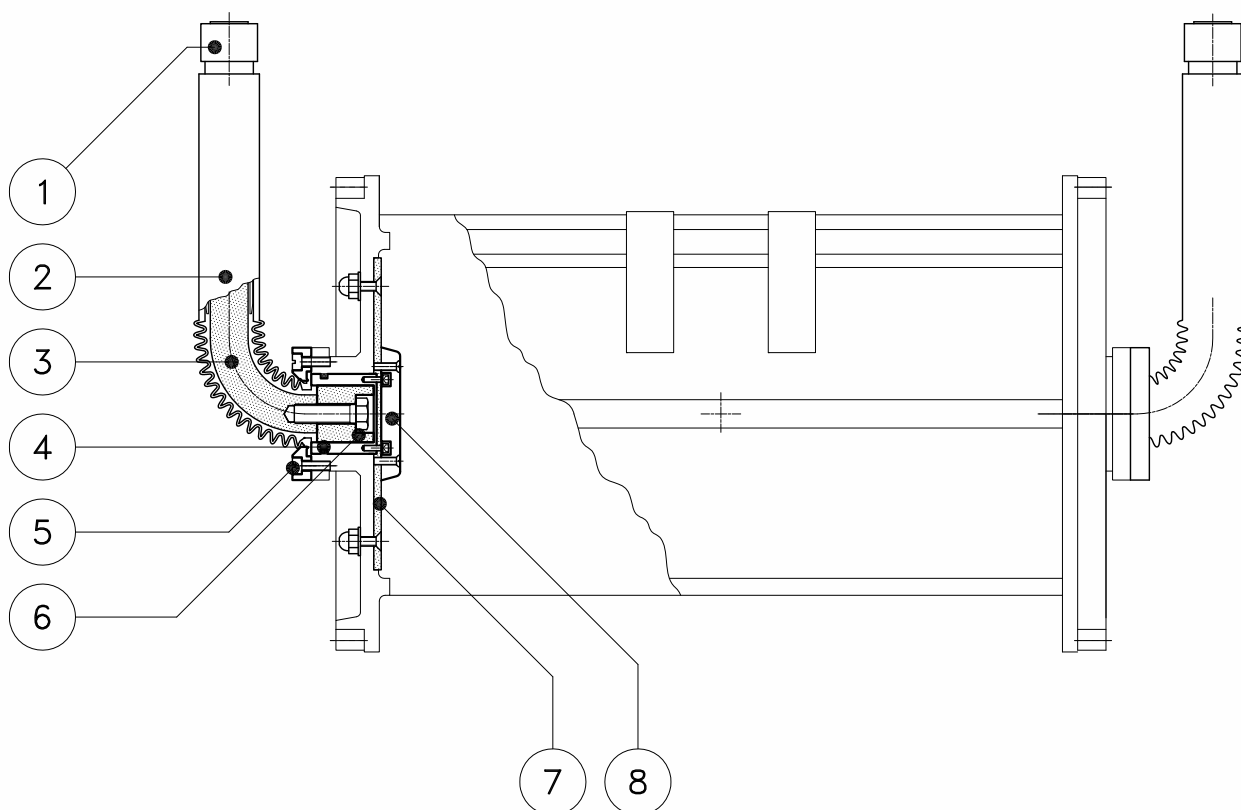
RICAMBI • SPARE PARTS	POS.	COMPONENTE / Part	CODICE / Code
		CONTATTO APERTO A DISCO COMPLETO	CAD-200
		COMPLETE "OPEN" CONTACT WITH DISC	
	1	CAVO FLESSIBILE / Flexible cable 120	CF12051
	2	MOZZO CATODICO / cathode hub	URB-150
	3	MOZZO CU / Cu hub	URB-155
	4	DISCO CATODICO / cathode disc	URB-240
	5	PROTEZIONE DISCO CATODICO / protection for cathode disc	URB-270





CONTATTO CATODICO STAGNO A DISCO • WATERTIGHT DISC CATHODE CONTACT

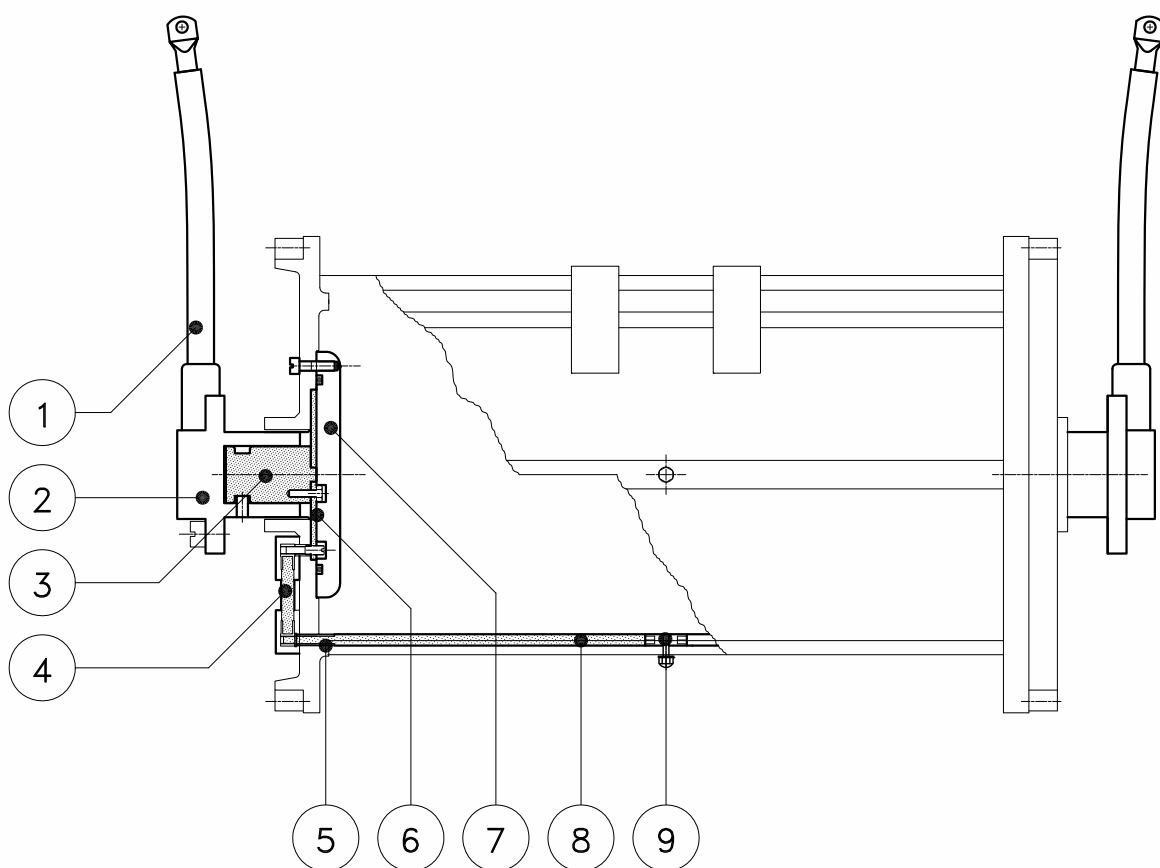
RICAMBI • SPARE PARTS	POS.	COMPONENTE / Part	CODICE / Code
		CONTATTO STAGNO A DISCO COMPLETO	CSD-400
		COMPLETE WATERTIGHT DISC CATHODE CONTACT	
	1	GUIDA SUPERIORE SOFFIETTO / upper bellow guide DN 40	URB-303
	2	SOFFIETTO COMPLETO / complete bellow DN 40	URB-304
	3	SUPPORTO CATODICO / cathodic support	LURB-305
	4	BUSSOLA / bush	URB-341A
	5	FLANGIA SOFFIETTO / bellow flange DN 40	LURB-320
	6	MOZZO Cu / Cu hub	LURB-320A
	7	DISCO CATODICO INOX / SS cathode disc	URB-440
	8	PROTEZIONE DISCO CATODICO / protection for cathode disc	URB-470





CONTATTO CATODICO APERTO A BARRETTE • CATHODE CONTACT "OPEN" WITH BARS

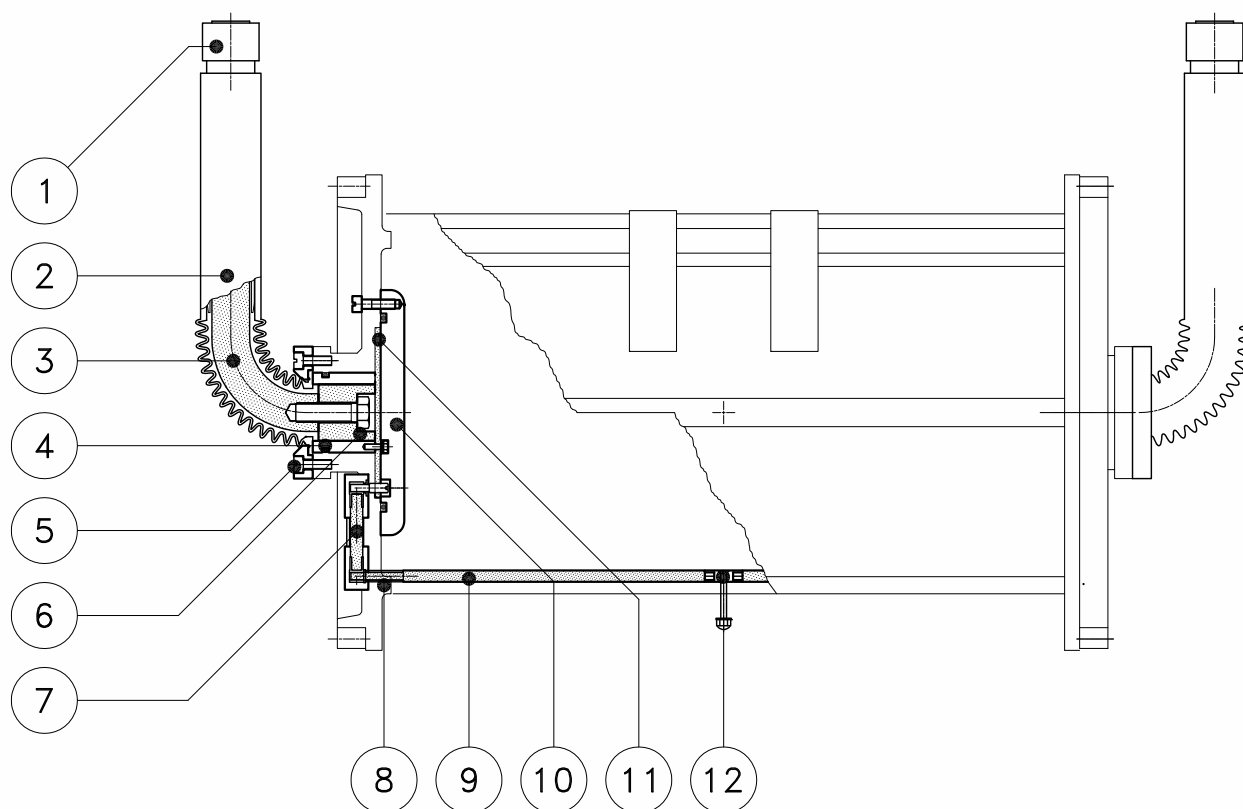
RICAMBI • SPARE PARTS	POS.	COMPONENTE / Part	CODICE / Code
		CONTATTO APERTO A BARRETTE COMPLETO	CAB-100
		COMPLETE "OPEN" CONTACT WITH BARS	
	1	CAVO FLESSIBILE / Flexible cable 120	CF12051
	2	MOZZO CATODICO / cathode hub	URB-150
	3	MOZZO CU / Cu hub	URB-155
	4	GIUNTO ESTERNO / external joint	URB-160
	5	BUSSOLA DI PROTEZIONE IN PEEK / Bush in peek	LURBK161
	6	DISCO CATODICO / cathode disc	URB-140
	7	PROTEZIONE DISCO CATODICO / protection for cathode disc	URB-170
	8	BARRETTA IN INOX / bar Ø 12 in SS	LURB-161
	9	GRUPPO FISSAGGIO BARRETTA / bars fixing unit	URB-162





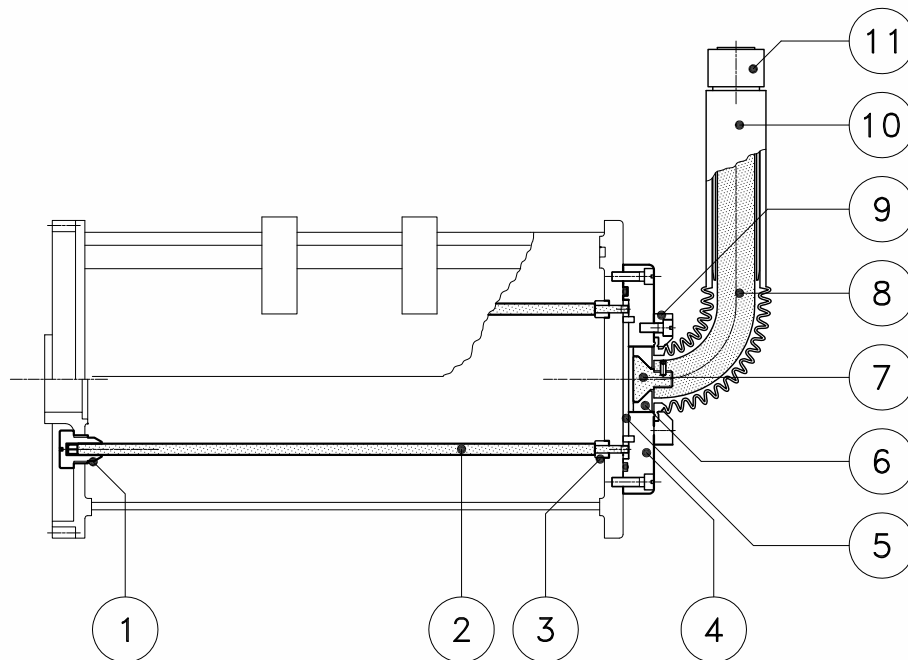
CONTATTO CATODICO STAGNO A BARRETTE • CATHODE CONTACT "WATERTIGHT" WITH BARS

RICAMBI • SPARE PARTS	POS.	COMPONENTE / Part	CODICE / Code
		CONTATTO STAGNO A BARRETTE COMPLETO	CSB-300
		WATERTIGHT CATHODE CONTACT COMPLETE	
	1	GUIDA SUPERIORE SOFFIETTO / upper bellow guide DN 40	URB-303
	2	SOFFIETTO / bellow DN 40	URB-304
	3	SUPPORTO CATODICO /cathode support Ø40	LURB-305
	4	BUSSOLA / bush	URB-341A
	5	FLANGIA SOFFIETTO / bellow flange DN 40	LURB-320
	6	MOZZO CU / Cu hub	LURB-320A
	7	GIUNTO ESTERNO / external joint	URB-160
	8	BUSSOLA DI PROTEZIONE IN PEEK / Bush in peek	LURBK161
	9	BARRETTA IN INOX / bar Ø 12 in SS	LURB-161
	10	PROTEZIONE DISCO CATODICO / protection for cathode disc	URB-370
	11	DISCO CATODICO Cu / Cu cathode disc	URB-340A
	12	GRUPPO FISSAGGIO BARRETTA / bars fixing unit	URB-162




MONOCONTATTO PER PLASTICA • SINGLE CATHODE CONTACT FOR PLASTIC

RICAMBI • SPARE PARTS	POS.	COMPONENTE / Part	CODICE / Code
		MONOCONTATTO PER PLASTICA COMPLETO	MCS-500
		COMPLETE SINGLE CATHODE CONTACT FOR PLASTIC	
	1	BUSSOLA GUIDA FILETTATA PE / PE guide bushing	LURB-561A
	2	ASTINA $\varnothing 12$ / Rod $\varnothing 12$ in S.S.	LURB-561
	3	GUARNIZIONE E BUSSOLA DI PROTEZIONE PEEK / gasket + bush in peek	LURB2K561
	4	FLANGIA DI TENUTA in PP + VITI / joint flange in PP + screws	URB2-570
	5	DISCO CATODICO in Cu / cathode disc in Copper	LURB2-540
	6	FLANGIA e DISCO DI CONTATTO Cu+Ag / contact flange and disc	URB2-520B
	7	CONO DI CONTATTO / cone for contact	LURB2-520A
	8	SUPPORTO CATODICO / cathode support	LURB-305
	9	FLANGIA SOFFIETTO + VITI / bellow flange DN 40 + screws	URB-320
	10	SOFFIETTO COMPLETO / complete bellow	URB-304
	11	GUIDA SUPERIORE SOFFIETTO / upper bellow guide	URB-303





SPORTELLI AUTOMATICI

AUTOMATIC LIDS



Massimizzare l'efficienza!

Le odierne industrie galvaniche richiedono standard qualitativi sempre più alti. Inoltre si riscontra una crescente necessità di incrementare la produttività, senza variare anche i prezzi. A tal proposito Progalvano propone due sistemi di automazione dell'apertura/chiusura dei propri barili, al fine di contenere tempi, costi e massimizzare l'efficienza.

Maximizing efficiency!

Nowadays, the electroplating industries' request for high quality standards is getting higher and higher. Moreover there's a great need of increasing productivity and holding prices down. For this reason, Progalvano proposes two automatic opening/closing devices for its barrels, in order to save time, save costs and increase efficiency.



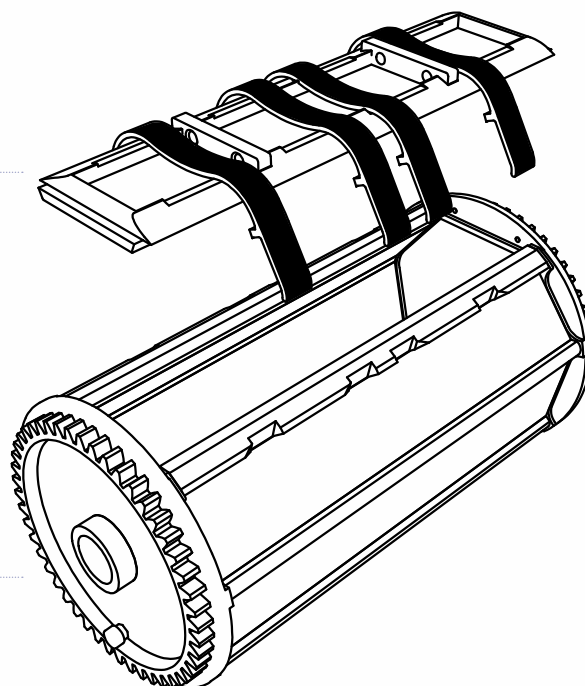


FUNZIONAMENTO • FUNCTIONING

E' lo sportello automatico più utilizzato, soprattutto per le produzioni standard. Comprende una camma magnetica per il corretto posizionamento del barile.

The most used automatic lid, especially for standard productions.

A magnetic cam for the precise positioning of the barrel is included.

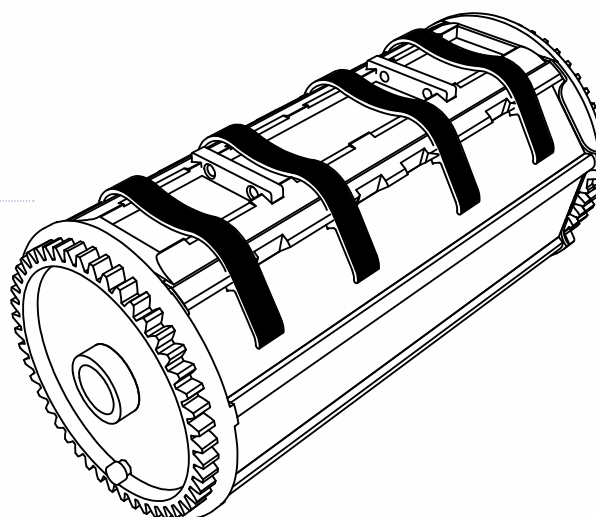


Un robot, specificamente progettato, opera sul barile facendo traslare le chiusure in PVDF longitudinalmente rispetto all'asse dell'esagono, da una posizione libera ad una di fissaggio.

Questa operazione avviene attraverso dei pistoni oleodinamici.

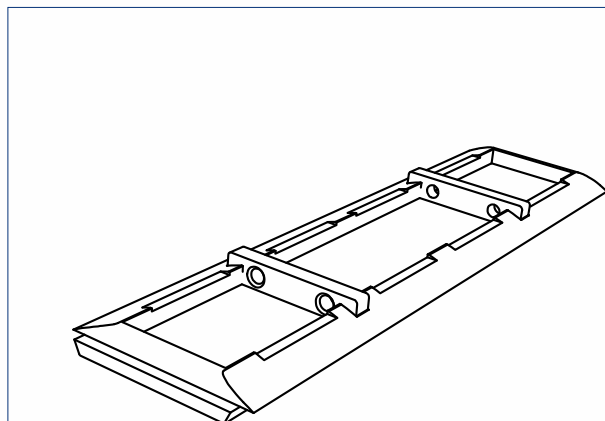
A robot, specifically designed, operates on the barrel by making slide the PVDF clips, following a longitudinal sense with respect to the axis of the cylinder.

This transfer allows a switch of the clips from an unlocked position to a locked one.



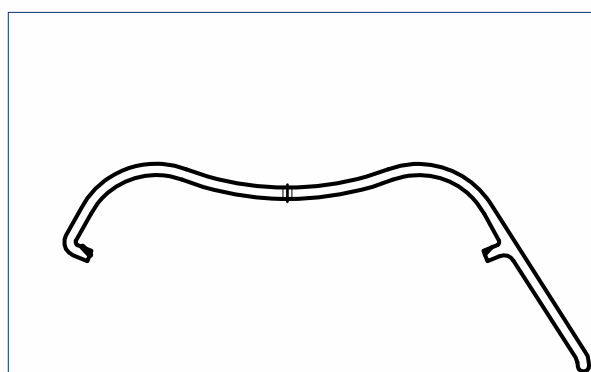


SPORTELLLO • LID



Codice	Modello
Code	Model
BA32-E1107	700/320
BA32-E1110	1000/320
BA36-E1108	800/360
BA36-E1110	1000/360
BA36-E1112	1200/360
BA42-E1110	1000/420
BA42-E1112	1200/420
BA40-E1108	800/360-7
BA40-E1110	1000/360-7
BA40-E1112	1200/360-7
BA50-E1110	1000/420-7
BA50-E1112	1200/420-7

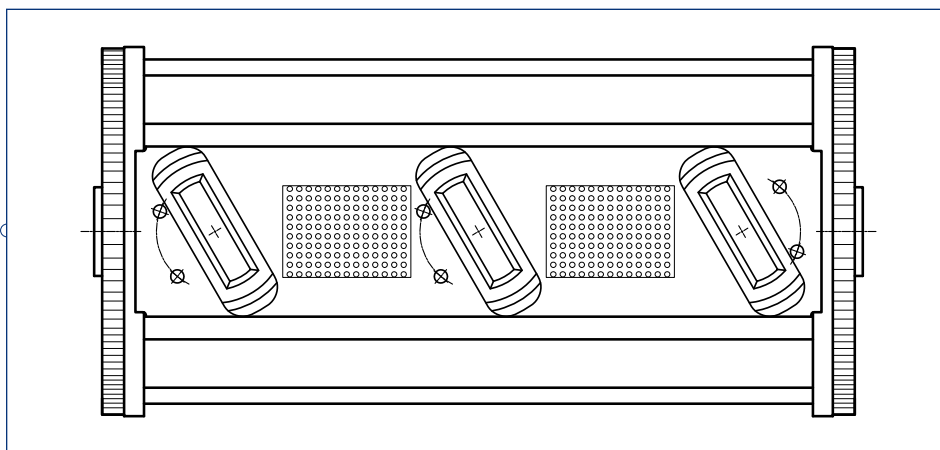
CHIUSURA • CLIP



Codice	Modello
Code	Model
BA32CF20	700/320
	1000/320
BA36CF20	800/360
	1000/360
	1200/360
BA42CF20	1000/420
	1200/420
BA40CF20	800/360-7
	1000/360-7
	1200/360-7
BA42CF20	1000/420-7
	1200/420-7



SPORTELLO AUTOMATICO AUTOBLOCCANTE • SELF-LOCKING AUTOMATIC LID



Specifico per alte temperature e carichi gravosi.
Le chiusure vengono RUOTATE dal robot
da una posizione "chiusa" ad una posizione "aperta".

*Specific for high temperatures and heavy loads.
The robot rotates the locks that switch
from a "closed" position to an "open" position.*

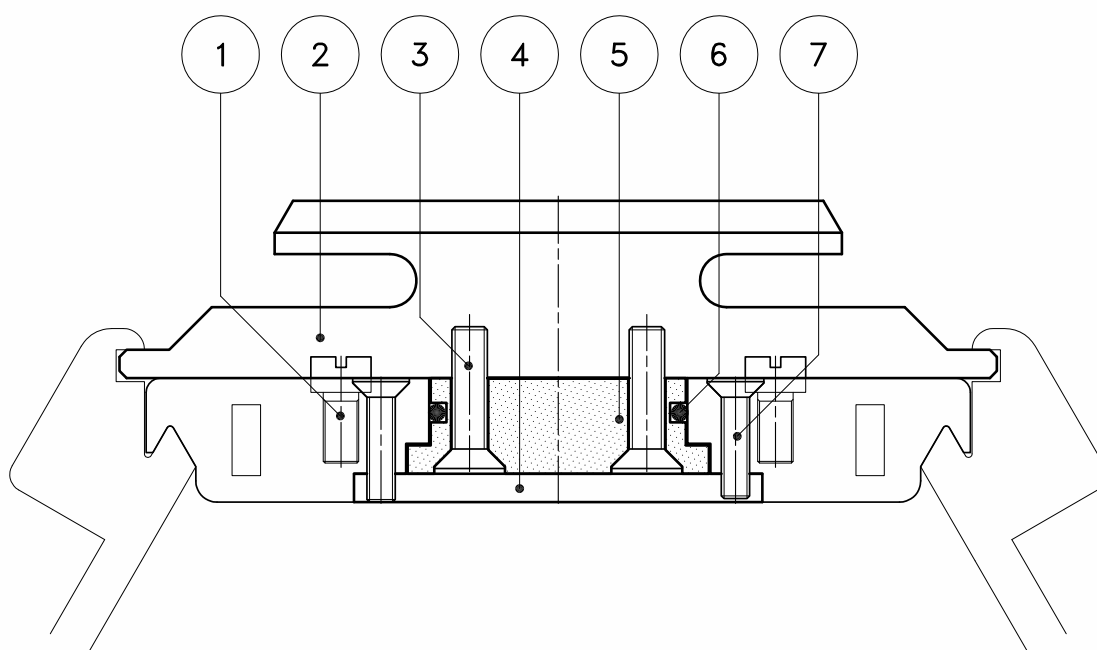


CHIUSURA • LOCK

POS.	Componente <i>Part</i>	Codice <i>Code</i>
1	VITE / screw M10x30 PVDF	V00841030
2	CHIUSURA PE / lock in PE	BZ00-F20
3	VITE / screw M10x40 PVDF	V61091040
4	COPERCHIO / cover	BZ00-F64
5	MOZZO / Hub PE	BZ00-F61
6	OR-163 VITON	CR0000241
7	VITE /screw M8x34 PVDF	V61090840

SPORTELLLO AUTOMATICO AUTOBLOCCANTE SELF-LOCKING AUTOMATIC LID

Codice <i>Code</i>	Modello <i>Model</i>
700/320	BZ32-E1107
1000/320	BZ32-E1110
800/360	BZ36-E1108
1000/360	BZ36-E1110
1200/360	BZ36-E1112
1000/420	BZ42-E1110
1200/420	BZ42-E1112
800/360-7	BZ40-E1108
1000/360-7	BZ40-E1110
1200/360-7	BZ40-E1112
1000/420-7	BZ50-E1110
1200/420-7	BZ50-E1112



CILINDRI IN PP

PP CYLINDERS



Tecnologia ed esperienza

Studiati per durare più a lungo e per resistere all'azione di sfregamento dei pezzi più pesanti, i cilindri in PP neutro costituiscono la prova tangibile della tecnologia Progalvano. Saldati per polifusione, questi cilindri hanno la capacità di rallentare l'occlusione dei fori e il processo di usura e di abrasione.

Technology and experience

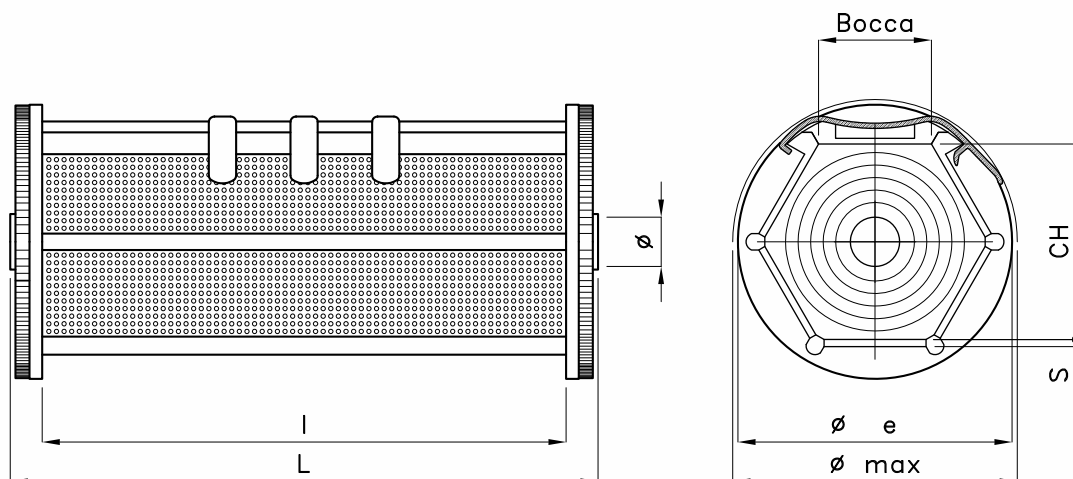
Designed to last longer and withstand the rubbing action of the heaviest pieces, the neutral PP cylinder is the tangible proof of Progalvano's higher-level technology. Welded by polyfusion, this barrel can reduce the clogging of the panel perforations as well as the wear and abrasion process.



LA GAMMA • RANGE

CILINDRI • CYLINDERS

Mod.	Cod.	CH / SW	Sp. / Thickness	L	I	Vol. dm ³	Portata load kg	Ø	Bocca	Øe	Ømax
500	B0526	260 Z60 M5,5	12	550	464	27	40	70.5	151	340	375
700	B0726			750	664	39	50	70.5	151	340	375
1000	B1026			1050	964	56	60	70.5	151	340	375
700	B0732	320 Z78 M5,5		750	644	55	70	70.5	183	441	450
1000	B1032			1050	944	81	80	70.5	183	441	450
800	B0836	360 Z48 M10		850	735	79	80	90.5	204.5	504	504
1000	B1036			1050	935	101	100	90.5	204.5	504	504
1200	B1236			1250	1135	122	100	90.5	204.5	504	504
800	B0840	360-7 Z48 M10		850	732	111	90	90.5	204.5	543	570
1000	B1040			1050	932	141	110	90.5	204.5	543	570
1200	B1240			1250	1132	171	110	90.5	204.5	543	570
1000	B1042	420 Z56 M10		1050	930	140	140	90.5	240	583	605
1200	B1242			1250	1130	170	140	90.5	240	583	605
1000	B1050	420-7 Z62 M10		1050	934	195	150	90.5	240	650	670
1200	B1250			1250	1134	237	150	90.5	240	650	670
1000	BM1042	420/M Z56 M10	15-20	1050	930	140	220	90.5	240	583	605
1200	BM1242			1250	1130	170	220	90.5	240	583	605
1500	BM1542			1550	1430	215	200	90.5	240	583	605
1000	BM1050	420-7/M Z56 M10		1050	934	195	250	90.5	240	650	670
1200	BM1250			1250	1134	237	250	90.5	240	650	670
1500	BM1550			1550	1434	300	230	90.5	240	650	670
1000	BM1060	600/M Z82 M10		1050	958	295	400	121.5	346	840	840
1200	BM1260			1250	1158	358	350	121.5	346	840	840
1500	BM1560			1550	1458	451	300	121.5	346	840	840
1000	BM1067	600-7/M Z82 M10		1050	958	310	450	121.5	300	840	840
1200	BM1267			1250	1158	375	400	121.5	300	840	840
1500	BM1567			1550	1458	473	350	121.5	300	840	840

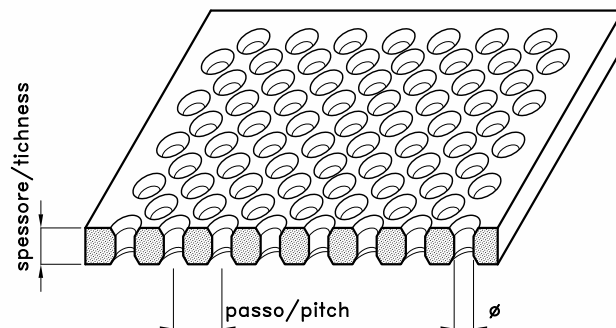




PERFORAZIONI • PERFORATIONS

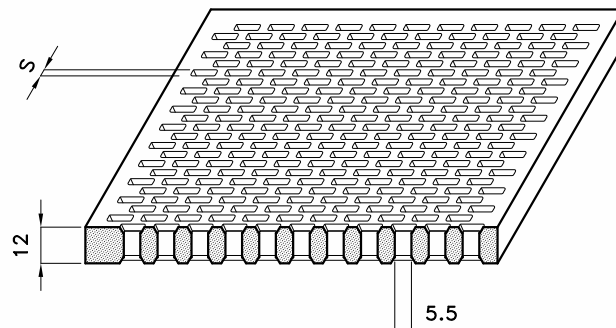
PERFORAZIONI CIRCOLARI • CIRCULAR PERFORATIONS

perforazione mm / perforation mm	Ø 1.5	Ø 2.5	Ø 2	Ø 3	Ø 3.5	Ø 4	Ø 5	Ø 6	Ø 8
passo mm / pitch mm	5	7.5	4.5	6.5	7.5	8.5	11.5	13.4	15
spessore mm / thickness mm	8	12	12 - 15 - 20						
% foratura / empty space	7%	9%	15,50%	18%	18%	18%	15%	16%	23%



PERFORAZIONI LAMELLARI • SLOT PERFORATIONS

perforazione mm / perforation mm	1.2x5.5	1.8x5.5	2.4x7.3
S mm	1.2	1.8	2.4
% foratura / empty space	13%	15%	18%

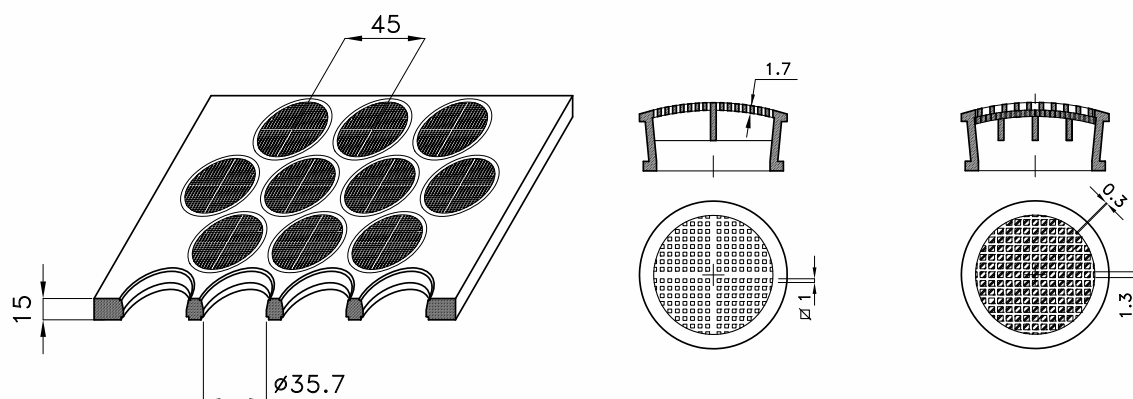




PERFORAZIONI • PERFORATIONS

PERFORAZIONI A BORCHIE • INSERTS

perforazione mm / perforation mm	1x1	0.3
% foratura / empty space	8.35%	0.4%



CHIUSURE A MOLLA IN PVDF CLIPS IN PVDF

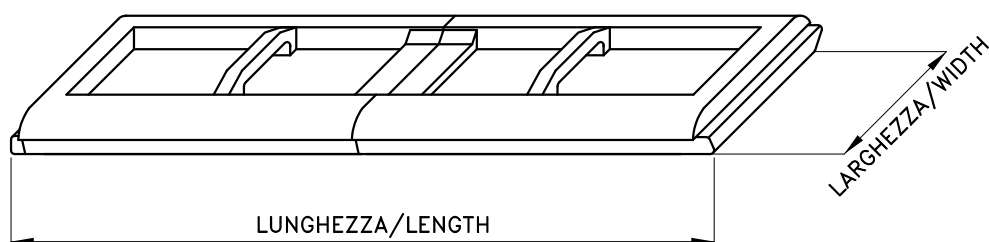
Codice Code	Chiave Sw		Modello • Model
SB26-F20	260		26
SB32-F20	320		32
SB36-F20	360		36
SB40-F20	360-7		40
SB42-F20	420		42-50
	420-7		



COPPIA SPORTELLI • PAIR OF LIDS

SPORTELLI • LIDS

Modello	Codice	Lunghezza	Larghezza
Model	Code	Length	Width
500/260	B26-E11B05	462	151
700/260	B26-E11B07	662	151
1000/260	B26-E11B10	962	151
700/320	B32-E11B07	650	183
1000/320	B32-E11B10	950	183
800/360	B36-E11B08	730	204.5
1000/360	B36-E11B10	930	204.5
1200/360	B36-E11B12	1130	204.5
1000/420	B42-E11B10	934	240
1200/420	B42-E11B12	1134	240
1500/420	B42-E11B15	1434	240
1000/600	B60-E11B10	975	346
1200/600	B60-E11B12	1175	346
1500/600	B60-E11B15	1475	346
800/360-7 (ettagonale)	B40-E11B08	730	204.5
1000/360-7 (ettagonale)	B40-E11B10	930	204.5
1200/360-7 (ettagonale)	B40-E11B12	1130	204.5
1000/420-7 (ettagonale)	B50-E11B10	934	240
1200/420-7 (ettagonale)	B50-E11B12	1134	240
1500/420-7 (ettagonale)	B50-E11B15	1434	240
1000/600-7 (ettagonale)	B67-E11B10	975	300
1200/600-7 (ettagonale)	B67-E11B12	1175	300
1500/600-7 (ettagonale)	B67-E11B15	1475	300





CHIUSURA A BRACCI CONTRAPPOSTI LOCK WITH OPPOSING ARMS

Chiave

Codice

SW

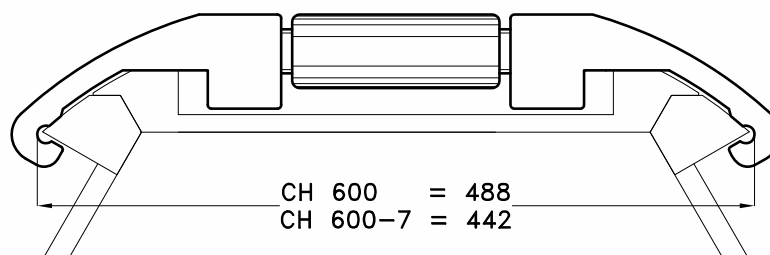
Code

600

LB60-F20

600-7

LB67-F20



PARATIE • PARTITION WALLS

Modello

Codice

Model

Code

260

B26-D10

320

B32-D10

360

B36-D10

420

B42-D10

600

B60-D10

360-7

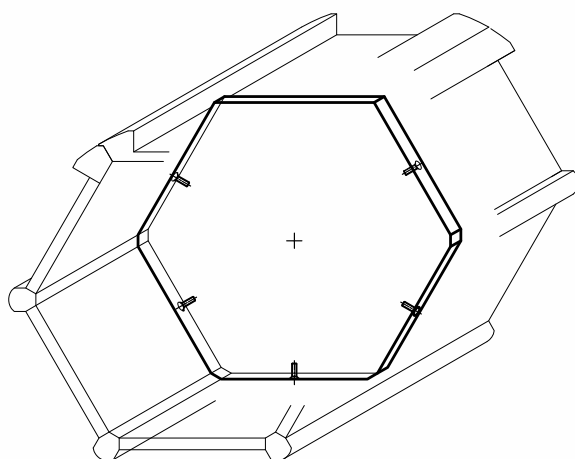
B40-D10

420-7

B50-D10

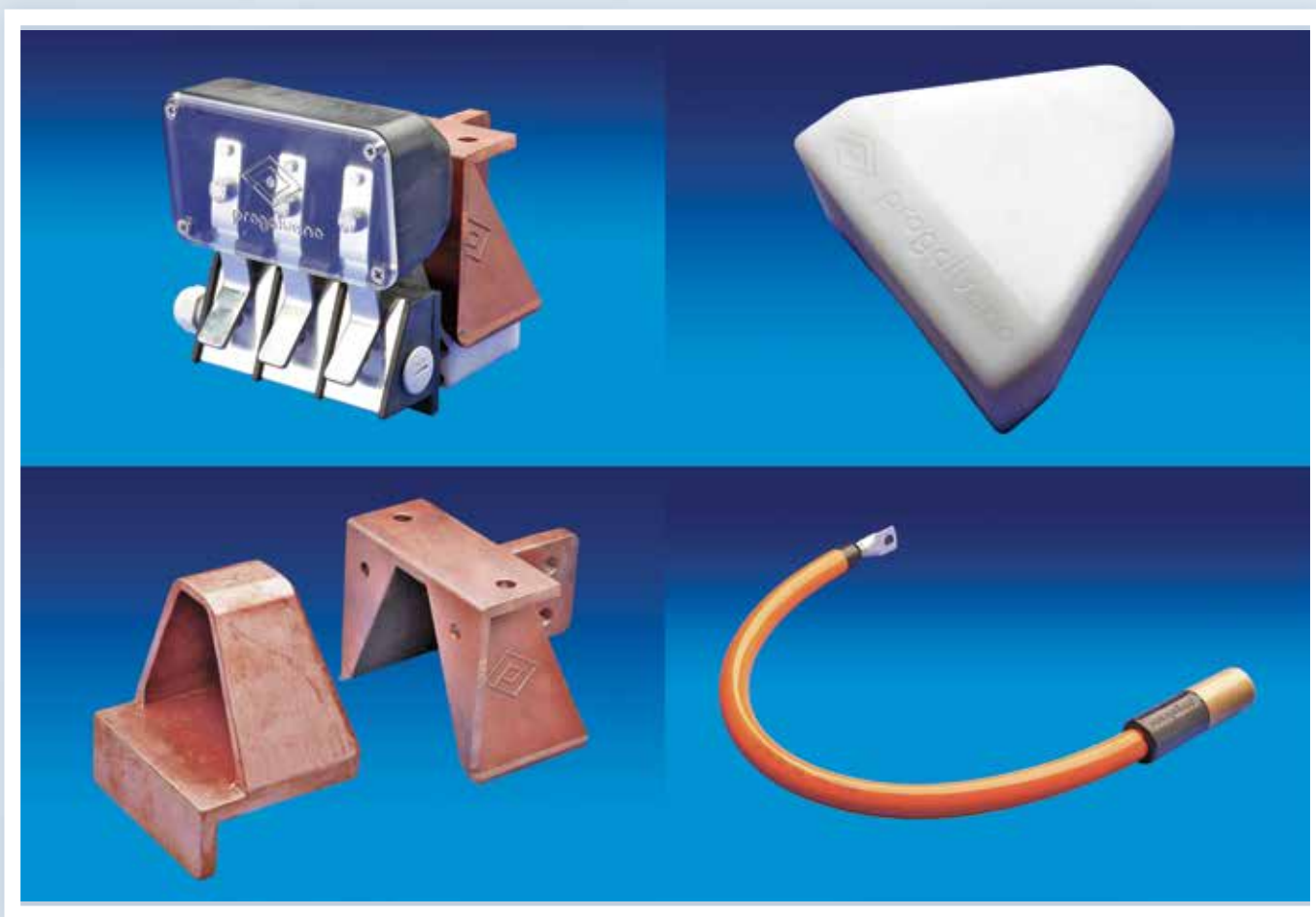
600-7

B67-D10



RICAMBI E ACCESSORI

SPARE PARTS & FITTINGS

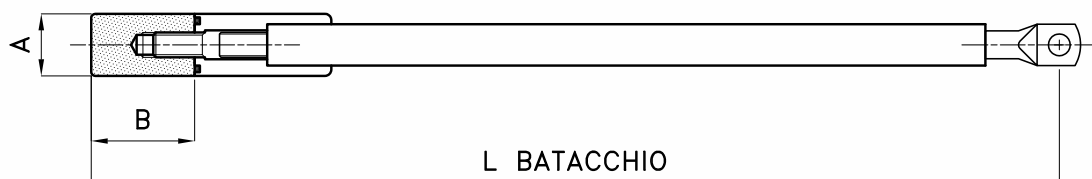




LA GAMMA • RANGE

CONTATTI CATODICI A BATACCIO DANGLER CATHODE CONTACTS				
Codice	Lunghezza Batacchio Mm	Sezione Cu	CAVO Ø mm	Dim. Testa Ottone
Code	Dangler Length Mm	Copper section mm ²	Cable Ø mm	Dim. Brass head (mm)
BT50060	600	50	20	30 x 50
BT50065	650			
BT50070	700			
BT50075	750			
BT50080	800			
BT50085	850			
BT50090	900			
BT50095	950			
BT50100	1000			
BTU12070	700	120	27	40 x 60
BTU12075	750			
BTU12080	800			
BTU12085	850			
BTU12090	900			
BTU12095	950			
BTU12100	1000			
BTU12110	1050			
BTU12110	1100			
BTU12115	1150	180	31	40 x 80
BTU12120	1200			
BT18100	1000			
BT18105	1050			
BT18110	1100			
BT18115	1150			
BT18120	1200			

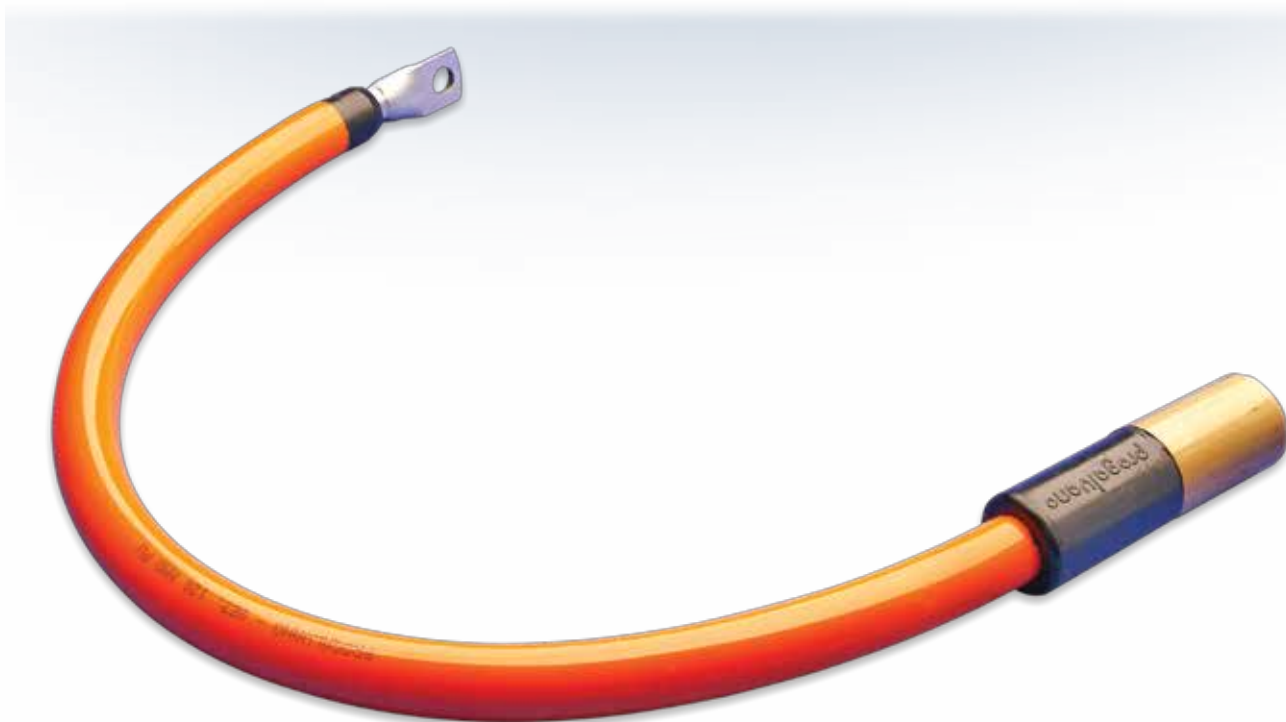
Dimensioni consigliate Suggested dangler sizes	
ROTOR EXPORT 2000	Batacchio rif.
Rotor Export 2000	Ref. Dangler
500/260	50mm ² /L=650
700/260	50mm ² /L=750
1000/260	120mm ² /L= 800
700/320	120mm ² /L= 800
1000/320	120mm ² /L=850
800/360	120mm ² /L=850
1000/360	120mm ² /L=900
1200/360	120mm ² /L=950
800/360-7	120mm ² /L=850
1000/360-7	120mm ² /L=900
1200/360-7	120mm ² /L=950
1000/420	120mm ² /L=950
1200/420	120mm ² /L=1000
1500/420	120mm ² /L=1050
1000/420-7	120mm ² /L=1000
1200/420-7	120mm ² /L=1050
1500/420-7	120mm ² /L=1100





TESTE • HEADS

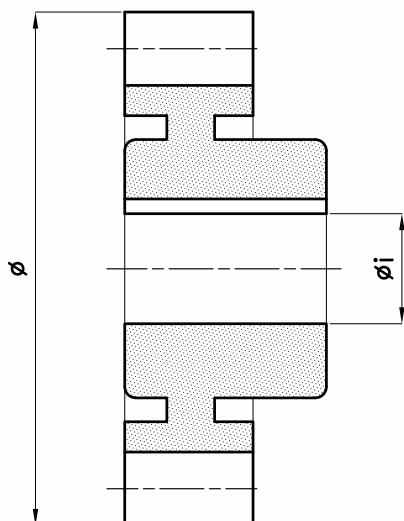
Codice	MAT.	Sezione Cu	Dim. Testa
Code		Cu section mm ²	Head Dimension (mm)
LURB-80A	Ottone / Brass	50	30 x 50
LURBF80A	Ferro / Iron	50	30 x 50
LURBX80A	INOX/St. Steel	50	30 x 50
LURB-81A	Ottone / Brass	120	40 x 60
LURBF81A	Ferro / Iron	120	40 x 60
LURBX81A	INOX/St. Steel	120	40 x 60
LURB-83A	Ottone / Brass	180	40 x 80
LURBF83A	Ferro / Iron	180	40 x 80
LURBX83A	INOX/St. Steel	180	40 X 80





ROTOR 2000

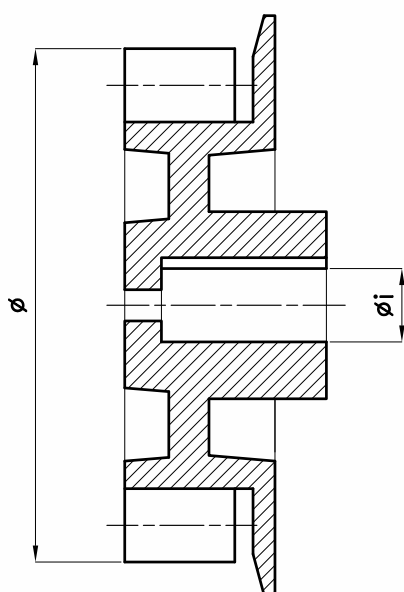
PIGNONI • PINIONS



Codice <i>Code</i>	MAT	Z	M	Ø	Ø i
URB2E30D30	PE	20	5.5	121	30
2URBE30D30	PE	12	10	140	30
2URBV30D30	PVDF	12	10	140	30

ROTOR

PIGNONI • PINIONS

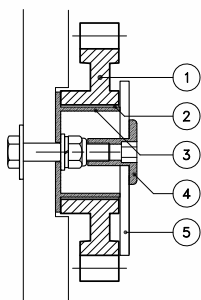


Codice <i>Code</i>	MAT	Z	M	Ø	Ø i
URBE30D20	PE	14	5.5	88	20
URBE30D25	PE	14	5.5	88	25
URBE30A25	PE	8	10	100	25
URBE30B25	PE	10	10	120	25
URBE30C20	PE	12	10	140	20
URBE30C25	PE	12	10	140	25



ROTOR 2000

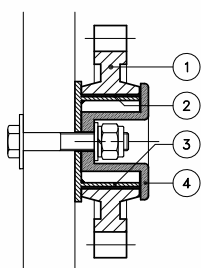
GRUPPO INGRANAGGIO INTERMEDIO INTERMEDIATE GEAR UNIT



POS.	Componente	Codice
	Part	Code
1...4	INGRANAGGIO COMPLETO / complete gear Z34 M5.5	URB2E90C
	INGRANAGGIO COMPLETO / complete gear Z18 M10	URB2E90D
1	INGRANAGGIO / gear Z34 M5.5	ZURBE90C
	INGRANAGGIO / gear Z18 M10	ZURB2E90D
2	RULON / antifriction	LCR226200
3	MOZZO INOX / S.S. hub	LURB-90A
4	GHIERA FISSAGGIO CARTER / protection fixing ring	SURB2-90B
5	CARTER PROTEZIONE INTERMEDIO / gear protection	SURB2-52

ROTOR

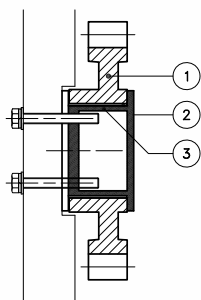
GRUPPO INGRANAGGIO INTERMEDIO INTERMEDIATE GEAR UNIT



POS.	Componente	Codice
	Part	Code
1...4	INGRANAGGIO COMPLETO / complete gear Z34 M5.5	URBE90C
	INGRANAGGIO COMPLETO / complete gear Z16 M10	URBE90E
	INGRANAGGIO COMPLETO / complete gear Z18 M10	URBE90D
1	INGRANAGGIO / gear Z34 M5.5	ZURBE90C
	INGRANAGGIO / gear Z16 M10	ZURBE90E
	INGRANAGGIO / gear Z18 M10	ZURBE90D
2	RULON / antifriction	LCR226200
3	MOZZO INOX / S.S. hub	LURB-90A
4	FLANGIA in PP / PP flange	SURB-90D

ROTOR 2000 M

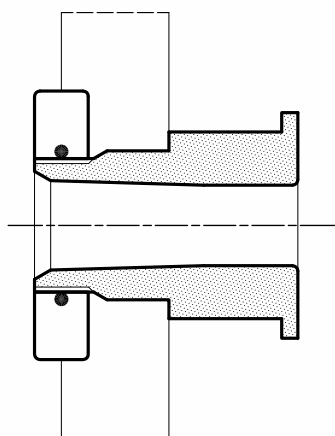
GRUPPO INGRANAGGIO INTERMEDIO INTERMEDIATE GEAR UNIT



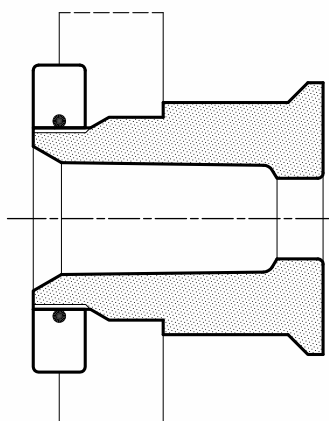
POS.	Componente	Codice
	Part	Code
1...4	INGRANAGGIO COMPLETO / complete gear Z18 M10 - PVDF	URB2V90D
	INGRANAGGIO COMPLETO / complete gear Z25 M10 - PVDF	URB2V90G
	INGRANAGGIO COMPLETO / complete gear Z25 M10 - PE	URB2E90G
1	INGRANAGGIO / gear Z18 M10 IN PVDF	ZURB2V90D
	INGRANAGGIO / gear Z25 M10 IN PVDF	ZURB2V90G
	INGRANAGGIO / gear Z25 M10 IN PE	ZURB2E90G
2	RULON / antifriction	LCR226200
3	MOZZO INOX RINFORZATO / S.S. reinforced hub	LURB-90F

**ROTOR 2000****MOZZI AUTOBLOCCANTI
SELF-LOCKING HUBS**

Codice	Modello	MAT
Code	Model	
URB2-20A	D.N. 70	PP
URB2V20A	D.N. 70	PVDF
URB2-20B	D.N. 90	PP
URB2V20B	D.N. 90	PVDF



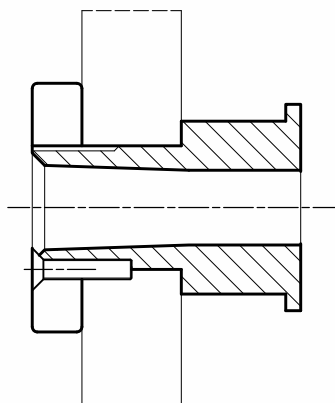
D.N. 70



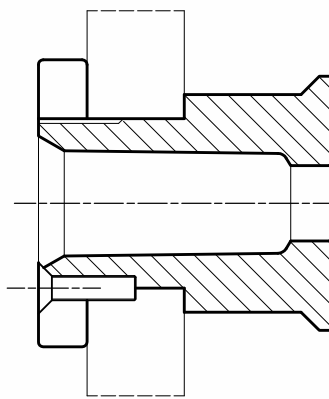
D.N. 90

ROTOR**MOZZI FILETTATI
THREADED HUBS**

Codice	Modello	MAT
Code	Model	
URB-20A	D.N. 70	PP
URB-20B	D.N. 90	PP



D.N. 70

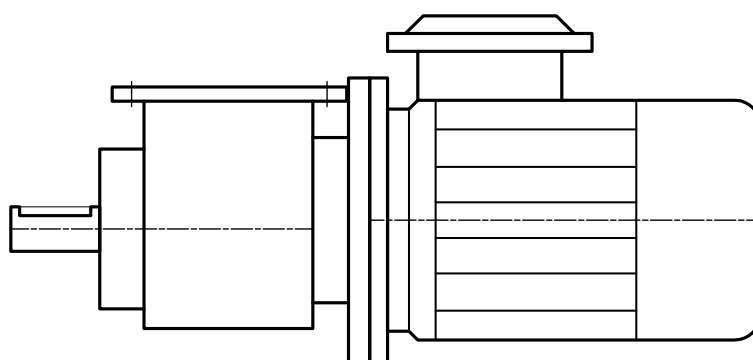


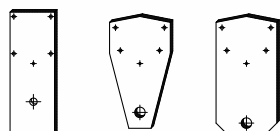
D.N. 90



MOTORIDUTTORI • GEAR MOTORS

Modello Rotor	Componente	Codice
Rotor Model	Part	Code
MINI ROTOR	MOTORIDUTTORE / gear motor 0.09kW 26giri/rpm	MR56-V100
	RIDUTTORE / reducer 26giri/rpm	R56--V100
	MOTORE / motor 0.09kW 24/42V	M56--S100
	MOTORE / motor 80W CC 12V	M56--S010
ROTOR 260	MOTORIDUTTORE / gear motor 0.25kW 25giri/rpm	MR63-V101
	RIDUTTORE / reducer 25giri/rpm	R63--V101
	MOTORE / motor 0.25kW 24/42V	M63--S101
	RIDUTTORE / reducer 3 coppie 14giri/rpm	R63--V300
	MOTORE / motor 120W CC 24V	M63--S011
ROTOR 320 - 420/7	MOTORIDUTTORE / gear motor 0.37kW 25giri/rpm	MR71-V100
	RIDUTTORE / reducer 25giri/rpm	R71-V100
	RIDUTTORE / reducer 3 coppie 14giri/rpm	R71--V300
	MOTORE / motor 0.37kW 24/42V	M71--S100
ROTOR 260 - 420/7	MOTORIDUTTORE / gear motor SEW R37 0.37kW 25giri/rpm	MR71-W100
	MOTORIDUTTORE / gear motor SEW R37 0.37kW 16giri/rpm	MR71-W105
	MOTORIDUTTORE / gear motor SEW R47 0.55kW 26giri/rpm	MR80-W100
	COMMUTATORE / inverter 16A	CR0000110
	COMMUTATORE / inverter 40A	CR0000118
	SALVAMOTORE / motor protector	CR00100



ROTOR
SPALLE • UPRIGHTS

POS
Modello
Codice
Model
Code

1

260

LRX26-10

2

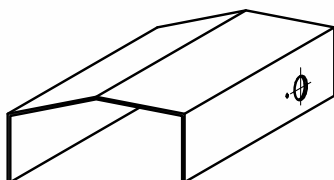
320 - 360 - 360/7 - 420

SRX00-10

3

420/7

LRX50-10

CARTER SUPERIORE • UPPER PROTECTIVE HOOD

Codice
Modello
Code
Model

LURB-50A07

700

LURB-50A08

800

LURB-50A10

1000

LURB-50A12

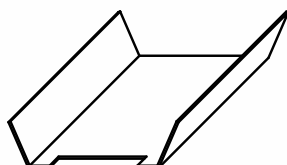
1200

LURB-50B05

500/260

LURB-50B07

700/260

CARTER INFERIORE • LOWER PROTECTIVE HOOD

Codice
Modello
Code
Model

LURB-5107

700

LURB-5108

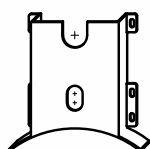
800

LURB-5110

1000

LURB-5112

1200

**CARTER PROTEZIONE INTERMEDIO
PROTECTIVE HOOD FOR INTERMEDIATE GEAR**

Codice
Modello
Code
Model

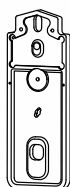
SURB-52

260 - 320 - 360 - 360/7 - 420 - 420/7



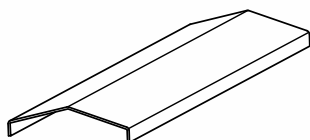
ROTOR 2000

SPALLE • UPRIGHTS



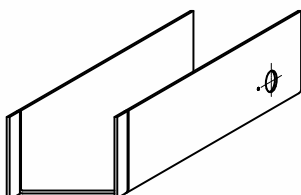
Codice	Modello
Code	Model
SR2000-10	260 - 320 - 360 - 360/7 - 420 - 420/7
LR2000-10	600 - 600/7

CARTER SUPERIORE • UPPER PROTECTIVE HOOD



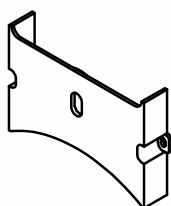
Codice	Modello
Code	Model
LURB2-50A07	700
LURB2-50A08	800
LURB2-50A10	1000
LURB2-50A12	1200
LURB2-50A15	1500

CARTER INFERIORE • LOWER PROTECTIVE HOOD



Codice	Modello
Code	Model
LURB2-5107	700
LURB2-5108	800
LURB2-5110	1000
LURB2-5112	1200
LURB2-5115	1500

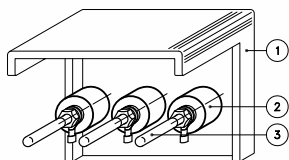
CARTER PROTEZIONE INTERMEDIO PROTECTIVE HOOD FOR INTERMEDIATE GEAR



Codice	Modello
Code	Model
SURB2-52	260 - 320 - 360 - 360/7 - 420 - 420/7

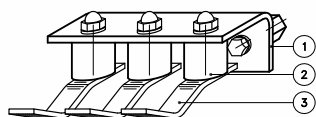


MORSETTIERA AEREA • HOIST PICK-UP CONTACT



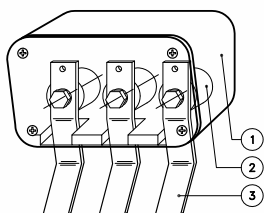
POS.	Componente	Codice
	Part	Code
1	PROTEZIONE MORSETTIERA AEREA / protection for hoist pick-up	SURB2-54
2	ANTIVIBRANTE / antivibration 30x30	SURB-24A
3	PERNO DI CONTATTO / contact pin	LURB-70A
2+3	CONTATTO COMPLETO / complete contact	URB-70

MORSETTIERA FLEX A CUCCHIAINO • PICK-UP CONTACT FLEXIBLE SPOON



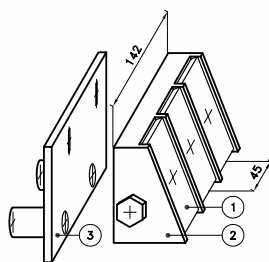
POS.	Componente	Codice
	Part	Code
1...3	Morsettiera completa / complete pick-up contact	URB-74
1	PIASTRA INOX / S.S. plate	LURB-71A
2	ANTIVIBRANTE / antivibration 30x30	SURB-24A
3	CUCCHIAINO Cu / Copper spoon	LURB-71C
2+3	CONTATTO COMPLETO / complete contact	URB-71C

MORSETTIERA ROTOR EXPORT • ROTOR EXPORT PICK-UP CONTACT

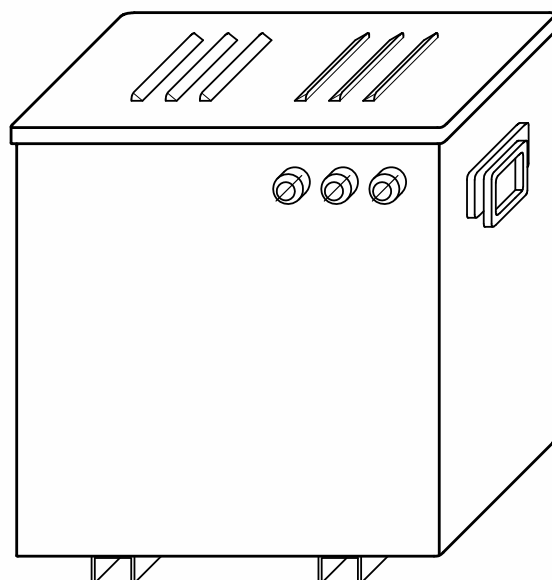


POS.	Componente	Codice
	Part	Code
1...3	Morsettiera completa / complete pick-up contact	URB-71
1	CORPO MORSETTIERA / pick-up body	SURB-71A
2	ANTIVIBRANTE / antivibration 30x30	SURB-24A
3	CUCCHIAINO Cu / Copper spoon	LURB-71C
2+3	CONTATTO COMPLETO / complete contact	URB-71C

MORSETTIERA VASCA (Interasse 45mm) • PICK-UP FOR TANKS (Distance 45mm)



POS.	Componente	Codice
	Part	Code
1...3	Morsettiera completa int. 45mm/ complete pick-up contact dist. 45mm	AV-201
1	PIASTRINA Cu / copper plate	LAV-201A
2	CORPO PP / PP body	SAV-201B
3	PIASTRA SUPPORTO - PP / PP support plate	SAV-201C
optional	PIASTRA SUPPORTO - INOX / S.S. support plate	LAV-201D

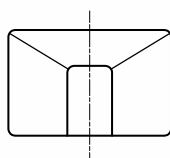
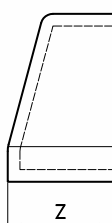
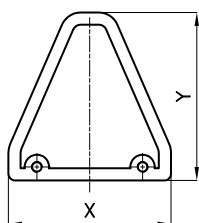


TRASFORMATORI TRIFASE • *THREE-PHASE TRANSFORMERS*

CODICE	VOLT entrata	VOLT uscita	kW
<i>Code</i>	<i>VOLT in</i>	<i>Volt Out</i>	
AV2400005	380	24	0.5
AV4200005		42	0.5
AV2400010		24	1
AV4200010		42	1
AV2400020		24	2
AV4200020		42	2
AV2400030		24	3
AV4200030		42	3
AV2400040		24	4
AV4200040		42	4
AV2400060		24	6
AV4200060		42	6
AV2400100		24	10
AV4200100		42	10
AV2400150		24	15
AV4200150		42	15

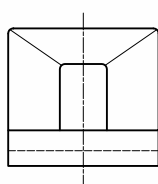
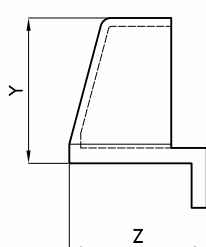
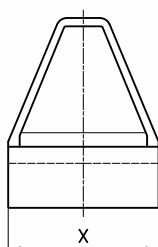


CUNEO IN PE • PE WEDGE



Modello	Codice	X	Y	Z
Model	Code			
500	SAV-101A	68	87	55
1000	SAV-102A	98	127	77
2000	SAV-103A	120	124	78

CUNEO IN OTTONE • BRASS WEDGE

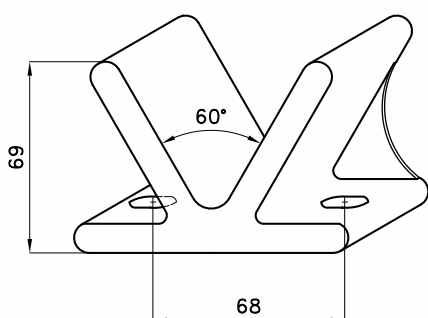


Modello	Codice	X	Y	Z
Model	Code			
500	FAVO-101	67	80	70
1000	FAVO102	98	114	107
2000	FAVO103	118	108	106

CUNEO IN RAME 98% • 98% CU WEDGE

2000	FAVC103	118	108	106
------	---------	-----	-----	-----

SUPPORTO A "V" • "V" SUPPORT



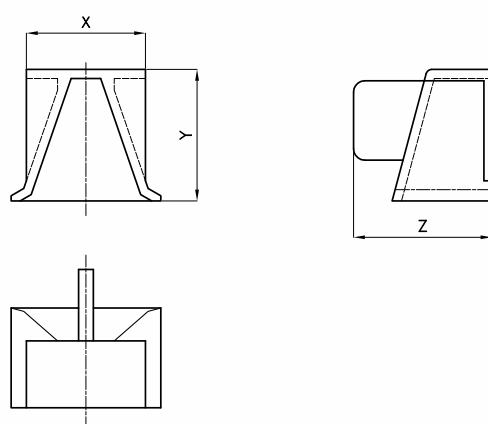
MAT.	Codice
	Code
OTTONE /brass	FAV0001
PE	SAV-001A


CAMPANA IN OTTONE • BRASS BELL

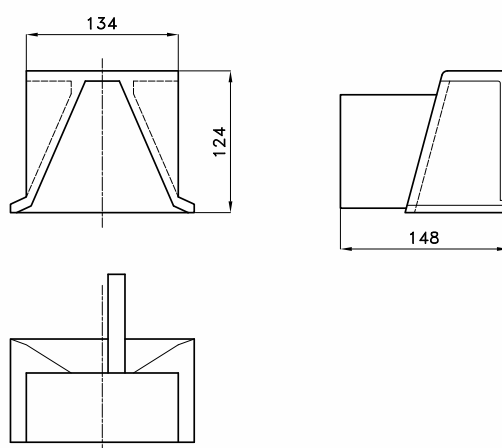
Modello <i>Model</i>	Codice <i>Code</i>	X	Y	Z
500	FURB012A	77	87	88
1000	FURB012B	105	116	122
2000	FURB012C	134	120	125

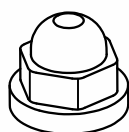
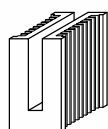
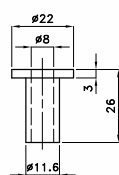
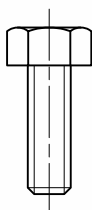
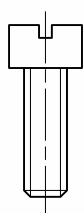
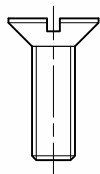
CAMPANA IN RAME • CU BELL

2000	FAVC12C	134	120	125
------	---------	-----	-----	-----


CAMPANA PER BARRA • BELL FOR BAR

Modello <i>Model</i>	Codice <i>Code</i>	Mat
2000	FAV0121	Ottone stagnato / tinned brass
	FAVC121	RAME 98% / copper 98%




VITE T.S. IN PVDF • SCREW T.S. IN PVDF

Codice <i>Code</i>	Dimensione <i>Dimension</i>
V61090840	8 x 40
V61091022	10 x 22
V61091032	10 x 32
V61091040	10 x 40

VITE T.C. IN PVDF • SCREW T.C. IN PVDF

Codice <i>Code</i>	Dimensione <i>Dimension</i>
(PVDF) V00841030	10 x 30
(PVDF) V00841050	10 x 50
(PE) E00841645	16 x 45
(PE) E00841660	16 x 60

VITE T.E. IN PVDF • SCREW T.E. IN PVDF

Codice <i>Code</i>	Dimensione <i>Dimension</i>
V57390825	8 x 25
V57391020	10 x 20
V57391030	10 x 30
V57391040	10 x 40

ISOLATORI • INSULATING PARTS

Codice <i>Code</i>	Dimensione <i>Dimension</i>
SAV-203D	BUSSOLAISOLANTE / insulating bush
SAV-210	SUPPORTO ISOLANTE PER BARRA insulating support for bar

DADO AD OGIVA IN INOX + PVDF • NUT IN S.S. + PVDF

Codice <i>Code</i>	Dimensione <i>Dimension</i>
V57210006	M 6
V57210008	M 8
V57210010	M10

MINIROTOR



CARATTERISTICHE

Tutta la tecnologia Progalvano è sintetizzata nei Minirotor: apparecchi studiati per la produzione di piccole partite e campionature. Oltre ad un'ampia scelta di perforazioni, la gamma standard dei Minirotor prevede cilindri con 2 differenti chiavi e 5 possibilità di lunghezze.

FEATURES

Progalvano's entire technology can be described by its Minirotors: specific equipments designed for producing small lots and samplings. Besides a wide choice of panel perforations, the Minirotor standard range includes cylinders having 2 different diameters and 5 possible lengths.



MINIOTOR PORTATILI 12V CC • PORTABLE MINIOTORS 12V DC

N. Codice	Modello	Spessore mm	Volume	Portata kg	Temper. Max °C	Batacchi mm ²	Peso kg
Code N.	Model	Thickness mm	dm ³	Load capacity kg	Max Temper. °C	Danglers mm ²	Weight kg
MP1013	100/135	4	1,5	1,5	85	16	4,00
MP2013	200/135		3	3		16	4,50
MP2513	250/135		3,8	3,5		16	5,00
MP3722	370/220		10,5	6		25	7,00
MP4722	470/220		13,5	8		25	8,00
MP3722-7	370/220-7		14,4	6		25	7,00
MP4722-7	470/220-7		18,5	8		25	8,00

DATI TECNICI • TECHNICAL DETAILS

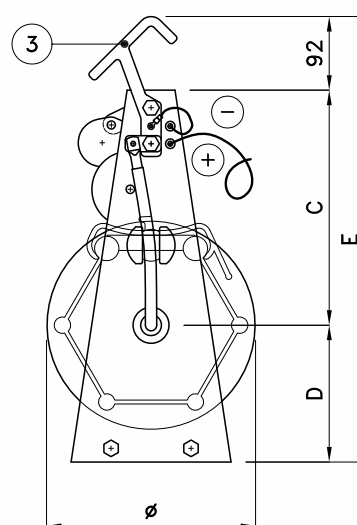
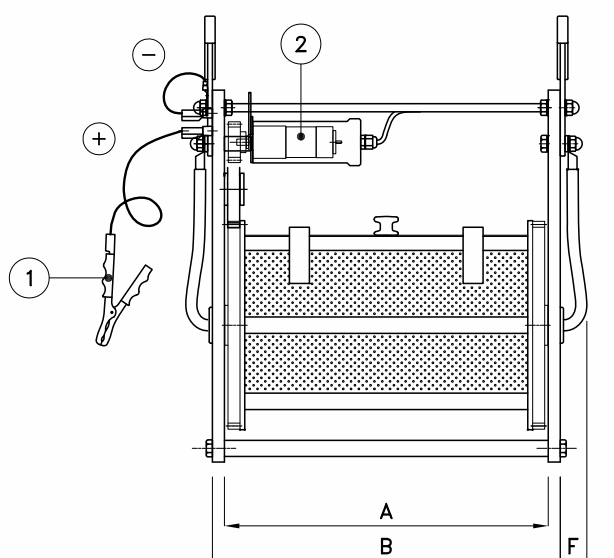
CH / SW	MOD	A	B	C	D	E	Ø
135	100	155	185	241	129	462	190
135	200	255	285	241	129	462	190
135	250	305	335	241	129	462	190
220	370	405	435	294	171	557	260
220	470	505	535	294	171	557	260
220-7	370	405	435	294	171	557	295
220-7	470	505	535	294	171	557	295

RICAMBI • SPARE PARTS

POS.	Componente	Codice
	Part	Code
1	PINZA A COCCODRILLO / alligator clip	UMR-14A
2	GANCIO PER BARRA CATODICA / hook for cathodic bar	FUMR026
3	MOTORIDUTTORE EPICICLOIDALE 12V DC / gear drive motor 12V DC	MR-E192

SPALLE • UPRIGHTS

COD.	Componente
	Part
LMP13-10	SEMPLICE / simple mod. 135
LMP13-10A	LATO TRASMISSIONE / transmission side mod. 135
LMP22-10	SEMPLICE / simple mod. 220
LMP22-10A	LATO TRASMISSIONE / transmission side mod. 220





MINIROTOR 2000

N. Codice	Modello	Spessore mm	Volume	Portata kg	Temper. Max °C	Batacchi mm ²	Motori kW	Peso kg
Code N.	Model	Thickness mm	dm ³	Load capacity kg	Max Temper. °C	Danglers mm ²	Motors kW	Weight kg
M23722	370/220	4	10,5	6	85	25	0.09	32
M24722	470/220		13,5	8		25	0.09	33
M23722-7	370/220-7		14,4	10		25	0.09	33
M24722-7	470/220-7		18,5	12		25	0.09	34

DATI TECNICI • TECHNICAL DETAILS

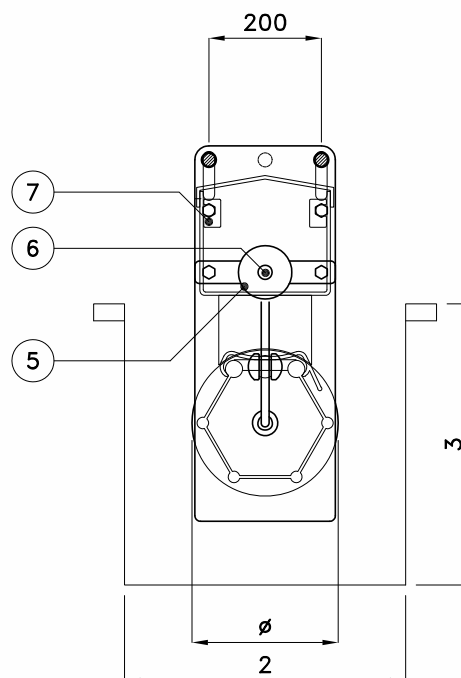
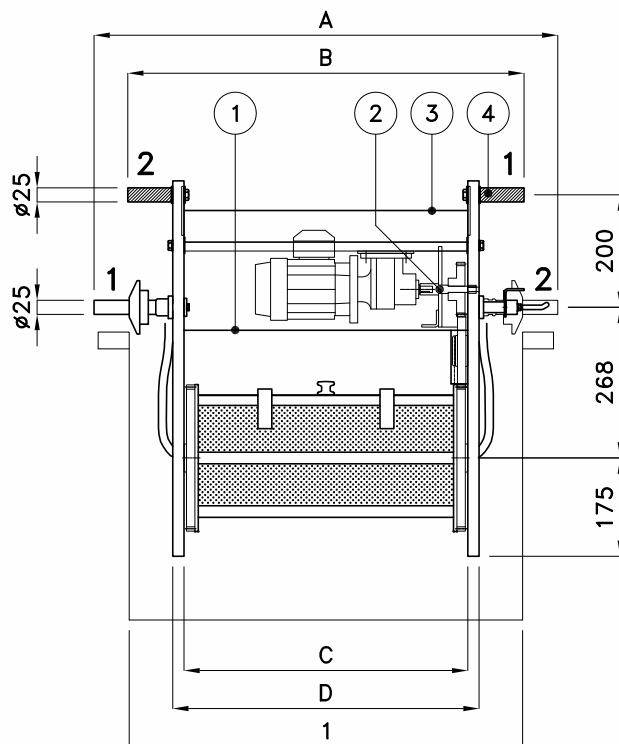
CH / SW	MOD	A	B	C	D	Ø
220	370	725	605	405	445	260
220	470	825	705	505	545	260
220-7	370	725	605	405	445	295
220-7	470	825	705	505	545	295

VASCHE • TANKS

1	2	3
600	500	500
700	500	500

RICAMBI • SPARE PARTS

POS.	Componente	Codice
	Part	Code
1	CARTER INFERIORE / low protective hood	LUMR2-51A
2	ALBERO SUPPORTO PIGNONE / pinion shaft	LUMR2-08
3	CARTER SUPERIORE / upper protective hood	LUMR2-50
4	PERNO DI SOLLEVAMENTO / lifting pin	LUMR2-13
5	DISTANZIALE DI CENTRAGGIO / centering spacer D25	SURB-2325
6	SUPPORTO DI CONTATTO / contact support	LUMR2-13A
7	MORSETTO SEDIA MOTORE / motor plate holdfast	LUMR-41





MINIROTOR EXPORT 2000

N. Codice	Modello	Spessore mm	Volume	Portata kg	Temper. Max °C	Batacchi mm ²	Motori kW	Peso kg
Code N.	Model	Thickness mm	dm ³	Load capacity kg	Max Temper. °C	Danglers mm ²	Motors kW	Weight kg
M23722	370/220	4	10,5	6	85	25	0.09	33
M24722	470/220		13,5	8		25	0.09	34
M23722-7	370/220-7		14,4	10		25	0.09	34
M24722-7	470/220-7		18,5	12		25	0.09	35

DATI TECNICI • TECHNICAL DETAILS

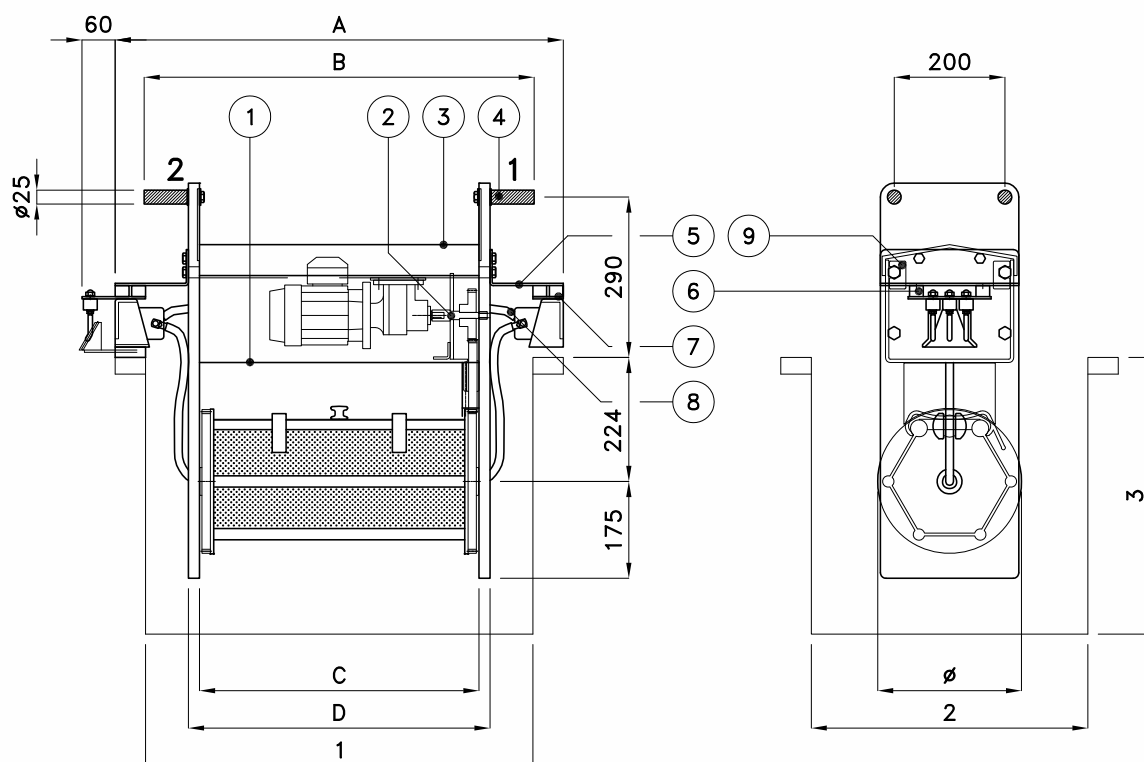
CH / SW	MOD	A	B	C	D	Ø
220	370	710	605	405	445	260
220	470	810	705	505	545	260
220-7	370	710	605	405	445	295
220-7	470	810	705	505	545	295

VASCHE • TANKS

1	2	3
600	500	500
700	500	500

RICAMBI • SPARE PARTS

POS.	Componente	Codice
	Part	Code
1	CARTER INFERIORE / low protective hood	LUMR2-51
2	ALBERO SUPPORTO PIGNONE / pinion shaft	LUMR2-08
3	CARTER SUPERIORE / upper protective hood	LUMR2-50
4	PERNO DI SOLLEVAMENTO / lifting pin	LUMR2-13
5	STAFFA SUPPORTO CAMPANA / support bracket for bell	LUMR2-01D
6	ANTIVIBRANTI / antivibrations Ø 25x20	SUMR-24
7	PIASTRA SUPPORTO CAMPANA / support plate for bell	LUMR-01E
8	CAVO PONTE / bridge cable	UMR-1104
9	MORSETTO SEDIA MOTORE / motor plate holdfast	LUMR-41



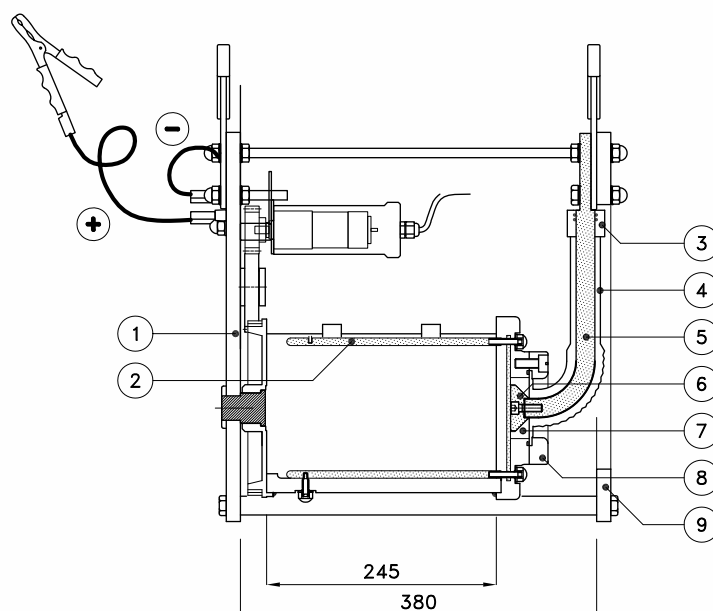
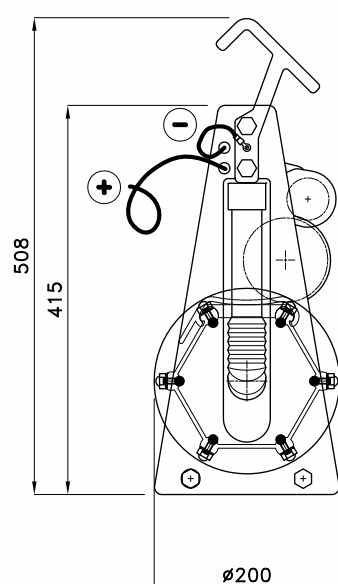


MINIROTOR A BARRETTE MOD. 135 • MINIROTOR WITH BARS MOD. 135

N. Codice	Modello	Spessore mm	Volume	Portata kg	Temper. Max °C	Motori CC V	Peso kg
Code N.	Model	Thickness mm	dm ³	Load capacity kg	Max Temper. °C	Motors DC V	Weight kg
MP513	245/135	4	3,4	3	85°C	12	9

RICAMBI • SPARE PARTS

POS.	Componente Part	Codice Code
1	SPALLA LATO TRASMISSIONE / transmission upright	LMP13-510A
2	BARRETTA INOX / bar dia.10 in S.S.	LUMR2-501
3	GUIDA SUPERIORE SOFFIETTO / upper bellow's guide	UMR-303
4	SOFFIETTO COMPLETO / complete bellow DN 20	UMR-304
5	SUPPORTO CATODICO in OTTONE / cathode support in brass	LUMR-505
6	CONO DI CONTATTO / contact cone	LUMR2-520A
7	FLANGIA DI CONTATTO / contact flange	LUMR2-520B
8	FLANGIA SOFFIETTO / flange for bellow	LUMR-520
9	SPALLA PROTEZIONE SOFFIETTO / upright with bellow protection	LMP13-510





MINIROTOR A BARRETTE MOD. 220 • MINIROTOR WITH BARS MOD. 220

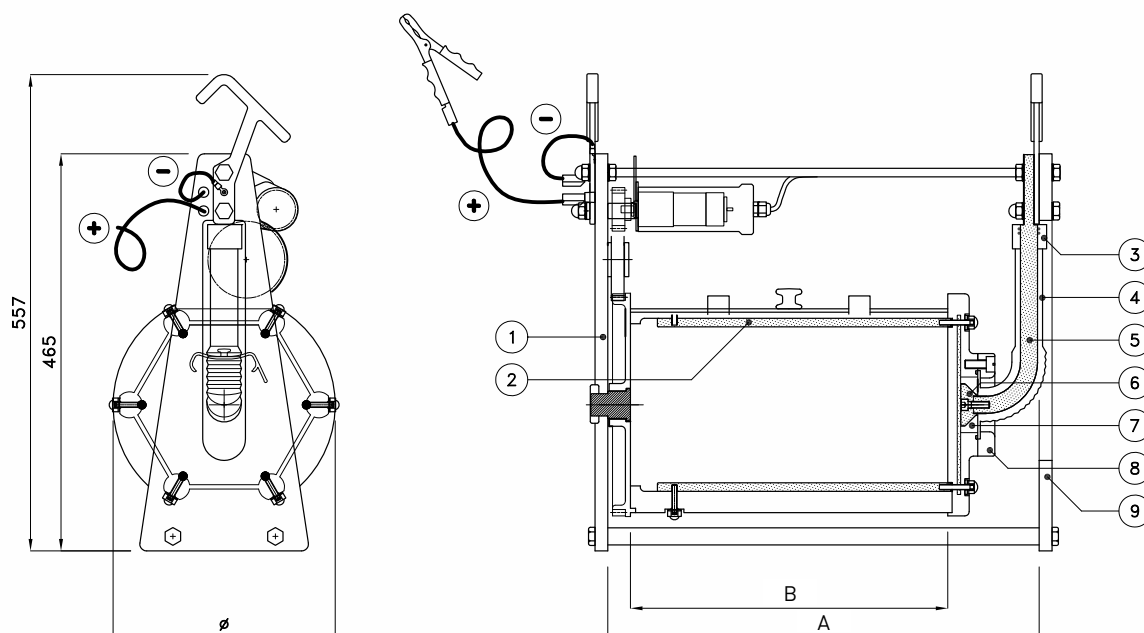
N. Codice	Modello	Spessore mm	Volume	Portata kg	Temper. Max °C	Motori CC V	Peso kg
Code N.	Model	Thickness mm	dm ³	Load capacity kg	Max Temper. °C	Motors DC V	Weight kg
MP53722	370/220	4	8	6	85	12	10
MP54722	470/220		11	8			11
MP53722-7	370/220-7		10	6			10
MP54722-7	470/220-7		13,5	8			11

DATI TECNICI • TECHNICAL DETAILS

CH / SW	MOD	A	B	Ø
220	370	405	271,5	260
220	470	505	371,5	260
220-7	370	405	267	295
220-7	470	505	367	295

RICAMBI • SPARE PARTS

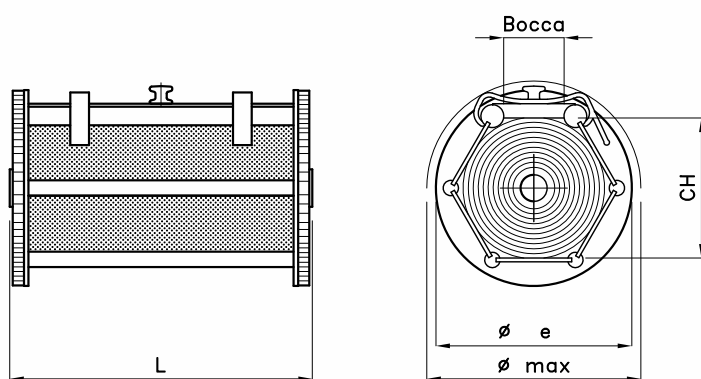
POS.	Componente	Codice
	Part	Code
1	SPALLA LATO TRASMISSIONE / transmission upright	LMP22-510A
2	BARRETTA INOX / bar dia.10 in S.S.	LUMR2-501
3	GUIDA SUPERIORE SOFFIETTO / upper bellow's guide	UMR-303
4	SOFFIETTO COMPLETO / complete bellow DN 20	UMR-304
5	SUPPORTO CATODICO in OTTONE / cathode support in brass	LUMR-505
6	CONO DI CONTATTO / contact cone	LUMR2-520A
7	FLANGIA DI CONTATTO / contact flange	LUMR-520B
8	FLANGIA SOFFIETTO / flange for bellow	LUMR-520
9	SPALLA PROTEZIONE SOFFIETTO / upright with bellow protection	LMP22-510





CILINDRI IN PP • PP CYLINDERS

Codice <i>Code</i>	Modello <i>Model</i>	Ingranaggio <i>Gear</i>	L.	VOL dm ³	Portata kg <i>Load kg</i>	BOCCA <i>door dim.</i>	øe	ø max	Sportello Standard <i>Standard Door</i>
B1013	100/135	Z60 M3	152	1,5	1,5	60	190	210	BAYONET
B2013	200/135	Z60 M3	252	3	3	60	190	210	BAYONET
B2513	250/135	Z60 M3	302	3,8	3,5	60	190	210	BAYONET
B3722	370/220	Z84 M3	404	10,5	6	80	260	275	BAYONET
B4722	470/220	Z84 M3	504	13,5	8	80	260	275	BAYONET
B3722-7	370/220-7	Z84 M3	404	14,4	10	80	295	310	FRONTAL + CLIPS
B4722-7	470/220-7	Z84 M3	504	18,5	12	80	295	310	FRONTAL + CLIPS



PARATIE PARTITION WALLS

Codice <i>Code</i>	Modello <i>Modello</i>
B22-D10	220
B27-D10	220-7

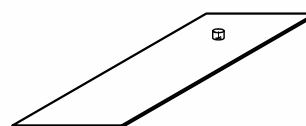
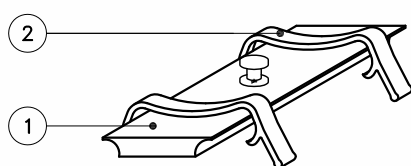
SPORTELLO FRONTALE • *FRONTAL DOOR*

POS.	Componente <i>Part</i>	Codice <i>Code</i>	Modello <i>Model</i>
1+2	DOOR + CLIPS	FB13-E1020	200/135
		FB13-E1025	250/135
		FB22-E1037	370/220 - 370/220-7
		FB22-E1047	470/220 - 470/220-7
1	DOOR	B13-E1020	200/135
		B13-E1025	250/135
		B22-E1037	370/220 - 370/220-7
		B22-E1047	470/220 - 470/220-7
2	CLIP	SB13-F20	CHIUSURA PVDF / PVDF clip mod. 135
		SB22-F20	CHIUSURA PVDF / PVDF clip mod. 220

SPORTELLO A BAIONETTA BAYONET DOOR

Codice <i>Code</i>	Modello <i>Modello</i>
B13-E1110*	100/135
B13-E1120*	200/135
B13-E1125*	250/135
B22-E1137*	370/220
B22-E1147*	470/220

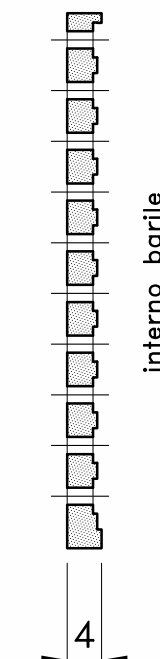
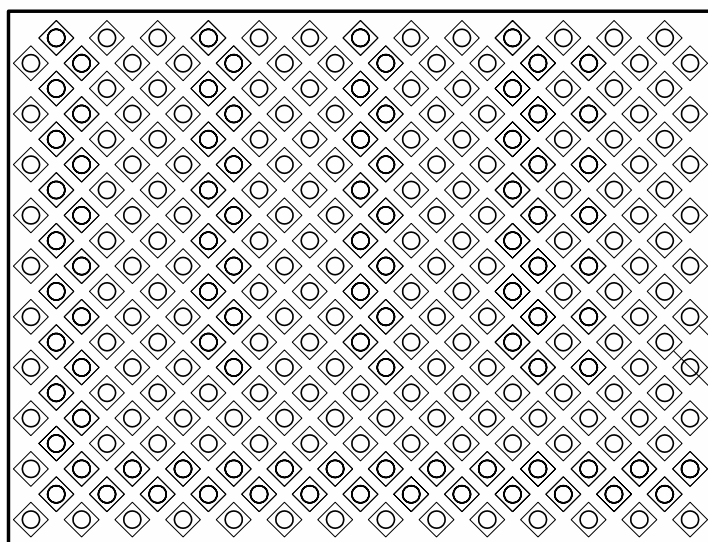
* for including the perforation requested add: 06-01-15-02-RT





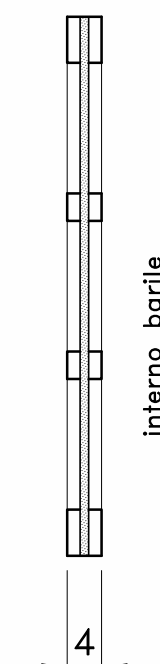
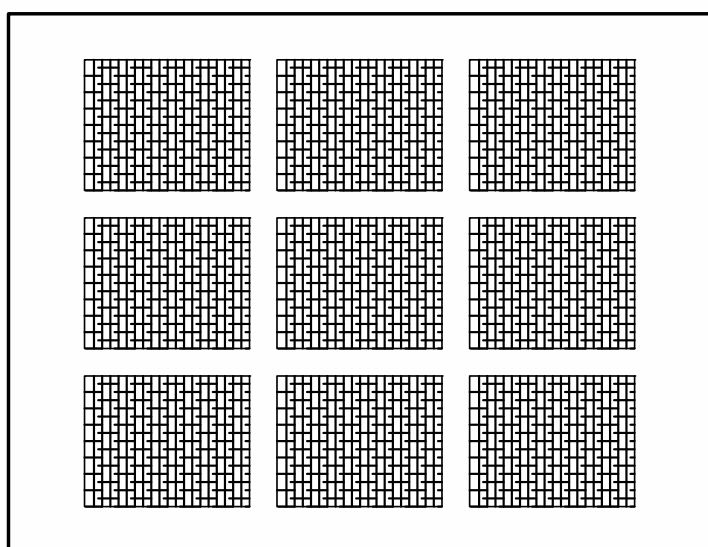
PERFORAZIONI CIRCOLARI • CIRCULAR PERFORATIONS

perforazione mm / perforation mm	Ø 0.6	Ø 1	Ø 1.5	Ø 2	Ø 3	Lamellare / slot perforation 0.4 x 3mm
P. mm	2.0	2.5	3.0	3.0	6.0	



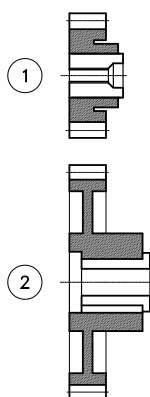
PANNELLO A RETE • MESH

Rete / Mesh mm	0.3	0.5	0.7
----------------	-----	-----	-----



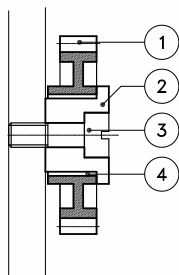


PIGNONI MINIROTOR • PINIONS



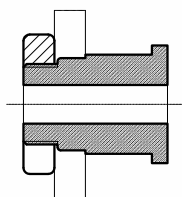
POS.	Componente	Codice	M	Z
	Part	Code		
1	PIGNONE MINIROTOR CC / pinion Minirotor DC	UMRP30	3	15
2	PIGNONE MINIROTOR CA / pinion Minirotor AC	UMRP32	3	30

GRUPPO INGRANAGGIO INTERMEDIO • INTERMEDIATE GEAR UNIT



POS.	Componente	Codice
	Part	Code
1...4	INGRANAGGIO COMPLETO / complete gear Z25 M53	UMRE90C
	INGRANAGGIO COMPLETO / complete gear Z30 M3	UMRE90D
	INGRANAGGIO COMPLETO / complete gear Z42 M3	UMRE90E
1	INGRANAGGIO / gear Z25 M3	ZUMRE90C
	INGRANAGGIO / gear Z30 M3	ZUMRE90D
	INGRANAGGIO / gear Z42 M3	ZUMRE90E
2	MOZZO INTERMEDIO / intermediate hub for gears Z25 Z30	LUMR-23
	MOZZO INTERMEDIO / intermediate hub for gears Z42	LUMR-23A
3	VITE / screw TCTM 10x50 PVDF	V00841050
4	RULON L=0,110 per ingranaggi / for gears Z25 Z30	LCM110200
	RULON L=0,130 per ingranaggi / for gears Z42	LCM130220

MOZZI • HUBS



Codice	Componente
Code	Part
UMR-20A	MOZZO CON GHIERA / hub with ring Ø 12,5
UMR-20C	MOZZO CON GHIERA / hub with ring Ø 16
UMR-20B	MOZZO CIECO CON GHIERA / blind hub with ring



LA GAMMA • RANGE

CONTATTI CATODICI A BATACCIO DANGLER CATHODE CONTACTS

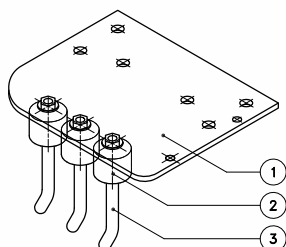
Codice	Lunghezza Bataccio mm	Sezione Cu	CAVO Ø mm	Dim. Testa Ottone
Code	Dangler Length mm	Copper section mm ²	Cable Ø mm	Dim. Brass head (mm)
BT16035	350	16	9	20 x 34
BT16040	400	16	9	20 x 34
BT25045	450	25	14	20 x 40
BT25050	500			
BT25055	550			
BT25060	600			

Dimensioni consigliate Suggested dangler sizes

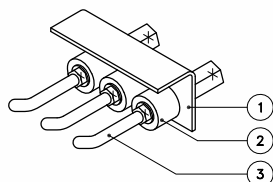
MOD. MINIROTOR	Bataccio rif.
MINIROTOR MOD.	Ref. Dangler
100/135	16mm ² /L= 350
200/135	16mm ² /L= 350
250/135	16mm ² /L= 400
370/220	25mm ² /L= 450
470/220	25mm ² /L= 500
370/220-7	25mm ² /L= 450
470/220-7	25mm ² /L= 500

TESTINE INTERCAMBIABILI FILETTATE INTERCHANGEABLE THREADED HEADS

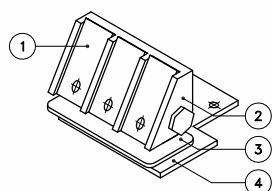
Codice	MAT.	Sezione Cu	Dim. Testa Ottone
Code		Copper section mm ²	Dim. Brass head (mm)
LUMR-80A	OTTONE / brass	16	20 x 34
LUMR-81A	OTTONE / brass	25	20 x 40


PER MINIROTOR EXPORT 2000 • FOR MINIROTOR EXPORT 2000


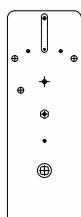
POS.	Componente	Codice
	Part	Code
1...3	MORSETTIERA COMPLETA / complete pick-up contact	UMR-71
1	PIASTRA INOX / S.S. plate	LUMR-01C
2	ANTIVIBRANTE 25x20 / antivibration 25x20	SUMR-24
3	PERNO DI CONTATTO / pin for contact	LUMR-71A
2+3	CONTATTO COMPLETO / complete contact	UMR-70

PER MINIROTOR 2000 • FOR MINIROTOR 2000


POS.	Componente	Codice
	Part	Code
1...3	MORSETTIERA COMPLETA / complete pick-up contact	UMR-72
1	SQUADRETTA INOX / S.S. plate	LUMR-72C
2+3	CONTATTO COMPLETO / complete contact	UMR-70

PER VASCA • FOR TANK


POS.	Componente	Codice
	Part	Code
1...4	MORSETTIERA COMPLETA / complete pick-up contact	AV-204
1	PIASTRINA Cu / Cu plate	LAV-204A
2	CORPO in PP / PP body	LAV-204B
3	ISOLATORE / insulator	LAV-204D
4	SUPPORTO MORSETTIERA / support	LAV-204C

SPALLE MINIROTOR CA • UPRIGHTS FOR MINIROTOR AC


Mod.	Componente	Codice
	Part	Code
MOD. 220 MINIROTOR 2000	SEMPLICE / simple	LM22-10
	LATO TRASMISSIONE / transmission side	LM22-10A
MOD. 220 MINIROTOR EXPORT 2000	SEMPLICE / simple	LMX22-10
	LATO TRASMISSIONE / transmission side	LMX22-10A



GARANZIA

I Buratti di produzione PROGALVANO s.r.l. sono fabbricati nel rispetto dei più alti standard tecnologici e con l'impiego di materie prime e di componenti di alta qualità. Un corretto utilizzo della macchina ed una sua regolare manutenzione, come da istruzioni riportate nel manuale d'uso, sono condizioni essenziali per la validità della garanzia e per ottenere una corretta durata del buratto e dei componenti dello stesso.

DURATA

La durata della garanzia si intende di 12 mesi a partire dalla sua messa in funzione; è calcolata per un turno lavorativo giornaliero. La garanzia comunque non copre un periodo superiore ai 18 mesi oltre la data di consegna.

PARTI COPERTE DA GARANZIA

PROGALVANO s.r.l. riconosce la garanzia per difetti costruttivi sulle seguenti parti del Buratto:

- Struttura portante e suo assemblaggio
- Esagono in Polipropilene (PP)
- Ingranaggi, spalle e mozzi in plastica

PARTI ESCLUSE DALLA GARANZIA

Sono escluse dalla garanzia le parti non di nostra fabbricazione (Motoriduttori e Salvamotore) per cui hanno validità le condizioni di garanzia del costruttore; Progalvano garantisce l'utilizzo di materiali prodotti da primari costruttori e può fare da tramite per il riconoscimento della garanzia da parte degli stessi.

Sono altresì escluse da garanzia i materiali di consumo (Contatti catodici e chiusure a molla in PVDF).

LIMITAZIONE DI GARANZIA

Si escludono dalla garanzia gli esagoni con perforazione lamellare 1.2 mm e 1.8 mm limitatamente alla occlusione della perforazione.

La garanzia non copre danneggiamenti causati da:

- Cadute o urti
- Carico di materiale in eccedenza rispetto alla portata massima indicata da PROGALVANO
- Carico di oggetti e materiali taglienti e/o abrasivi
- Carico di singoli pezzi troppo pesanti che nel rotolamento possano colpire le pareti dell'esagono con forza eccessiva
- Utilizzo del buratto in trattamenti particolari ed esposizione a temperature eccessive a meno che ciò sia chiaramente indicato al momento della richiesta di offerta.

CESSAZIONE DELLA GARANZIA

La manomissione, la modifica od una non corretta sostituzione di parti del buratto, sia pur eseguita con ricambi originali PROGALVANO, portano ad una automatica cessazione della garanzia.

UTILIZZI PARTICOLARI

Per tutti casi di utilizzi particolari o di utilizzo di materiali diversi da quelli normalmente usati nella fabbricazione dei buratti PROGALVANO la garanzia non ha valore se non su richiesta specifica

WARRANTY

The plating barrels manufactured by PROGALVANO s.r.l. are made with high quality raw materials and components that meet the highest technological standards.

The machine should be used properly and undergo regular maintenance set out in the instructions provided in the User's Manual, which are essential for keeping the warranty valid and ensuring durable plating barrel and components.

TERM

The warranty shall be valid for 12 months, based upon one shift per day, from the time it is put into operation. The warranty period shall terminate in every event 18 months after the delivery date.

PARTS COVERED

PROGALVANO s.r.l. provides coverage of defects in workmanship on the following parts of the plating barrel:

- Bearing structure and its assembly
- Polypropylene cylinder
- Plastic gears, shoulders and hubs

PARTS NOT COVERED

The warranty does not cover parts not manufactured by PROGALVANO s.r.l. (gearmotors and overload cut-out), which shall be covered by the terms and conditions of the manufacturer's warranty. PROGALVANO s.r.l. utilises materials produced by the leading manufacturers and is willing to act as go-between to obtain acknowledgement of the warranty by the same. The warranty does not cover consumables (cathode contacts and PVDF spring clamps).

LIMITED WARRANTY

The warranty does not cover cylinders with 1.2mm and 1.8mm laminar perforation as far as blocking of the perforation is concerned. The warranty does not cover any damage caused by:

- Dropping or impact
- Material overload above the maximum capacity indicated by PROGALVANO s.r.l.
- Load of cutting and/or abrasive materials and objects
- Load of too heavy single pieces that may hit the cylinder walls with excessive force during rolling
- Use of the plating barrel for special treatments and exposure to too high temperatures, unless such uses were clearly indicated at the time the request for quotations was made

TERMINATION OF WARRANTY

The warranty shall be terminated automatically in the event of tampering, modification or improper replacement of plating barrel parts even with original PROGALVANO spare parts.

SPECIAL USES

For all cases of special uses or use of materials other than those normally utilised to manufacture PROGALVANO plating barrels, the warranty shall only be valid if the customer



Progalvano S.r.l. - Via Romagna, 4 - 20098 Sesto Ulteriano (MI) - Italy
Tel +39 02.9880083 • Fax: +39 029881028 • info@progalvano.it • www.progalvano.it



Progalvano S.r.l. - Via Romagna, 4 - 20098 Sesto Ulteriano (MI) - Italy
Tel +39 02.9880083 • Fax: +39 029881028 • info@progalvano.it • www.progalvano.it