

Parts Diagram

To order spare parts, please use diagram and part #s below:

Figure 30 – Controller Box

Figure 32 – Sealer Body

Figure 34 – Sealer Body Front

Figure 37 – Sealer Body Back

Figure 39 – Heating/Cooling Blocks & Dry Ink Coding Function

Figure 41 – Conveyor Table

Figure 43 – Sealer Rack

Figure 45 – Turbocase (Gear Box Assembly)

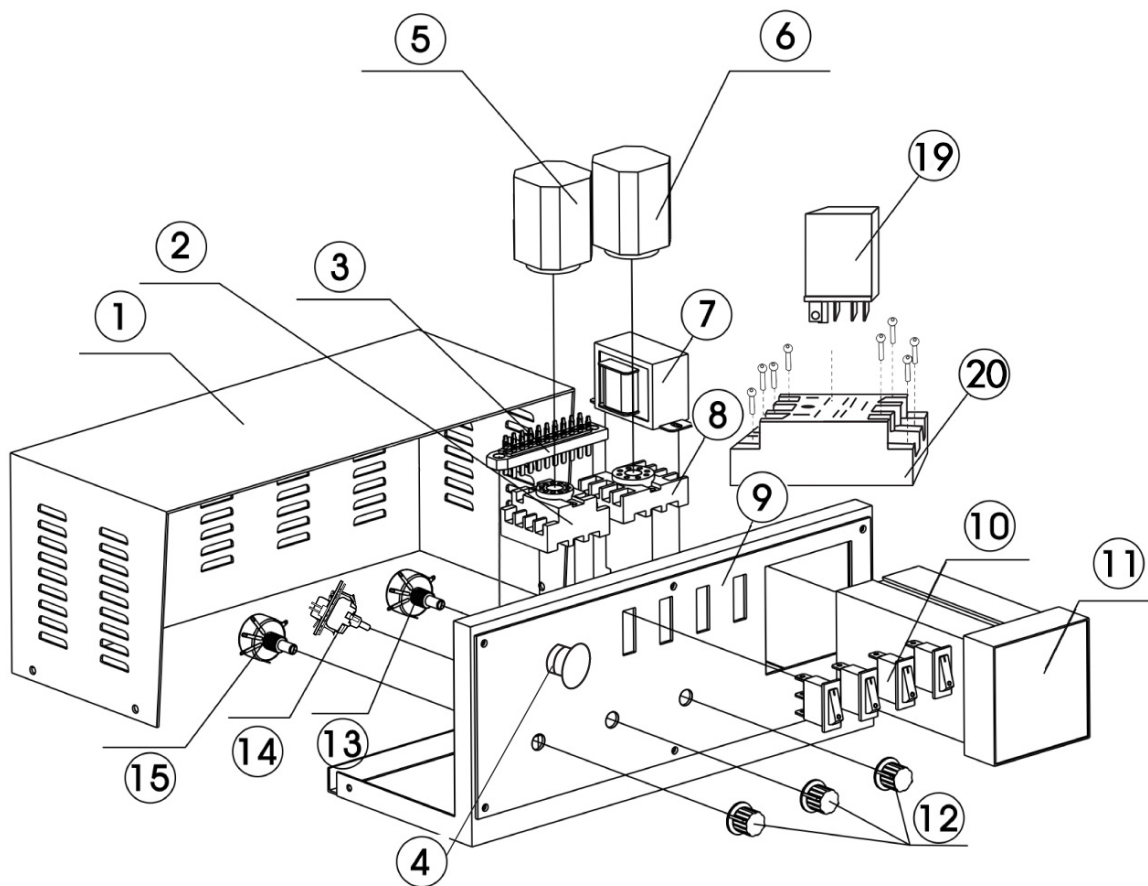


Figure 30. Controller Box

Figure 31. Controller Box

Item #	Part #	Quantity	Description	Comments
1		1	rear cover of electric cabinet	
2	BS-45B	1	PF113A relay holder	
3	FRM-1120C-56	1	20 pin socket	
4	BS-22A	1	emergency stop	
5	BS-52C	1	main control PCB	
6	BS-52A	1	speed regulating PCB	
7	BS-66A	1	transformer BK-10/220-13.5V	
8	BS-45A	1	PF083 relay holder	
9		1	control panel	
10	BS-22	1	control switch	specify large or small
11	TMC-XMTE-1000-2	1	temperature controller	determine version by taking temp controller out
	TMC-XMTE-1000-2-O	1	temperature controller	determine version by taking temp controller out
	TMC-E5CSL-QTC-FRM-1120	1	temperature controller	
12	BS-25A	1	knob	
13	BS-25	1	speed potentiometer 100K	
14	BS-50A	1	ink temperature potentiometer wih pc board	
	BS-25	1	potentiometer 100K	
15	BS-51	1	coding potentiometer 1.0M	
19	R-JQX-13F	1	Relay	Model: NXJ/2ZH(D)
	R-JG3NA	1	Relay	
20	BS-74A	1	Seat for relay	

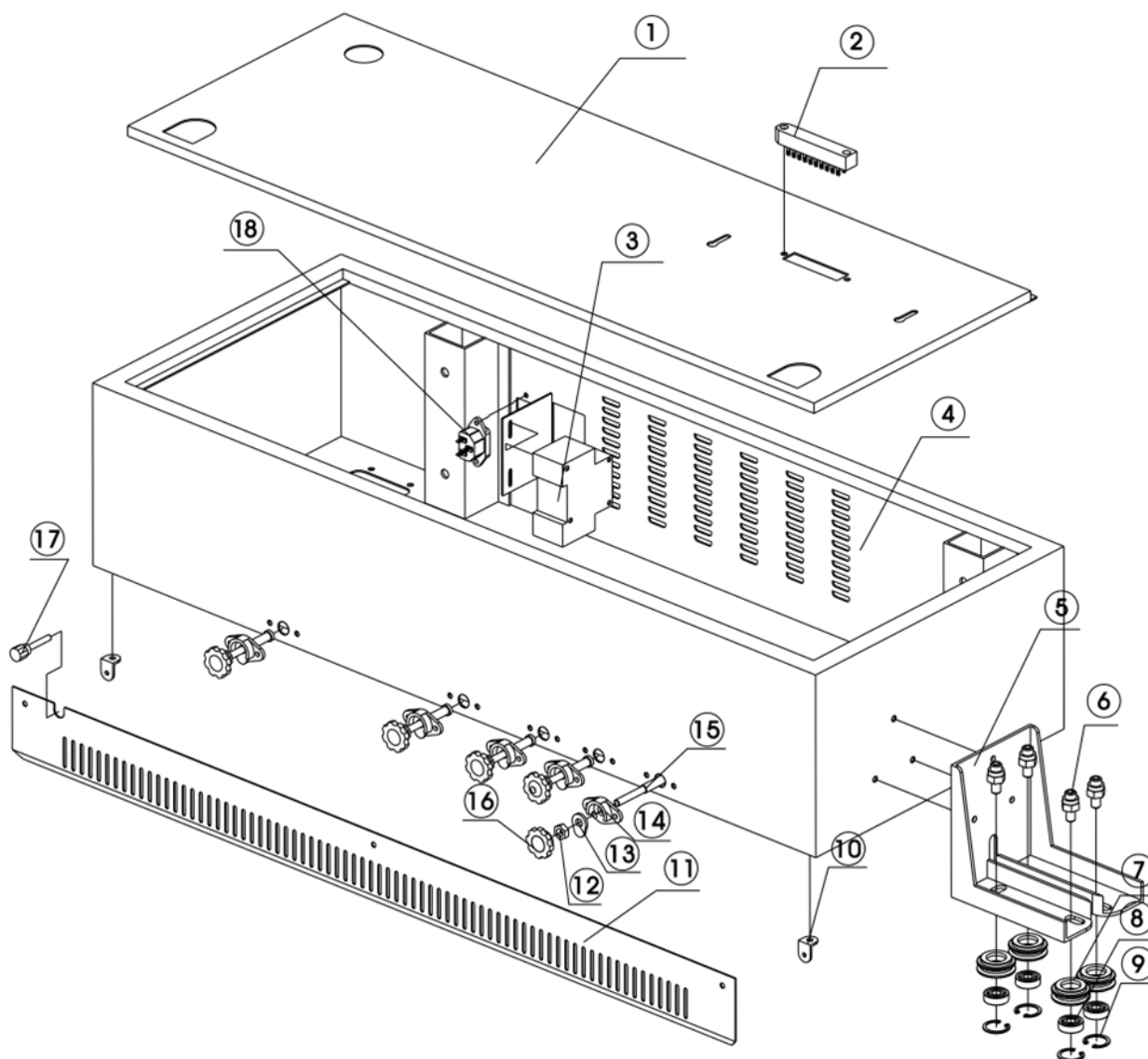


Figure 32. Sealer Body

Figure 33. Sealer Body

Item #	Part #	Quantity	Description	Comments
1		1	upper cover of housing	
2	BS-14	1	socket connector	
3	BS-27	1	DZ47-2P/5A small breaker	
4		1	housing	
5		1	idler pulley support / guide	
6		1	idler pulley shaft	
7	FRM-1120LD-6a_gen 1.0 or FRM-1120LD-6a_gen2.0	1	idler pulley	Includes #7, 8, 9
8	FRM-1120LD-6a_gen 1.0 or FRM-1120LD-6a_gen2.0	1	bearing	Includes #7, 8, 9
9	FRM-1120LD-6a_gen 1.0 or FRM-1120LD-6a_gen2.0	1	circlip	Includes #7, 8, 9
10		1	support of guard plate	
11		1	guard plate	
12		4	hexagon nut	
13	FRM-1120C-28A, 28B, or 28C	4	adjusting steel disc	(Includes #13-16) A = 65mm, B = 77mm, C = 92mm
14	FRM-1120C-28A, 28B, or 28C	4	screw holder	(Includes #13-16) A = 65mm, B = 77mm, C = 92mm
15	FRM-1120C-28A, 28B, or 28C	4	dolly bar	(Includes #13-16) A = 65mm, B = 77mm, C = 92mm
16	FRM-1120C-28A, 28B, or 28C	4	knob of screw	(Includes #13-16) A = 65mm, B = 77mm, C = 92mm
17	BS-62	1	adjusting knob for ink roller's swing pole	

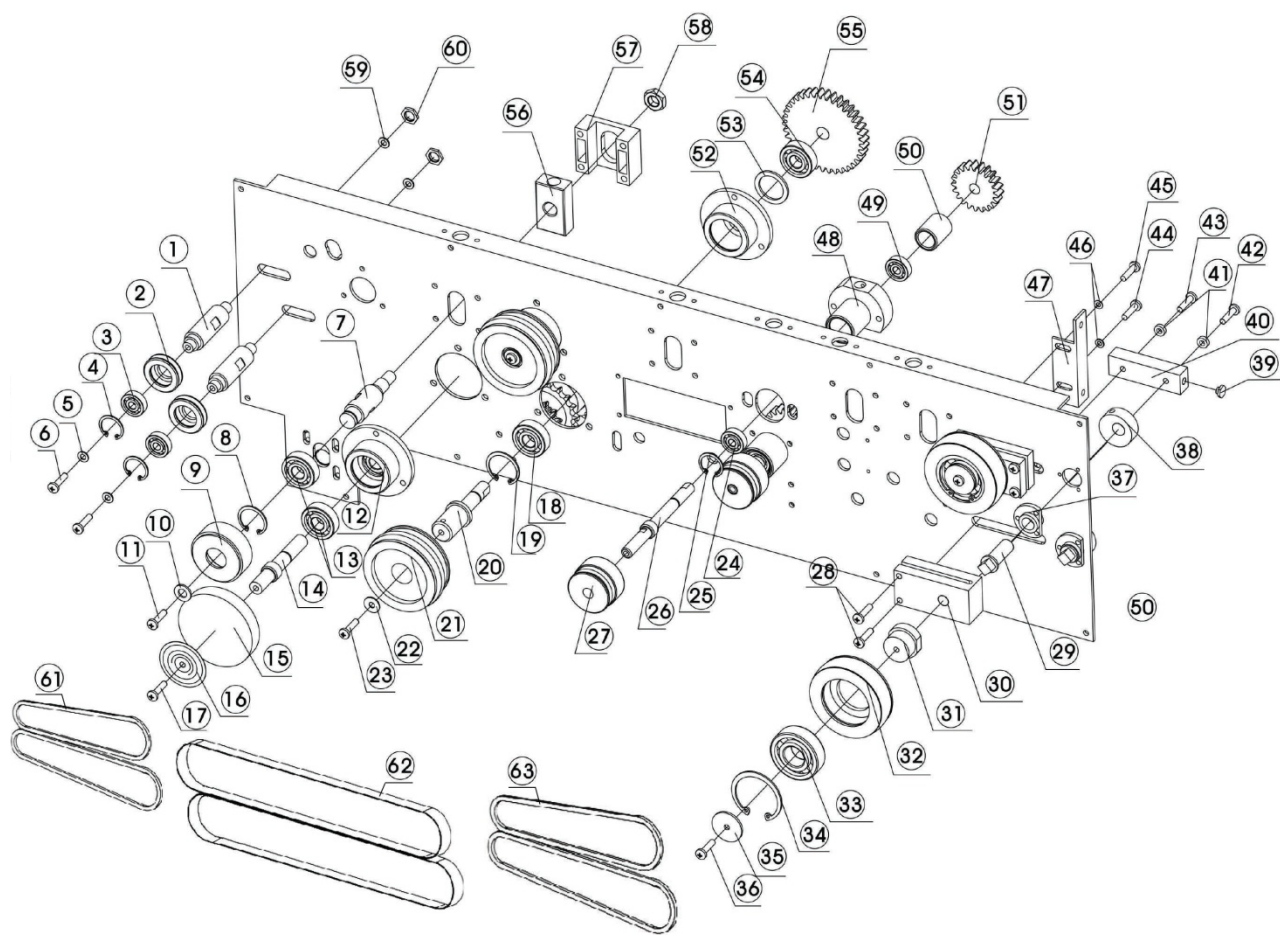


Figure 34. Sealer Body Front

Figure 35. Sealer Body Front (1 of 2)

Item	Part #	Quantity	Description	Reference	Comments
1	HL-M1120LD-6b	2	small pulley shaft	106002	
2	FRM-1120C-6A	2	small pulley	106003	Includes #2-4
3	FRM-1120C-6A	2	bearing (626)	GB/T276-1994(626)	Includes #2-4
4	FRM-1120C-6A	2	circlip for hole	GB/T893.1-1986	Includes #2-4
5	Washer-M5x16	2	flat washer	GB/97.1-2002	M5x16
6	Screw-M4x8	2	screw	GB/T818-2000	M4x8
7		1	embossing wheel shaft	106006	
8	FRM-1120C-3	1	circlip for hole	GB/T893.1-1986	Includes #8, 9
9	FRM-1120C-3	1	embossing wheel	106007	Includes #8, 9
10	WasherM5x16	1	flat washer	GB/T97.1-2002	M5x16
11	Screw-M4x8	1	screw	GB/T818-2000	M4x8
12					
13					
14		1	silicone wheel shaft	106011	
15	FRM-1120C-2	1	silicone wheel assembly	106010	
16		1	silicone wheel cover		
17	Screw-M4x8	2	screw	GB/T818-2000	M4x8
18	FRM-1120C-6-50-56		bearing (6201)	GB/T276-1994(6201)	Includes #18-20, 52-54
19	FRM-1120C-6-50-56		circlip	GB/T893.1-1986	Includes #18-20, 52-54
20	FRM-1120C-6-50-56		driving wheel shaft		Includes #18-20, 52-54
20	FRM-1120C-6-53		driving wheel shaft		
21	FRM-1120C-6	2	driving wheel	106012	
22	Washer-M5x28		flat washer		M5x28
23	Screw-M4x8		screw	GB/T818-2000	M4x8
24	Bearing_6900Z		bearing (6201)	GB/T276-1994(6201)	
25	Circlip-22mm	1	circlip for shaft (upper pressing wheel)		Ø10 x Ø 22 x 6
	Circlip-26mm	1	circlip for shaft (Lower pressing wheel)		Ø10 x Ø 26 x 6
26	HL-M1120LD-21-26	1	upper pressing wheel shaft	106023	
	HL-M1120LD-21-U-24-27	1	Upper pressing wheel shaft assembly	Upper	Includes #24, 25, 26, 27, 48
	HL-M1120LD-21-L-24-27	1	Lower pressing wheel shaft assembly	Lower	Includes #24, 25, 26, 27, 48
27	HL-M1120LD-21_gen1.0	2	pressing wheel - gen 1.0 #980	106025	
	HL-M1120LD-21_gen2.0	2	pressing wheel - gen 2.0 #960		
28	Screw-M4x8		screw	GB/T818-2000	M4x8
29	FRM-1120C-13-36	2	cam shaft	106032	
30	FRM-1120C-13	1	driven wheel seat (adjusting block)	106026	
31	FRM-1120C-12a	2	driven wheel shaft	106030	
32	FRM-1120C-12	2	driven wheel	106029	Includes #32, 33, 34
33	FRM-1120C-12	2	bearing (6201)	GB/T276-1994(6201)	Includes #32, 33, 34
34	FRM-1120C-12	2	circlip for hole	GB/T893.1-1986	Includes #32, 33, 34
35	Washer-M5x28		flat washer		M5x28
36	Screw-M4x8		screw	GB/T818-2000	M4x8
37			cam shaft seat	106033	

Figure 36. Sealer Body Front (2 of 2)

	Part #	Quantity	Description	Reference	Comments
38	FRM-1120C-13-38	2	cam	106031	
39		2	hexagonal bolt		
40	FRM-1120C-13-40	2	pressing plate for adjusting block	106027	
41	FRM-1120C-13-41	4	spacing ring of pressing plate	106028	
42	Screw-M4x8	1	screw	GB/T818-2000	M4x8
43	Screw-M4x8	1	screw	GB/T818-2000	M4x8
44	Screw-M4x8	1	screw	GB/T818-2000	M4x8
45	Screw-M4x8	1	screw	GB/T818-2000	M4x8
46	Washer-M5x16	2	flat washer	GB/97.1-2002	
47		1	spring seat	106034	
48	HL-M1120LD-21-48	2	bearing seat of upper pressing wheel		
49	Bearing_6900Z	2	bearing (6201)	GB/T276-1994(6201)	
50	HL-M1120LD-21-50	2	spacing ring of upper pressing wheel		
51	HL-M1120LD-21-51	2	gear of pressing wheel		
52	FRM-1120C-6-50-56	3	bearing seat	106008	Includes #18-20, 52-54
53	FRM-1120C-6-50-56	2	spacing ring of bearing	106009	Includes #18-20, 52-54
54	FRM-1120C-6-50-56	6	bearing (6201)	GB/T276-1994(6201)	Includes #18-20, 52-54
55	FRM-1120C-35B	5	gear	106014	
56		2	slide block	106005	
57	FRM-1120C-28-49	2	single slide block seat	106004	
58		2	hexagon nut		
59	Washer-M5x16	2	flat washer	GB/97.1-2002	
60		2	hexagon nut		
61	FRM-1120C-26	2	driving belt (#678)		
62	FRM-1120C-10	2	sealing belt (#1120)		
63	HL-M1120LD-26-2a	2	driving belt (#980)		Determine 2a or 2b
	HL-M1120LD-26-2b	2	driving belt (#960)		Determine 2a or 2b

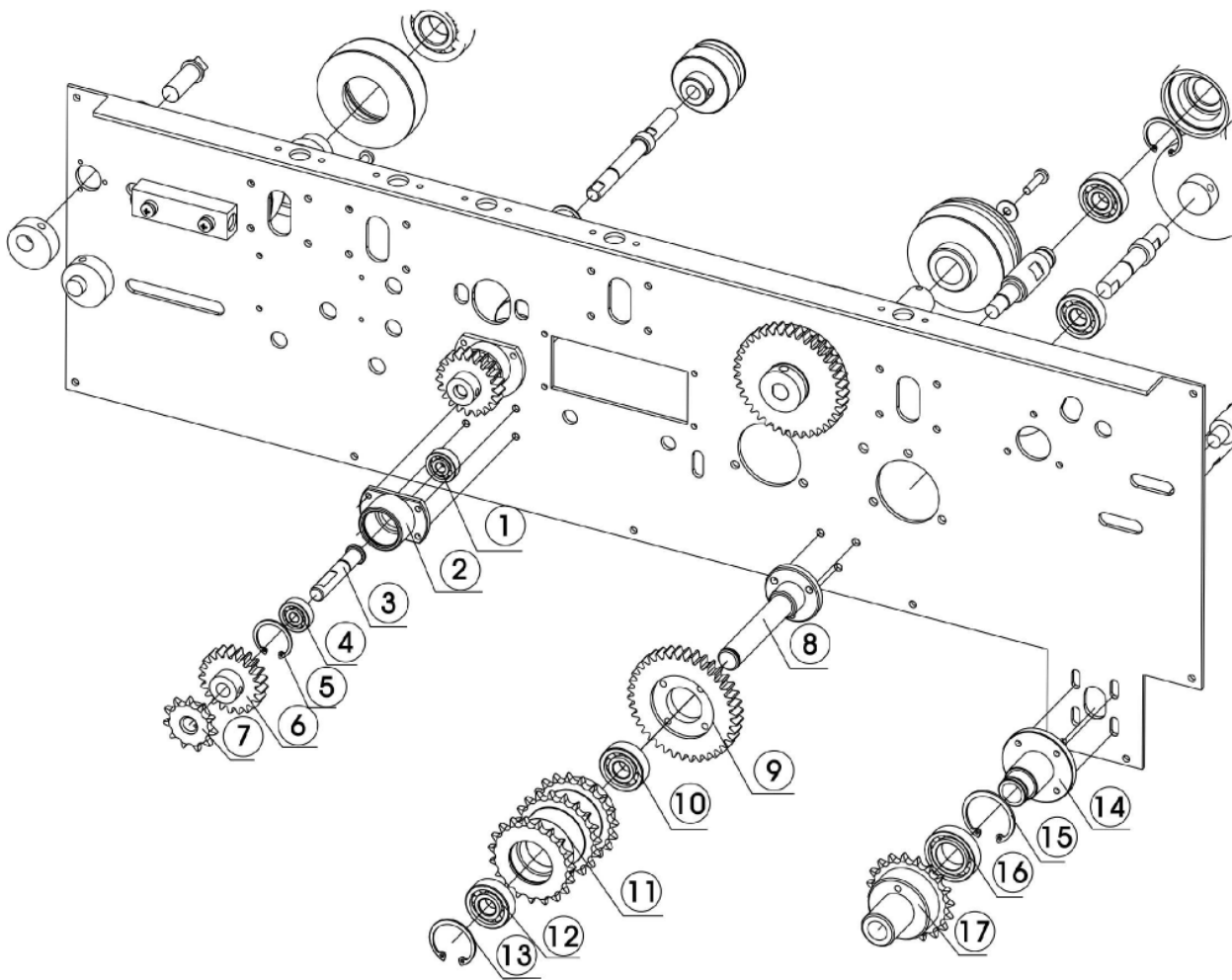


Figure 37. Sealer Body Back

Figure 38. Sealer Body Back

Item #	Part #	Description	Reference	Comments
1		bearing (626)	GB/T276-1994(626)	
2		bearing seat of drive sprocket		
3		drive sprocket shaft		
4		bearing (626)	GB/T276-1994(626)	
5		circlip for hole	GB/T893.1-1986	
6		gear of pressing wheel		
7		drive sprocket		
8		driving gear shaft		
9		driving gear		
10		bearing (6201)	GB/T276-1994(6201)	
11	HL-M1120LD-6-93	triple sprocket		
12	Bearing_6002Z	bearing	GB/T276-1994(6201)	
13	Circlip_32mm	circlip for hole	GB/T893.1-1986	
14	HL-M1120LD-72-14-17	sprocket shaft		Includes #14-17
15	HL-M1120LD-72-14-17	circlip for hole	GB/T893.1-1986	Includes #14-17
16	HL-M1120LD-72-14-17	bearing	GB/T276-1994(6201)	Includes #14-17
17	HL-M1120LD-72-14-17	drive sprocket		Includes #14-17

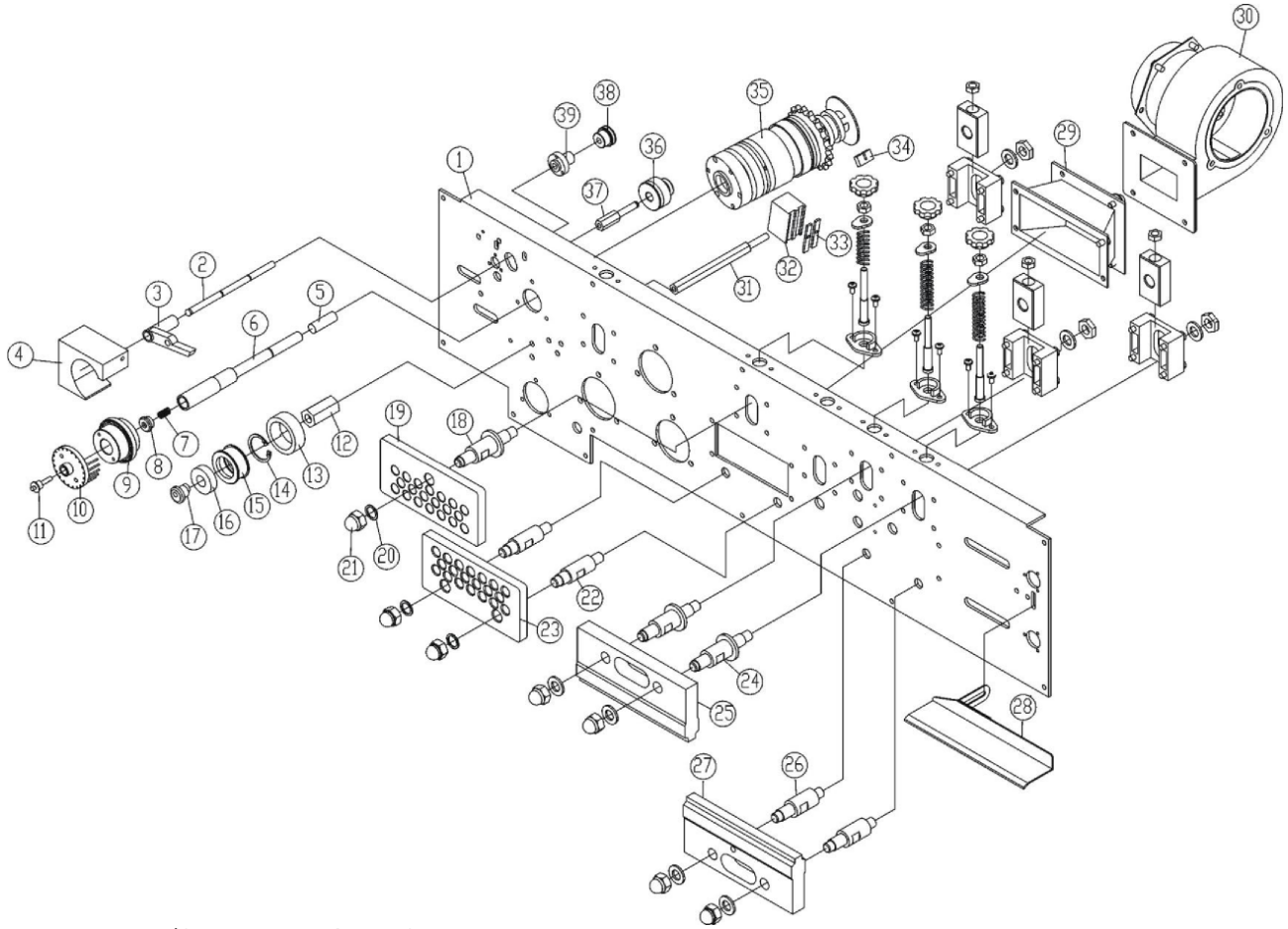


Figure 39. Heating/Cooling Blocks & Dry Ink Coding Function

Figure 40. Heating/Cooling Blocks & Dry Ink Coding Function

Item #	Part #	Quantity	Description	Reference	Comments
1		1	bottom board	106042	
2	BS-46	1	ink roller shaft	105036	
3	BS-62E-FRM	1	swing pole of ink roller	201007	
4	FRM-1120C-47	1	heating block of ink roller	201002	
5	BS-48C	1	heating pipe 110v/40w	921301	
6		1	printing wheel shaft	106071	
7	BS-48-7	1	spring of holding latch on printing wheel		
8	BS-48-8	1	cover for printing wheel shaft	201015	
9	BS-48B	1	printing wheel	201013	
10	BS-48A	1	printing wheel cover	201014	Includes #10, #11
11	BS-48A	1	holding latch for printing wheel	201016	Includes #10, #11
12		1	printing-silicone wheel shaft	201010	
13	BS-57A	1	silicone ring	910107	
14	BS-57	1	circlip for hole	GB/T893.1-1986	Includes #14-17
15	BS-57	1	core of silicone wheel	201011	Includes #14-17
16	BS-57	1	bearing	GB/T276-1994	Includes #14-17
17	BS-57	1	eccentric sleeve	201012	Includes #14-17
18	HL-M1120LD-8-18	1	upper cooling block shaft	201019	
19	FRM-1120C-8	2	upper cooling block	201015	Includes #19, #23, sold as pair
20		7	flat washer	GB/97.1-2002	
21		7	cap nut	GB/923-1988	
22	HL-M1120LD-8-22	1	lower cooling block shaft	106020	
23	FRM-1120C-8	1	lower cooling block	106016	Includes #19, #23, sold as pair
24	HL-M1120LD-9-24	2	upper heating block shaft	106021	
25	FRM-1120C-9A-SS	1	upper heating block	106017	Includes #25, #27, sold as pair
26	HL-M1120LD-9-26	2	lower heating block shaft	106022	
27	FRM-1120C-9A-SS	1	lower heating block	106018	Includes #25, #27, sold as pair
28					
29		1	wind catcher	106058	
30	FRM-1120C-32	1	fan		
31	BS-64B	1	support for brush	106073	
32	BS-64A	1	carbon brush holder	920423	
33	BS-64C	2	pressing plate of brush	201009	
	BS-64	2	carbon brush		Not shown
34	BS-65	1	groove sensor		
35	BS-139-FRM-1120LD	1	electromagnetic clutch assembly	A10501	
36	BS-54B	1	middle pulley	105032	
37	BS-54B-35	1	middle pulley shaft	105035	
38	BS-54C-34	1	ink roller shaft pulley	105041	
39	BS-54C	1	seat for ink roller swing pole shaft	201006	

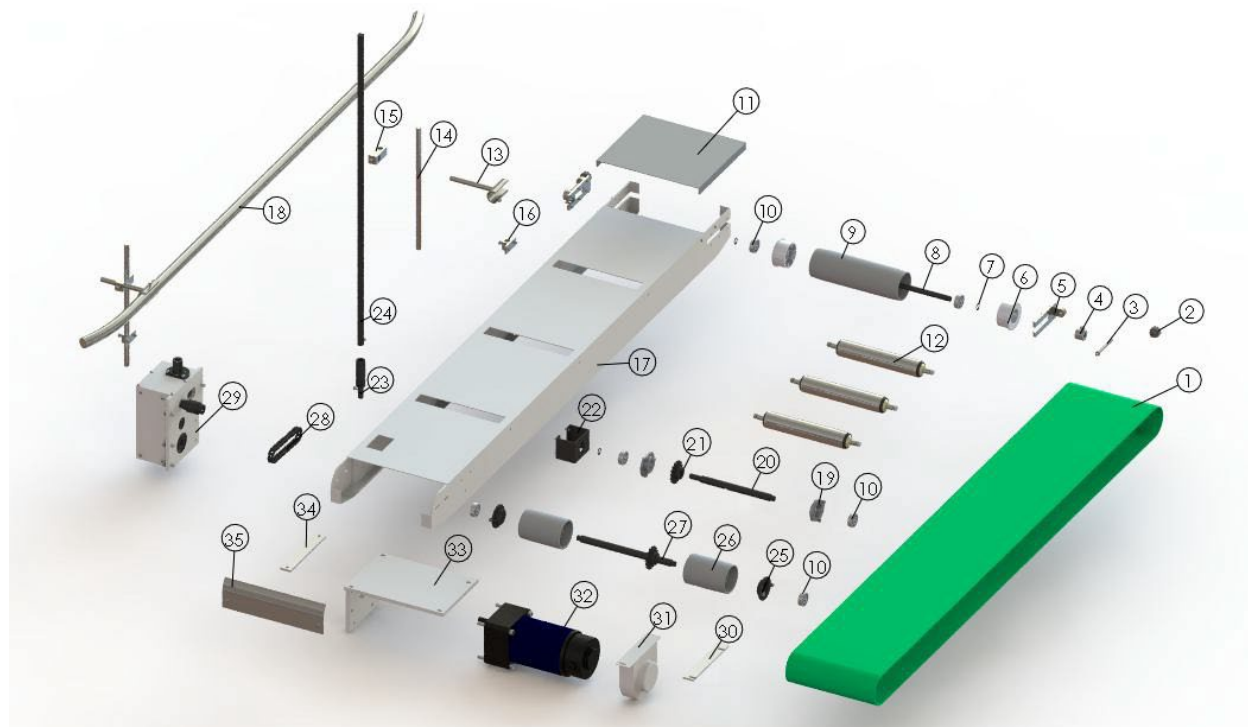


Figure 41. Conveyor Table

Figure 42. Conveyor Table

Item #	Part #	Quantity	Description	Comments
1	HL-M1120LD-1	1	Conveyor Belt	
2		2	Five-Star (Bakelite)Handle	M6×Φ30
3	HL-M1120LD-16	2	Adjustment Screw	Includes #3, 4
4	HL-M1120LD-16	2	Adjusting Ring	Includes #3, 4
5	HL-M1120LD-16-15	2	Conveyor Belt Adjust Seat	
6	HL-M1120LD-36	2	Rear Roller Plug	Includes #6, 7, 8, 9
7	HL-M1120LD-36	2	Circlip for Shaft (Φ12mm)	Includes #6, 7, 8, 9
8	HL-M1120LD-36	1	Rear Roller Shaft	Includes #6, 7, 8, 9
9	HL-M1120LD-36	1	Rear Roller	Includes #6, 7, 8, 9
10		6	Deep Groove Ball Bearing	6201-2RS
11	HL-M1120LD-15	1	Working Table	
12	HL-M1120LD-36.12	3	Intermediate Roller (Long) Assembly	
13	HL-M1120LD-18	2	Baffle Support Rod	Includes #13, 14, 15, 16, 18
14	HL-M1120LD-18	2	Guide Rod	Includes #13, 14, 15, 16, 18
15	HL-M1120LD-18	2	Support Rod Support	Includes #13, 14, 15, 16, 18
16	HL-M1120LD-18	2	Guide Rod Support	Includes #13, 14, 15, 16, 18
17		1	Conveyor Table	
18	HL-M1120LD-18	1	Baffle Support	Includes #13, 14, 15, 16, 18
19	HL-M1120LD-41	2	Conveyor Table Middle Shaft Bearing Seat I	Includes #29, 20, 21, 22
20	HL-M1120LD-41	1	Conveyor Table Middle Shaft	Includes #29, 20, 21, 22
21	HL-M1120LD-41	2	Conveyor Table Chain Wheel	Includes #29, 20, 21, 22
22	HL-M1120LD-41	1	Middle Shaft Pad	Includes #29, 20, 21, 22
23	HL-M1120LD-40A	1	Half-Universal Joint Assembly	
24	HL-M1120LD-72_shaft	1	Vertical Shaft	
25	HL-M1120LD-37	2	Front (Left) Roller Bearing Seat	Includes #25, 26, 27
26	HL-M1120LD-37	2	Front (Left) Roller	Includes #25, 26, 27
27	HL-M1120LD-37	1	Front (Left) Roller Shaft	Includes #25, 26, 27
28		1	Three-joint Chain	(06B-1×42L) 42 segment
29	HL-M1120LD-30	1	Gear Box	
30	HL-M1120LD-1-30	1	Front Baseplate	
31		1	Motor Safety Cover	
32	HL-M1120LD-29	1	Reducer Motor	100ZYT-08-40GK/220V
33		1	Reducer Installing Board	
34	HL-M1120LD-1-34	1	Rear Subplate	
35	HL-M1120LD-1-1	1	Outfeed Board	

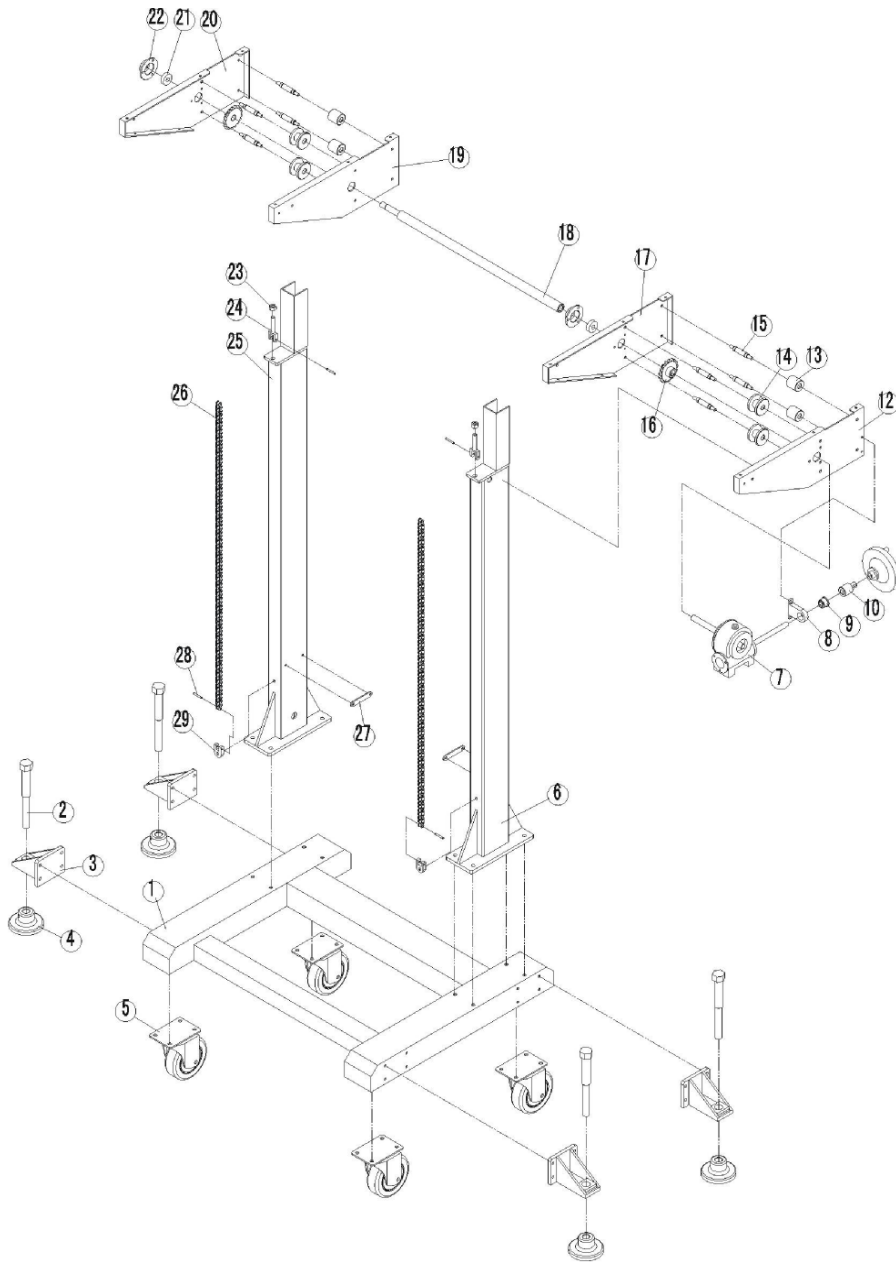


Figure 43. Sealer Rack

Figure 44. Sealer Rack

Item #	Part #	Quantity	Description	Reference	Comments
1		1	chassis		
2	HL-M1120LD-94	4	foot plate bolt		Includes #2, #4
3		4	foot plate support		
4	HL-M1120LD-94	4	foot plate		Includes #2, #4
5		4	caster	910205	
6		1	right upright post		
	HL-M1120LD-29	1	motor		Not shown
	BS-29A_HL-M1120LD	2	motor brush		Not shown
7	HL-M1120LD-30	4	wormgear case assembly		
8	HL-M1120LD-72-8	1	worm support seat	11521040410	
9	HL-M1120LD-72-9	1	worm bushing	111078	
10	HL-M1120LD-72-10	1	connecting head of handle	111086	
11	HL-M1120LD-90	1	handwheel	930107-2	
12	HL-M1120LD-72-12	1	right-out support plate for conveyor table		
13	HL-M1120LD-72-13	4	rear roller	111071	
14	HL-M1120LD-72-14	4	front roller	111070	
15	HL-M1120LD-72-15	8	lifting roller shaft	111072	
16	HL-M1120LD-72-16	2	lifting sprocket	111080	
17	HL-M1120LD-72-17	1	right-inner support plate for conveyor table		
18	HL-M1120LD-72-18	1	lift sprocket shaft	111079	
19	HL-M1120LD-72-19	1	left inner support board of conveyor table		
20	HL-M1120LD-72-20	1	left out support board of conveyor table		
21	HL-M1120LD-72-21	2	shaft sleeve of lift sprocket	111082	
22	HL-M1120LD-72-22	2	bearing seat for lift sprocket	111081	
23	HL-M1120LD-72-23	2	nut	GB/T41-2000	
24	HL-M1120LD-72-24	2	screw rod	111085	
25		1	left upright post		
26	HL-M1120LD-72-26	2	chain	930603	
27		2	limiting plate for conveyor table		
28	HL-M1120LD-72-28-29	4	chain pin	111084	Includes #28, #29
29	HL-M1120LD-72-28-29	2	chain seat	111083	Includes #28, #29

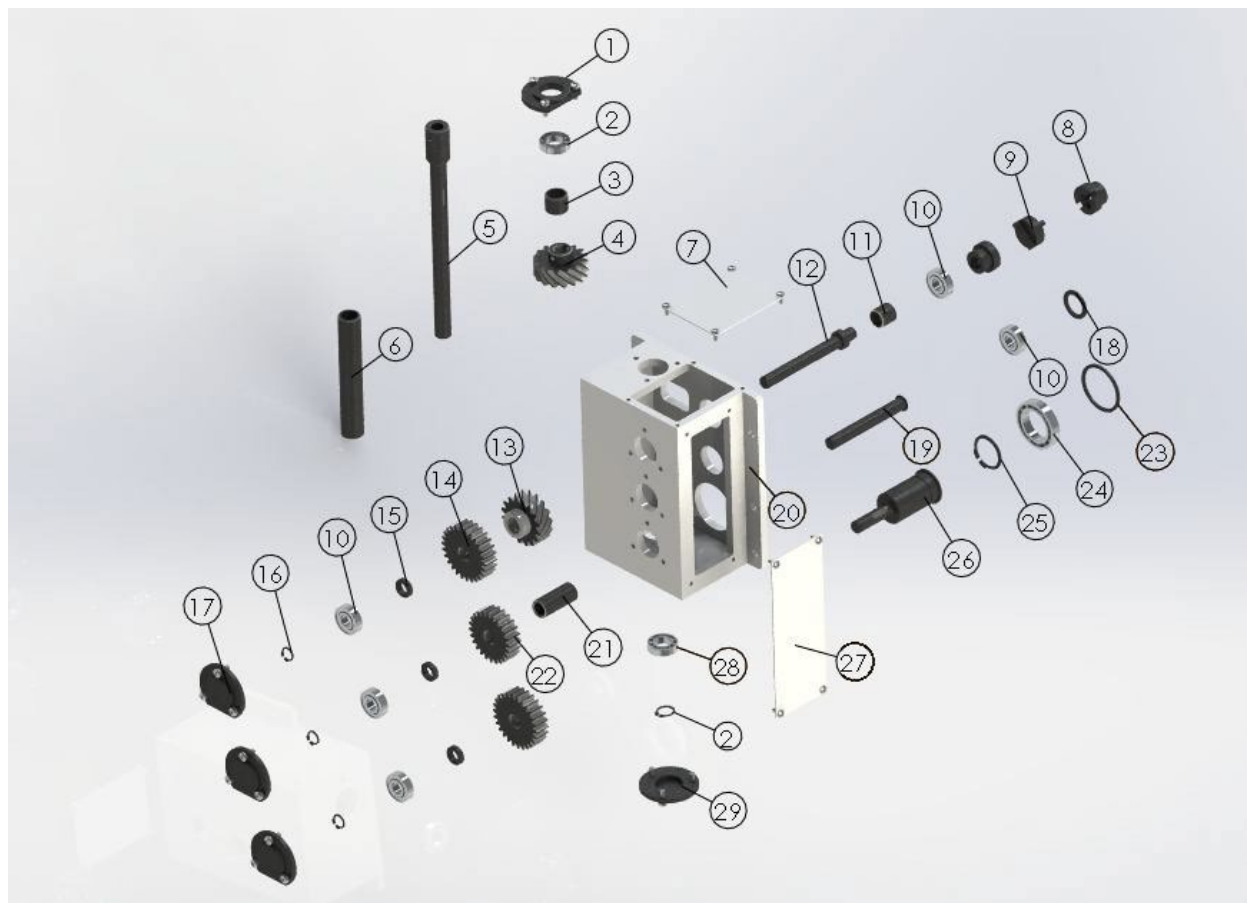


Figure 45. Turbocase (Gear Box Assembly)

Figure 46. Turbocase (Gear Box Assembly)

Item #	Part #	Quantity	Description	Comments
	HL-M1120LD-30_Gen1.0	1	Gear Box Assembly (Turbocase)	Includes #1-29
	HL-M1120LD-30_Gen2.0	1	Gear Box Assembly (Turbocase)	Includes #1-29
1	HL-M1120LD-30-1	1	Vertical Shaft Bearing Seat	
2	Bearing_61902ZZ	2	Deep Groove Ball Bearing	61902ZZ (φ15 x φ28 x 7)
3	HL-M1120LD-30-3	1	Vertical Shaft Spacer(2)	
4	HL-M1120LD-30-4	1	Helical Gear I	
5	HL-M1120LD-30-5	1	Gear Box Vertical Shaft	
6	HL-M1120LD-30-6	1	Vertical Shaft Spacer (1)	
7		1	Gear Box Upper Cover	
8		2	Coupling I	
9		1	Coupling II	
10		5	Deep Groove Ball Bearing	
11		1	Middle Shaft Spacer Ring I	
12		1	Gear Box Middle Shaft	
13		1	Helical Gear II	
14		2	Gear	
15		3	Reducer Connect Shaft Spacer II	
16		3	Circlip for Shaft	
17		3	Bearing Seat I	
18		1	Medium Gear Shaft Spacer I	
19		1	Medium Gear Shaft	
20		1	Gear Box	
21		1	Medium Gear Shaft Spacer II	
22		1	Medium Gear	
23		1	Reducer Connect Shaft Spacer I	
24		1	Deep Groove Ball Bearing	
25		1	Circlip for Shaft	
26	HL-M1120LD-30-26	1	Reducer Connect Shaft	
27		1	Gear Box Side Cover	
28		1	Circlip for Shaft	
29		1	Bearing Seat II	