

PROMAC®

06-2017

**Metal Lathe
Metalldrehbank
Tour à métaux**

PBD-2870



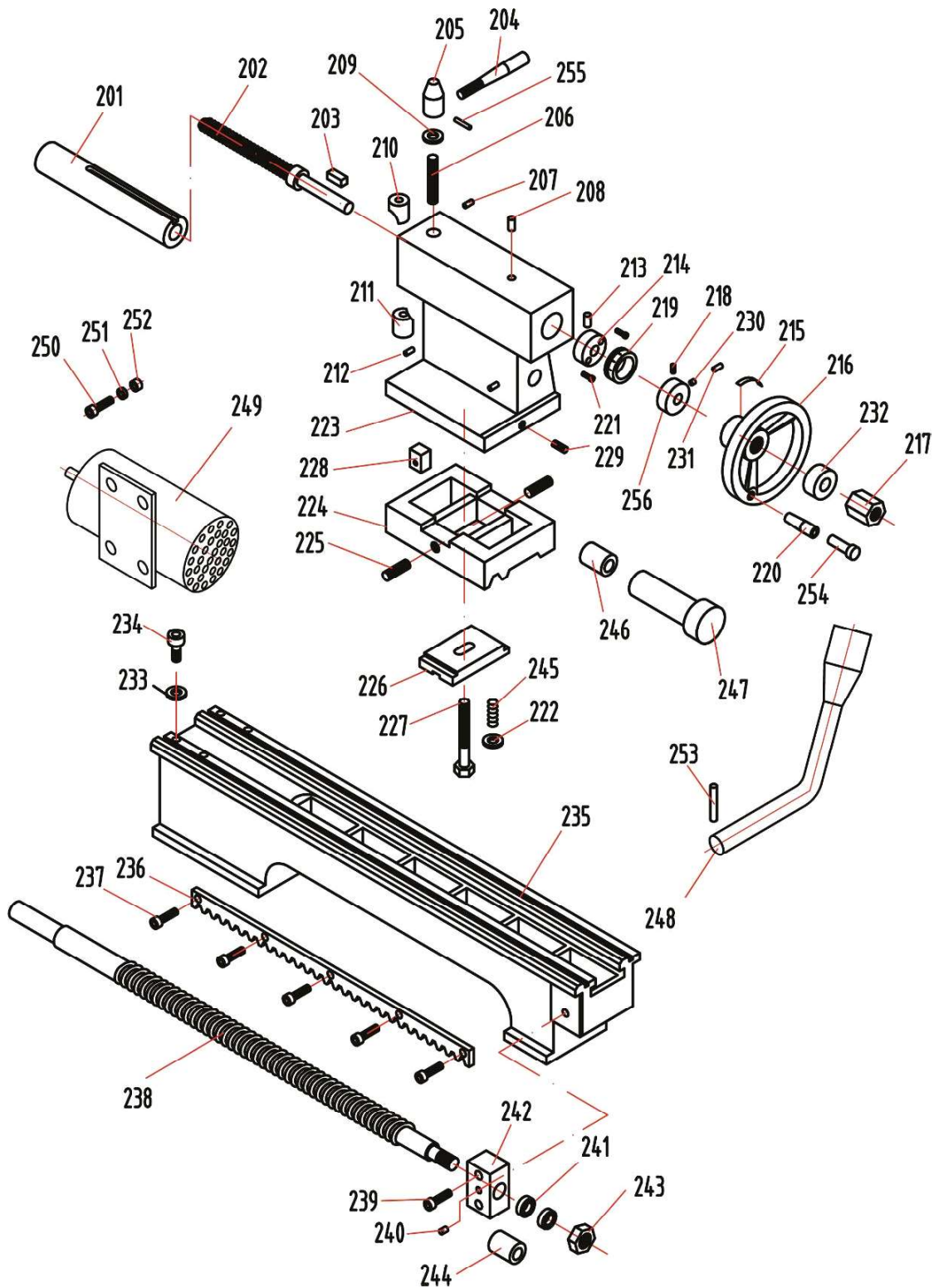
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15.0 Replacement Parts

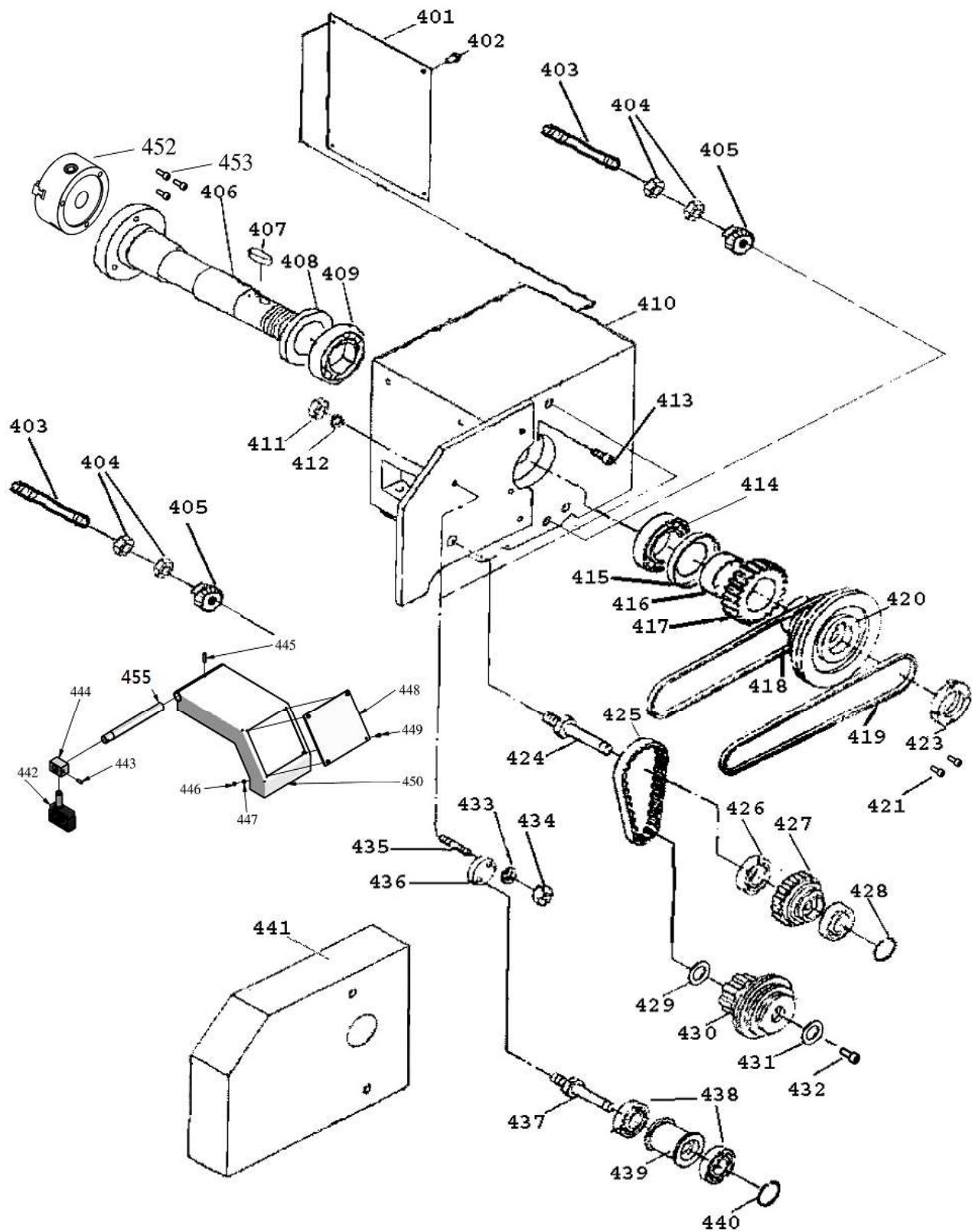
PBD-2870 Assembly Breakdown -1



PBD-2870 Parts List for Breakdown -1

Index No.	Part No.	Description	Size	Qty.
201	PBD2870-1-201	QUILL		1
202	PBD2870-1-202	LEADSCREW		1
203	GB109679-3-10	FLAT KEY	.3 x 10 mm	1
204	PBD2870-1-204	CLAMPING HANDLE		1
205	PBD2870-1-205	HANDLE SEAT		1
206	PBD2870-1-206	CLAMPING SCREW		1
207	GB7985-5-12	SET SCREW (CYLINDER END)	M5 x 12 mm	1
208	JBT7940495-6	BALL OILER	Φ6	1
209	PBD2870-1-209	WASHER		1
210	PBD2870-1-210	CLAMPING PIECE		1
211	PBD2870-1-211	CLAMPING PIECE		1
212	GB7985-5-12	SET SCREW (CYLINDER END)	M5 x 12 mm	2
213	JBT7940495-6	BALL OILER	Φ6	1
214	PBD2870-1-214	BRACKET		1
215	PBD2870-1-215	INDICATING DIAL		1
216	PBD2870-1-216	HAND WHEEL		1
217	GB617086-8	HEX NUT	M8	1
218	PBD2870-1-218	SPRING	0.5 x 5 x 15	1
219	PBD2870-1-219	SCALE RING		1
220	PBD2870-1-220	HANDLE		1
221	GB7085-5-16	SOCKET HD SCREW	M5 x 16 mm	2
222	GB5287-12	WASHER	12	1
223	PBD2870-1-223	TAILSTOCK		1
224	PBD2870-1-224	BASE		1
225	GB7985-8-45	SET SCREW (CYLINDER END)	M8 x 45 mm	2
226	PBD2870-1-226	CLAMPING PLATE		1
227	PBD2870-1-227	FASTEN BOLT		1
228	PBD2870-1-228	ADJUSTMENT BLOCK		1
229	GB7985-6-16	SET SCREW (CYLINDER END)	M6 x 16 mm	1
230	PBD2870-1-230	BRASS CLAMPING PIECE		3
231	GB7985-6-10	SET SCREW (CYLINDER END)	M6 x 10 mm	3
232	GB5287-8	WASHER	8	1
233	GB5287-10	WASHER	10	4
234	GB7085-10-35	SOCKET HD SCREW	M10 x 35 mm	4
235	PBD2870-1-235	LATHE BED		1
236	PBD2870-1-236	RACK		1
237	GB7085-6-16	SOCKET HD SCREW	M6 x 16 mm	6
238	PBD2870-1-238	LEADSCREW		1
239	GB7085-8-20	SOCKET HD SCREW	M8 x 20 mm	2
240	JBT7940495-6	BALL OILER	Φ6	1
241	TBB-51102	THRUST BALL BEARING	51102	2
242	PBD2870-1-242	BRACKET		1
243	PBD2870-1-243	ROUND NUT	M12 x 1.25	2
244	PBD2870-1-244	COLLAR		1
245	PBD2870-1-245	SPRING	0.8X14X40	1
246	PBD2870-1-246	SHAFT SLEEVE		1
247	PBD2870-1-247	ECCENTRIC SHAFT		1
248	PBD2870-1-248	CLAMPING LEVER		1
249	MS9024	MAIN MOTOR		1
250	PBD2870-1-250	SET SCREW		4
251	GB5287-8	WASHER	Φ8	4
252	GB617086-8	NUT	M8	4
253	GB87986-4-24	ROLL PIN	4 x 24 mm	1
254	PBD2870-1-254	BOLT		1
255	GB87986-4-24	ROLL PIN	4 x 24 mm	1
256	PBD2870-1-256	COLLAR		1

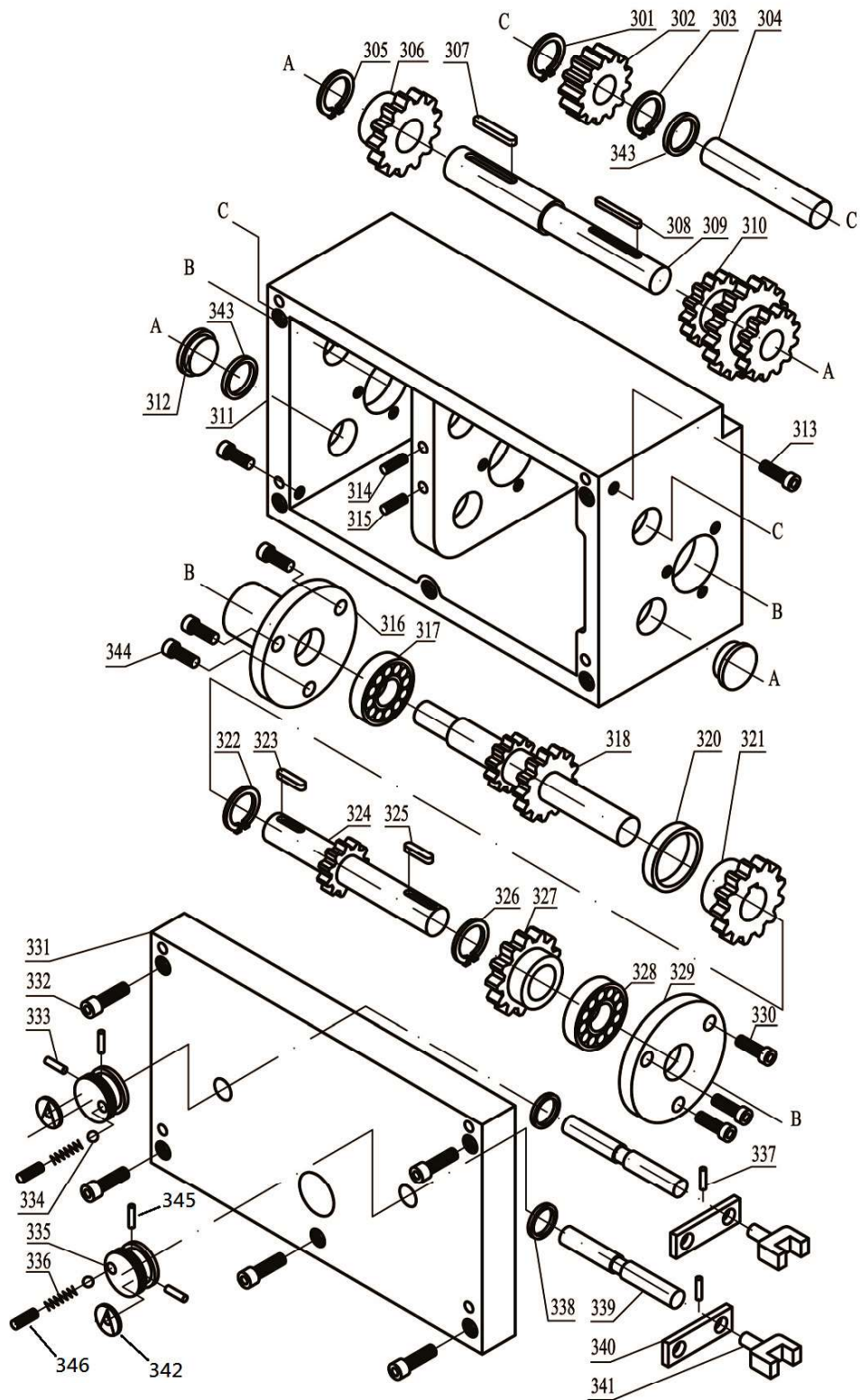
PBD-2870 Assembly Breakdown -2



PBD-2870 Parts List for Breakdown -2

Index No.	Part No.	Description	Size	Qty.
401	PBD2870-2-401	FRONT PANEL		1
402	GB702-4-10S	SOCKET BUTTON HD SCREW	M4 × 10 mm	4
403	PBD2870-2-403	LEADSCREW COVER		2
404	GB617286-10	HEX NUT (THIN)	M10	4
405	PBD2870-2-405	KNURLED NUT		2
406	PBD2870-2-406	SPINDLE		1
407	GB109679-8-45	FLAT KEY	8 × 45 mm	1
408	PBD2870-2-408	RING		1
409	TRB-32009	TAPERED ROLLER BEARING	32009	2
410	PBD2870-2-410	HEADSTOCK		1
411	GB617286-10	HEX NUT (THIN)	M10	2
412	GB5287-10	WASHER	10	2
413	GB7085-8-25	SOCKET HD SCREW	M8 × 25 mm	1
414	TRB-32009	TAPERED ROLLER BEARING	32009	1
415	PBD2870-2-415	RING		1
416	PBD2870-2-416	BUSH		1
417	PBD2870-2-417	GEAR		1
418	PBD2870-2-418	V-BELT	O-710	1
419	PBD2870-2-419	V-BELT	O-850	1
420	PBD2870-2-420	PULLEY		1
421	GB7085-5-12	SOCKET HD SCREW	M5 x 12 mm	2
423	PBD2870-2-423	ROUND NUT		1
424	PBD2870-2-424	SHAFT		1
425	PBD2870-2-425	SYNCHRONOUS BELT	240L075	1
426	BB-6001RZ	BALL BEARING	6001RZ	2
427	PBD2870-2-427	PULLEY		1
428	GB8941-12	CIRCLIP FOR SHAFT	Φ12	1
429	PBD2870-2-429	WASHER		2
430	PBD2870-2-430	PULLEY		1
431	PBD2870-2-431	WASHER		1
432	GB7085-6-20	SOCKET HD SCREW	M6 × 20 mm	1
433	GB5287-8	WASHER	Φ8	1
434	GB617286-8	HEX NUT (THIN)	M8	1
435	PBD2870-2-435	ALLEN SCREWS	自制件	1
436	PBD2870-2-436	ECCENTRIC PLATE		1
437	PBD2870-2-437	SHAFT		1
438	BB-6001RZ	BALL BEARING	6001RZ	2
439	PBD2870-2-439	PULLEY		1
440	GB8941-12	CIRCLIP FOR SHAFT	Φ12	1
441	PBD2870-2-441	COVER		1
442	PBD2870-2-442	MICRO SWITCH		1
443	GB7085-5-12	SOCKET HD SCREW	M5 × 12 mm	1
444	PBD2870-2-444	BRACKET		1
445	GB87986-3-20	ROLL PIN	3 × 20 mm	1
446	GB617286-4	HEX NUT (THIN)	M4	4
447	GB97185-4	WASHER	4	4
448	PBD2870-2-448	ARCRYLIC GLASS		1
449	GB7085-4-10	SOCKET HD SCREW	M4 × 10 mm	4
450	PBD2870-2-450	CHUCK GUARD		1
452	PBD2870-2-452	3-JAW CHUCK 125mm		1
453	GB7085-8-35	SOCKET HD SCREW	M8 × 35 mm	3
455	PBD2870-2-455	SHAFT		1

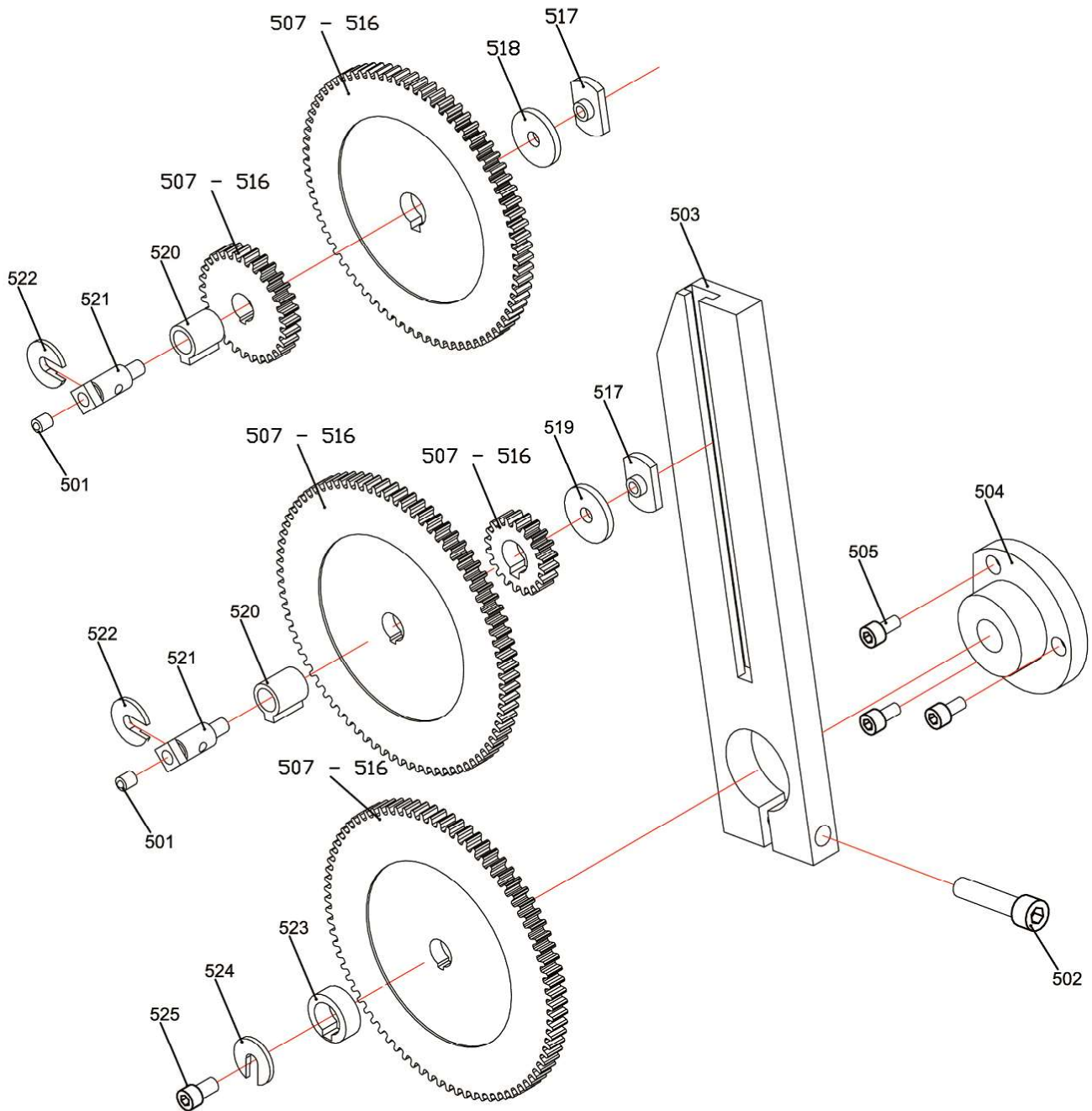
PBD-2870 Assembly Breakdown -3



PBD-2870 Parts List for Breakdown -3

Index No.	Part No.	Description	Size	Qty.
301	GB8941-12	CIRCLIP FOR SHAFT	12	1
302	PBD2870-3-302	GEAR		1
303	GB8941-12	CIRCLIP FOR SHAFT	12	1
304	PBD2870-3-304	SHAFT C		1
305	GB8941-16	CIRCLIP FOR SHAFT	Φ16	1
306	PBD2870-3-306	GEAR		1
307	GB109679-4-30	FLAT KEY	4 × 30 mm	1
308	GB109679-4-60	FLAT KEY	4 × 60 mm	1
309	PBD2870-3-309	SHAFT A		1
310	PBD2870-3-310	GEAR SET		1
311	PBD2870-3-311	GEARBOX		1
312	PBD2870-3-312	PLUG		4
313	PBD2870-3-313	HEX SOCKET PLUG	R3/8	2
314	GB7085-6-8	SOCKET HD SCREW	M6 x 8 mm	1
315	GB7085-6-10	SOCKET HD SCREW	M6 x 10 mm	1
316	PBD2870-3-316	FLANGE		1
317	BB-6202RZ	BALL BEARING	6202RZ	1
318	PBD2870-3-318	GEAR SHAFT		1
320	PBD2870-3-320	RING		1
321	PBD2870-3-321	GEAR		1
322	GB8941-15	CIRCLIP FOR SHAFT	15	1
323	GB109679-4-14	FLAT KEY	4 × 14 mm	1
324	PBD2870-3-324	GEAR SHAFT		1
325	GB109679-4-10	FLAT KEY	4 × 10 mm	1
326	GB8941-15	CIRCLIP FOR SHAFT	15	1
327	PBD2870-3-327	GEAR		1
328	BB-6202RZ	BALL BEARING	6202RZ	1
329	PBD2870-3-329	FLANGE COVER OF LEADSCREW		1
330	GB7085-6-12	SOCKET HD SCREW	M6 × 12 mm	3
331	PBD2870-3-331	FRONT PLATE		1
332	GB7085-6-20	SOCKET HD SCREW	M6 × 20 mm	5
333	GB87986-5-30	ROLL PIN	5 × 30 mm	2
334	GB30889-5	STEEL BALL	5	2
335	PBD2870-3-335	KNOB		2
336	PBD2870-3-336	SPRING	0.8 × 45 × 11 mm	2
337	GB87986-5-20	ROLL PIN	5 × 20 mm	2
338	GB34521-14-2	O-RING	14 x 2.65	2
339	PBD2870-3-339	SHAFT		2
340	PBD2870-3-340	PLATE		2
341	PBD2870-3-341	GEAR FORK		2
342	PBD2870-3-342	KNOB LABEL		2
343	GB34521-14-2	O-RING	14 x 2.65	4
344	GB7085-5-12	SOCKET HD SCREW	M5 × 12 mm	3
345	GB7885-6-10	SET SCREW (CYLINDER END)	M6 x 10	2
346	GB7985-6-10	SET SCREW (CONE END)	M6X10	2

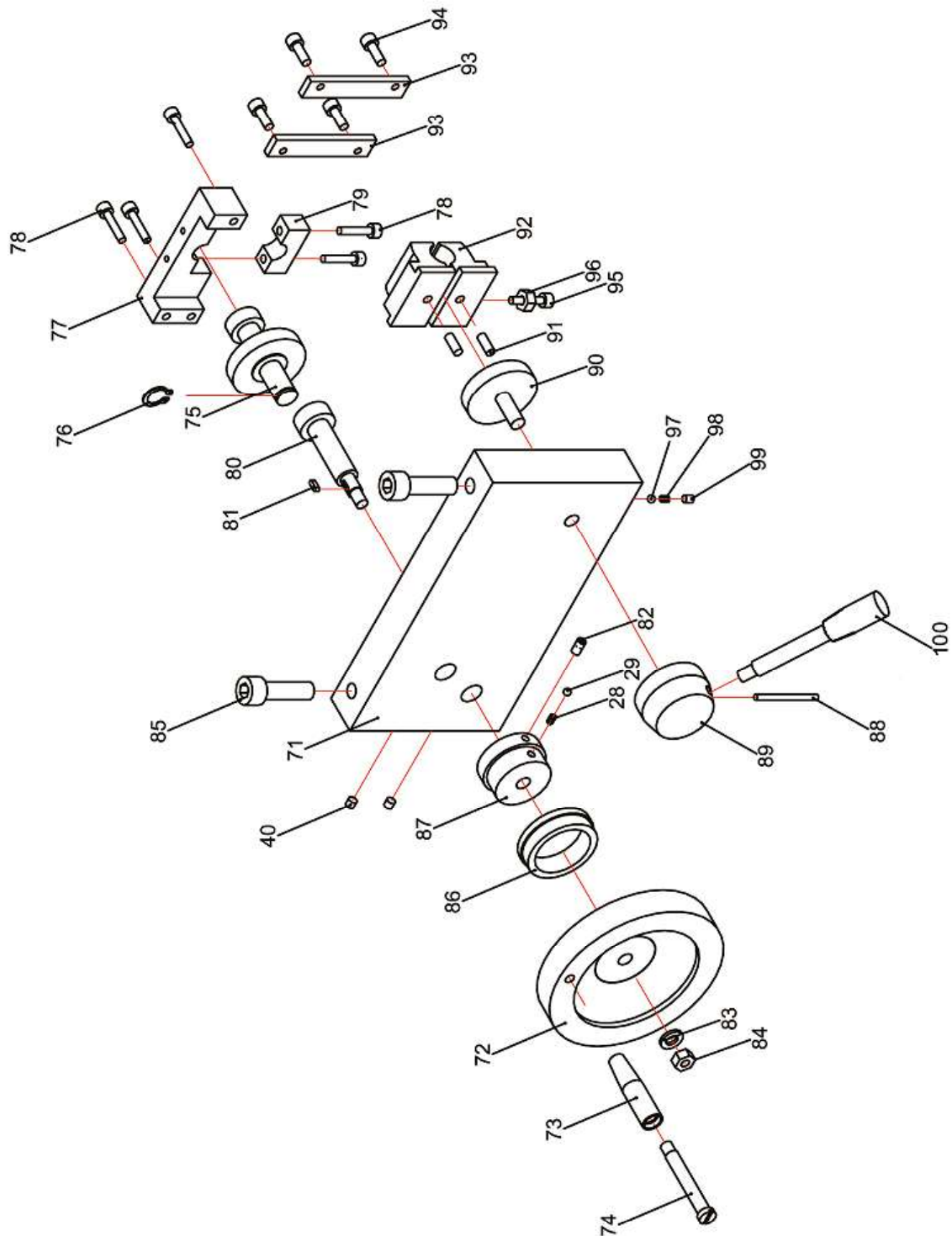
PBD-2870 Assembly Breakdown -4



PBD-2870 Parts List for Breakdown -4

Index No.	Part No.	Description	Size	Qty.
501	JBT7940495-6	BALL OILER	Φ6	2
502	GB7085-8-35	SOCKET HD SCREW	M8 × 35 mm	1
503	PBD2870-4-503	RAIL		1
504	PBD2870-4-504	BRACKET		1
505	GB7085-5-10	SOCKET HD SCREW	M5 × 10 mm	3
507	PBD2870-4-507	GEAR	85	1
508	PBD2870-4-508	GEAR	80	1
509	PBD2870-4-509	GEAR	75	1
510	PBD2870-4-510	GEAR	70	1
511	PBD2870-4-511	GEAR	65	1
512	PBD2870-4-512	GEAR	60	2
513	PBD2870-4-513	GEAR	50	1
514	PBD2870-4-514	GEAR	45	1
515	PBD2870-4-515	GEAR	30	1
516	PBD2870-4-516	GEAR	20	1
517	PBD2870-4-517	T-NUT	M5	2
518	PBD2870-4-518	SPACER	1.5 mm	1
519	PBD2870-4-519	SPACER	3 mm	1
520	PBD2870-4-520	KEY SLEEVE		2
521	PBD2870-4-521	THREADED SHAFT		2
522	PBD2870-4-522	C-WASHER		2
523	PBD2870-4-523	COLLAR		1
524	PBD2870-4-524	C-WASHER		1
525	GB7085-6-10	SOCKET HD SCREW	M6 × 10 mm	1

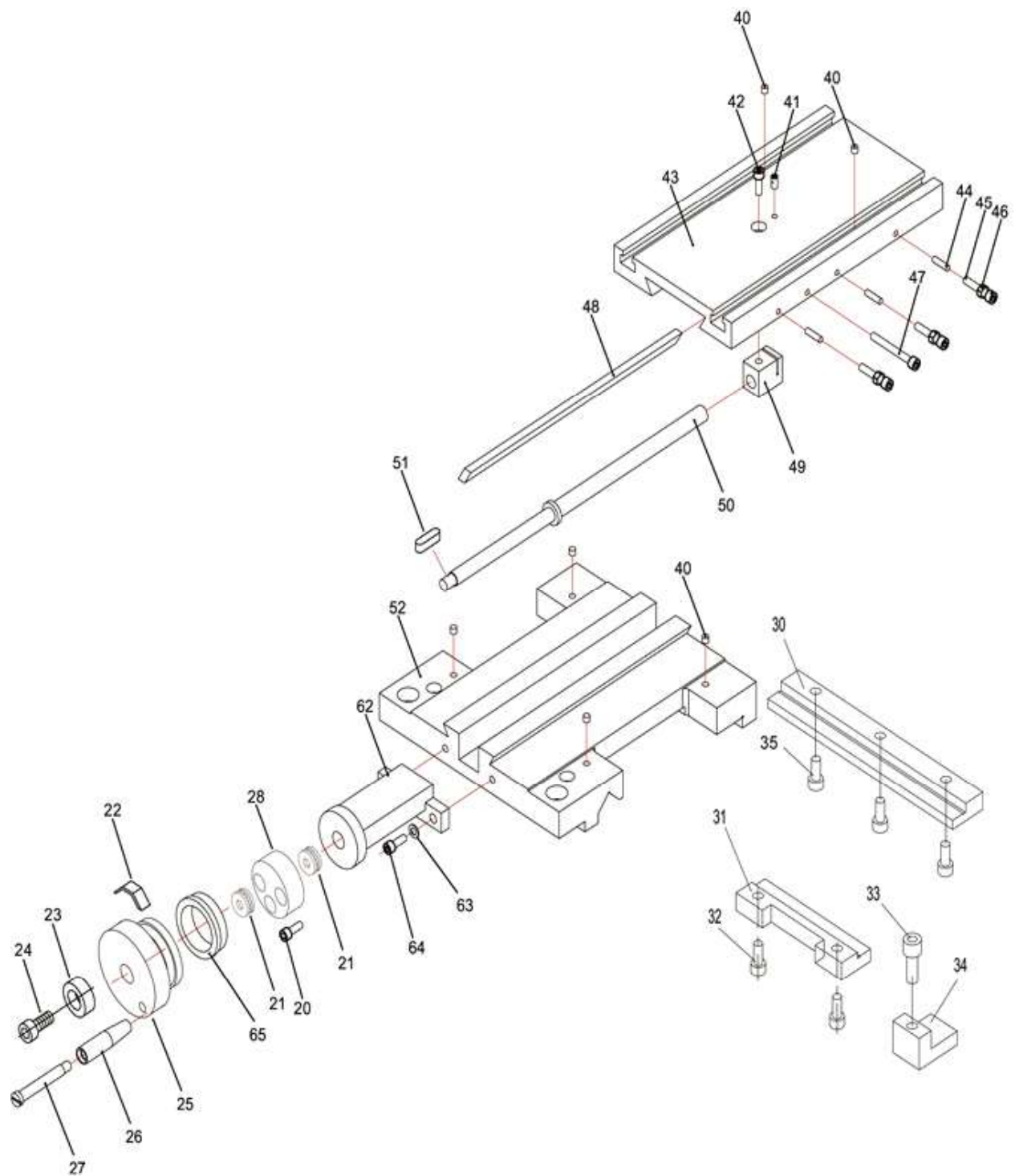
PBD-2870 Assembly Breakdown -5



PBD-2870 Parts List for Breakdown -5

Index No.	Part No.	Description	Size	Qty.
28	PBD2870-5-28	SPRING	0.8 x 5 x 15 mm	1
29	GB30889-5	STEEL BALL	5	1
40	JBT7940495-6	BALL OILER	6	2
71	PBD2870-5-71	APRON		1
72	PBD2870-5-72	HANDWHEEL	M5 x 10 mm	1
73	PBD2870-5-73	HANDLE		1
74	PBD2870-5-74	CLAMPING BOLT		1
75	PBD2870-5-75	GEAR SHAFT		1
76	GB8941-15	CIRCLIP FOR SHAFT	Φ15	1
77	PBD2870-5-77	BRACKET		1
78	GB7085-5-25	SOCKET HD SCREW	M5 x 25 mm	5
79	PBD2870-5-79	HOLDER		1
80	PBD2870-5-80	SHAFT		1
81	GB109679-3-10	FLAT KEY	3 x 10 mm	1
82	GB7985-6-8	SET SCREW (CYLINDER END)	M6 x 8 mm	1
83	GB5287-8	WASHER	8	1
84	GB617086-8	HEX NUT	M8	1
85	GB7085-12-40	SOCKET HD SCREW	M12 x 40 mm	2
86	PBD2870-5-86	SCALE RING		1
87	PBD2870-5-87	COLLAR		1
88	GB87986-4-50	ROLL PIN	4 x 50 mm	1
89	PBD2870-5-89	SEAT		1
90	PBD2870-5-90	CAM		1
91	PBD2870-5-91	PIVOT		2
92	PBD2870-5-92	LOCK NUT		1
93	PBD2870-5-93	GUIDE RAIL		2
94	GB7085-6-16	SOCKET HD SCREW	M6 x 16 mm	4
95	GB7085-5-40	SOCKET HD SCREW	M5 x 40 mm	1
96	GB617086-5	HEX NUT	M5	1
97	GB30889-5	STEEL BALL	5	1
98	PBD2870-5-98	SPRING	0.8 x 5 x 15 mm	1
99	GB7985-6-6	SET SCREW (CYLINDER END)	M6 x 6 mm	1
100	PBD2870-5-100	LEVER		1

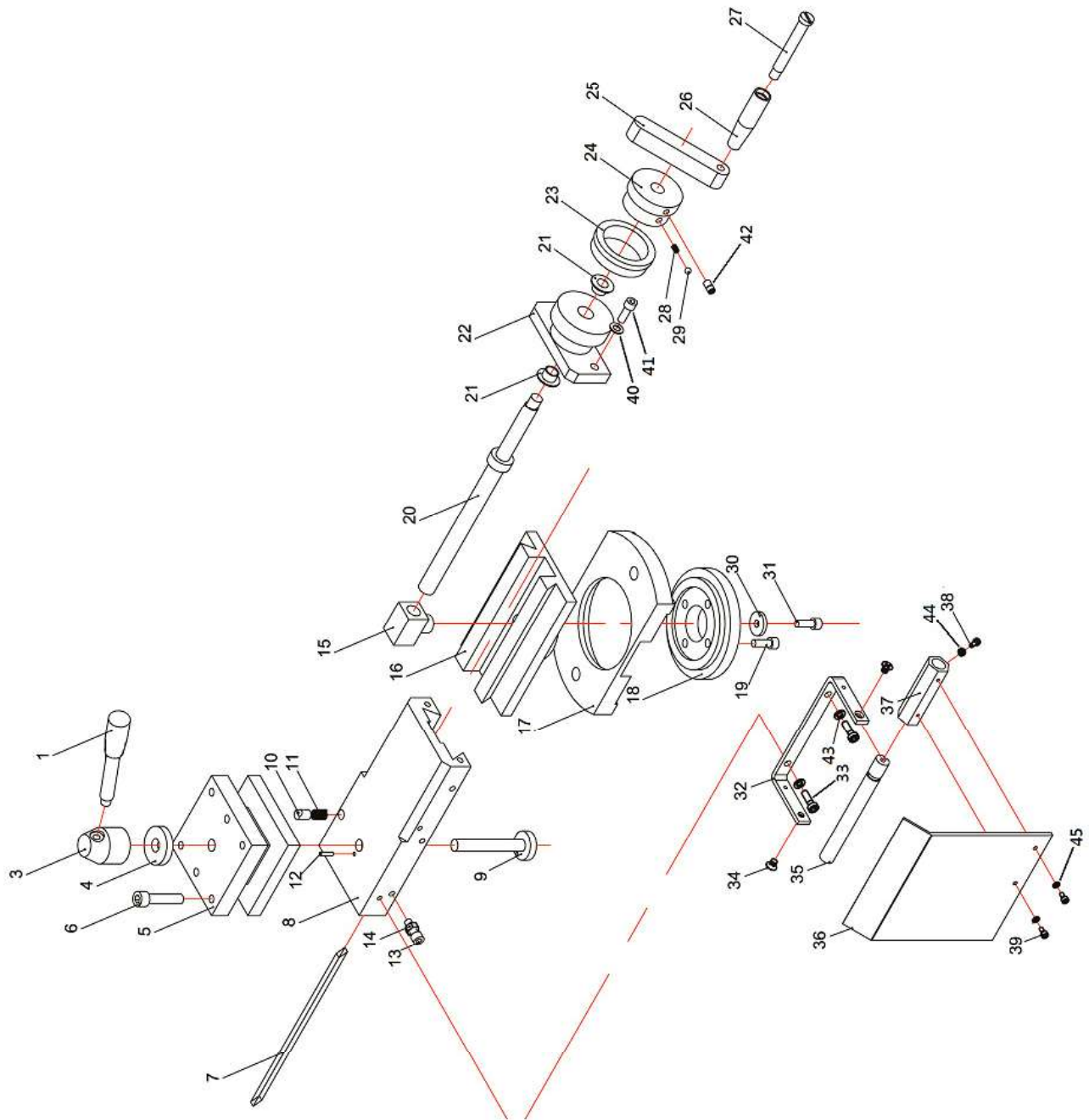
PBD-2870 Assembly Breakdown -6



PBD-2870 Parts List for Breakdown -6

Index No.	Part No.	Description	Size	Qty.
20	GB7085-5-20	SOCKET HD SCREW	M5 × 20 mm	3
21	TBB-51101	THRUST BALL BEARING	51101	2
22	PBD2870-6-22	SPRING	6	1
23	PBD2870-6-23	WASHER		1
24	GB7085-5-10	SOCKET HD SCREW	M5 × 10 mm	1
25	PBD2870-6-25	WHEEL		1
26	PBD2870-6-26	HANDLE		1
27	PBD2870-6-27	CLAMPING BOLT		1
28	PBD2870-6-28	COLLAR		1
30	PBD2870-6-30	BACK CLAMP		1
31	PBD2870-6-31	FRONT CLAMP		1
32	GB7085-8-30	SOCKET HD SCREW	M8 x 30 mm	2
33	GB7085-8-40	SOCKET HD SCREW	M8 x 40 mm	1
34	PBD2870-6-34	BRAKE CLAMP		1
35	GB7085-8-30	SOCKET HD SCREW	M8 x 30 mm	3
40	JBT7940495-6	BALL OILER	6	6
41	GB7885-6-10	SET SCREW (CONE END)	M6 × 10 mm	1
42	GB7085-8-10	SOCKET HD SCREW	M8 x 10 mm	1
43	PBD2870-6-43	CROSS SLIDE		1
44	PBD2870-6-44	BRUSH PIN		3
45	GB7085-6-40	SOCKET HD SCREW	M6 × 40 mm	3
46	GB617086-6	HEX NUT	M6	3
47	GB7085-6-40	SOCKET HD SCREW	M6 × 40 mm	1
48	PBD2870-6-48	GIB		1
49	PBD2870-6-49	NUT		1
50	PBD2870-6-50	LEADSCREW		1
51	GB109679-3-10	FLAT KEY	4 × 12 mm	1
52	PBD2870-6-52	SADDLE		1
62	PBD2870-6-62	BRACKET		1
63	GB5287-8	WASHER	5	2
64	GB7085-8-20	SOCKET HD SCREW	8	2
65	PBD2870-6-65	SCALE RING	M8 × 20 mm	1

PBD-2870 Assembly Breakdown -7

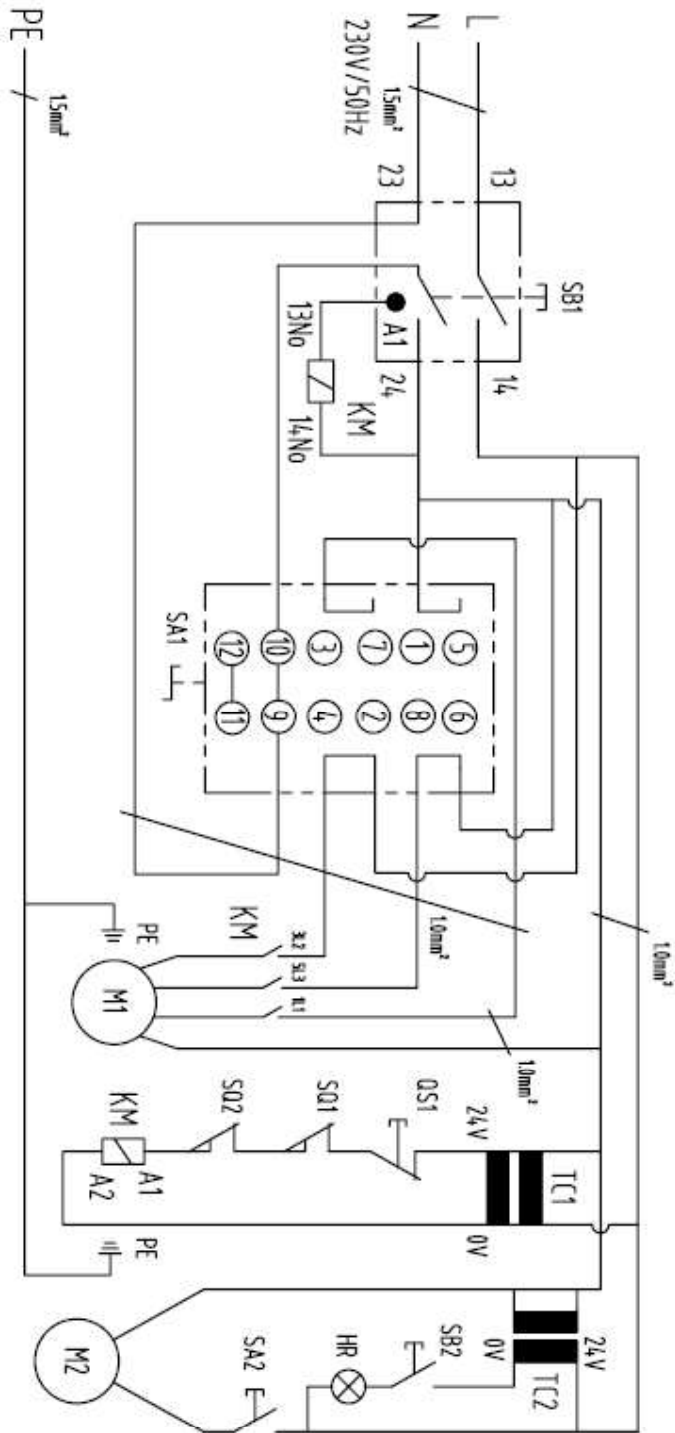


PBD-2870 Parts List for Breakdown -7

Index No.	Part No.	Description	Size	Qty.
1	PBD2870-7-1	HANDLE		1
3	PBD2870-7-3	HANDLE SEAT		1
4	PBD2870-7-4	WASHER		1
5	PBD2870-7-6	QUADRUPLER TOOL HOLDER		1
6	GB7085-8-35	SOCKET HD SCREW	M8 × 35 mm	8
7	PBD2870-7-7	GIB		1
8	PBD2870-7-8	TOP SLIDE		1
9	PBD2870-7-9	BOLT		1
10	PBD2870-7-10	STOP PIN		1
11	PBD2870-7-11	SPRING	0.8 × 5 × 15 mm	1
12	PBD2870-7-12	FIXING PIN		1
13	GB7085-6-16	SOCKET HD SCREW	M6 × 16 mm	3
14	GB617086-6	HEX NUT	M6	3
15	PBD2870-7-15	NUT		1
16	PBD2870-7-16	GUIDEWAY		1
17	PBD2870-7-17	CLAMPING COLLAR		1
18	PBD2870-7-18	SCALE COLLAR		1
19	GB7085-6-16	SOCKET HD SCREW	M6 × 16 mm	1
20	PBD2870-7-20	LEADSCREW		1
21	PBD2870-7-21	SLIDE BEARING		2
22	PBD2870-7-22	BRACKET		1
23	PBD2870-7-23	SCALE RING		1
24	PBD2870-7-24	HANDLE WHEEL		1
25	PBD2870-7-25	LEVER		1
26	PBD2870-7-26	HANDLE		1
27	PBD2870-7-27	CLAMPING BOLT		1
28	PBD2870-7-28	SPRING	0.8 × 5 × 15 mm	1
29	GB30889-8	STEEL BALL	Φ5	1
30	GB97185-6	WASHER	Φ6	1
31	GB7085-6-25	SOCKET HD SCREW	M6 × 25 mm	1
32	PBD2870-7-32	SUPPORT		1
33	GB7085-5-12	SOCKET HD SCREW	M5 × 12 mm	2
34	GB81985-5-6	CROSS RECESSED FLAT HD SCREW	M5 × 6 mm	2
35	PBD2870-7-35	SHAFT		1
36	PBD2870-7-36	CHIP SHIELD		1
37	PBD2870-7-37	HEX SLEEVE		1
38	GB7085-3-8	SOCKET HD SCREW	M3 × 8 mm	1
39	GB7085-3-6	SOCKET HD SCREW	M3 × 6 mm	2
40	GB97185-6	WASHER	6	2
41	GB7085-6-20	SOCKET HD SCREW	M6 × 20 mm	2
42	GB7785-6-10	SET SCREW (FLAT END)	M6 × 10 mm	3
43	GB97185-5	WASHER	5	2
44	GB617086-3	HEX NUT	M3	1
45	GB97185-3	WASHER	3	2

16.0 Wiring Diagrams

PBD-28701~230V, PE, 50Hz



PBD-2870 Electrical Parts List

ITEM	DESCRIPTION	TYPE	SPECIFICATION	Qty.	Note
SB1	Magnetic Contactor	KJD17GF	IP-55 AC-1 18A Ue250V AC-3 15A CE	1	
SA1	Fwd/0/Rev - Switch	ZH-A	Ue 250V IEN 12A 5E4 CE	1	
KM	Contactor	LC1K0910	UI 690V IEN 20A CE	1	
TC1	Transformer	230V/24V/20VA	20VA 230VAC CE	1	
TC2	Transformer	230V-24V/20VA	20VA 230VAC CE	1	Optional
QS1	Emergency stop	LAY5	AE-15 240V IEN 10A CE	1	
SQ1	Gear Guard Switch	QKS8	AC-15 14A 250V IP54 CE	1	
SQ2	Chuck Guard Switch	LXW5-11Q1	AC-15 3A IP62 Ue380V CE	1	
SB2	Light Switch	KCD1-101	6A AC250V CE	1	Optional
HR	Work light	24V	5W AC12-24V CE	1	Optional
SA2	Pump Switch	LAY5-BE101	Ue220V IEN3.3A AC-15 CE	1	Optional
M1	Main Motor	YLJ90L4-12A	1.1Kw AC230V 6.4A IP54 CE	1	
M2	Pump	DB-12A	40W AV230V 0.9A IP54 CE	1	Optional