



360°独立驱动旋转头全自动模板机

INDEPENDENT DRIVING ROTATING HEAD TEMPLATE SEWING MACHINE

零件手册

PARTS BOOK

X7 系列 SERISE



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台州莱蒙缝纫设备有限公司
TAI ZHOU LEMAN SEWING EQUIPMENT CO.,LTD

零件手册的使用提示

Notes for using the parts book

1. 本手册是根据截止至 2021 年 5 月的资料为基础而编制的。

This parts book is based on the information available up to May 2021.

2. 零部件设计若有变动，恕不另行通知。

Parts are subject to change in design without prior notice.

3. 以组件为单位供应的零部件用虚线框出。

Parts supplied by component are outlined with a dotted line.

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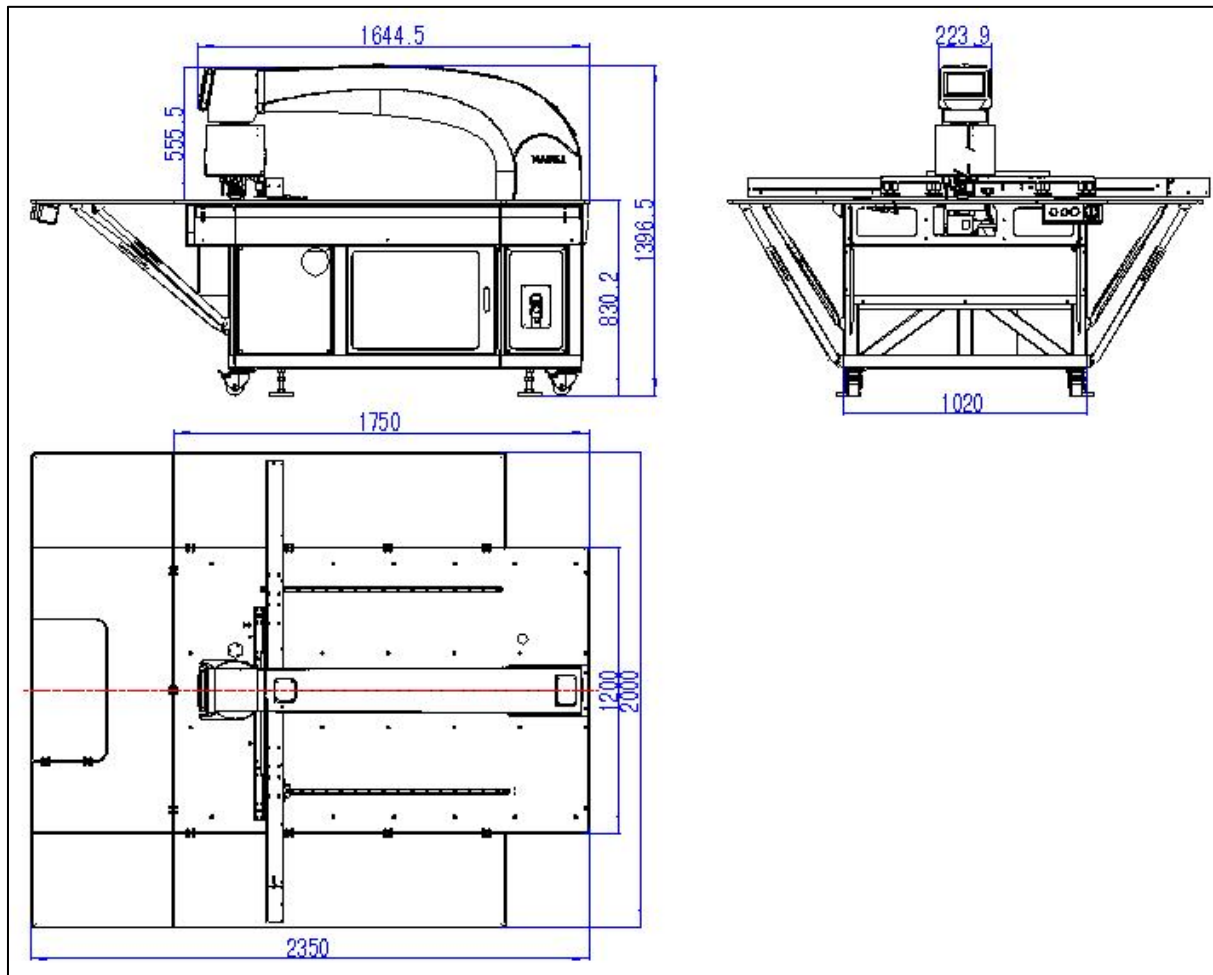
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LM-X7(LM-X7)外形尺寸图 (L2350×W2000×H1396.5) :

LM-X7(LM-X7)Overall Dimension Drawing(L2350×W2000×H1396.5) :

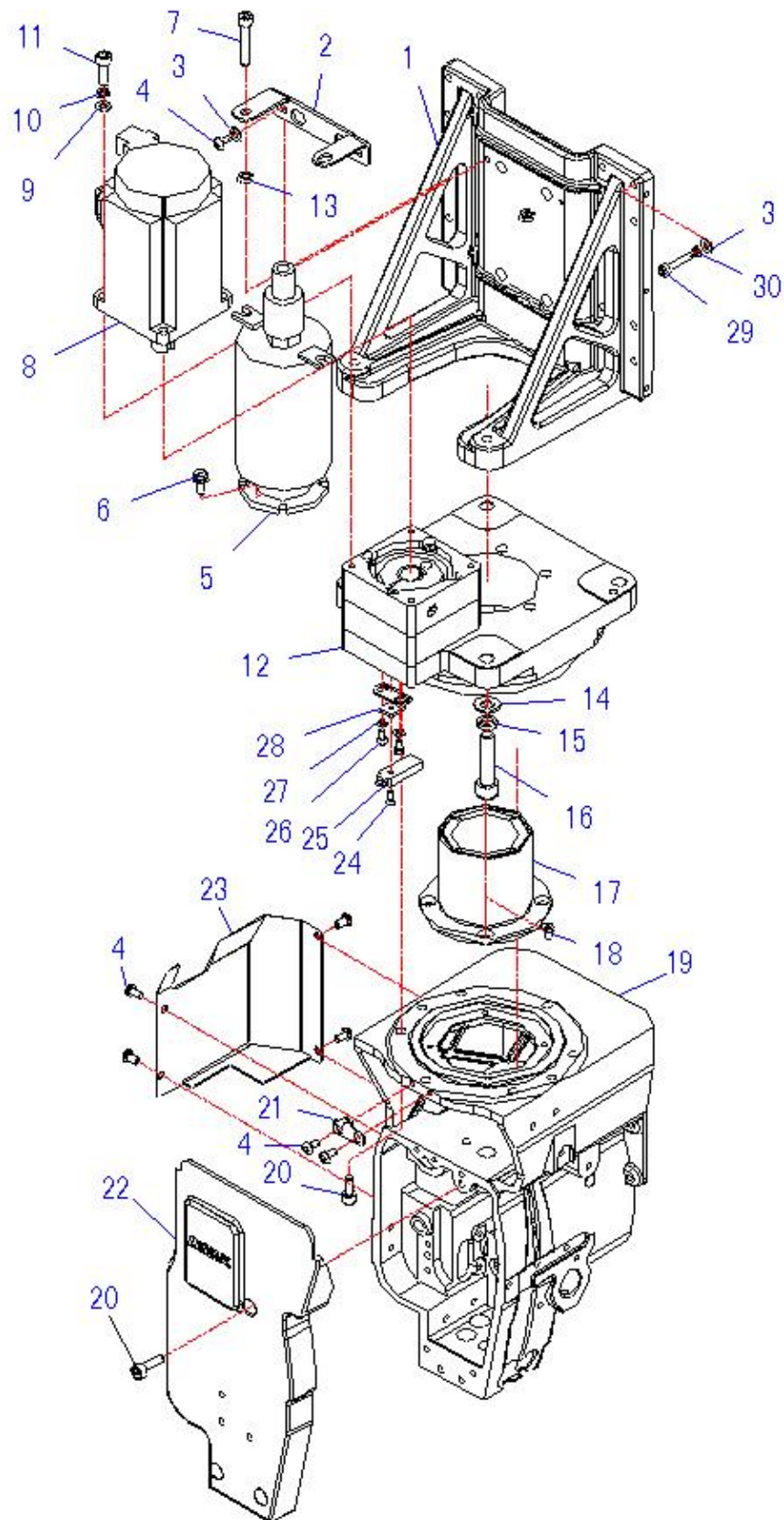




A.上机体独立驱动部分 Upper Body Independent Driving System

序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
1	LMXZ-TX-011	升降底座	Lifting Base	1	
2	LMXZ-TX-036	滑环限位座	Slip Ring Limit Base	1	
3	GB97.1-4	平垫圈 4	Flat Washer 4	22	
4	GB70.2-M4x8	螺钉 M4×8	Screw M4x8	8	
5	LMXZ-DQ-011	上滑环	Upper Slip Ring	1	
6	GB9074.13-M4x12	组合螺钉 M4×12	Set Screw M4*12	4	
7	GB70.1-M5x30	螺钉 M5×30	Screw M5*30	2	
8	LM60ST001330	伺服电机 60ST001330	Servo Motor 60ST001330	1	
9	GB97.1-5	平垫圈 5	Flat Washer 5	4	
10	GB93-5	弹簧垫圈 5	Spring Washer 5	4	
11	GB70.1-M5x16	螺钉 M5×16	Screw M5*16	4	
12	LMXZ-WG-13018	旋转底座 KFN13018	Rotory Base KFN13018	1	
13	GB6170-M5	螺母 M5	Nut M5	2	
14	GB97.1-8	平垫圈 8	Flat Washer 8	4	
15	GB93-8	弹簧垫圈 8	Spring washer 8	4	
16	GB70.1-M8x35	螺钉 M8×35	Screw M8*35	4	
17	LMXZ-TX-016	电滑环连接台	Electrical Slip Ring Connection Platform	1	
18	GB70.3-M4x8	螺钉 M4×8	Screw M4*8	4	
19	LMXZ-TX-001	上机壳	Upper Machine Body	1	
20	GB70.1-M5x12	螺钉 M5×12	Screw M5*12	6	
21	LMXZ-TX-030G	零位开关座	Zero Position Switch Base	1	
22	LMXZ-TX-005	前盖	Front Cover	1	
23	LMXZ-TX-020	上机头左封板	Left Cover Plate Of The Machine Head	1	
24	GB819.1-M3x8	螺钉 M3×8	Screw M3*8	1	
25	LMXZ-DQ-025	零位开关	Zero Position Switcher	1	
26	GB70.1-M3x8	螺钉 M3×8	Screw M3*8	2	
27	GB97.1-3	平垫圈 3	Flat Washer 3	2	
28	LMXZ-TX-030G	零位开关座	Zero Position Switch Base	1	
29	GB70.1-M4x20	螺钉 M4×20	Screw M4*20	16	
30	GB93-4	弹簧垫圈 4	Spring Washer 4	20	

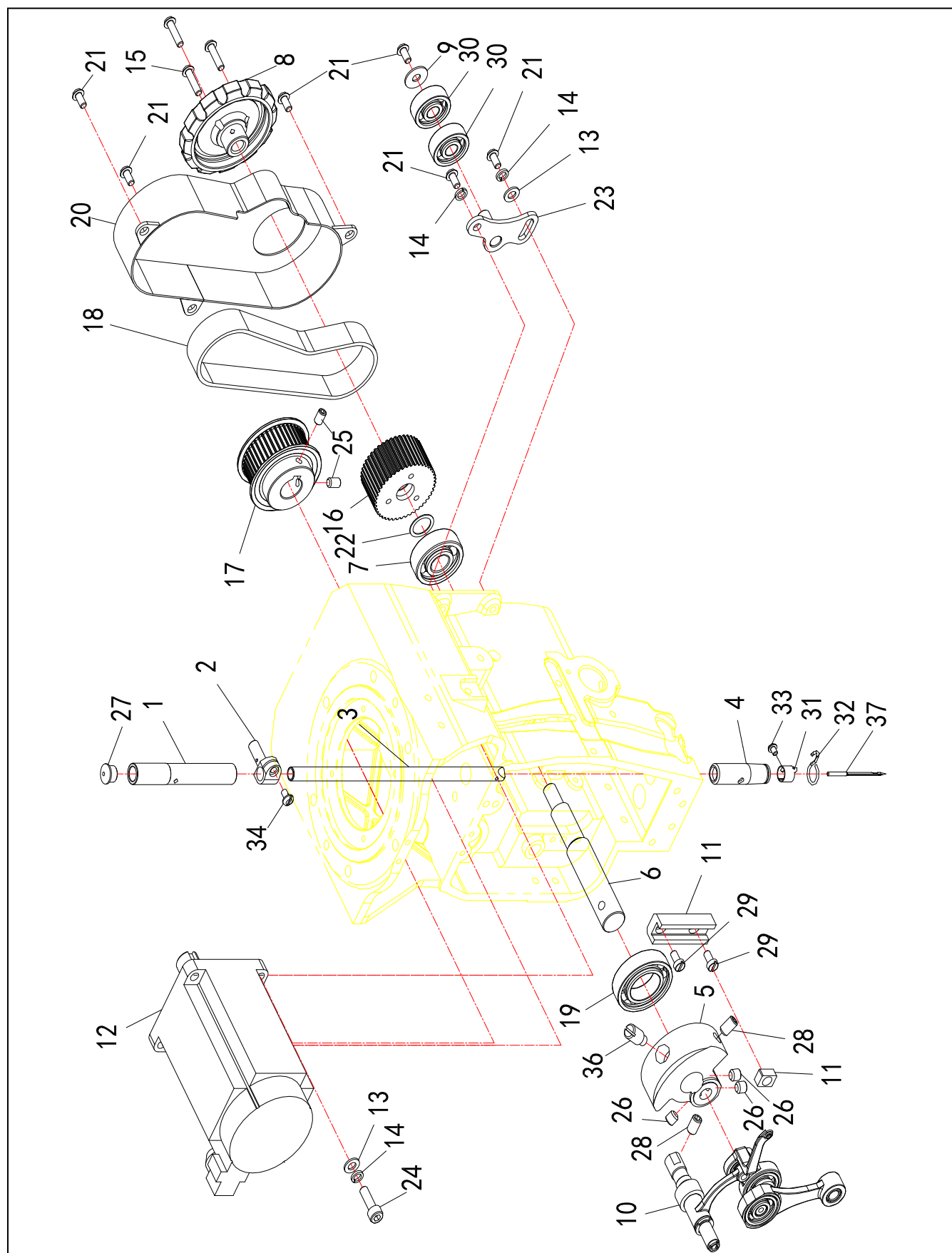
A. 上机体独立驱动部分 Upper Body Independent Driving System



**B.针杆和挑线杆部件 Needle Bar and Take-up Components**

序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
1	SA2194201	针杆轴套 U	Needle Bar Shaft Sleeve U	1	
2	102.03-04	针杆连接套	Needle Bar Connecting Sleeve	1	
3	SA9642001	针杆	Needle Bar	1	
4	SA1138101	针杆轴套 D	Needle Bar Shaft Sleeve D	1	
5	LMXZ-TX-015	针杆曲柄	Needle Bar Crank	1	
6	LMXZ-TX-002	上轴	Upper Shaft	1	
7	GB276-6201ZZ	轴承 6201-2Z	Bearing 6201-2Z	1	
8	LMXZ-TX-008	手轮	Handweel	1	
9	GB96.1-5	平垫圈 5	Flat Washer 5	1	
10	SA9748001	针杆连杆总组件	Needle Bar Linkage Assembly	1	
11	101.03-46	针杆连接柱滑块座	Needle Bar Connecting Post Slider Base	1	
12	LMXZ60ST001330	伺服电机 60ST001330	Servo Motor 60ST001330	1	
13	GB97.1-5	平垫圈 5	Flat Washer 5	5	
14	GB93-5	弹性垫圈 5	Spring Washer 5	6	
15	GB70.1-M4x16	螺钉 M4×16	Screw M4*16	3	
16	LMXZ-TX-004	主轴带轮	Main Shaft Pulley	1	
17	LMXZ-TX-003	电机带轮	Motor Pulley	1	
18	LMXZ-S3M32415	同步带 S3M32415	Timing Belt S3M32415	1	
19	GB276-61904ZZ	轴承 61904-2Z	Bearing 61904-2Z	1	
20	LMXZ-TX-017	带轮罩壳	Pulley Cover	1	
21	GB70.2-M4x8	螺钉 M4×8	Screw M4*8	5	
22	GB955-12x16x0.5	波形垫圈 M12×16×0.5	Wave Washer M12*16*0.5	1	
23	LMXZ-TX-029	涨紧轮座	Tension Pulley Base	1	
24	GB70.1-M5x16	螺钉 M5×16	Screw M5*16	4	
25	GB77-M5x8	螺钉 M5×8	Screw M5*8	2	
26	GB77-M6x6	螺钉 M6×6	Screw M6*6	3	
27	S32263001	橡皮塞 8.5	Rubber Plug 8.5	1	
28	GB77-M6×10	螺钉 M6×10	Screw M6*10	2	
29	GB65-M4×8	螺钉 M4×8	Screw M4*8	2	
30	GB276-628ZZ	轴承 628-2Z	Bearing 628-2Z	2	
31	151594001	针杆过线环	Needle Bar Thread Loop	1	
32	SA3258001	针杆轴套线导向勾 D	Needle Bar Shaft Sleeve Thread Guide Hook D	1	
33	140553102	固定螺钉 SM3.18	Fixed Screw SM3.18	1	
34	140004001	螺钉 SM3.57-40x6L	Screw SM3.57-40*6L	1	
35	102630001	针杆接头滑块	Needle Bar Joint Slider	1	
36	S25235001	螺钉 M8	Screw M8	1	
37	S03883201	机针 DP5 ~ DP22	Machine Needle	1	

B. 针杆和挑线杆部件 Needle Bar and Take-up Components





C. 抬压部件 Presser Lifter Components

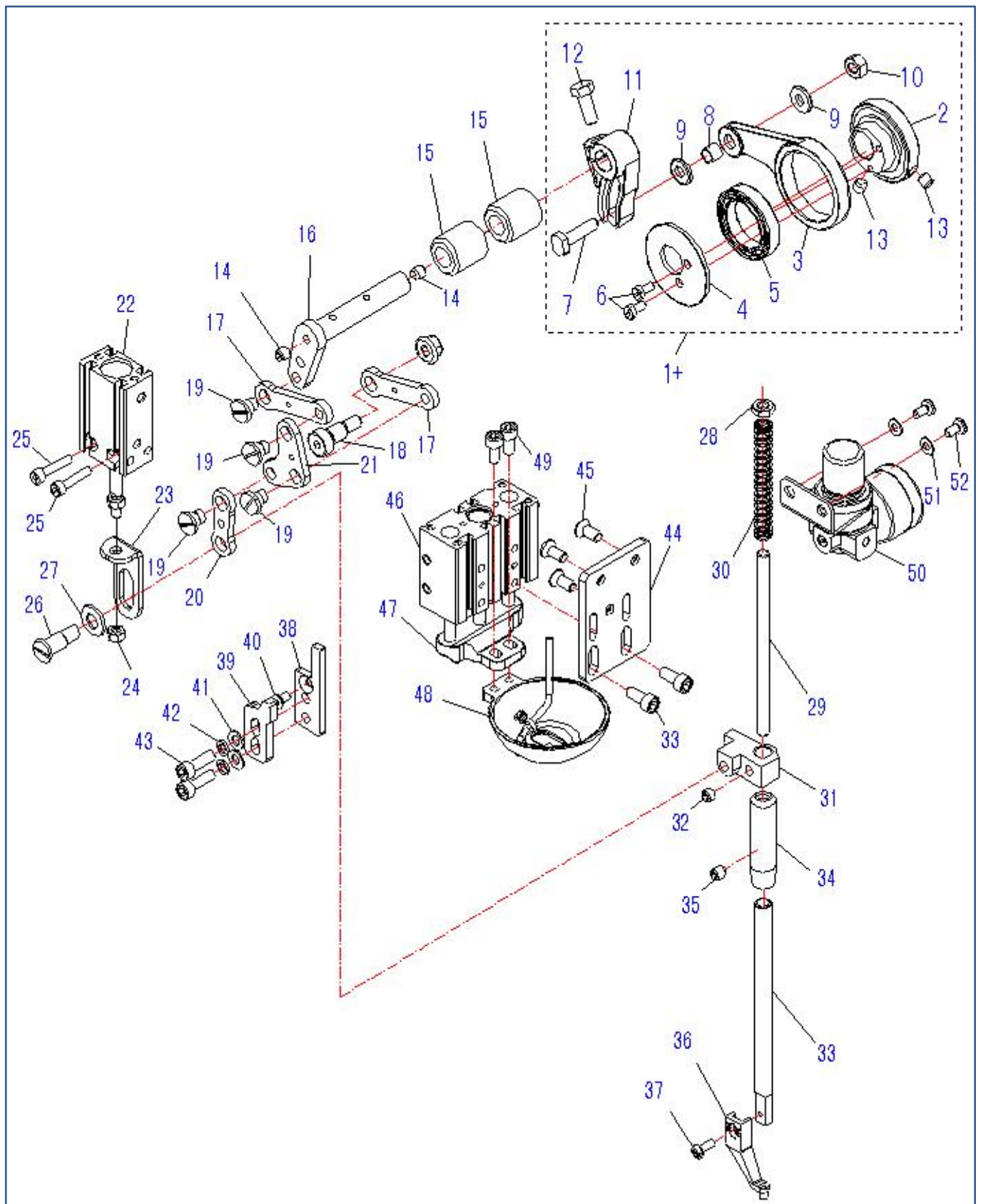
序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
1	LM2015-801	抬压凸轮组件	Lift Cam Assembly	1	
2	SA4759001	凸轮	Cam	1	
3	SA4760001	连杆	Connecting Rod	1	
4	SA4763001	垫圈	Washer	1	
5	623033000	轴承 6805VV	Bearing 6805VV	1	
6	062400616	螺钉 M4×6	Screw M4*6	2	
7	SA4761001	滚轮轴	Roller Shaft	1	
8	SA4762001	滚轮	Roller	1	
9	SA4302001	垫圈	Washer	2	
10	021060106	螺母 M6	Nut M6	1	
11	SA4764001	压臂 F	Presser Bar	1	
12	017061213	螺栓 M6×12	Bolt M6*12	1	
13	S23651001	固定螺丝 M6×6	Fixed Screw M6*6	1	
14	012060636	螺钉 M6×6	Screw M6*6	2	
15	700.A-30	摆动压脚提升套	Rocking Presser Foot Lift Assembly	2	
16	LMXZ-TX-012	压臂 F	Presser Bar F	1	
17	700.A-39	连杆 A	Connecting Rod A	2	
18	GB5281-812	轴肩螺钉 8×12	Shaft Shoulder Screw	1	
19	700.A-34	螺钉 SM1/4×40	Screw SM1/4*40	1	
20	700.A-36	连杆 C	Connecting Rod C	1	
21	700.A-37	中压脚摆动曲柄	Middle Presser Foot Rocking Crank	1	
22	700.A-23	抬压气缸	Presser Cylinder	1	
23	LMXZ-TX-018	中压脚提升杆	Middle Presser Foot Lift Lever	1	
24	GB6170-M5	螺母 M5	Nut M5	1	
25	GB70.1-M420	螺钉 M4×20	Screw M4*20	2	
26	LM2015-116	连接螺钉	Connecting Screw	1	
27	GB97.1-8	平垫圈 8	Flat Washer 8	1	
28	GB6172.1-M6	螺母 M6	Nut M6	1	
29	LMXZ-TX-039	弹簧导柱	Spring Guide Pillar	1	
30	S13561101	弹簧	Spring	1	
31	LM2015-79	压脚导向支架	Presser Foot Guide Support	1	
32	018501236	固定螺钉 M5×12	Fixed Screw M5*12	1	



C. 抬压部件 Presser Lifter Components

序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
33	SA9359001	压紧杆	Pressure Rod	1	
34	SA4242001	压杆轴套	Pressure Bar Shaft Sleeve	1	
35	012500836	固定螺钉 M5×8	Fixed Screw M5*8	1	
36	SA2843001	中压脚	Middle Presser Foot	1	
37	S13385001	螺钉 SM3.57-40×10	Screw SM3.57-40×10	1	
38	LMXZ-TX-009	中压脚导向挡板	Middle Presser Foot Guide Plate	1	
39	LMXZ-TX-010	中压脚提升限位挡片	middle presser foot lift stop block	1	
40	GB70.3-M4x8	螺钉 M4×8	Screw M4*8	1	
41	GB97.1-5	平垫圈 5	Flat Washer 5	2	
42	GB93-5	弹簧垫圈 5	Spring Washer 5	2	
43	GB70.1-M5x16	螺钉 M5×16	Screw M5*16	2	
44	LMXZ-TX-006	大压脚气缸固定支架	Large Presser Foot Cylinder Mounting Bracket	1	
45	GB70.3-M5x12	螺钉 M5x12	Screw M5*12	3	
46	LMXZ-DQ-005	大压脚气缸	Large Presser Foot Cylinder	1	
47	LMXZ-TX-007	大压脚支架	Large Presser Foot Bracket	1	
48	LM2015-72	大压脚	Large presser Foot	1	
49	GB70.1-M5x10	螺钉 M5×10	Screw M5*10	2	
50	SDR100M51	调压阀	Presser Regulator Brake	1	
51	GB97.1-4	平垫圈 4	Flat Washer 4	2	
52	GB70.1-M4x8	螺钉 GB70.1 M4×8	Screw GB70.1 M4×8	2	

C. 抬压部件 Presser Lifter Components

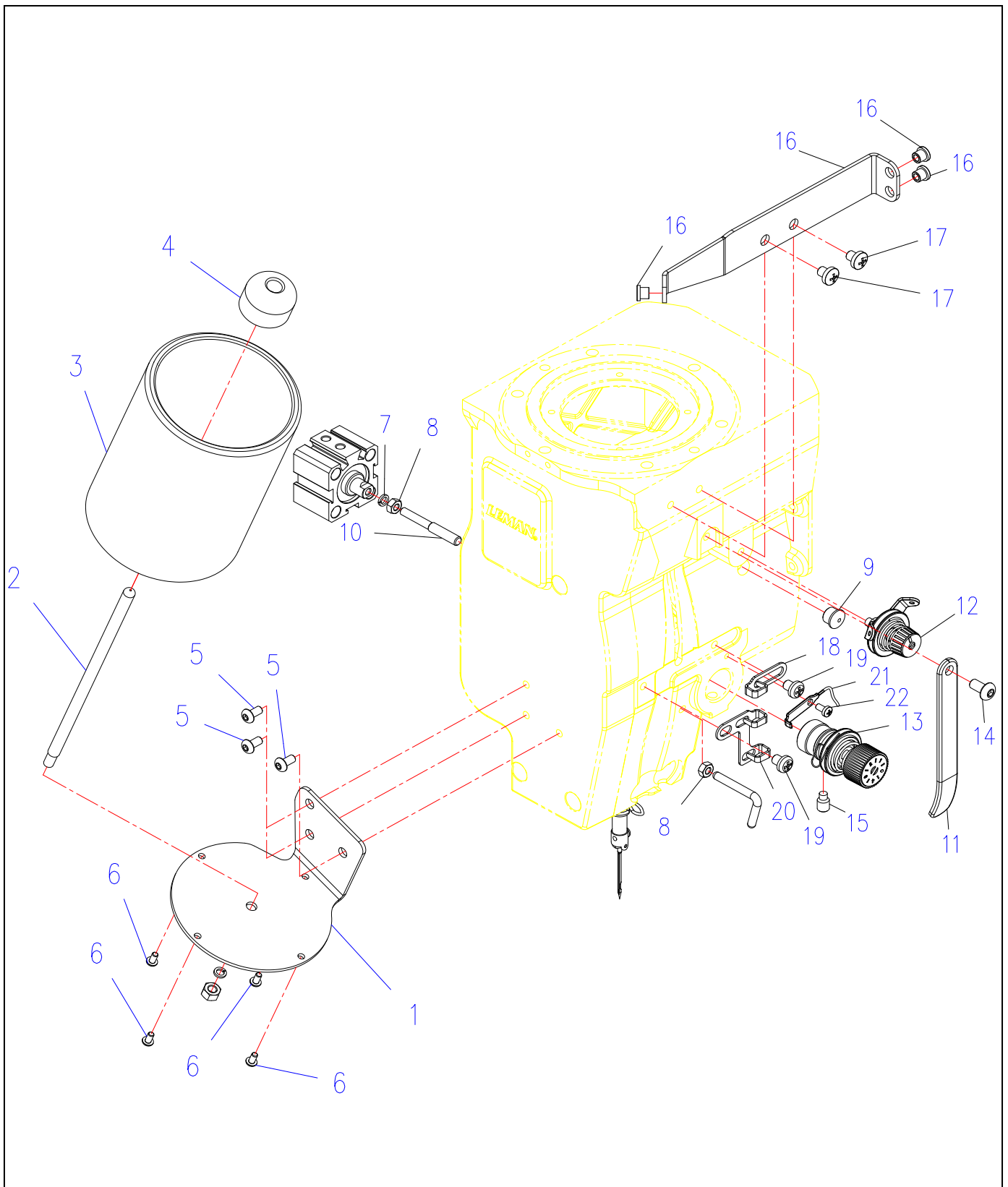




D. 穿线部件 Threading Components

序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
1	LMXZ-TX-023G	托线板	Thread Guide Plate	1	
2	LMXZ-TX-038	线盘钉	Spool Pin	1	
3	LMXZ-TX-041	线套	Thread Spool	1	
4	LMXZ-TX-039	线卷压帽	Thread Spool Cap	1	
5	GB70.2-M4x8	螺钉 M4×8	Screw M4*8	3	
6	GB70.2-M3x6	螺钉 M3×6	Screw M3*6	4	
7	GB93-4	弹簧垫圈 4	Spring Washer 4	1	
8	GB6170-M4	螺母 M4	Nut M4	2	
9	S32263001	橡皮塞 8.5	Rubber Plug 8.5	2	
10	LM2015-17	松线杆	Lossen Thread Bar	1	
11	LMXZ-TX-019	挑线杆防护罩	Thread Take-up Lever Guard	1	
12	SA9698001	小夹线组件 B	Small Thread Clamp Assembly B	1	
13	SA7273202	夹线器组件	Thread Clamp Assembly	1	
14	GB70.2-M5x10	螺钉 M5×10	Screw M5*10	1	
15	GB79-M6x10	螺钉 M6×10	Screw M6*10	1	
16	LMXZ-TX-016	导线架	Thread Guide Stand	1	
17	GB818-M5x6	螺钉 M5×6	Screw M5*6	2	
18	SA1345001	机壳线导向 R	Machine Casing Thread Guide R	1	
19	GB823-M5x6	螺钉 M5×6	Screw M5*6	2	
20	SA7271001	线导向	Thread Guide	1	
21	LM2015-99	断线感应器	Broken Thread Detector	1	
22	GB818-M3x6	螺钉 M3×6	screw M3*6	1	

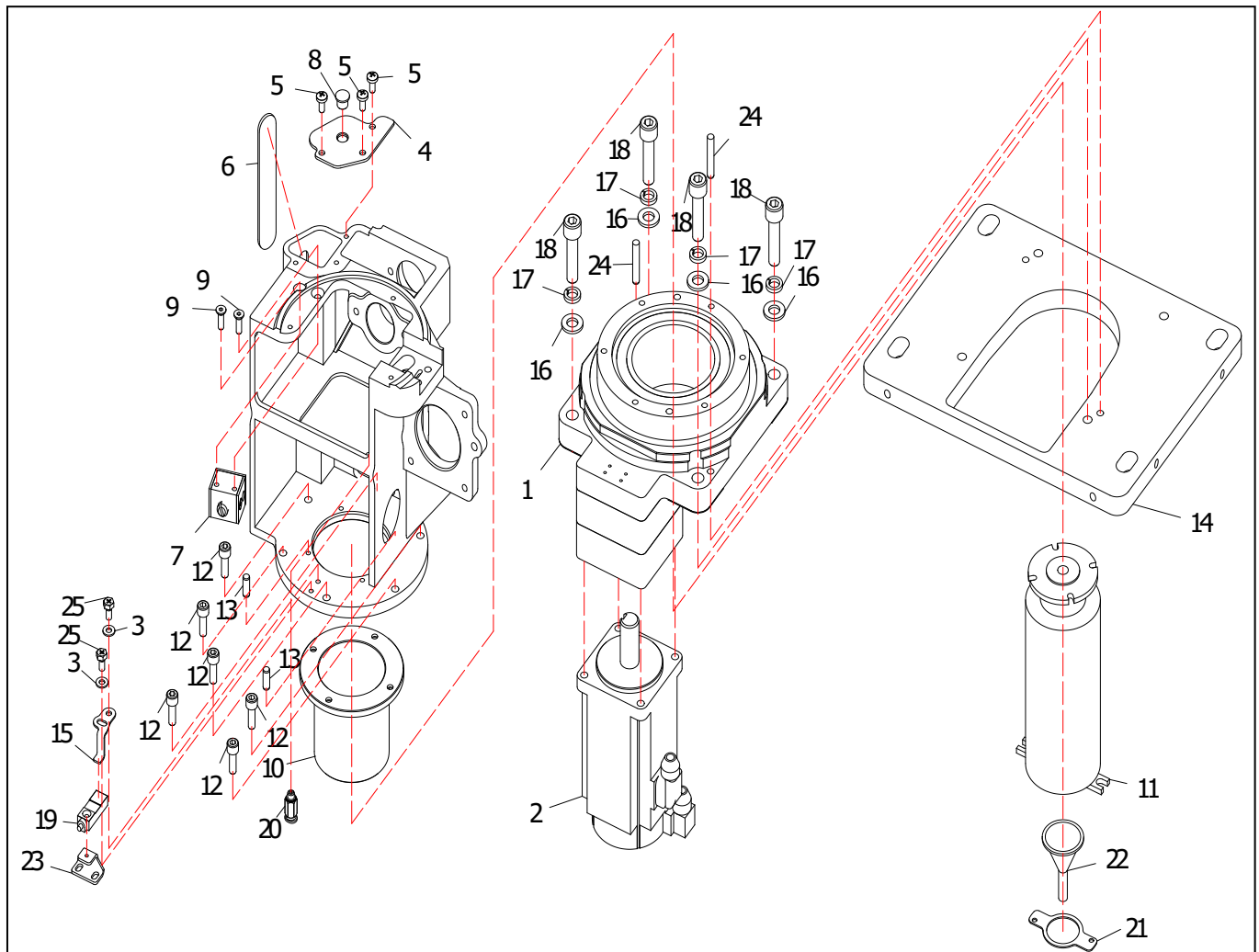
D.穿线部件 Threading Components



**E. 下梭独立驱动部分 Lower Shuttle Independent Driving System**

序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
1	LMXZ-WG-13018	旋转平台	Rotary Platform	1	
2	LMXZ60ST001330	伺服电机 60ST001330	Servo Motor	1	
3	GB97.1-4	平垫圈 4	Flat Washer 4	2	
4	LMXZ-XS-015	油箱盖	Oil Reservoir Cap	1	
5	GB818-M4x8	螺钉 M4×8	Screw M4*8	3	
6	LMXZ-XS-021	油量观察窗	Oil Level Sight Window	1	
7	LMXZ-XS-031	油量调节器	Oil Flow Regulator	1	
8	104450101	橡皮塞 8	Rubber Plug 8	1	
9	GB70.3-M4x12	螺钉 M4×12	Screw M4*12	2	
10	LMXZ-TX-014	电滑环连接台	Electrical Slip Ring Connection Table	1	
11	LMXZ-DQ-012	下滑环	Lower Slip Ring	1	
12	GB70.1-M5x14	螺钉 M5×14	Screw M5*14	6	
13	GB119.1-5x12	圆柱销 B5×12	Cylinder Pin B5*12	2	
14	LMXZ-XS-018	旋转下底座	Rotating Lower Base	1	
15	LMXZ-XS-019	下梭零位信号检测片	Lower Bobbin Zero-position Signal Detection Plate	1	
16	GB97.1-8	平垫圈 8	Flat Washer 8	4	
17	GB93-8	平垫圈 8	Flat Washer 8	4	
18	GB70.1-M8x30	螺钉 M8×30	Screw M8*30	4	
19	LMXZ-DQ-025	零位开关	Zero Position Switcher	1	
20	SA8989001	供油口	Oil Supply Port	1	
21	LMXZ-FJ-011	漏斗固定板	Funnel Fixed Plate	1	
22	LMXZ-WG-031	小塑料漏斗	Small Plastic Funnel	1	
23	LMXZ-TX-030	零位开关座	Zero Position Switch Base	1	
24	GB119.1-5x26	圆柱销 5×26	Cylinder Pin 5*26	2	
25	GB29.2-M4x8	螺栓 M4×8	Bolt M4*8	2	

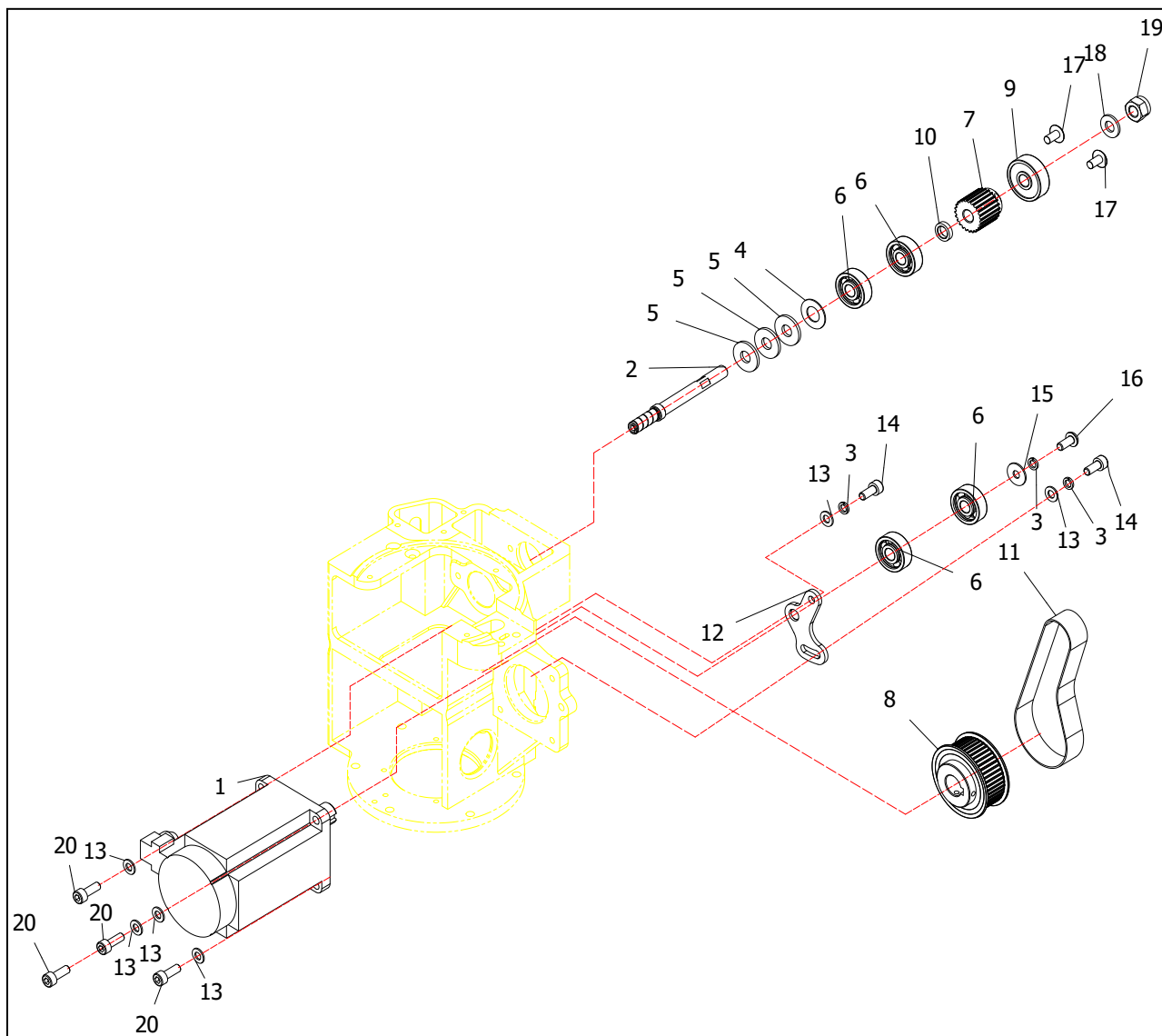
E. 下梭独立驱动部分 Lower Shuttle Independent Driving System



**F.下梭传动及供油部分 Lower Shuttle Transmission and Oil Supply System**

序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
1	LMXZ60ST001330	伺服电机 60ST001330	Servo Motor	1	
2	LMXZ-XS-002	旋梭轴	Rotary Hook Shaft	1	
3	GB93-5	平垫圈 5	Flat Washer 5	2	
4	LMXZ-WG1020008	油毡后挡圈	Oil Felt Rear Retaining Ring	1	
5	LMXZ-WG0820020	圆形毛毡	Round Felt Pad	3	
6	GB276-628DD	轴承 628DD	Bearing 628DD	4	
7	LMXZ-XS-009	从动轮	Driven Wheel	1	
8	LMXZ-DX-12	主动轮	Driving Wheel	1	
9	GB276-628ZZ	轴承 638ZZ	Bearing 638ZZ	1	
10	LMXZ-XS-003	梭轴隔套	Shuttle Shaft Spacer	1	
11	LMXZ-S3M27615	同步带 S3M27615	Timing Belt	1	
12	LMXZ-TX-029	涨紧轮座	Tension Pulley Base	1	
13	GB97.1-5	平垫圈 5	Flat Washer 5	4	
14	GB70.1-M5x12	螺钉 M5×12	Screw M5*12	2	
15	GB96.1-5	平垫圈 5	Flat Screw 5	1	
16	GB70.2-M5x12	螺钉 M5×12	Screw M5*12	1	
17	GB973-M5x10	螺钉 M5×10	Screw M5*10	2	
18	GB97.4-8	平垫圈 8	Flat Washer 8	1	
19	GB889.1-M8x1	螺母 M8×1	Nut M8*1	1	
20	GB70.1-M5x14	螺钉 M5×14	Screw M5*14	4	

F.下梭传动及供油部分 Lower Shuttle Transmission and Oil Supply System



G.切线部件 Thread trimmer Components

序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
1	B1HTR(FL2)	旋梭	Rotary Hook	1	
2	146290001	梭芯	Bobbin	1	
3	S03245001	梭芯套组件	Bobbin Case Set	1	
4	S02645001	动刀	Moving Knife	1	
5	GB97.1-4	平垫圈 4	Flat Washer 4	3	



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序号 Ref No.	件 号 Part NO.	名 称	Description	数量 Qty.	备注 Note
6	GB93-4	弹簧垫圈 4	Spring Washer 4	3	
7	GB70.1-Mx8	螺钉 M4×8	Screw M4*8	1	
8	LMXZ-XS-014	切线手杆	Thread Cutting Hand Lever	1	
9	S02637101	固定刀	Fixed Knife	1	
10	LMXZ-XS-013	切线连杆	Thread Cutter Link Rod	1	
11	GB276-635ZZ	轴承 635ZZ	Bearing 635ZZ	1	
12	GB93-5	弹簧垫圈 5	Spring Washer	2	
13	GB70.1-M5x20	螺钉 M5×20	Screw M5*20	1	
14	GB5281-8x12	轴肩螺钉 8×12	Shaft Shoulder Screw 8*12	1	
15	GB97.1-6	平垫圈 6	flat Washer 6	2	
16	SA5329001	管套	Pipe Sleeve	2	
17	GB70.1-M4x10	螺钉 M4×10	Screw M4*10	1	
18	LMXZ-XS-012	切线杠杆	Thread Cutting lever Arm	1	
19	S02602001	旋梭定位钩	Rotary Hook Positioning Hook	1	
20	LMXZ-XS-007	定位座	Positioning Base	1	
21	LMXZ-XS-007-1	定刀压紧螺钉	Fixed Knife Tightening Screw	1	
22	102843004	平头螺钉 SM3.57	Flat-head Screw	1	
23	GB70.1-M4x12	螺钉 M4×12	Screw M4*12	1	
24	GB93-6	弹簧垫圈 6	Spring Washer 6	2	
25	GB70.1-M6x14	螺钉 M6×14	Screw M6*14	2	
26	LMXZ-XS-015	油箱盖	Oil Tank Cap	1	
27	LMXZ-XS-004	刀架座	Knife Holder Base	1	
28	DIN7984-M5x10	螺钉 M5*10	Screw M5*10	2	
29	LMXZ-XS-005	切线架压板	Thread Cutting Frame Pressure Plate	1	
30	GB/68- M3x8	螺钉 M3*8	Screw M3*8	3	
31	LMXZ-XS-010	圆盘针板 A	Round Needle Plate A	1	
32	110-SK2050C	针板螺钉 SM3-32X56-5	Needle Plate Screw	2	
33	GB119.1-3x14	圆柱销 B3x14	Cylinder Pin	1	
34	GB70.3-M4x12	螺钉 M4 x12	Screw M4*12	3	
35	S02643001	分线器	Thread Splitter	1	
36	LMXZ-XS-011	圆针板 (1.6,2.0,2.4)	Round Needle Plate	1	
37	LM60HE284-031	剪线电机	Thread Cutting Motor	1	
38	SA9643001	切线架	Thread Cutting Frame	1	

G. 切线部件 Thread Trimmer Components

