

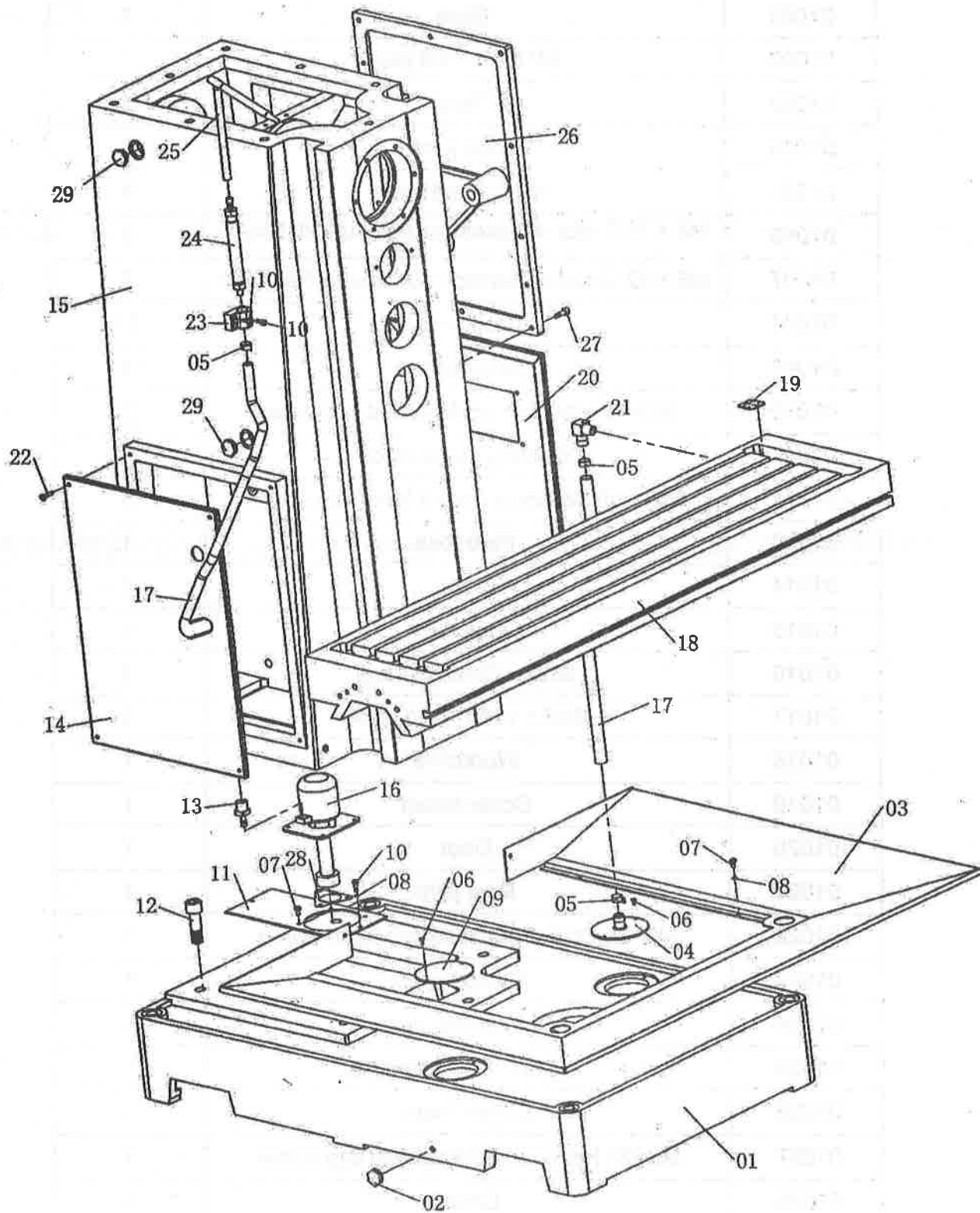
UNIVERSAL SWIVEL HEAD MILLING MACHINE

EXPLOSION DIAGRAM

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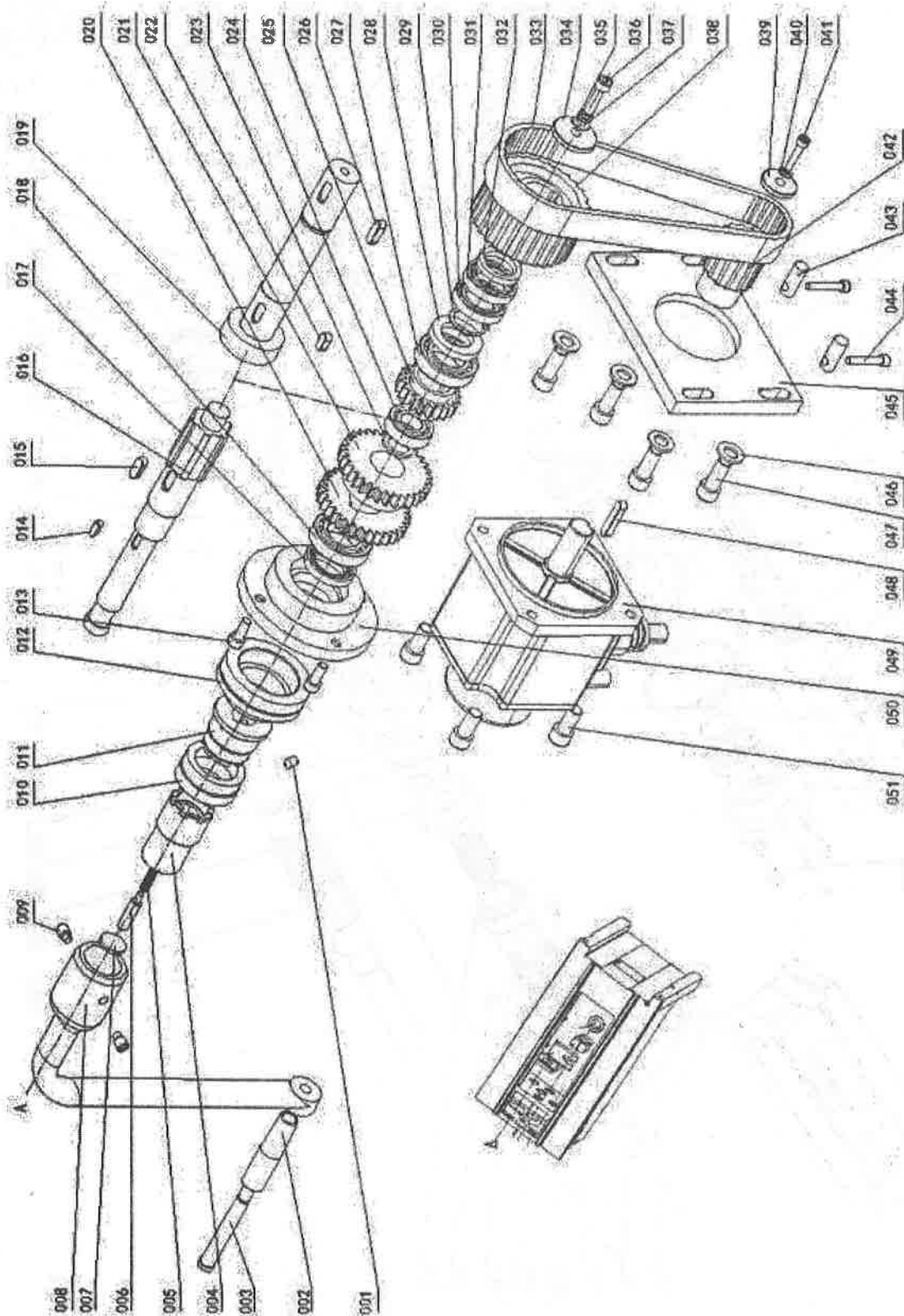
01 Column & base parts



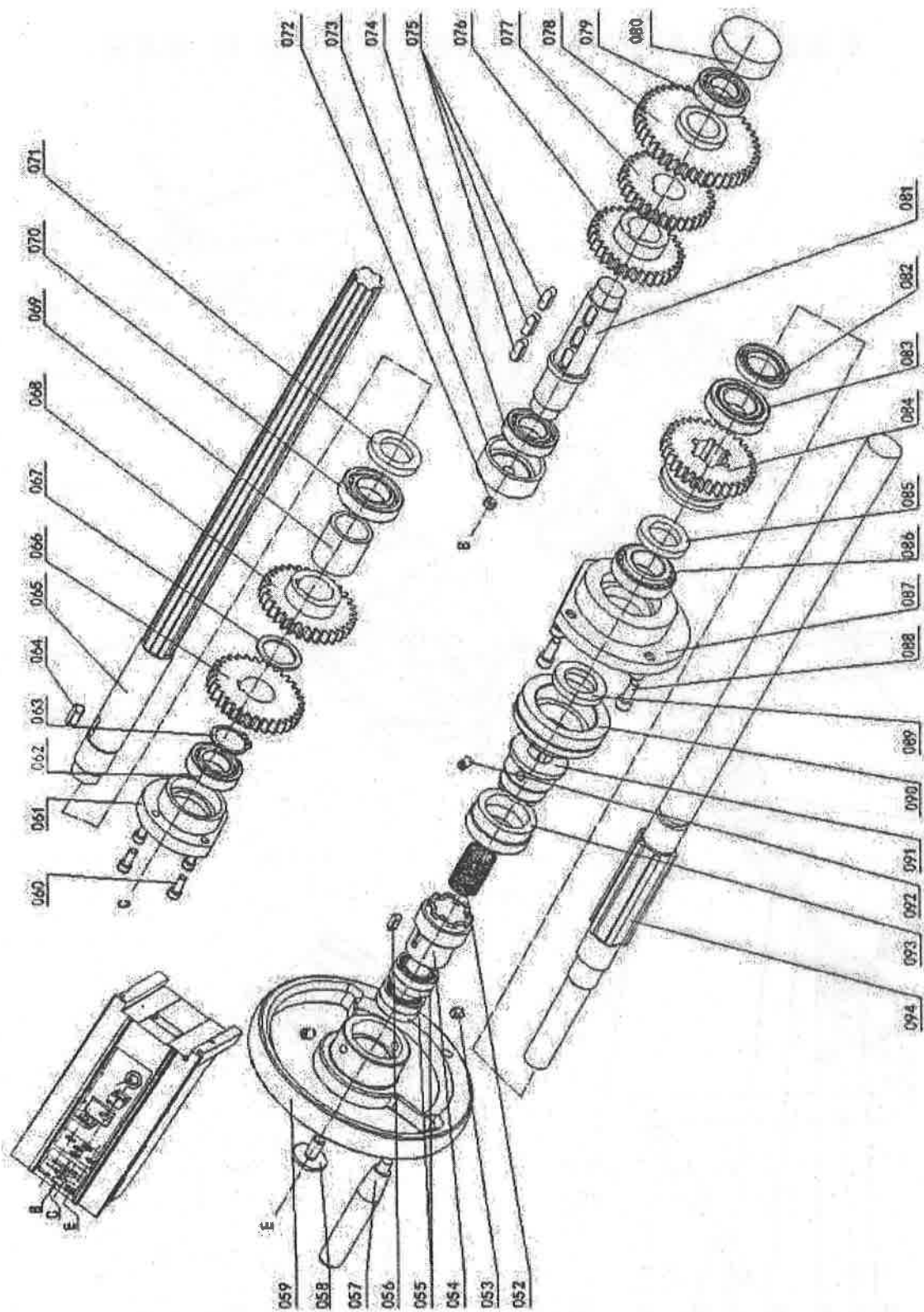
01 Column & base parts

No.	Name	Qty
01001	Base	1
01002	M10×1 Oil plug	1
01003	Tray	1
01004	Pipe joint	1
01005	Φ16-Φ25 Hoop	4
01006	M4×10 Cross recessed countersunk flat head	4
01007	M6×12 Cross recessed countersunk flat head	4
01008	6 Elastic washer	10
01009	Cover board	1
01010	M6×16 Hexagon socket head cap screw	2
01011	Cooling pump block	1
01012	M20×65 Hexagon socket head cap screw	5
01013	Pipe joint	1
01014	Door	1
01015	Column	1
01016	90W Cooling pump	1
01017	Φ20×1500 PVC pipe	1
01018	Worktable	1
01019	Cover board	1
01020	Door	1
01021	Pipe joint	1
01022	M6×25 Cross recessed pan head screw	1
01023	Fixing base	1
01024	Connecting pipe	1
01025	SR301 Cooling pipe	1
01026	Cover board	1
01027	M8×25 Hexagon socket head cap screw	1
01028	Cover	1
01029	Oil gauge	2

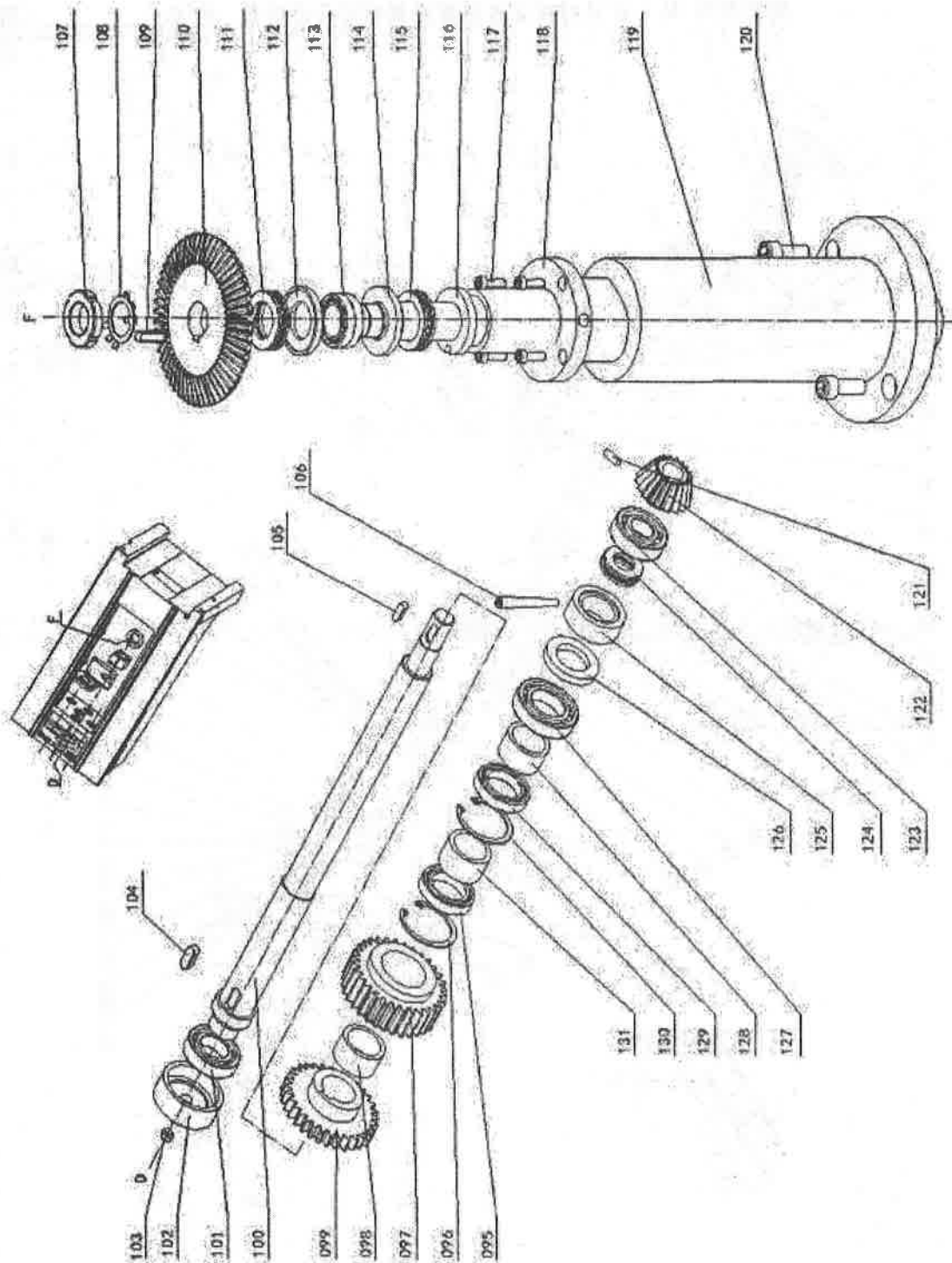
02 Knee Part



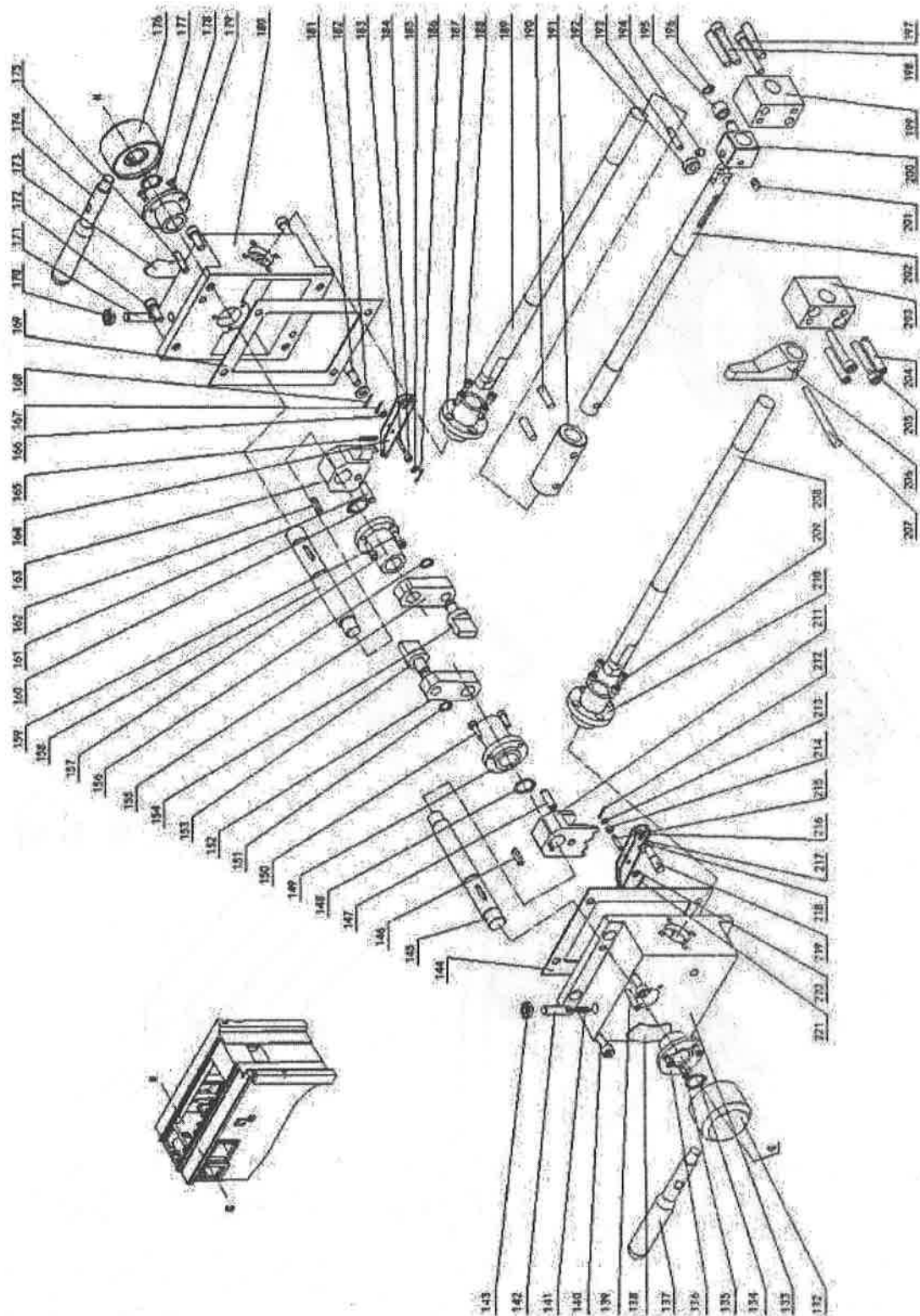
02 Knee Part



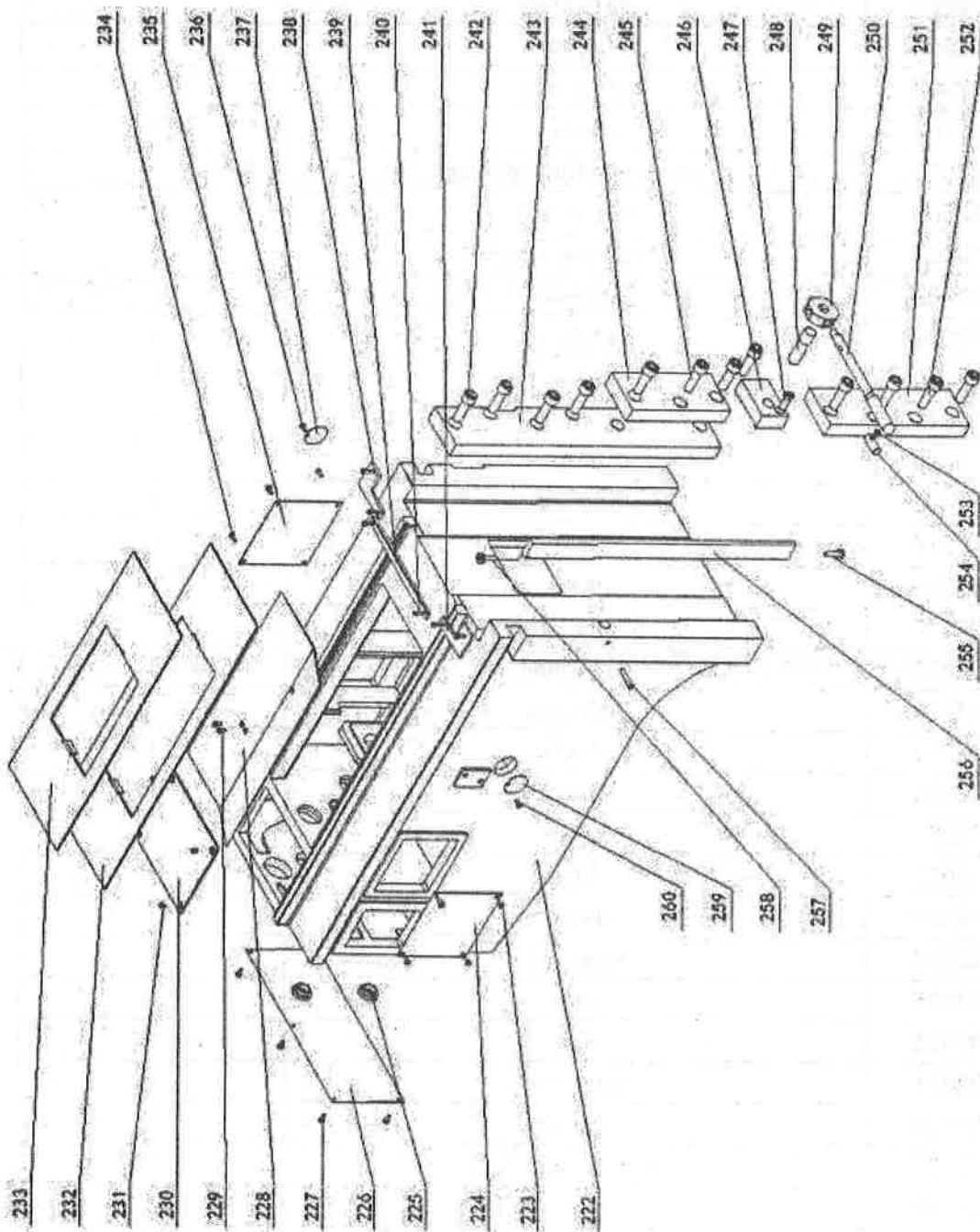
02 Knee Part



02 Knee Part



02 Knee Part



02 Knee Part

No.	Name	Qty
02001	setscrew	1
02002	grip	1
02003	grip pin	1
02004	clutch	1
02005	compression spring	1
02006	pin shaft	1
02007	blocking cover	1
02008	crank	1
02009	setscrew	2
02010	cover	1
02011	clutch	1
02012	dial	1
02013	screw	4
02014	key	1
02015	key	1
02016	spline shaft	1
02017	oil seal	1
02018	bearing	1
02019	shaft	1
02020	gear	1
02021	gear	1
02022	key	1
02023	spacer	1
02024	bearing	1
02025	gear	1
02026	key	1
02027	bearing	1
02028	spacer	1
02029	retaining ring	1
02030	bearing	1
02031	bearing	1
02032	spacer	1
02033	Synchronous belt	1
02034	spacer	1
02035	flat mat	1
02036	screw	1

02 Knee Part

No.	Name	Qty
02037	spring washer	1
02038	pulley	1
02039	spacer	1
02040	flat mat	1
02041	screw	1
02042	pulley	1
02043	shaft	2
02044	screw	2
02045	seat plate	1
02046	flat mat	4
02047	screw	4
02048	key	1
02049	servo motor	1
02050	bearing house	1
02051	screw	4
02052	compression spring	1
02053	setscrew	2
02054	clutch	1
02055	needle roller bearing	2
02056	key	1
02057	handle	1
02058	compression screw	1
02059	handwheel	1
02060	screw	4
02061	bearing house	1
02062	bearing	1
02063	retaining ring	1
02064	key	1
02065	spline shaft	1
02066	gear	1
02067	spacer	1
02068	gear	1
02069	sleeve	1
02070	bearing	1
02071	spacer	1
02072	setscrew	1

02 Knee Part

No.	Name	Qty
02073	bearing house	1
02074	bearing	1
02075	key	3
02076	gear	1
02077	gear	1
02078	gear	1
02079	bearing	1
02080	bearing house	1
02081	shaft	1
02082	oil seal	1
02083	bearing	1
02084	gear	1
02085	spacer	1
02086	bearing	1
02087	bearing house	1
02088	screw	4
02089	spacer	1
02090	dial	1
02091	clutch	1
02092	setscrew	1
02093	cover	1
02094	spline shaft	1
02095	bearing	1
02096	retaining ring	1
02097	gear	1
02098	sleeve	1
02099	gear	1
02100	shaft	1
02101	bearing	1
02102	bearing house	1
02103	setscrew	1
02104	key	1
02105	key	1
02106	taper pin	1
02107	round nut	1
02108	check out the gasket	1

02 Knee Part

No.	Name	Qty
02109	key	1
02110	gear	1
02111	bearing	1
02112	spacer	1
02113	needle roller bearing	1
02114	spacer	1
02115	bearing	1
02116	lead screw	1
02117	screw	4
02118	nut	1
02119	column	1
02120	screw	2
02121	setscrew	1
02122	gear	1
02123	bearing	1
02124	bearing	1
02125	sleeve	1
02126	oil seal	1
02127	bearing	1
02128	sleeve	1
02129	bearing	1
02130	retaining ring	1
02131	sleeve	1
02132	handle boss	1
02133	enclosure	1
02134	retaining ring	1
02135	screw	3
02136	shaft sleeve	1
02137	handle	1
02138	signage	1
02139	taper pin	2
02140	screw	4
02141	stretching the spring	1
02142	shaft	1
02143	thin nut	1
02144	gasket	1

02 Knee Part

No.	Name	Qty
02145	shaft	1
02146	key	1
02147	cylindrical pin	1
02148	retaining ring	1
02149	shaft sleeve	1
02150	screw	3
02151	retaining ring	1
02152	swing arm	1
02153	dial the piece	1
02154	dial the piece	1
02155	swing arm	1
02156	retaining ring	1
02157	shaft sleeve	1
02158	shaft	1
02159	screw	3
02160	retaining ring	1
02161	cylindrical pin	1
02162	key	1
02163	dial the piece	1
02164	supporting plate	1
02165	stretching the spring	1
02166	flat mat	1
02167	cotter pin	1
02168	cotter pin	1
02169	gasket	1
02170	thin nut	1
02171	shaft	1
02172	screw	4
02173	signage	1
02174	handle	1
02175	taper pin	2
02176	handle boss	1
02177	retaining ring	1
02178	screw	3
02179	shaft sleeve	1
02180	enclosure	1

02 Knee Part

No.	Name	Qty
02181	shaft	1
02182	flat mat	1
02183	shaft	1
02184	roller	1
02185	flat mat	1
02186	cotter pin	1
02187	shaft sleeve	1
02188	screw	4
02189	shaft	1
02190	taper pin	2
02191	shaft sleeve	1
02192	roller	1
02193	cylindrical pin	1
02194	setscrew	1
02195	roller	1
02196	retaining ring	1
02197	taper pin	2
02198	screw	2
02199	support block	1
02200	support block	1
02201	setscrew	1
02202	shaft	1
02203	support block	1
02204	taper pin	2
02205	screw	2
02206	swing arm	1
02207	taper pin	1
02208	shaft	1
02209	screw	4
02210	shaft sleeve	1
02211	dial the piece	1
02212	cotter pin	1
02213	flat mat	1
02214	roller	1
02215	shaft	1
02216	stretching the spring	1

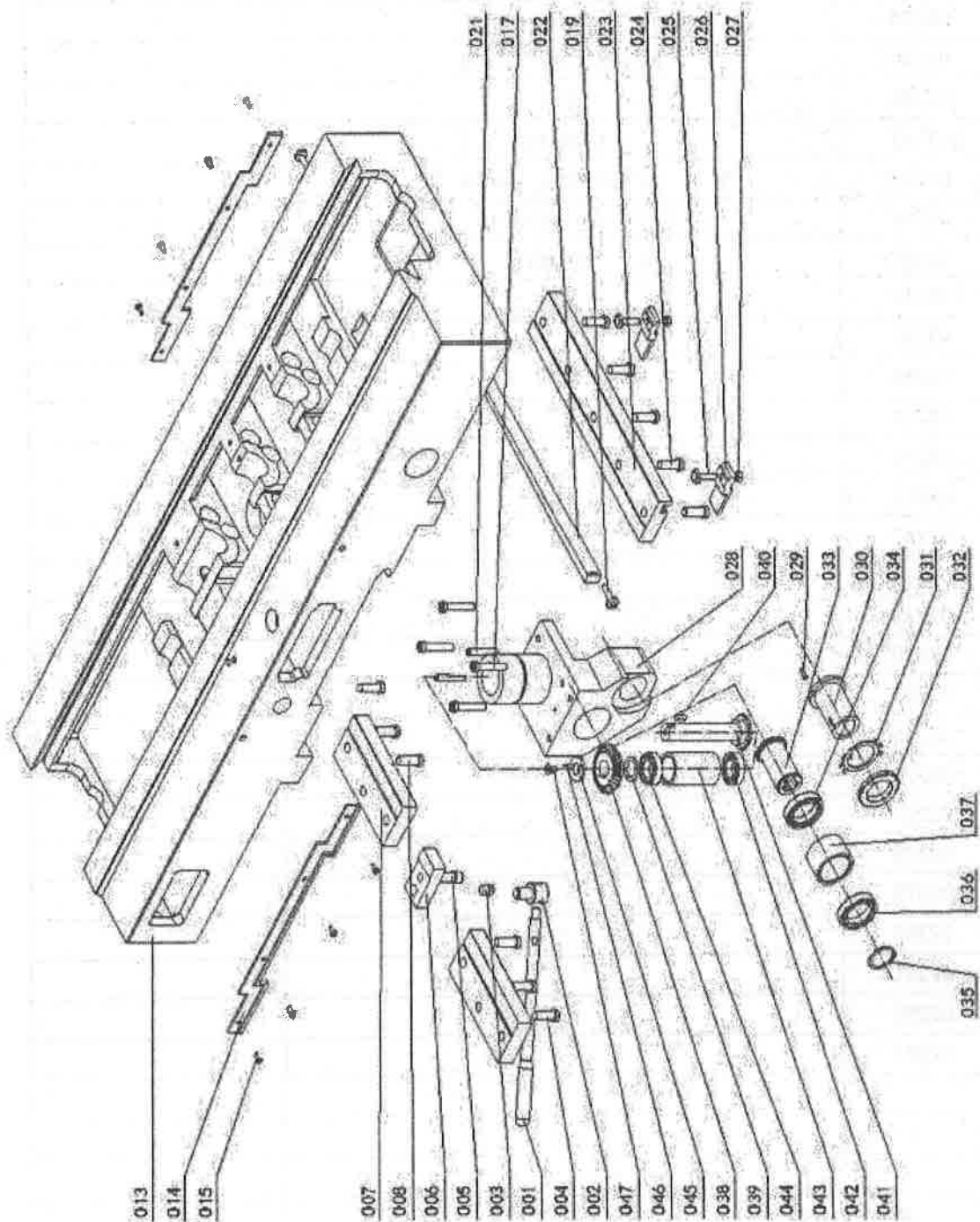
02 Knee Part

No.	Name	Qty
02217	cotter pin	1
02218	flat mat	1
02219	shaft	1
02220	flat mat	1
02221	cotter pin	1
02222	knee	1
02223	screw	4
02224	cover plate	1
02225	oil window	2
02226	cover plate	1
02227	screw	5
02228	cover plate	1
02229	screw	2
02230	cover plate	1
02231	screw	4
02232	chip cover	1
02233	chip cover	1
02234	screw	4
02235	cover plate	1
02236	screw	1
02237	cover plate	1
02238	chip cover	1
02239	chip cover	1
02240	screw	6
02241	chip cover	1
02242	screw	5
02243	pressure plate	1
02244	pressure plate	1
02245	screw	3
02246	pressure plate	1
02247	screw	1
02248	shaft	1
02249	threaded sleeve	1
02250	handle	1
02251	pressure plate	1
02252	screw	4

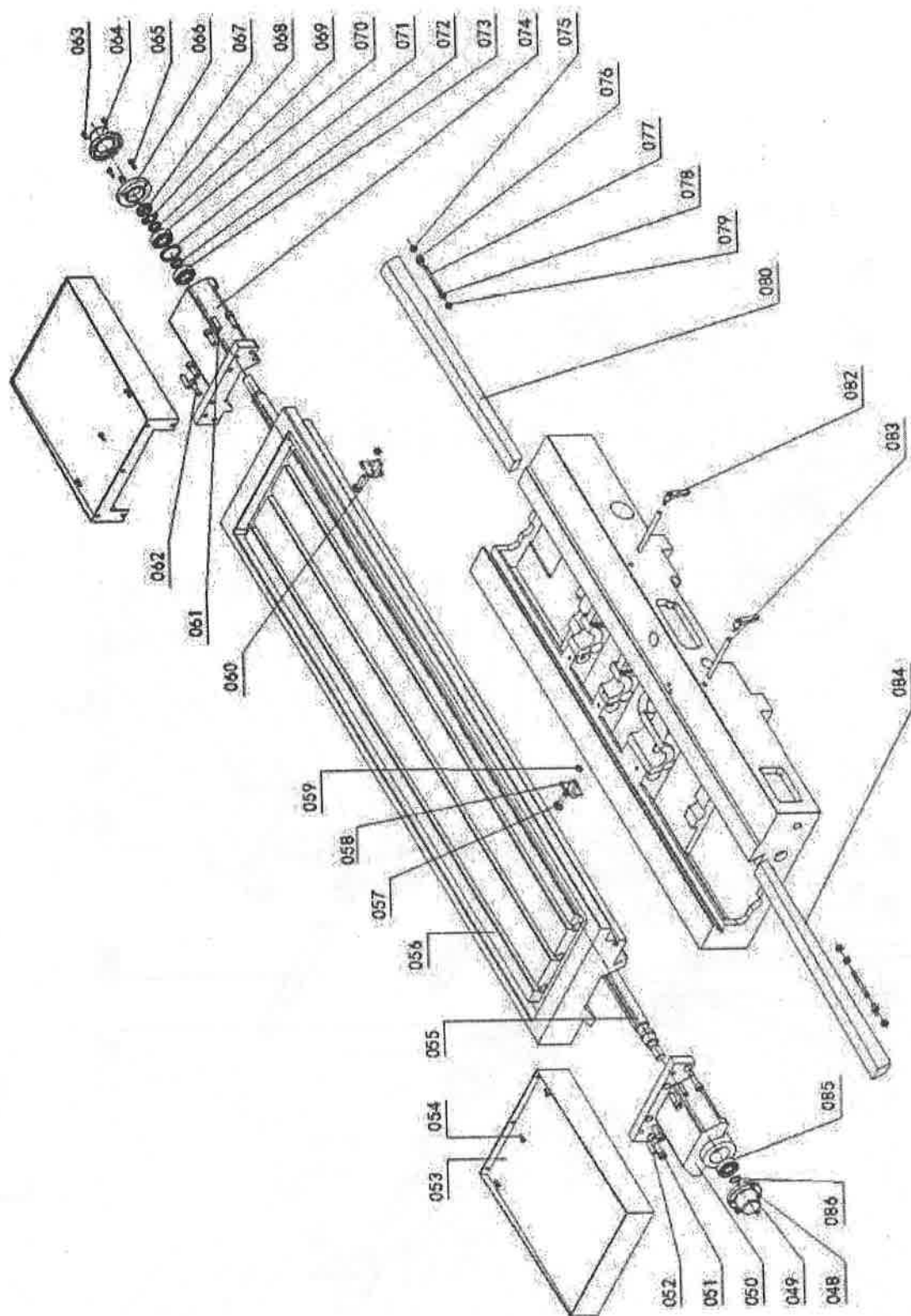
02 Knee Part

No.	Name	Qty
02253	screw	1
02254	stopper	1
02255	adjusting screw	1
02256	gib	1
02257	taper pin	1
02258	adjusting screw	1
02259	cover plate	1
02260	screw	1
02261		
02262		
02263		
02264		
02265		
02266		
02267		
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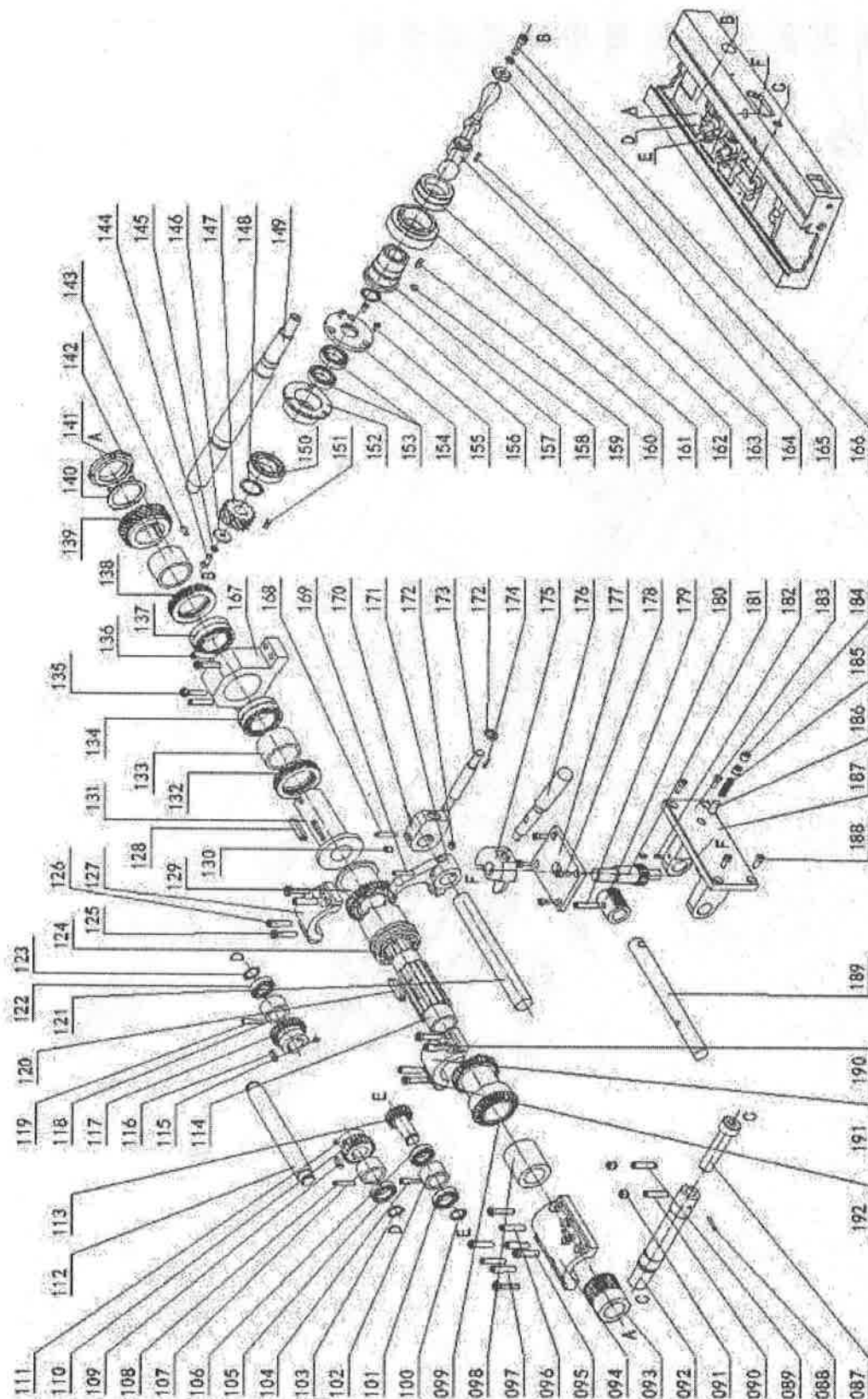
03 Table Part



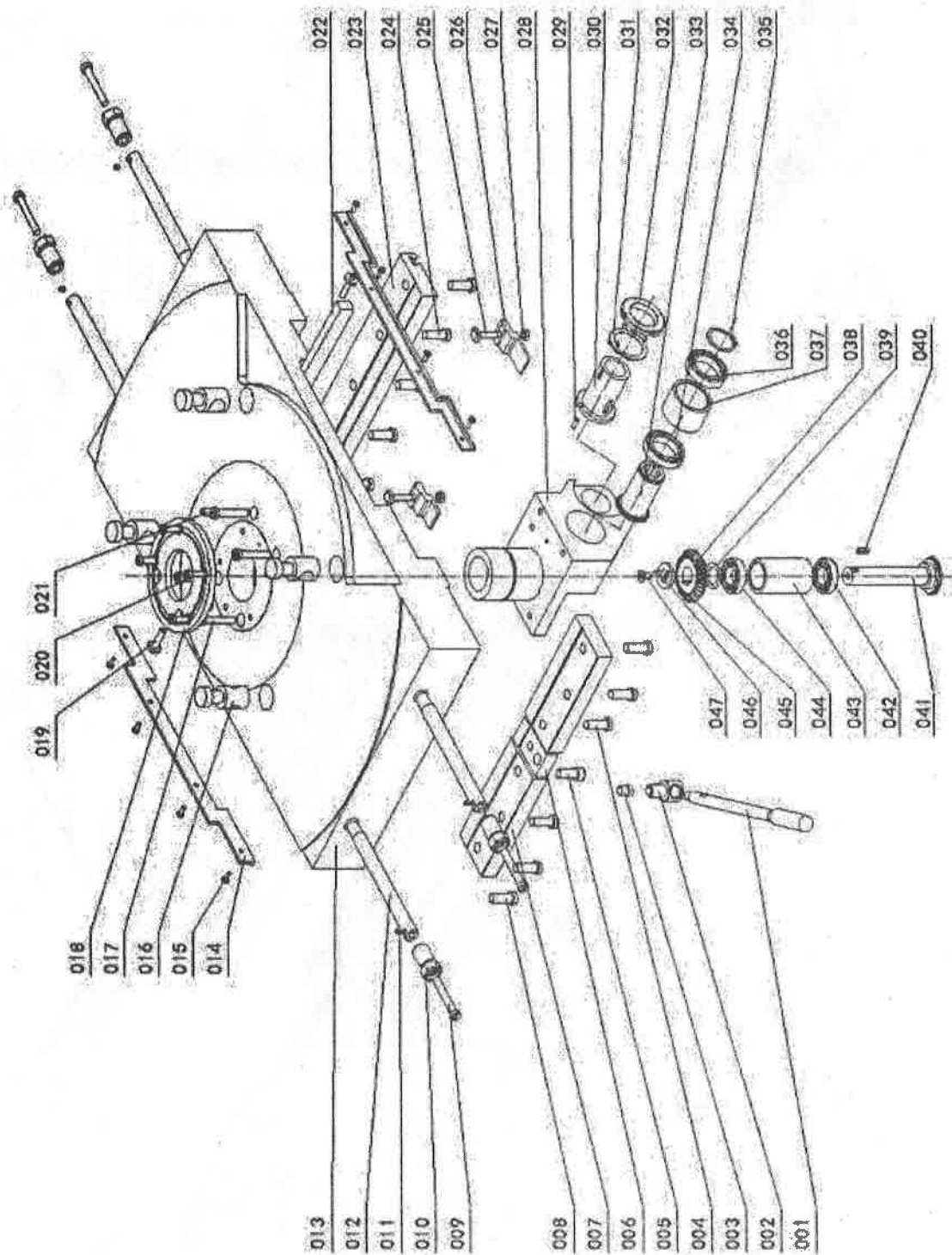
03 Table Part



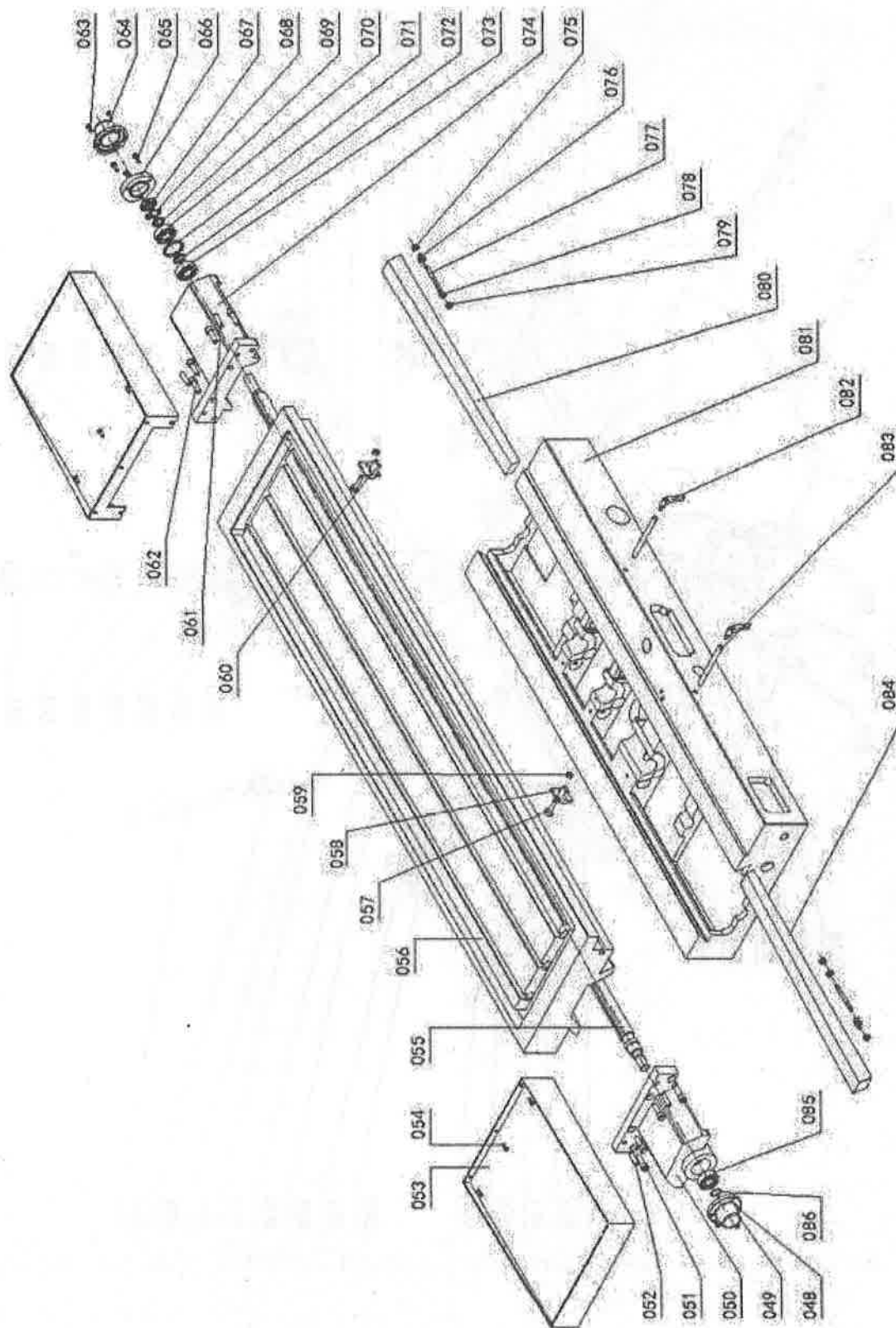
03 Table Part



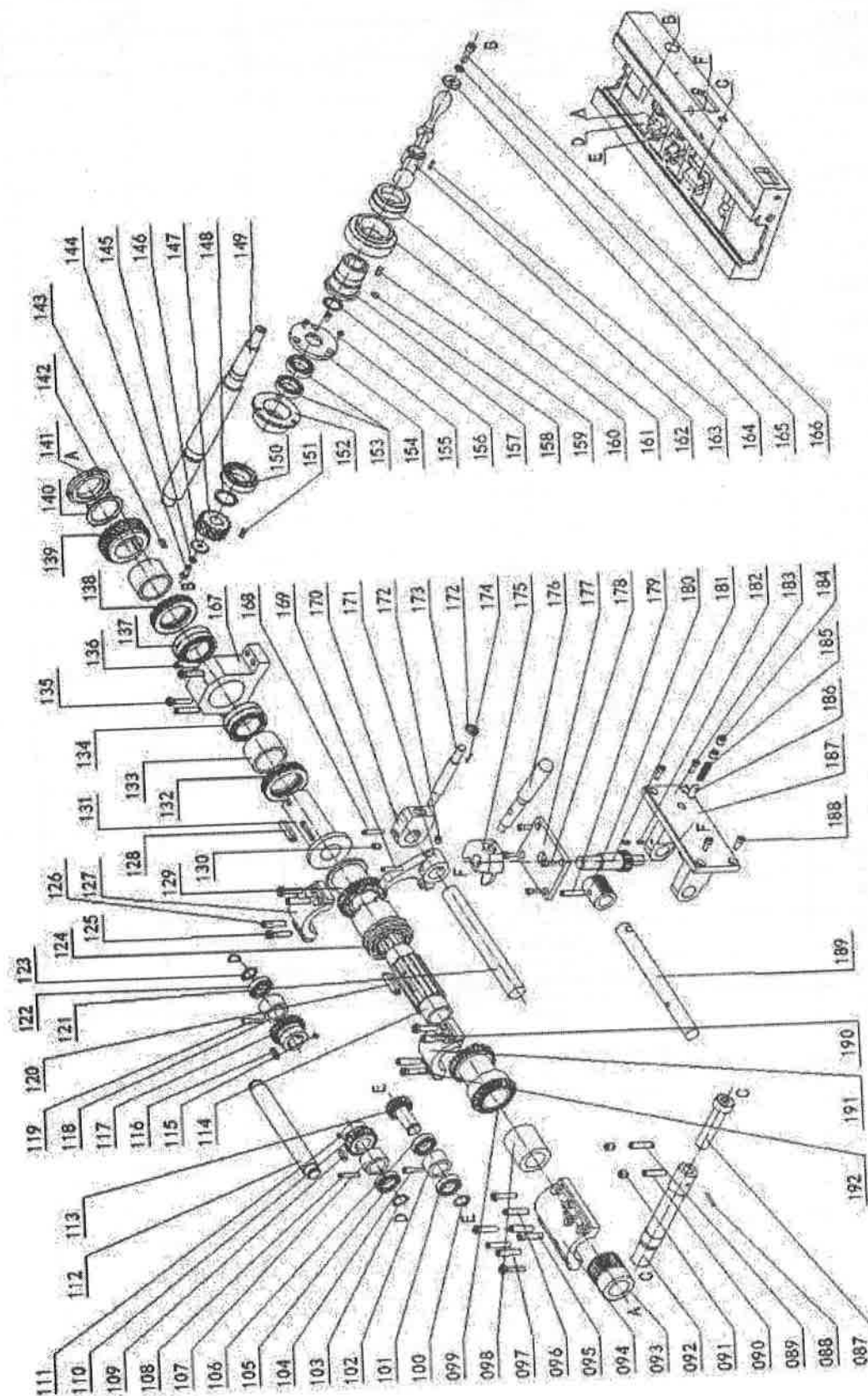
03 Table Part (swivel)



03 Table Part (swivel)



03 Table Part (swivel)



03 Table Part

No.	Name	Qty
03001	handle	1
03002	clamp bolt	1
03003	pin	1
03004	screw	1
03005	screw	3
03006	pressure plate	1
03007	pressure plate	2
03008	screw	3
03009	screw	4
03010	screw	4
03011	setscrew	4
03012	bar	4
03013	saddle	1
03014	chip cover	2
03015	screw	8
03016	chipping bolt	4
03017	screw	4
03018	positioning ring	1
03019	adjusting screw	2
03020	screw	4
03021	taper pin	2
03022	gip	1
03023	pressure plate	1
03024	screw	6
03025	screw	2
03026	collision block	2
03027	nut	2
03028	supporting bracket	1
03029	cylindrical pin	1
03030	lock nut	1
03031	lock washer	1
03032	nut	1
03033	gear	1
03034	bearing	1
03035	retaining ring	1
03036	bearing	1

03 Table Part

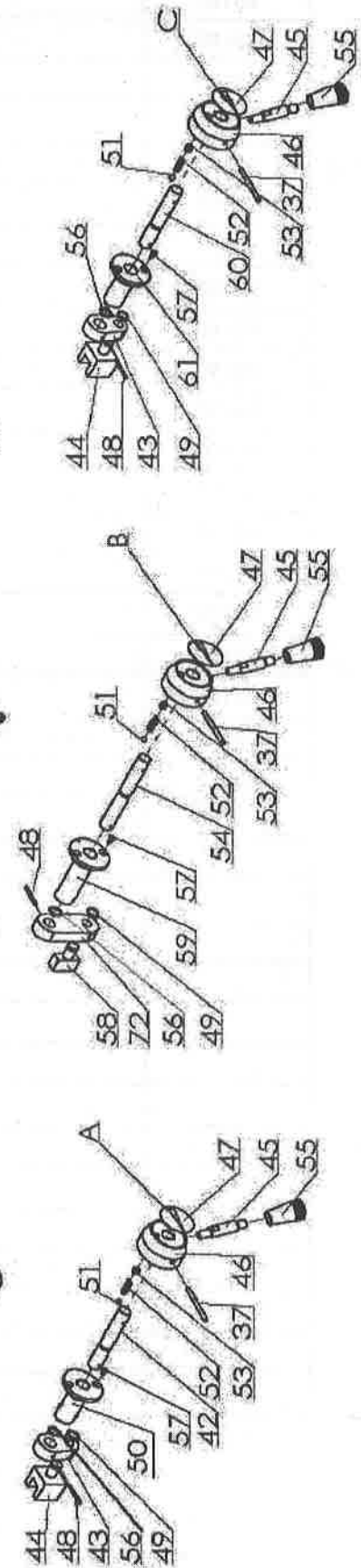
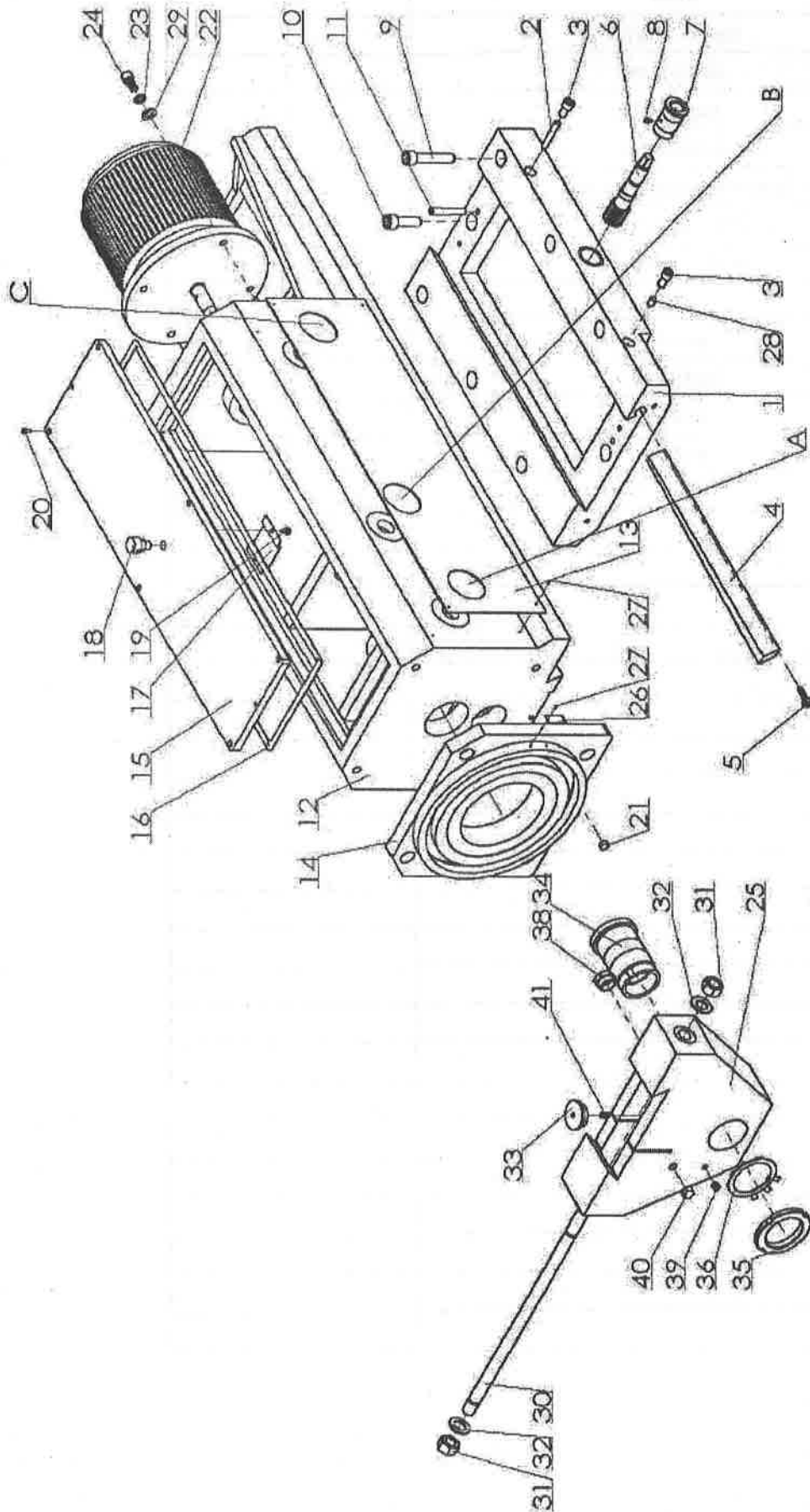
No.	Name	Qty
	sleeve	1
03037		1
03038	bevel gear	1
03039	sleeve	1
03040	key	1
03041	bevel gear	1
03042	bearing	1
03043	sleeve	1
03044	bearing	1
03045	washer	1
03046	cylindrical pin	1
03047	screw	3
03048	screw	1
03049	end cover	1
03050	left supporting bracket	4
03051	screw	2
03052	taper pin	2
03053	cover	8
03054	screw	1
03055	lead screw	1
03056	table	2
03057	screw	1
03058	collision block	2
03059	nut	1
03060	collision block	1
03061	bearing house	2
03062	taper pin	3
03063	screw	1
03064	end cover	3
03065	screw	1
03066	cover	1
03067	lock nut	1
03068	lock washer	1
03069	washer	1
03070	bearing	1
03071	washer	1
03072	washer	1

03 Table Part

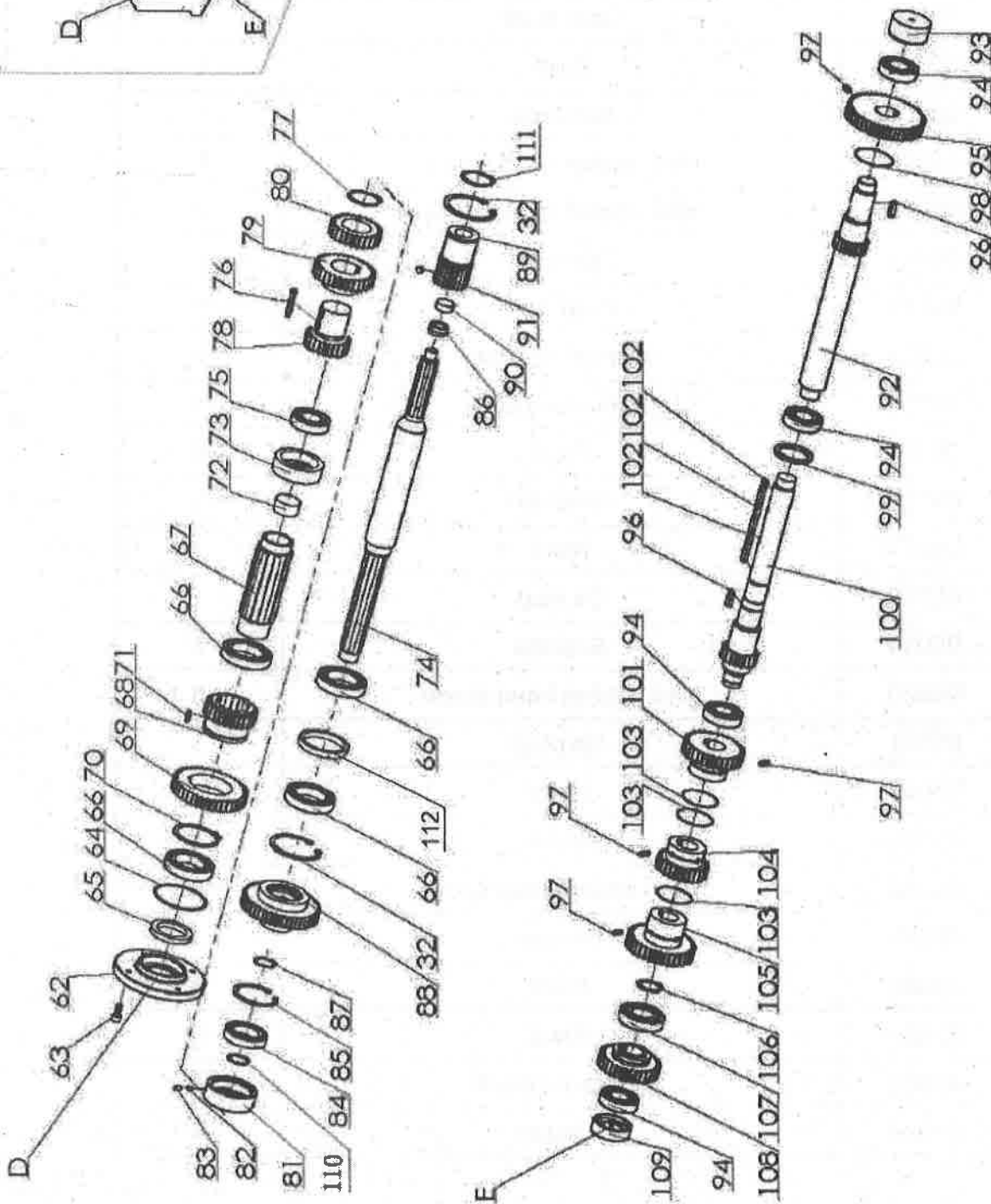
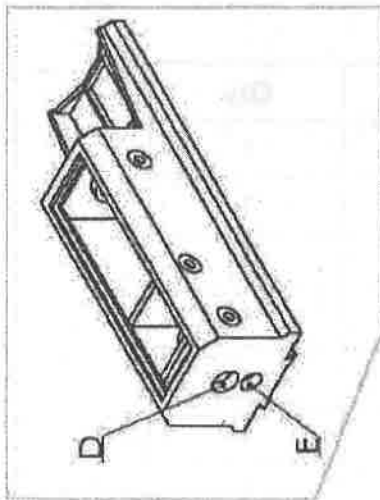
No.	Name	Qty
03145	washer	1
03146	washer	1
03147	gear	1
03148	retaining ring	1
03149	shaft	1
03150	bearing	1
03151	key	1
03152	bearing house	1
03153	bearing	2
03154	cover	1
03155	screw	3
03156	retaining ring	1
03157	bush	1
03158	setscrew	1
03159	key	1
03160	dial	1
03161	nut	1
03162	handle	1
03163	key	1
03164	washer	1
03165	washer	1
03166	screw	1
03167	boss	1
03168	taper pin	1
03169	taper pin	1
03170	bolck	1
03171	shifter	1
03172	setscrew	1
03173	shaft	1
03174	cotter pin	1
03175	handle boss	1
03176	handle	1
03177	pressure plate	1
03178	screw	4
03179	taper pin	1
03180	sleeve	1

[illegible]

05 Ram Part



05 Ram Part



05 Ram part

N0.	Name	Qty
05001	Plate	1
05002	Pressure block	1
05003	Hex. socket head bolt	2
05004	Gib	1
05005	Adjusting screw	1
05006	Gear shaft	1
05007	Bush	1
05008	Setscrew	1
05009	Hex. socket head screw	6
05010	Hex. socket head screw	2
05011	Taper pin	2
05012	Gear box	1
05013	Aluminium plate	1
05014	Connecting plate	1
05015	Plate	1
05016	Washer	1
05017	Plate	1
05018	Oil plug	1
05019	Setcrew	2
05020	Hex. socket head screw	6
05021	Oil plug	1
05022	Motor	1
05023	Washer	4
05024	Hex. socket head screw	4
05025	Hanger	1
05026	Point	1
05027	Rivet	8
05028	Pressure block	1
05029	Washer	4

05 Ram part

NO.	Name	Qty
05030	Bolt	1
05031	Nut	2
05032	Washer	2
05033	Cover	1
05034	Sleeve	1
05035	Lock nut	1
05036	Lock washer	1
05037	Taper pin	3
05038	Oil gauge	1
05039	Oil plug	1
05040	Oil plug	1
05041	Caddice	1
05042	Shaft	1
05043	Rocker	2
05044	Shifter	2
05045	Lever	3
05046	Handle boss	3
05047	Indicator plate	3
05048	Taper pin	3
05049	Shaft retaining ring	3
05050	Sleeve	1
05051	Steel ball	3
05052	Spring	3
05053	Setscrew	3
05054	Shaft	1
05055	handle	3
05056	O-ring	3
05057	Screw	6
05058	Shifter	1

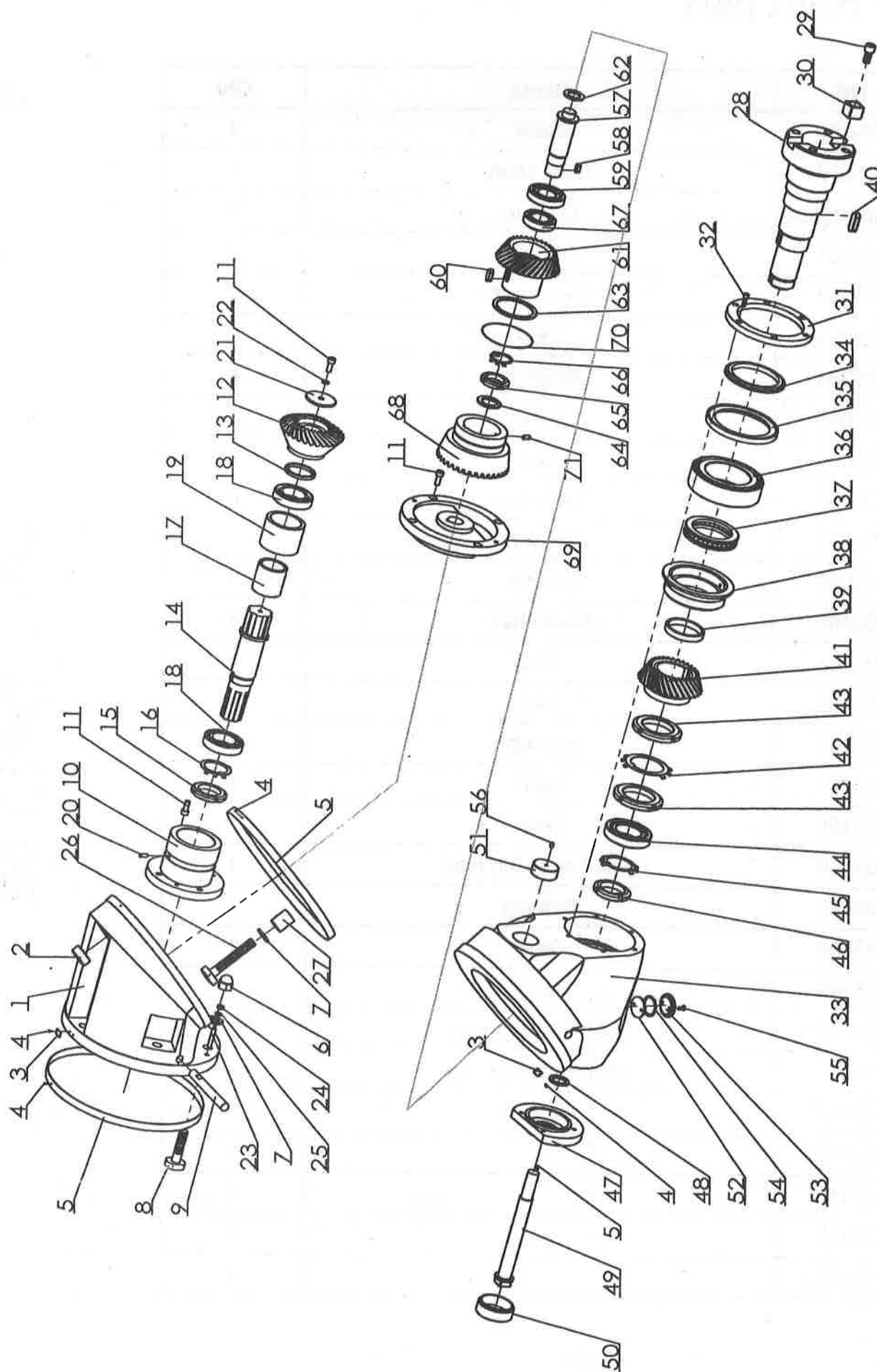
05 Ram part

N0.	Name	Qty
05059	Sleeve	1
05060	Shaft	1
05061	Sleeve	1
05062	Cover	1
05063	Hex. socket head screw	4
05064	O-ring	1
05065	Oil seal	1
05066	bearing	4
05067	Spline sleeve	1
05068	Gear	1
05069	Gear	1
05070	Shaft retaining ring	1
05071	Key	1
05072	Oil plug	1
05073	Bearing house	1
05074	Spline shaft	1
05075	Bearing	1
05076	Key	1
05077	Shaft retaining ring	1
05078	Gear	1
05079	Gear	1
05080	Gear	1
05081	Bush	1
05082	Setscrew	1
05083	Setscrew	1
05084	Bearing	1
05085	Retaining ring for hole	1
05086	bearing	1
05087	Shaft retaining ring	1

05 Ram part

N0.	Name	Qty
05088	Gear	1
05089	Gear shaft	1
05090	Oil plug	1
05091	Oil plug	1
05092	Gear shaft	1
05093	Plug	1
05094	Bearing	4
05095	Gear	1
05096	Key	2
05097	Setscrew	4
05098	Iron wire	1
05099	Washer	1
05100	Gear shaft	1
05101	Gear	1
05102	Key	3
05103	Iron wire	3
05104	Gear	1
05105	Gear	1
05106	Shaft retaining ring	1
05107	Bearing	1
05108	Gear	1
05109	plug	1
05110	Shaft retaining ring	1
05111	Shaft retaining ring	1
05112	Washer	1
05113		1
05114		1
05115		1
05116		1

06 Headstock Part



06 milling head part

No.	Name	Qty
06001	Rotator	1
06002	Plug	1
06003	Indicator plate	2
06004	Rivet	12
06005	Angle ruler	2
06006	Nut	7
06007	Washer	5
06008	Bolt for T-slot	2
06009	Lever	2
06010	Base	1
06011	Screw	9
06012	Helix gear	1
06013	Washer	1
06014	Spline shaft	1
06015	Nut	1
06016	Lock washer	1
06017	Bush	1
06018	Bearing	2
06019	Bush	1
06020	Taper pin	2
06021	Washer	1
06022	Washer	1
06023	Taper pin	2
06024	Nut	2
06025	Washer	2
06026	Bolt for T-slot	2
06027	Nut	2
06028	Spindle	1
06029	Screw	2

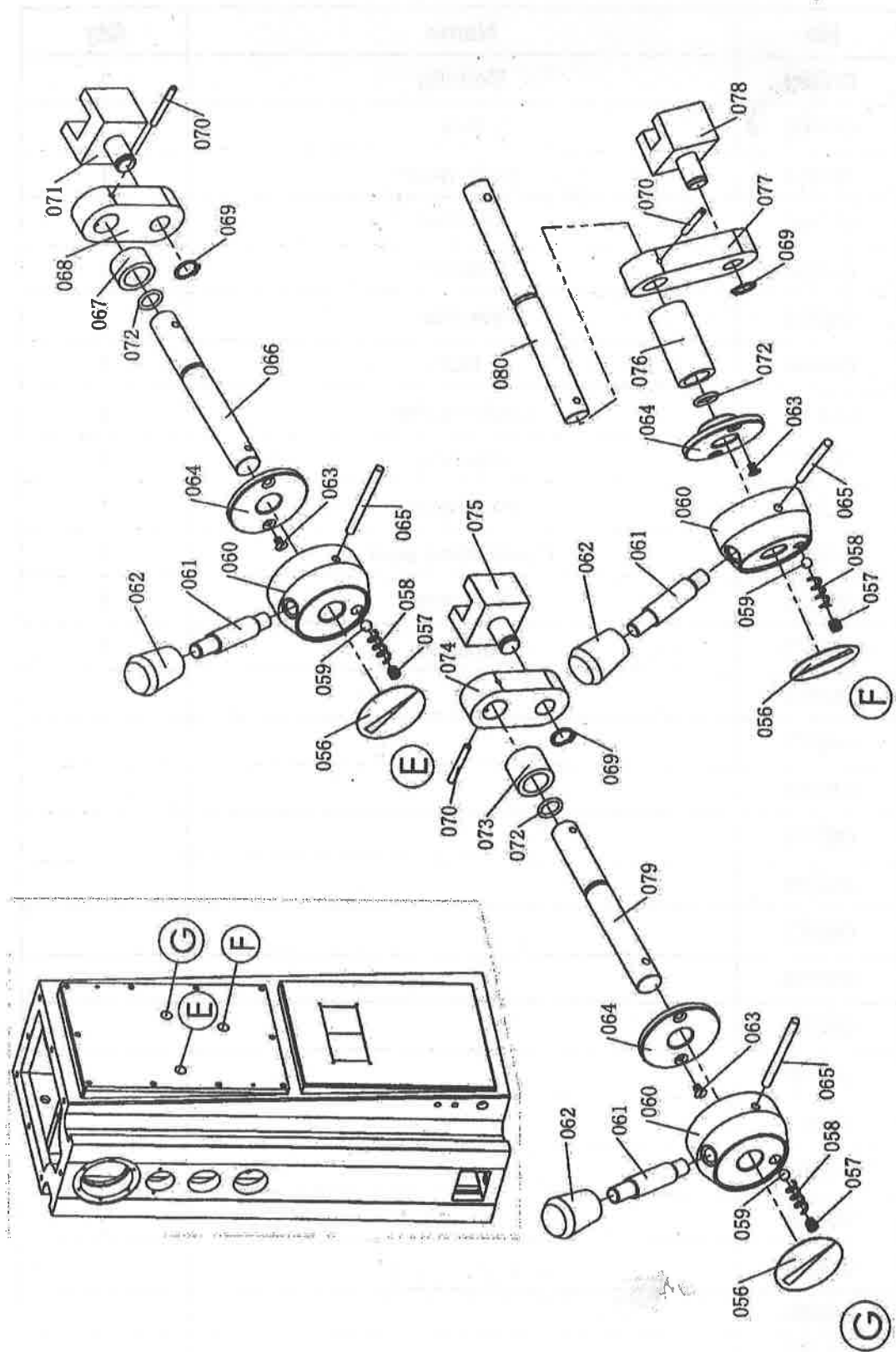
06 milling head part

No.	Name	Qty
06030	Key	2
06031	Cover	1
06032	Screw	6
06033	Headstock	1
06034	Collar	1
06035	Collar	1
06036	Bearing	1
06037	Bearing	1
06038	Bearing sleeve	1
06039	Collar	1
06040	Key	1
06041	Helix gear	1
06042	Lock washer	1
06043	Nut	2
06044	Bearing	1
06045	Lock washer	1
06046	Nut	1
06047	Cover	1
06048	Washer	2
06049	Drawing bolt	1
06050	Cover	1
06051	Plug	1
06052	Cover	1
06053	Cover	1
06054	O-ring	1
06055	screw	2
06056	Setscrew	1
06057	Shaft	1
06058	Key	1

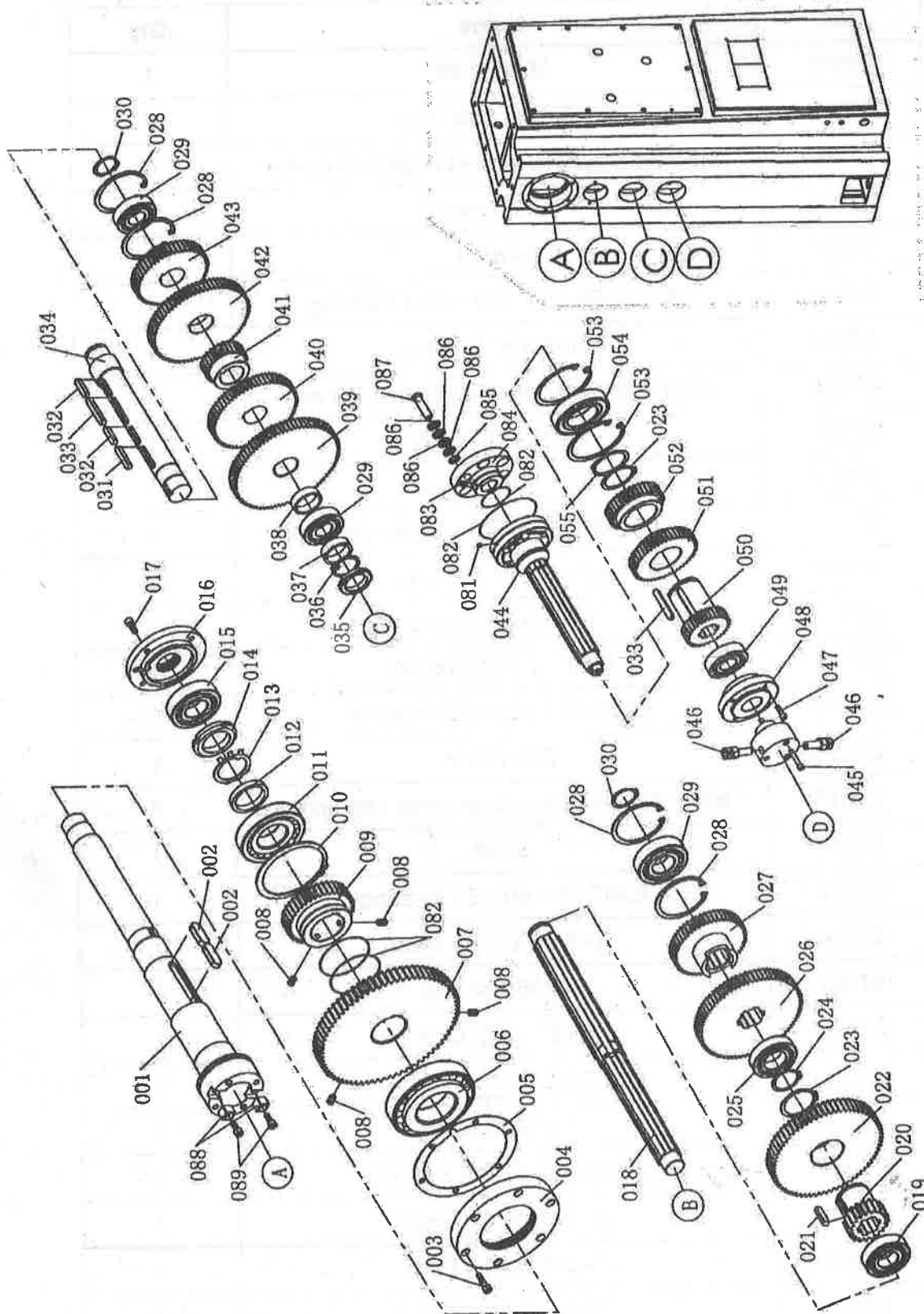
06 milling head part

No.	Name	Qty
06059	Bearing	1
06060	Key	1
06061	Helix gear	1
06062	Washer	1
06063	Washer	1
06064	Washer	1
06065	Nut	1
06066	Lock washer	1
06067	Bearing	1
06068	Helix gear	1
06069	Connecting seat	1
06070	Iron wire	1
06071	Setscrew	1
06072		
06073		
06074		
06075		
06076		
06077		
06078		
06079		
06080		
06081		
06082		
06083		
06084		
06085		
06086		
06087		

07 Horizontal transmission part



07 Horizontal transmission part



07 Horizontal milling transmission part

No.	Name	Qty
07001	Main shaft	1
07002	16×50 Flat key	2
07003	M8×30 Hexagon socket head cap screw	6
07004	End cover	1
07005	Gasket	1
07006	32217/P5 85×150×38.5 Bearing	1
07007	m=3.5 z=71 Gear	1
07008	M10×16 Setscrew with slotted flat end	4
07009	m=3 z=39 Gear	1
07010	120 Elastic collar	1
07011	30311/P5 55×120×29 Bearing	1
07012	68×55.2×10 Pad	1
07013	52 Check washer	1
07014	M52×1.5 Round nut	1
07015	6309 45×100×25 Bearing	1
07016	End cover	1
07017	M8×20 Hexagon socket head cap screw	6
07018	Shaft	1
07019	6307 35×80×21 Bearing	1
07020	m=3.5 z=19 Gear	1
07021	10×36 Flat key	1
07022	m=3 z=66 Gear	1
07023	58 Elastic collar	2
07024	45 Elastic collar	1
07025	T6209 45×85×19 Bearing	1
07026	m=2.5 z=73 Gear	1
07027	m=2.5 z=51 Gear	1
07028	90 Elastic collar	4
07029	40×90×23 Bearing	3

07 Horizontal milling transmission part

No.	Name	Qty
07030	40 Elastic collar	2
07031	10×50 Flat key	1
07032	10×40 Flat key	2
07033	10×63 Flat key	2
07034	Shaft	1
07035	M40×1.5 Round nut	1
07036	40 Check washer	1
07037	50×40.2×14 Pad	1
07038	50×42.2×14 Pad	1
07039	m=2.5 z=77 Gear	1
07040	m=2.5 z=62 Gear	1
07041	m=2.5 z=29 Gear	1
07042	m=2.5 z=70 Gear	1
07043	m=2.5 z=51 Gear	1
07044	Shaft	1
07045	M6×35 Hexagon socket head cap screw	3
07046	Pipe joint	2
07047	M6×20 Hexagon socket head cap screw	4
07048	Connecting seat	1
07049	30×72×19 Bearing	1
07050	m=2.5 z=31 Gear	1
07051	m=2.5 z=46 Gear	1
07052	m=2.5 z=38 Gear	1
07053	100 Elastic collar	2
07054	6211-2RS 55×100×21 Bearing	1
07055	60 Elastic collar	1
07056	Indicator	3
07057	M10×10 Setscrew with slotted flat end	3
07058	1.6×8×25 Pressure spring	3

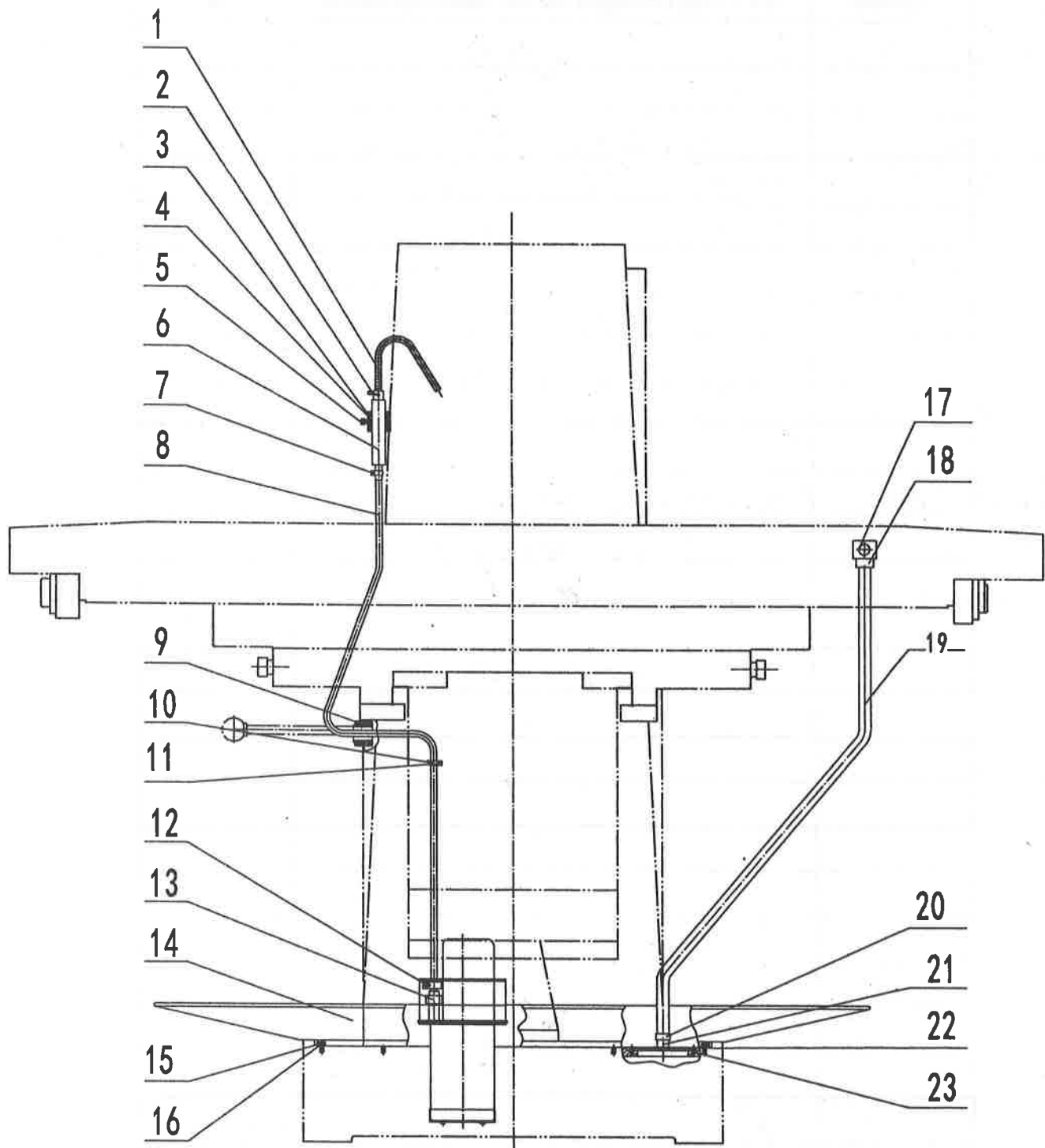
07 Horizontal milling transmission part

No.	Name	Qty
07059	8 Steel ball	3
07060	Hand seat	3
07061	Hand lever	3
07062	M12×60 Taper knob	3
07063	M5×10 Slotted countersunk flat head screw	6
07064	Sleeve	3
07065	6×70 Taper bolt	3
07066	Shaft	1
07067	30×20.5×16 Distance sleeve	3
07068	Connector	1
07069	16 Elastic collar	3
07070	4×40 Taper bolt	3
07071	Shifting fork	1
07072	15×2.65 O-ring	3
07073	30×20.5×24 Distance sleeve	1
07074	Connector	1
07075	Shifting fork	1
07076	30×20.5×58 Distance sleeve	1
07077	Connector	1
07078	Shifting fork	1
07079	Shaft	1
07080	Shaft	1
07081	M6X8 Screw	6
07082	φ 1.2 Iron wire	2
07083	M8X14 Screw	1
07084	Collar	1
07085	18×12×3 Washer	6
07086	Elastic ring	24
07087	Shaft	6

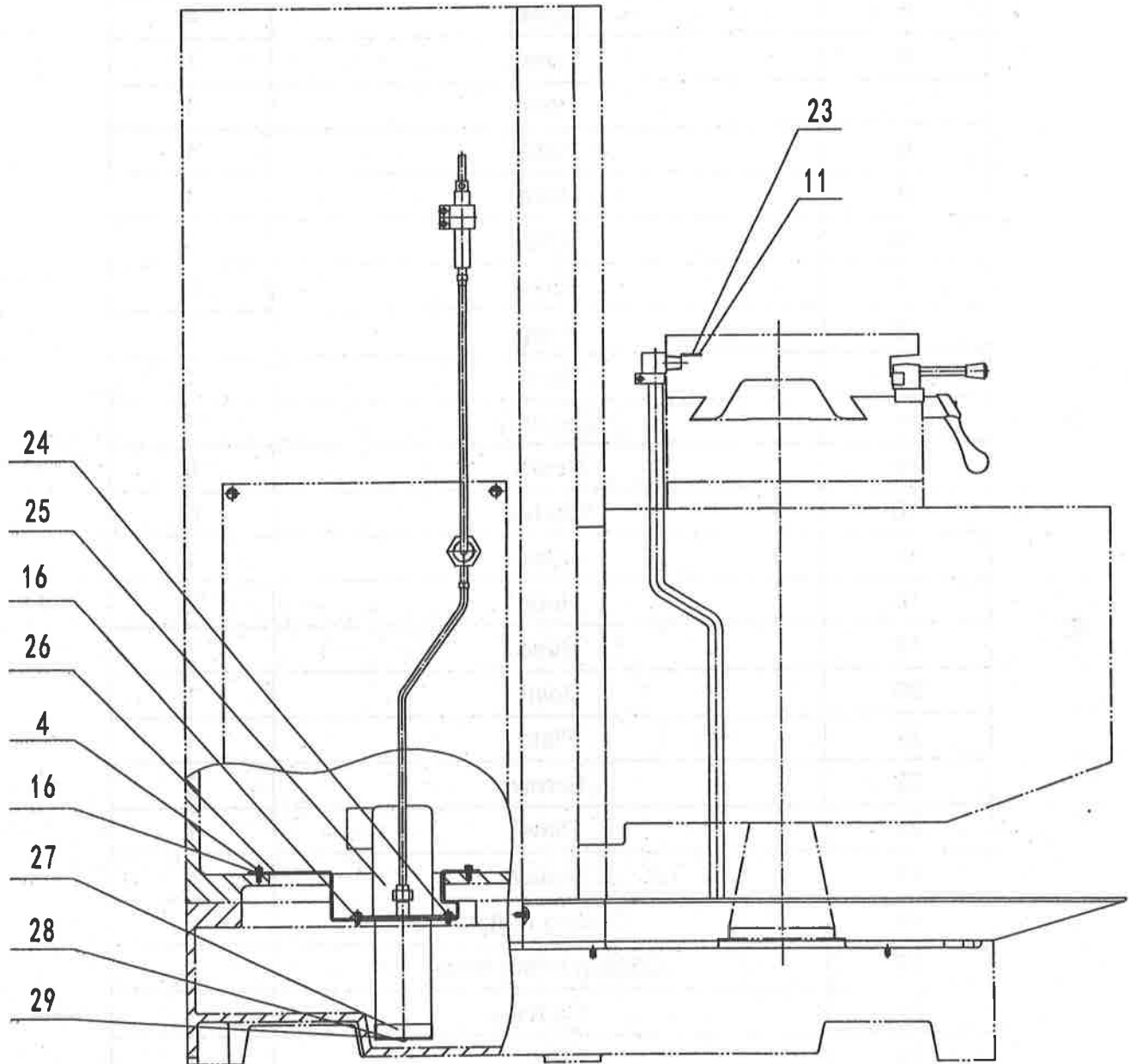
07 Horizontal milling transmission part

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09 Cooling parts



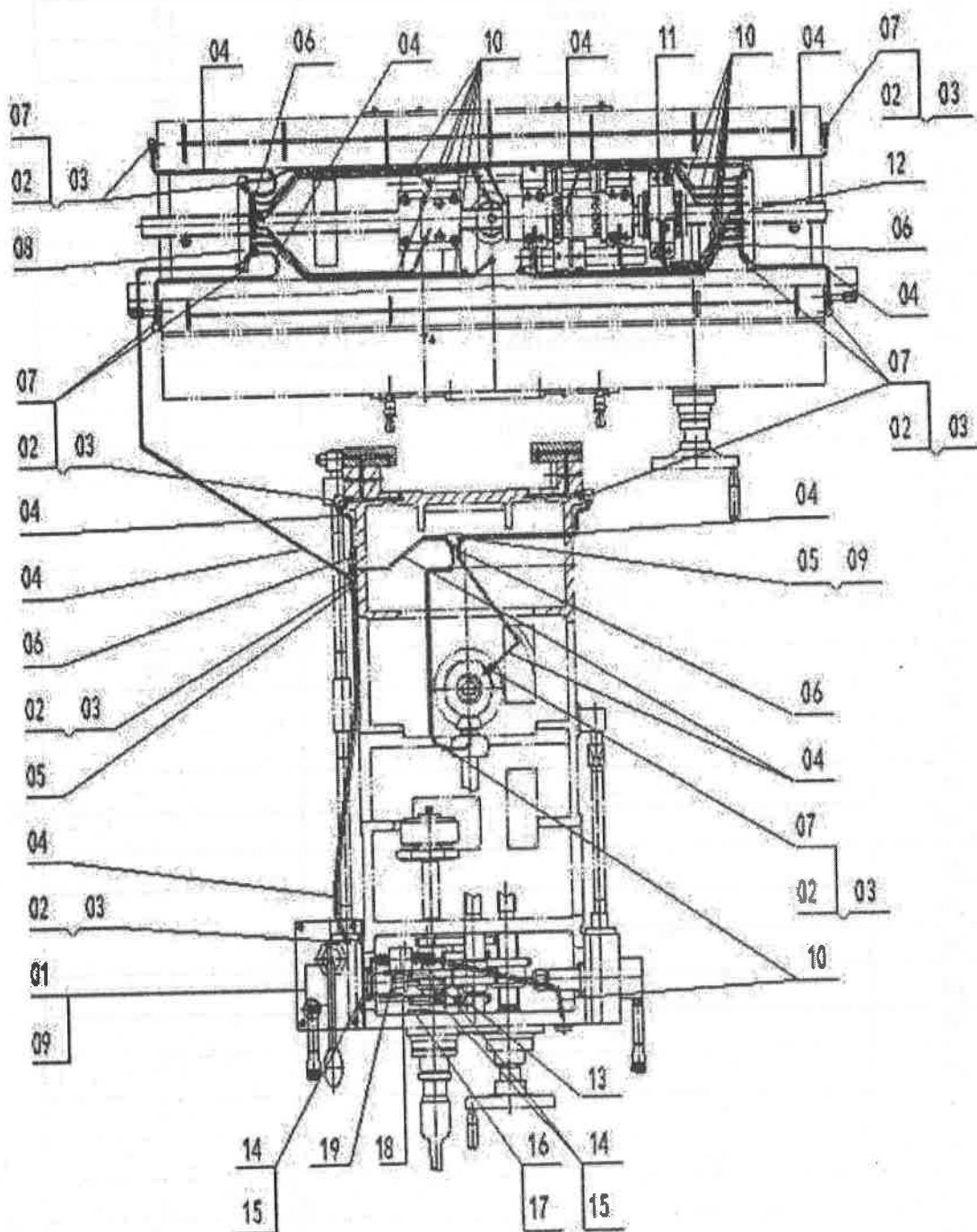
09 Cooling parts



09 Cooling & Lubricating parts

No.	Name	Qty
1	Cooling pipe	1
2	Valve	1
3	Fixed boss	1
4	Connecting pipe	1
5	Screw	4
6	Screw	1
7	Hoop	1
8	Hose	1
9	Joint	1
10	Clip	3
11	Screw	5
12	Hoop	1
13	Joint	1
14	Chip tray	1
15	Screw	8
16	Washer	13
17	Joint	1
18	Hoop	2
19	Hose	1
20	Joint	1
21	Plate	1
22	Screw	2
23	Plate	1
24	Screw	4
25	Cooling motor	1
26	Cooling motor base	1
27	Cover	1
28	Net	1
29	Screw	3

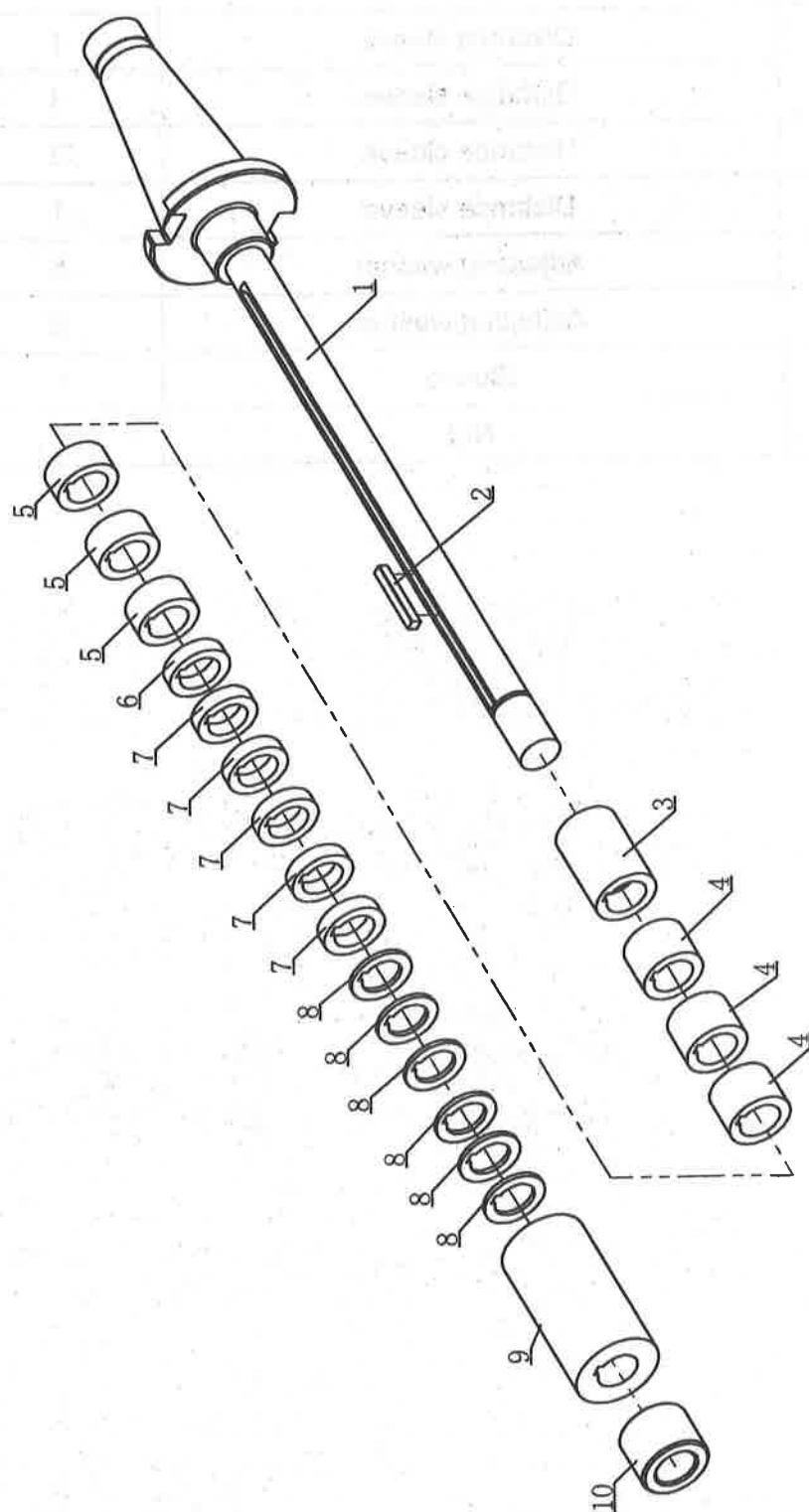
10 Lubricating Part



10 Lubricating Part

No.	Name	Qty
01	the oil pump	1
02	joint	15
03	ferrule	15
04	nylon pipe	5m
05	oil separator	1
06	gauge	21
07	right-angle joint	11
08	oil separator	1
09	screw	6
10	copper pipe	4m
11	pipe clamp	10
12	oil separator	1
13	the oil is	1
14	joint	3
15	ferrule	3
16	support	1
17	screw	2
18	copper pipe	0.3m
19	plunger pump	1
20		
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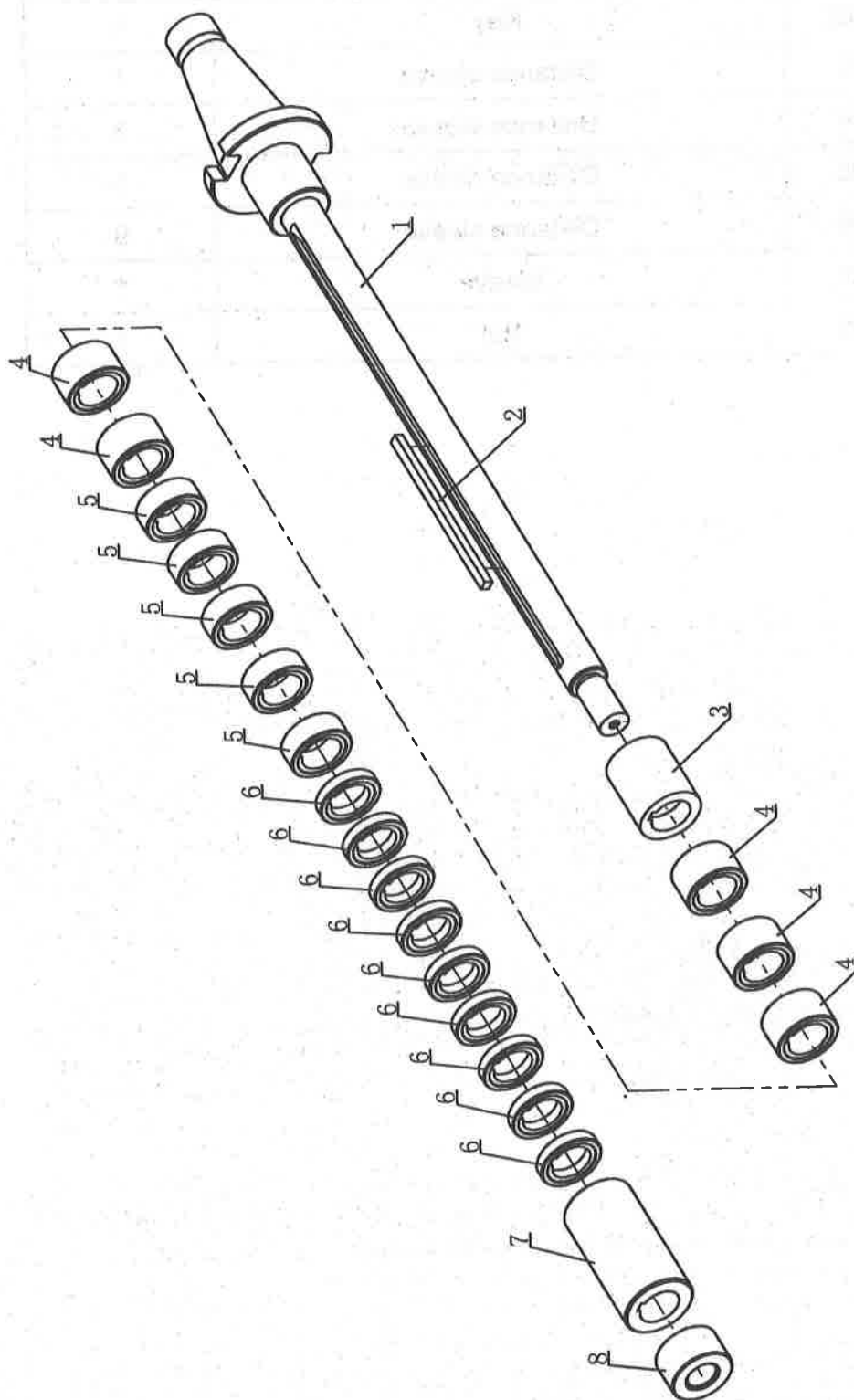
F1 Accessories Part



F1 Accessories part

No.	Name	Qty
F1001	Φ27 Cutter arbor	1
F1002	Key	1
F1003	Distance sleeve	1
F1004	Distance sleeve	3
F1005	Distance sleeve	3
F1006	Distance sleeve	1
F1007	Adjusting washer	5
F1008	Adjusting washer	6
F1009	Sleeve	1
F1010	Nut	1

F1 Accessories Part



Accessories part

No.	Name	Qty
F1001	Φ32 Cutter arbor	1
F1002	Key	1
F1003	Distance sleeve	1
F1004	Distance sleeve	5
F1005	Distance sleeve	5
F1006	Distance sleeve	9
F1007	Sleeve	1
F1008	Nut	1