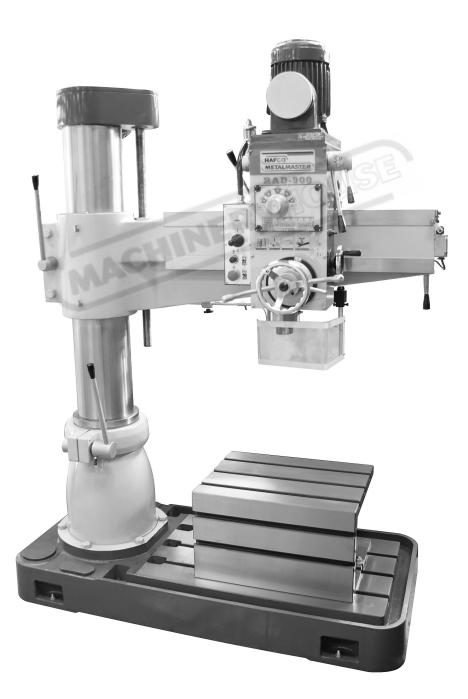
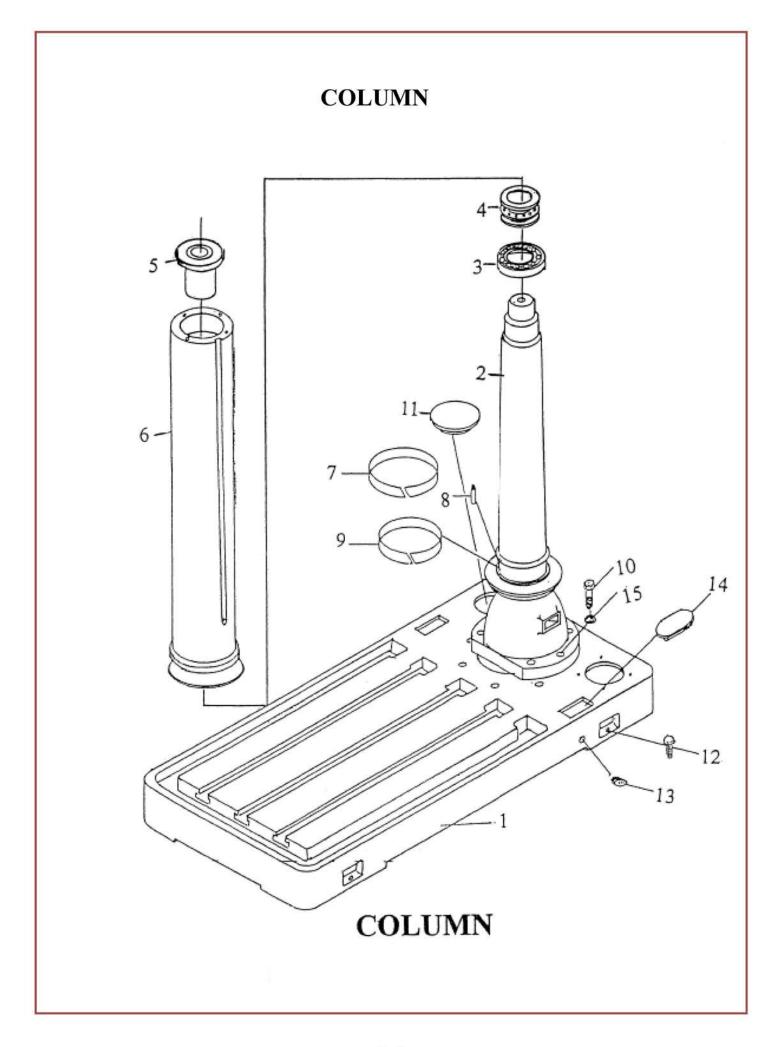
INSTRUCTION MANUAL

RAD-900 Radial Arm Drill (415V) 38mm Drilling Capacity



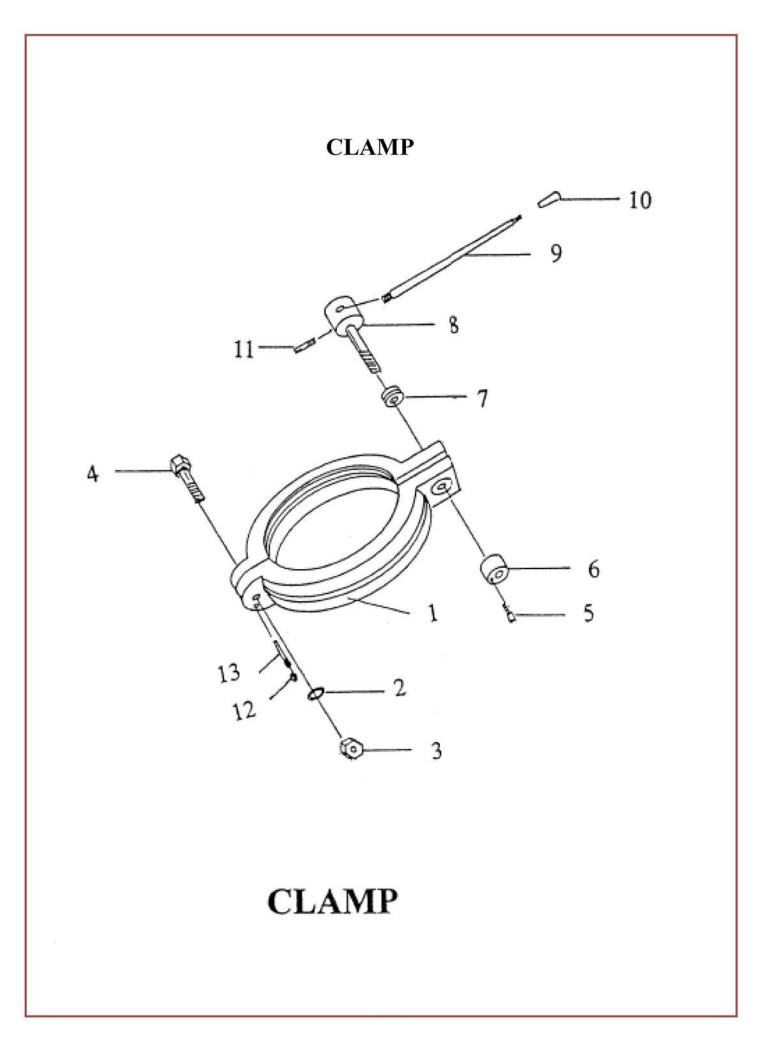
COLUMN

Index No.	Parts Name	Units	Parts No.	Remarks
1	Base	1	1101	
2	Column	1	1102	
3	Ball Bearing	1		#6018
4	Thrust Bearing	1		#51116
5	Cap	1	1118	
6	Column sleeve	1	1103	
7	Collar	1	1143	
8	Needle Bearing	90	1141	
9	Collar	1	1142	
10	Bolt	6		3/4"10NCx80L
11	Round	1	1149	
12	Bolt	4		5/8"x2-1/2"
13	Oil Bolt	1		3/4"xUNF16
14	Long cover	2	1150	
15	Spring Washer	6		3/4"



CLAMP

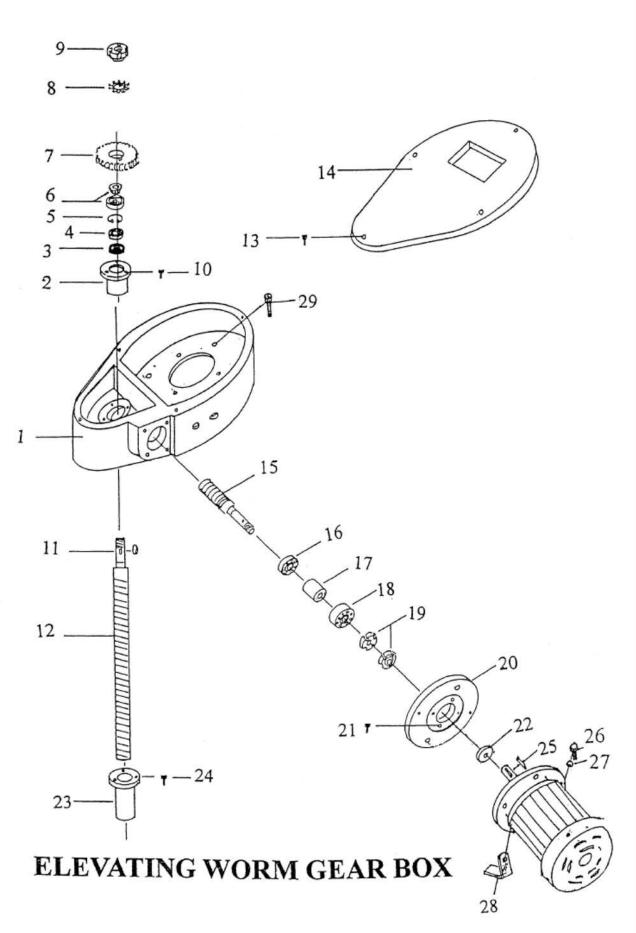
ndex No.	Parts Name	Units	Parts No.	Remarks
1	Clamp	1	1104	
2	Spring Washer	1		3/4"
3	Nut	1		3/4"-10NC
4	Bolt	1		3/4"X100L
5	Bolt	1		M6x25L
6	Nut	1	142	
7	Thrust bearing	1		#51105
8	Locking Screw	1	144	
9	Handle	1	1110	
10	Handle	1	1111	
11	Bolt	1	1236-2	
12	Nut	1		M8
13	Pin	1		#6x70L



ELEVATING WORM GEAR BOX

Index No.	Parts Name	Units	Parts No.	Remarks
1	Gear Box	1	1119	
2	Seat	1	1132	
3	Oil Seal	1		TC305458
4	Roller Bearing	1		# 6005Z
5	C Snap Ring	1		R47
6	Taper Roller Bearing	1		# 30205
7	Worm Gear	1	1124	
8	Collar	1		AWO5
9	Nut	1	1133	
10	Bolt	3		M6x20L
11	Key	1		6x6x18L
12	Elevating Screw	1	1121	
13	Bolt	4		M8x25L
14	Cover	1	1120	
15	Bolt	1	1125	
16	Roller Bearing	1		# 6006Z
17	Bolt Bushing	1	1127	
18	Roller Bearing	1		# 6206
19	Nut	2	1126	
20	Motor Base	1	1128	
21	Bolt	4		M8x20L
22	Oil Seal	1		TC28488
23	Nut	1	1122	
24	Bolt	3		M6x25L
25	Motor	1		1HP/4P
26	Bolt	4		3/8"x1L"
27	Spring Washer	4		3/8"
28	Stop Seat	1	1501	
29	Bolt	7		M10x50L

ELEVATING WORM GEAR BOX

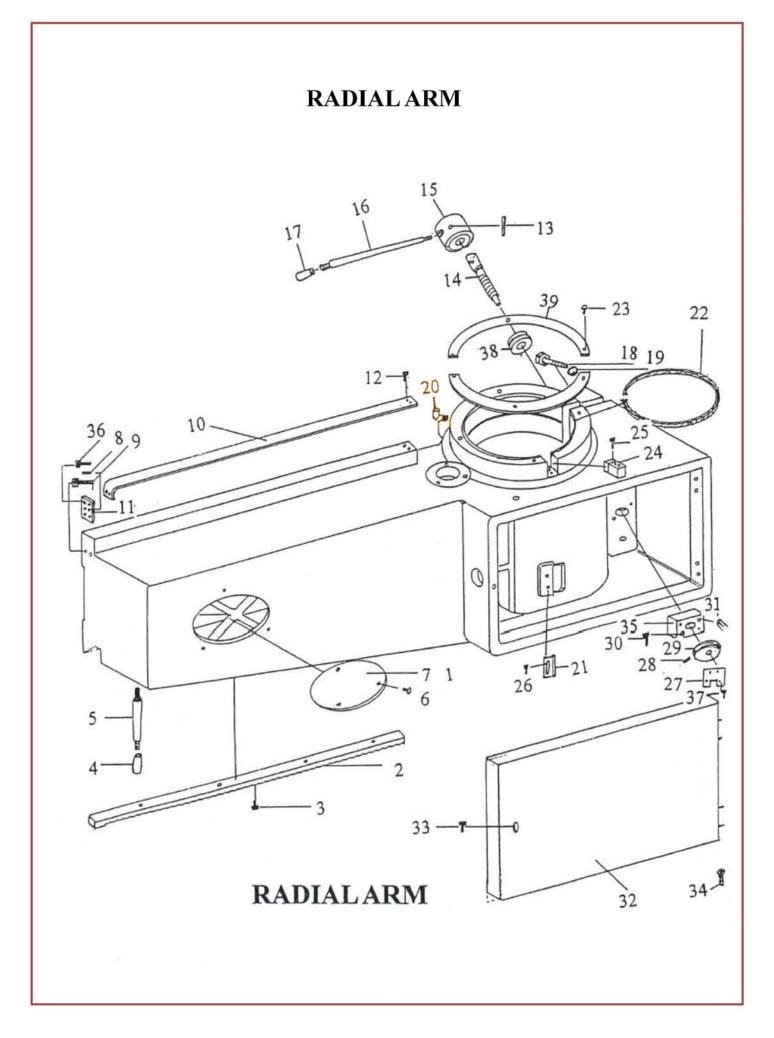


RADIAL ARM

Index No.	Parts Name	Units	Parts No.	Remarks
1	Radial Arm	1	1105	
2	Rack	1	1417	
3	Bolt	4		M6x16L
4	Handle	1	1111	
5	Handle	1	1112	
6	Bolt	3		M6x10
7	Cover	1	304	
8	Bolt	2		Set6x16
9	Bolt	2		6x10
10	Steel Efflorescent	1	1152	
11	Adjustment seat	1	1107	
12	Bolt	2		M6x12
13	Pin	1		#4x50L
14	Locking bolt	1	1136	
15	Joint	1	1108	
16	Handle	1	1110	
17	Handle	1	1111	Plastic
18	Bolt	2		3/4"x4"
19	Spring Washer	2		3/4"
20	Oil Cup	2		PT1/8"
21	Micro Seat	1	314	
22	Oil Ligature	2	1153	
23	Bolt	10		M6x12L
24	Key	1	251	
25	Bolt	2		M6x25
26	Bolt	2		M6x12L
27	Micro Seat	1	313	
28	Bolt	1		Set 6x10L
29	Collar	1	1117	
30	Bolt	1		M6x25L
31	Pin	1		M5x50L
32	Cover of Electricity	1	302	
33	Bolt	1		M6x10L

RADIAL ARM

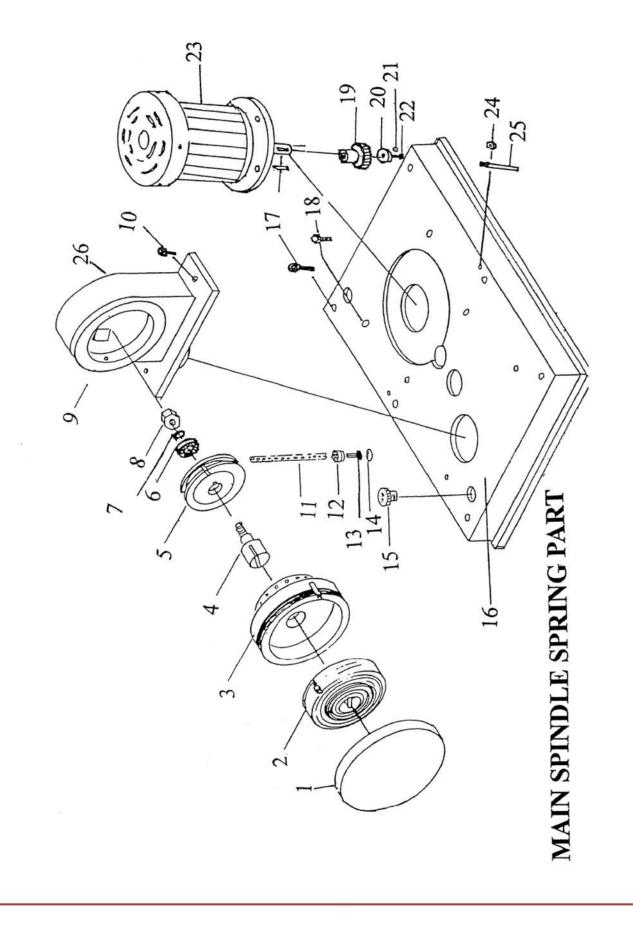
Index No.	Parts Name	Units	Parts No.	Remarks
34	Bolt	4		M6x10L
35	Handel Joint Nut	1	1135	
36	Bolt	2		M6x10L
37	Bolt	2		3/16"x 3/8"L
38	Thrust Bearing	1		#51104
39	Arm cover	4	306	
			-	
				<u>j</u>
				-



MAIN SPINDLE SPRING PART

Index No.	Parts Name	Units	Parts No.	Remarks
1	Spring Cover	1	1215	
2	Spring	1	1503	
3	Spring Fix Seat	1	1214	
4	Spring Fix Bolt	1	1217	
5	Spring Adjusting seat	1	1216	
6	Bearing	1		# 6204
7	Spring Washer	1		1/2"
8	Nut	1		1/2"
9	Bolt	1		SetM8x30L
10	Bolt	2		M6x25L
11	Chain	1	1504	P=6.35
12	Bearing	2		# 696ZZ
13	Chain Connector	1	1224	
14	C Snap Ring	1		R15
15	Oil Bolt	1		3/4"xUNF16
16	Gear Box Cover	1	1202	
17	Bolt	6		M8x50L
18	Bolt	4		3/8"x1"
19	Motor Gear	1	1203	
20	Fixed Sleeve	1	1327	
21	Spring Washer	1		M5
22	Bolt	1		M5x25L
23	Motor	1		2HP. 4P
24	Nut	1		M8
25	Pin	1		#4x50L
26	Spring Seat	1	1213	

MAIN SPINDLE SPRING PART

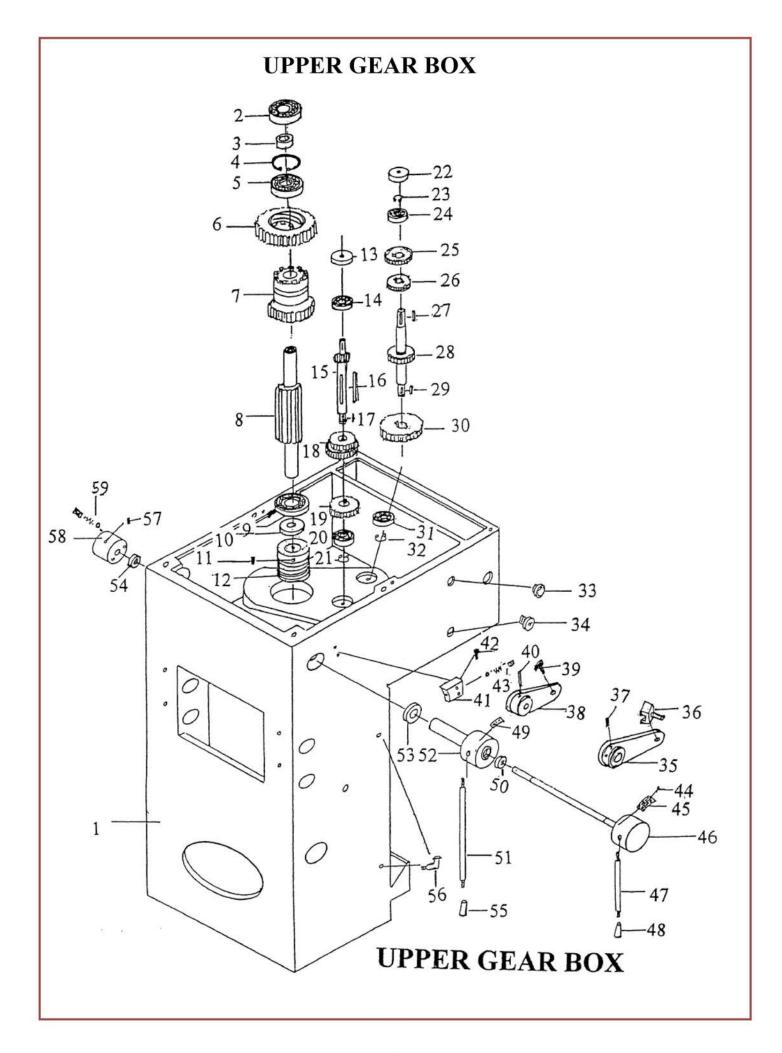


UPPER GEAR BOX

Index No.	Parts Name	Units	Parts No.	Remarks
1	Gear box	1	1201	
2	Bearing	1		# 6007Z
3	Bearing Shim	1	1218	
4	C Snap Ring	1		R62
5	Bearing	1		# 6007Z
6	Gear A	1	1219	
7	Gear B	1	1220	
8	Spindle shaft	1	1221	
9	Bearing	1		# 6007Z
10	Oil Seal	1		TC35x55x8
11	Bolt	2		Set M6x10
12	Set Screw	1	1222	
13	Cover	1	1205	
14	Bearing	1		# 6004Z
15	Gear Shaft	1	1210	
16	Key	2		M6x50L
17	Key	2		M6x12L
18	Gear	1	1211-1-2-3	
19	Gear	1	1212	
20	Bearing	1		#6004Z
21	C Snap Ring	1		S20
22	Cover	1	1209	
23	C Snap Ring	1		S20
24	Bearing	1		# 6004Z
25	Gear	1	1204	
26	Gear	1	1207	
27	Key	2		M6x20L
28	Shaft	1	1206	
29	Key	2		M6x16L
30	Gear	1	1208	
31	Bearing	1		# 6004Z
32	C Snap Ring	1		S24
33	Oil glass	1		1/2"

UPPER GEAR BOX

Index No.	Parts Name	Units	Parts No.	Remarks
34	Oil Bolt	1		3/4" xUNF16
35	Change Seat	1	1305	
36	Copper Seat	1	1306	
37	Bolt	2		M8x20L
38	Casting Seat	1	1308	
39	Steel Change Seat	1	1309	
40	Pin	1		M5x50L
41	Fixed Seat	1	1304-1	
42	Bolt	2		M5x25L
43	Ball& Spring Seat	1Set		1/4"xM8xM8
44	Motor Bolt	4		M2
45	Plate	1		6 Speed
46	Connector	1	1302	
47	Handle	1	1301	
48	Plastic Handel	1	1111	Plastic
49	Plate	1		H.L
50	Oil Seal	1		TC16x26x7
51	Handle	1	1303	
52	Seat	1	1304	
53	Oil Seal	1		TC30x45x8
54	Oil Seal	1		TC16x26x7
55	Plastic Handel	1	1111	
56	L. Oil Cup	2		PT1/8
57	Bolt	1		SetM8x30
58	Change Seat	1	1310	
59	Ball & Spring Seat	2Set		5/16"xM6.8xM8

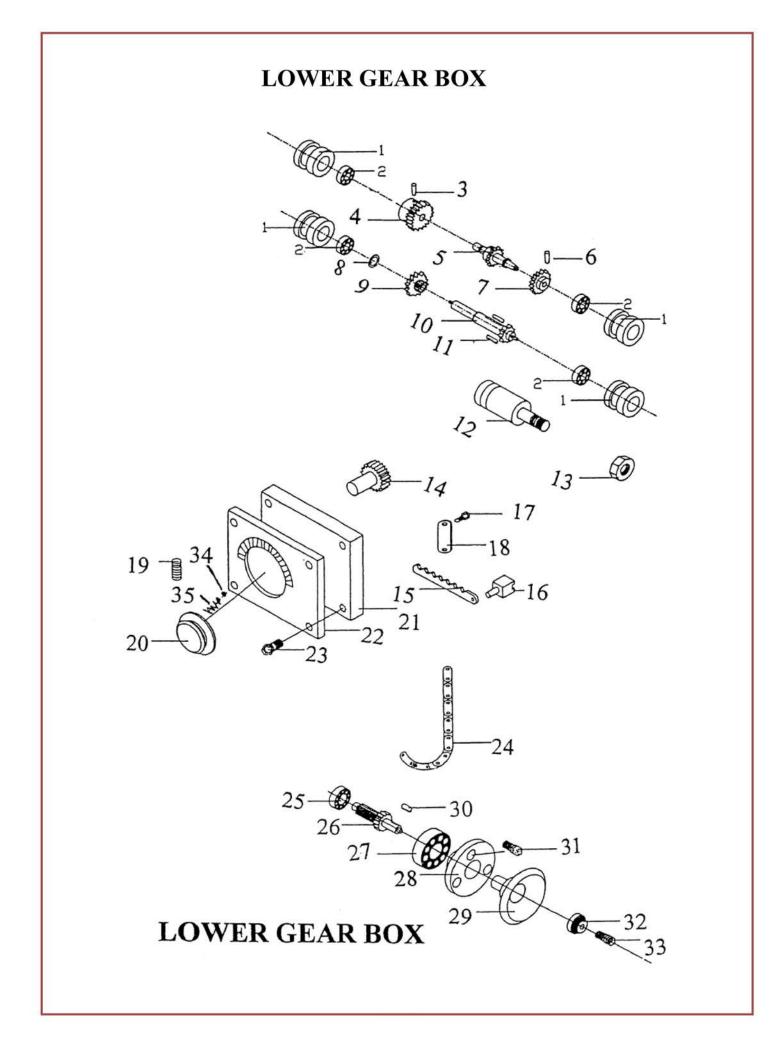


LOWER GEAR BOX

Index No.	Parts Name	Units	Parts No.	Remarks
1	Bearing Block	4	1316	
2	Bearing	4		# 6002Z
3	Pin	1		# 4x50L
4	Worm Gear	1	1319	
5	Shaft	1	1317	
6	Pin	1		# 4x38L
7	Gear	1	1318	
8	C Snap Ring	1		S22
9	Gear	1	1322	
10	Shaft	1	1321	
11	Key	2		M6x50L
12	Idle Wheel	1	1323	
13	Nut	1		3/8"
14	Pinion	1	1313	
15	Rack	1	1314	
16	Fork	1	1315	
17	Bolt	2		3/16"x3/8
18	Plate	1	1505	
19	Bolt	1		M8x30L
20	Handel	1	1312	
21	Micro-Indfeed Base	1	1311	
22	Index Plate	1	1506	
23	Bolt	4		M8x20L
24	Chain	1		P=9.52
25	Bearing	1		# 6002Z
26	Shaft	1	1324	
27	Bearing	1		# 6204
28	Cover	1	1325	
29	Hand Wheel	1	1326	
30	Key	1		M5x12L
31	Bolt	3		M5x16L
32	Fixed Sleeve	1	1327	
33	Bolt	1		M5x30L

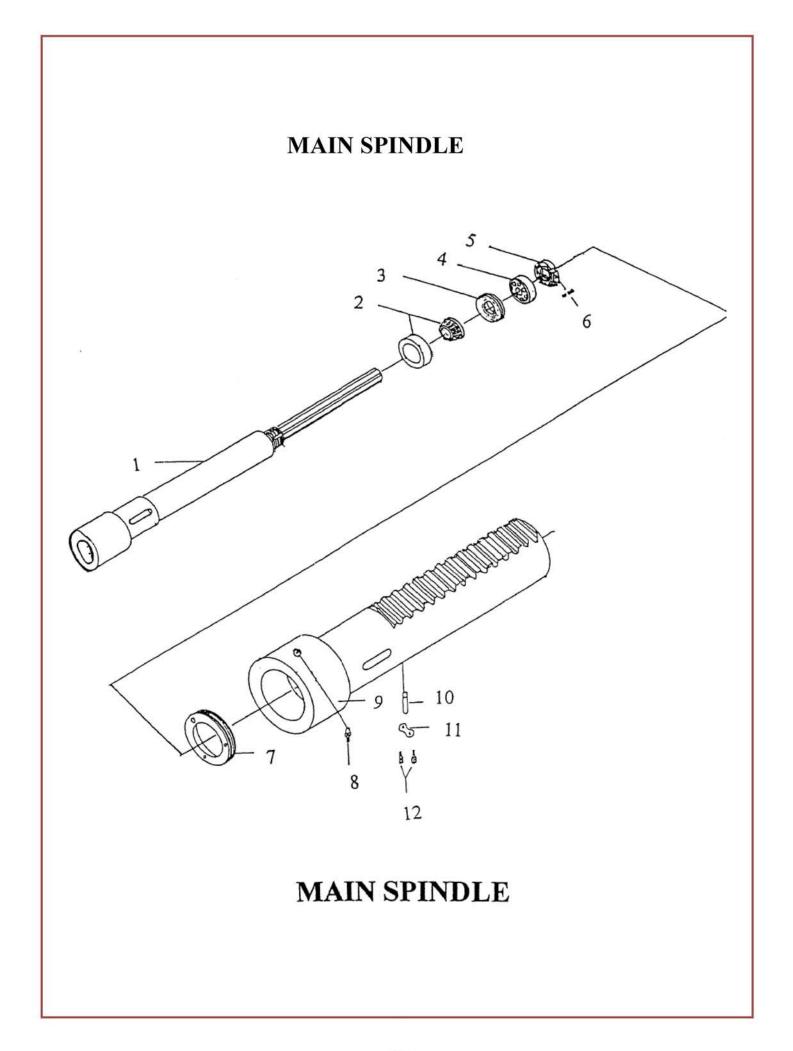
LOWER GEAR BOX

Index No.	Parts Name	Units	Parts No.	Remarks
34	Ball	1		5/16"
35	Spring	1		M4
		_		



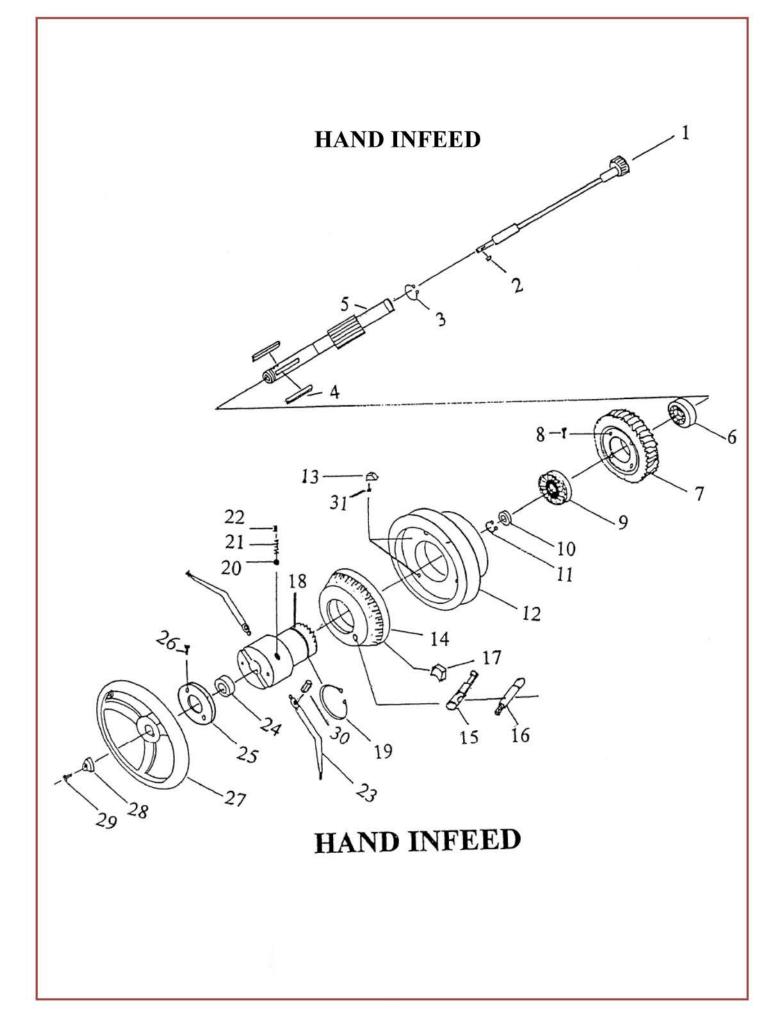
MAIN SPINDLE

Index No.	Parts Name	Units	Parts No.	Remarks
1	Spindle	1	1226	
2	Taper Roller Bearing	1		#32209
3	Thrust Bearing	1		# 51106
4	Roller Bearing	1		# 6006Z
5	Nut	1	1223	
6	Bolt	2		SetM5x5L
7	Cover	1	1228	
8	Grease Nipple	1		PT1/8"
9	Spindle Sleeve	1	1227	
10	Bolt	1	1330	
11	Plate	1		MCCO8B
12	Bolt	2		M5x10L



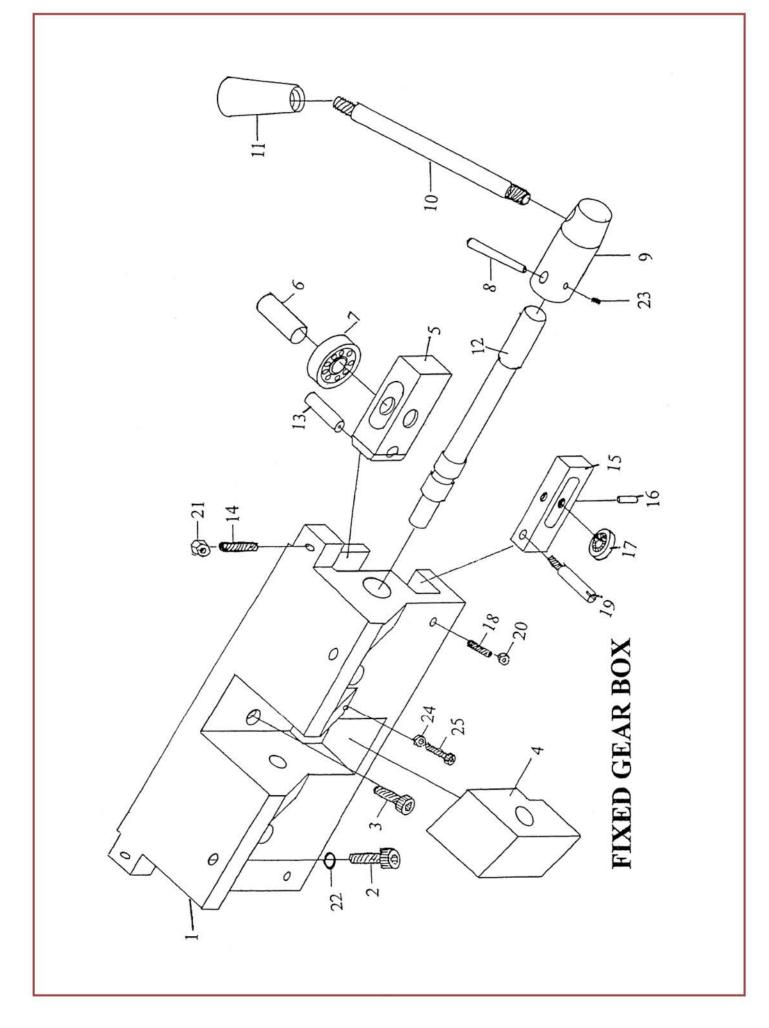
HAND INFEED

Index No.	Parts Name	Units	Parts No.	Remarks
1	Gear Shaft	1	1415	
2	Key	1		M5x5x10
3	C Snap Ring	1		S24
4	Key	2		M6x6x50
5	Adjustment Wheel	1	1414	
6	Ball Bearing	1		# 6005Z
7	Worm Gear	1	1413	
8	Bolt	6		M5x12
9	Feed Gear	1	1408	
10	Covering	1	1412	
11	C Snap Ring	1		S25
12	Graduation Ring Base	1	1401	
13	Cam	1	1419	
14	Graduated Collar	1	1402	
15	Eccentric Lever	1	1410	
16	Handle	1	1410-1	
17	Block	1	1411	
18	Clutch	1	1405	
19	C Snap Ring	1		S68
20	Ball	1		1/4"
21	Spring	1		M8x20L
22	Bolt	1		Set8x10
23	Feed Handle	2	1406	
24	Locking Collar	1	1404	
25	Clutch Cover	1	1418	
26	Bolt	2		M5x12
27	Wheel	1	1403	
28	Fixed Sleeve	1	1327	
29	Bolt	1		M5x25
30	Pin	2		M8x50L
31	Bolt	4		M5x12L
		-		1413A12L

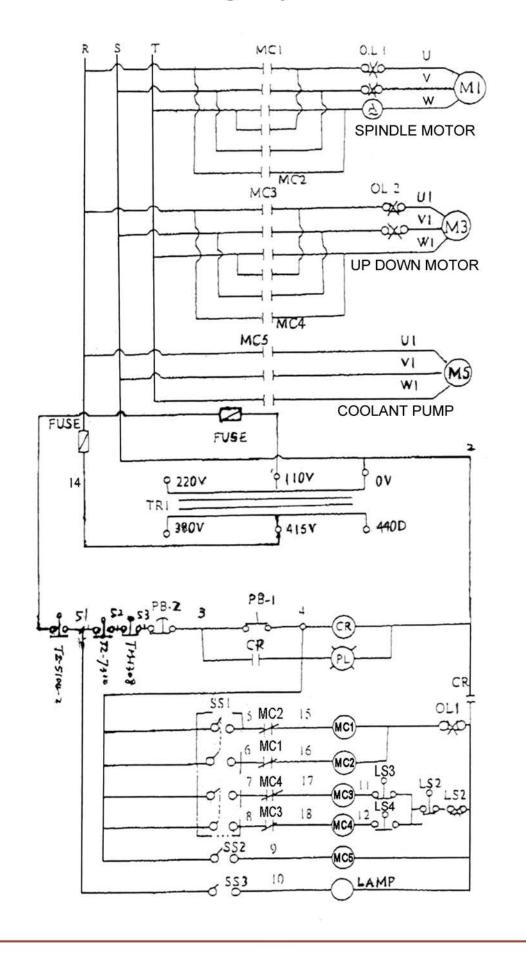


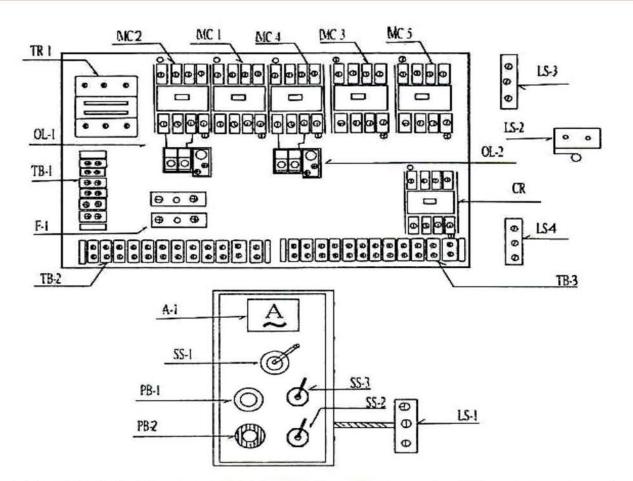
FIXED GEAR BOX

Parts Name	Units	Parts No.	Remarks
Gear Box Fixed Seat	1	1229	
Bolt	2		M10x25L
Bolt	2		M8x25L
Lock Block	1	1232	
Bearing Seat	2	1230	
Bearing Shaft	2	1231	
Ball Bearing	2		#6202ZZ
Pin	1		#4x50L
Joint	1	1235	
Hand Lever	1	1303	
Handle	1	1111	Plastic
Eccentric Shaft	1	1234	
Fixed Bolt	2	1236	
Bolt	2		M8x25L
Bearing Seat	2	1233	
Bearing Shaft	2	1238	
Ball Bearing	2		#628ZZ
Bolt	2		M8x30L
Bearing Shaft	2	1236-2	
Nut	2		M8
Nut	2		M8
Spring Washer	2		M10
Bolt	1		Set M6x10
Nut	1		M6
Bolt	1		M6x25L
	Gear Box Fixed SeatBoltBoltBoltLock BlockBearing SeatBearing ShaftBall BearingPinJointHand LeverHandleEccentric ShaftFixed BoltBearing SeatBearing ShaftBearing ShaftBall BearingAboltBearing ShaftBoltBearing ShaftBoltBoltBoltBearing ShaftBoltBearing ShaftBoltBearing ShaftBoltBearing ShaftBoltBearing ShaftBoltBearing ShaftBoltBearing ShaftBoltNutSpring WasherBoltNutNutNut	Gear Box Fixed Seat1Bolt2Bolt2Bolt2Lock Block1Bearing Seat2Bearing Shaft2Ball Bearing2Pin1Joint1Hand Lever1Handle1Eccentric Shaft1Fixed Bolt2Bearing Seat2Bolt2Bearing Shaft2Bearing Shaft2Bearing Shaft2Ball Bearing2Bolt2Bolt2Spring Shaft2Spring Washer2Bolt1Nut1	Gear Box Fixed Seat 1 1229 Bolt 2



Electrical Diagram for 750/900





NO.	Item	
MC1	Magnetic Contactor	
MC2	Magnetic Contactor	
MC3	Magnetic Contactor	
MC4	Magnetic Contactor	
MC5	Magnetic Contactor	
CR	Magnetic Contactor	
TR1	Transformer	
TB-1	Wire Connect Table Board	
TB-2	Wire Connect Table Board	
TB-3	Wire Connect Table Board	
OL-1	Load-Relay	
OL-2	Load-Relay	
F-1	Euse	
A-1	Ammeter	
PB-1	Starter	
PB-2	Off-Switch	
SS-1	4 Direction-Switch	
SS-2	Coolant Switch	
SS-3	Worklight On-off Switch	
CS-1	Electrode Exchange	
LS-1	Microswitch AM-1308	
LS-2	Microswitch AM-1704	
LS-3	Microswitch AM-1308	
LS-4	Microswitch AM-1308	