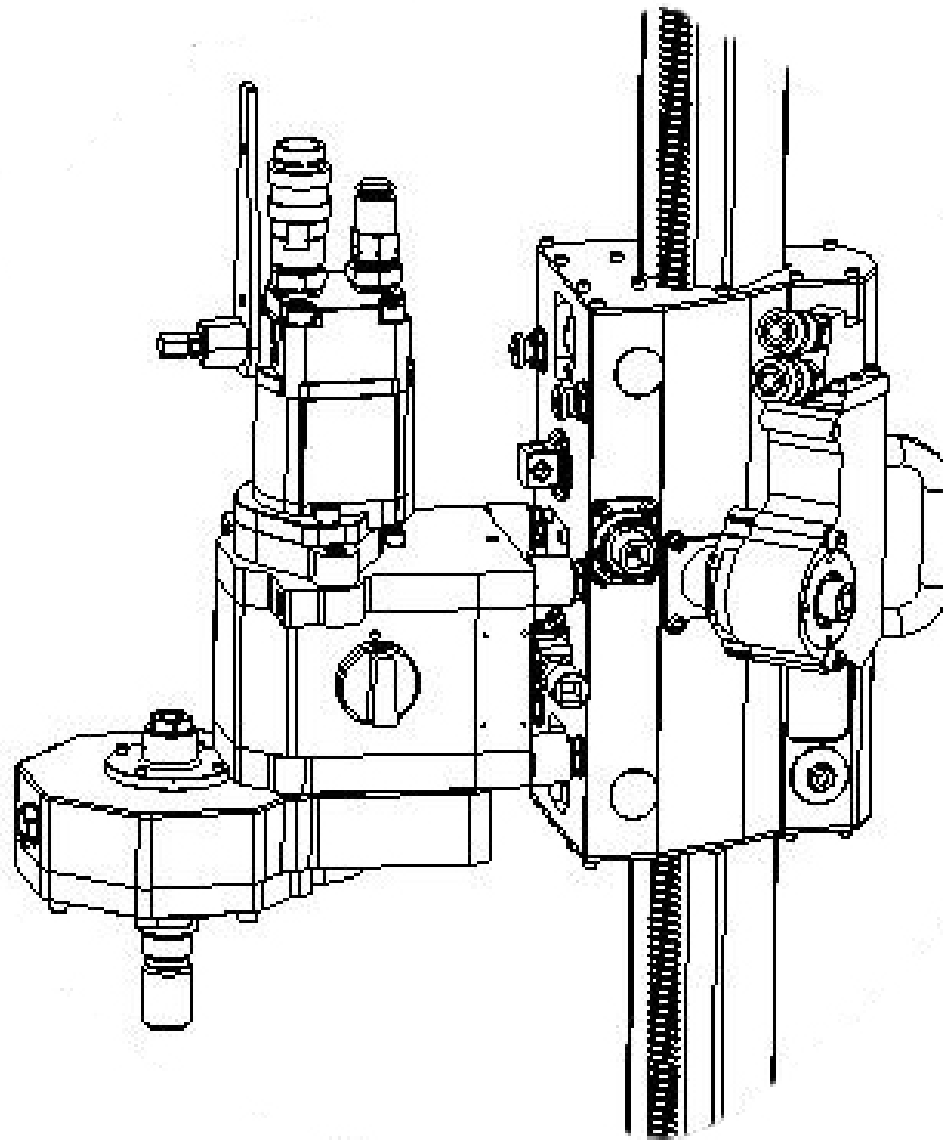
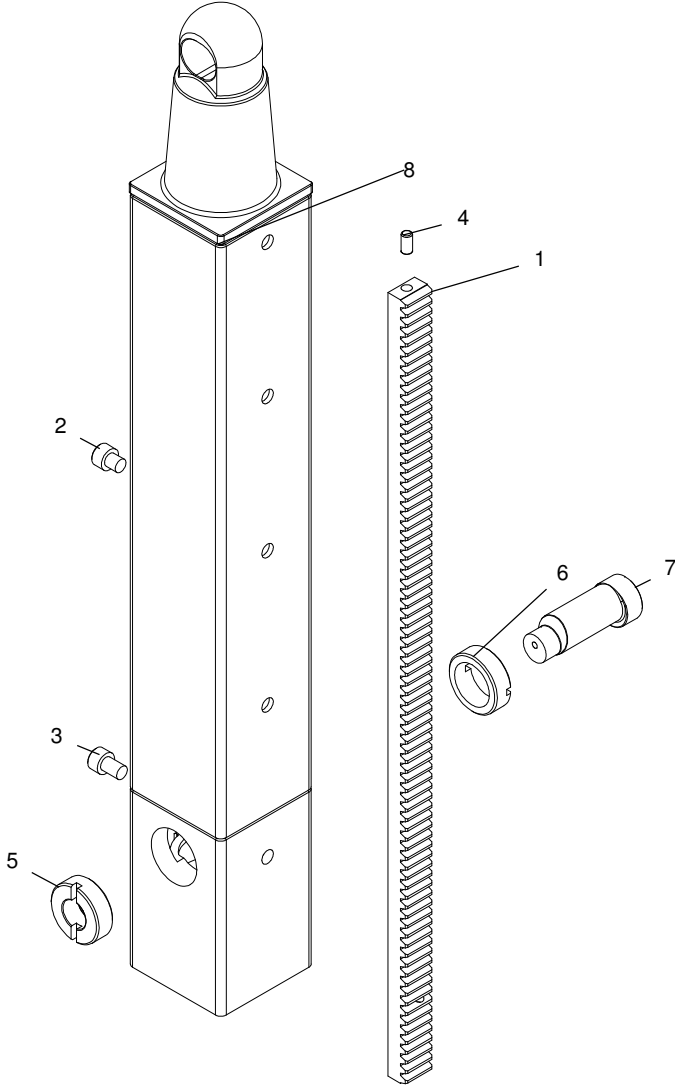
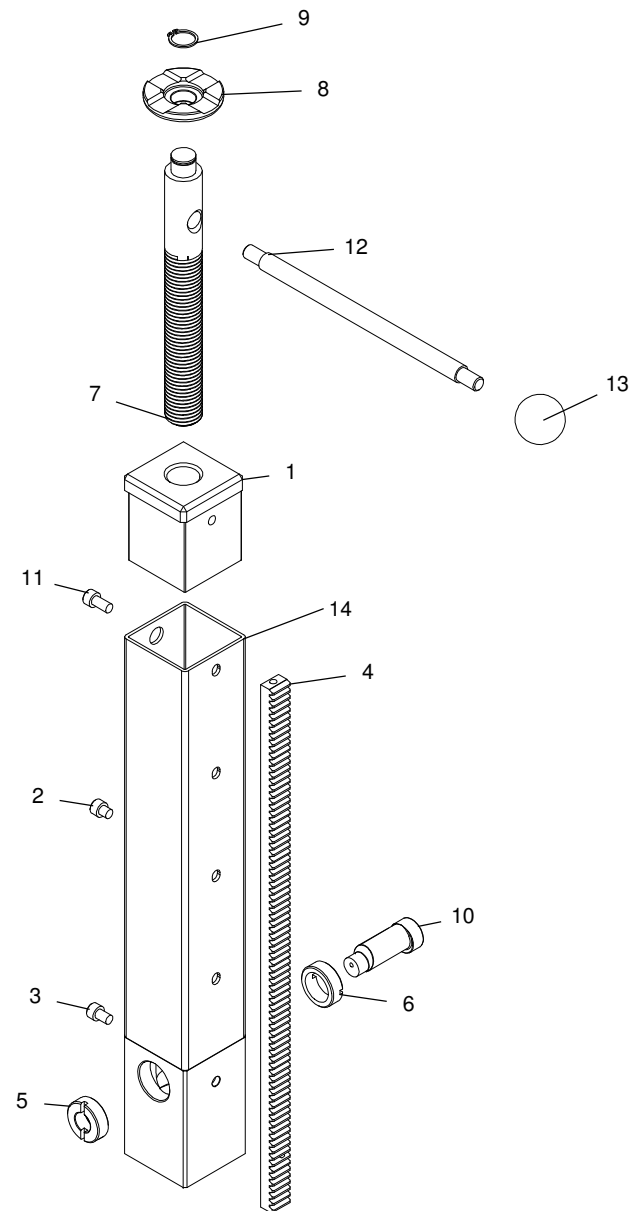


Spare parts list Pentruder Modular Drilling System

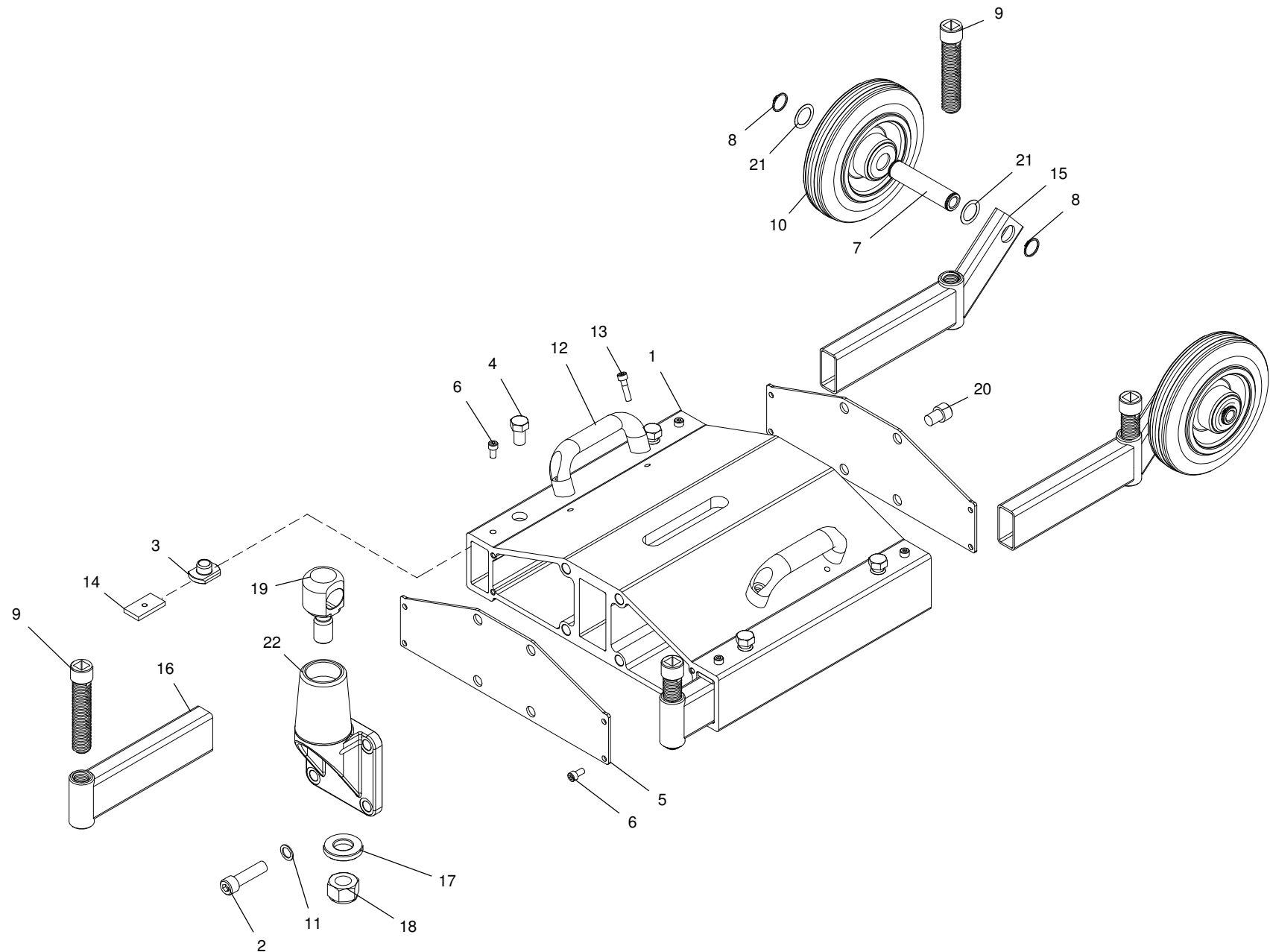




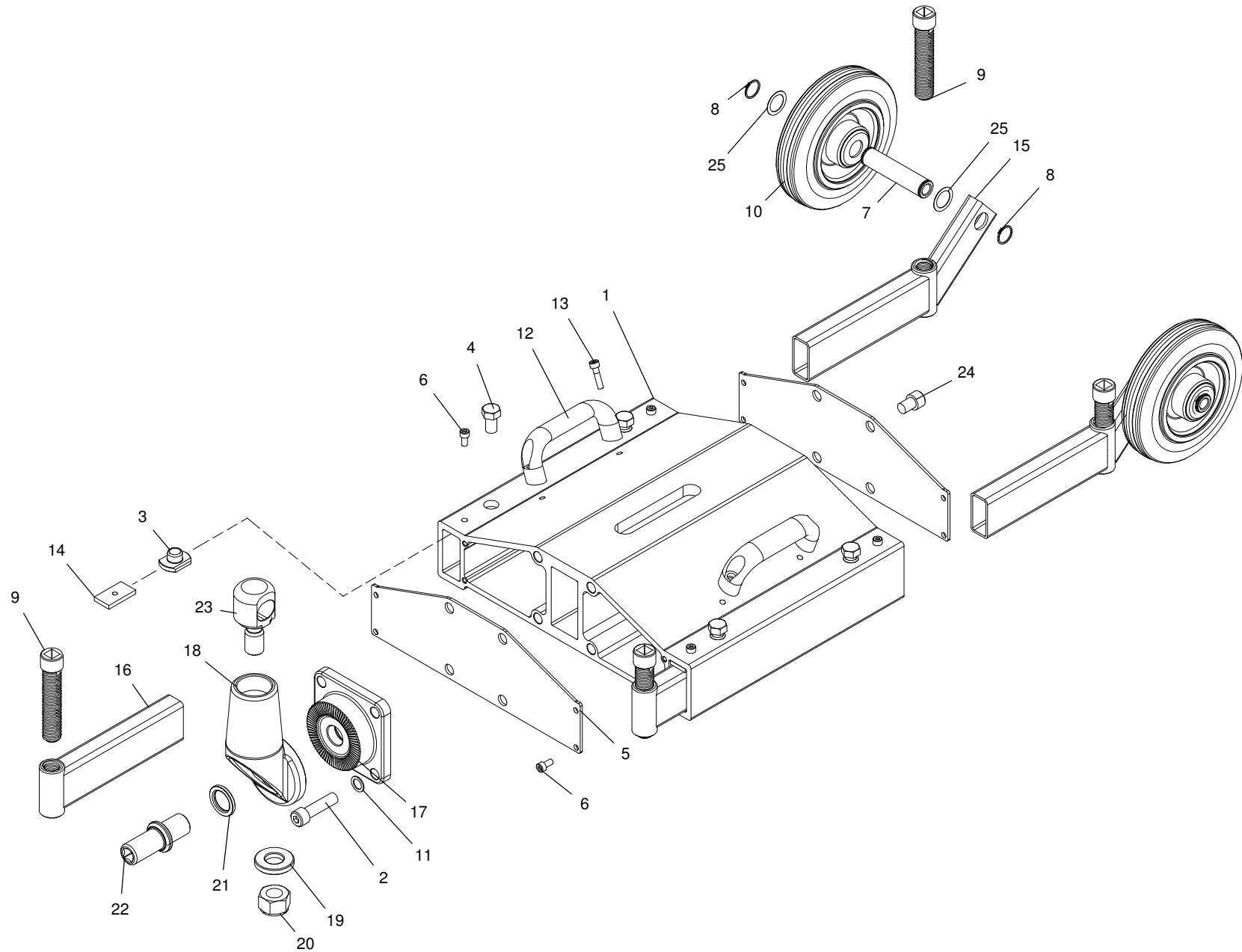
Pos. No.	Part Number	Qty	Description
	10210501		Column CN 0.5 F/M - 70 steel cpl
CN-FM-1	48020200	1	Rack Drilling Column 0.5m
CN-FM-2	121008008-8.8FZ	4	Allen screw
CN-FM-3	121008012-8.8FZ	1	Allen screw
CN-FM-4	17306120	1	Cyl. Pin
CN-FM-5	33050100	1	Threaded bushing
CN-FM-6	33050200	1	Threaded bushing
CN-FM-7	34080500	1	Eccentric bolt column coupling
CN-FM-8	10210500	1	Column steel 0.5m F/M w/o accessori
	10211201		Column CN 1.2 F/M - 70 steel cpl
CN-FM-1	48020400	1	Rack Drilling Column 1.2m
CN-FM-2	121008008-8.8FZ	11	Allen screw
CN-FM-3	121008012-8.8FZ	1	Allen screw
CN-FM-4	17306120	1	Cyl. Pin
CN-FM-5	33050100	1	Threaded bushing
CN-FM-6	33050200	1	Threaded bushing
CN-FM-7	34080500	1	Eccentric bolt column coupling
CN-FM-8	10211200	1	Column steel 1.2 m F/M w/o accessori
	10211501		Column CN 1.5 F/M - 70 steel cpl
CN-FM-1	48020400	1	Rack Drilling Column 1.5m
CN-FM-2	121008008-8.8FZ	14	Allen screw
CN-FM-3	121008012-8.8FZ	1	Allen screw
CN-FM-4	17306120	1	Cyl. Pin
CN-FM-5	33050100	1	Threaded bushing
CN-FM-6	33050200	1	Threaded bushing
CN-FM-7	34080500	1	Eccentric bolt column coupling
CN-FM-8	10211500	1	Column steel 1.5 m F/M w/o accessori



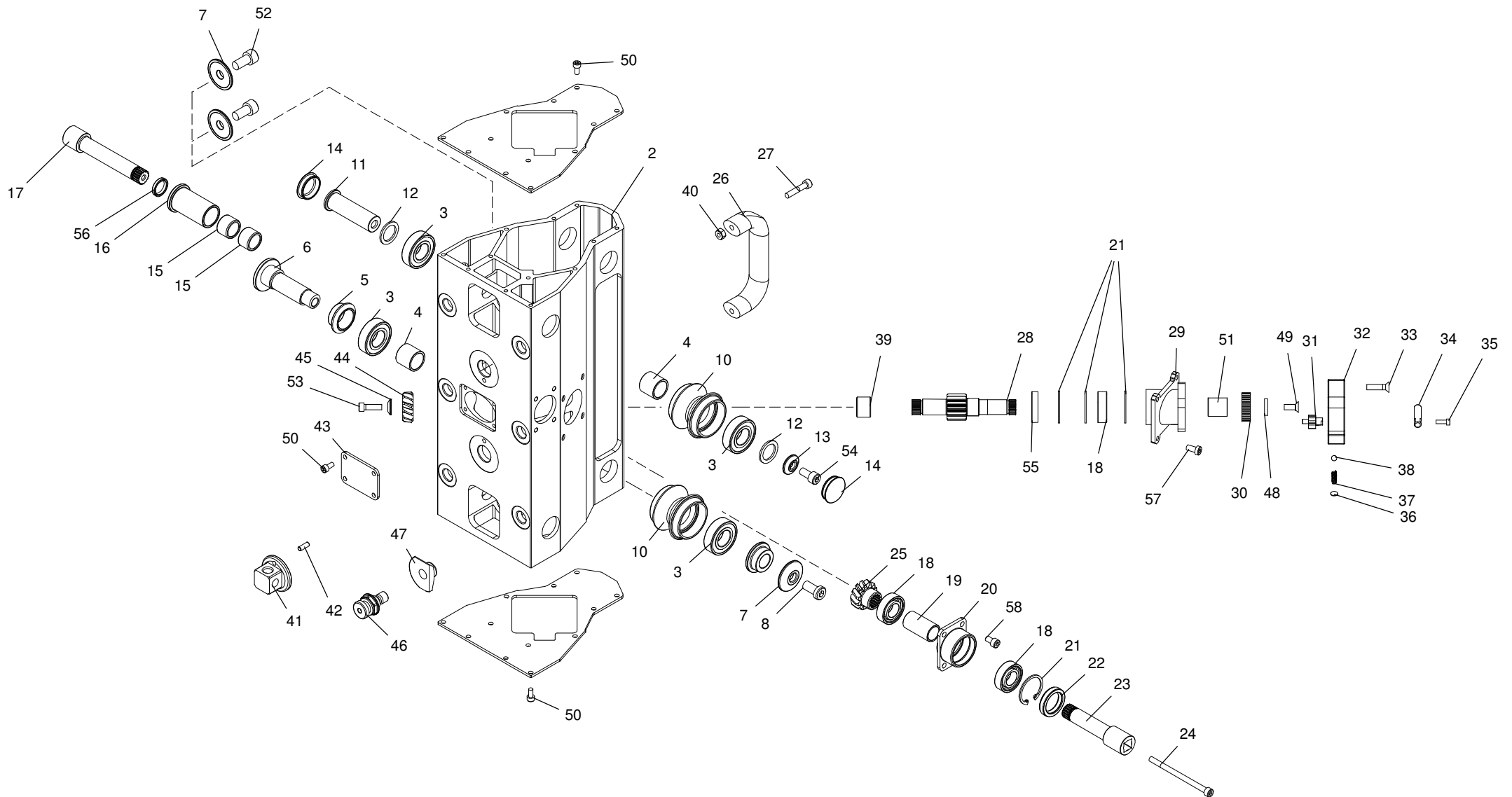
Pos. No.	Part Number	Qty	Description	Pos. No.	Part Number	Qty	Description
	10220501		Column CN 0.5 F/J - 70 steel cpl		10221501		Column CN 1.5 F/J - 70 steel cpl
CN-FJ-1	15150100	1	Nut	CN-FJ-1	15150100	1	Nut
CN-FJ-2	121008008-8.8FZ	4	Allen screw	CN-FJ-2	121008008-8.8FZ	14	Allen screw
CN-FJ-3	121008012-8.8FZ	1	Allen screw	CN-FJ-3	121008012-8.8FZ	1	Allen screw
CN-FJ-4	48020200	1	Rack Drilling Column 0.5m	CN-FJ-4	48020600	1	Rack Drilling Column 1.5m
CN-FJ-5	33050100	1	Threaded bushing	CN-FJ-5	33050100	1	Threaded bushing
CN-FJ-6	33050200	1	Threaded bushing	CN-FJ-6	33050200	1	Threaded bushing
CN-FJ-7	14310100	1	Jack screw	CN-FJ-7	14310100	1	Jack screw
CN-FJ-8	46450100	1	Jack plate	CN-FJ-8	46450100	1	Jack plate
CN-FJ-9	21202000	1	Circlip	CN-FJ-9	21202000	1	Circlip
CN-FJ-10	34080500	1	Eccentric bolt column coupling	CN-FJ-10	34080500	1	Eccentric bolt column coupling
CN-FJ-11	121008016-8.8FZ	1	Allen screw	CN-FJ-12	53120100	1	Handle jack screw
CN-FJ-12	53120100	1	Handle jack screw	CN-FJ-13	53011100	2	Handle Ball
CN-FJ-13	53011100	2	Handle Ball	CN-FJ-14	10221500	1	Column steel 1.5m F/J w/o accessori
CN-FJ-14	10220500	1	Column steel 0.5m F/J w/o accessori				
	10221201		Column CN 1.2 F/J - 70 steel cpl				
CN-FJ-1	15150100	1	Nut				
CN-FJ-2	121008008-8.8FZ	11	Allen screw				
CN-FJ-3	121008012-8.8FZ	1	Allen screw				
CN-FJ-4	48020400	1	Rack Drilling Column 1.2m				
CN-FJ-5	33050100	1	Threaded bushing				
CN-FJ-6	33050200	1	Threaded bushing				
CN-FJ-7	14310100	1	Jack screw				
CN-FJ-8	46450100	1	Jack plate				
CN-FJ-9	21202000	1	Circlip				
CN-FJ-10	34080500	1	Eccentric bolt column coupling				
CN-FJ-12	53120100	1	Handle jack screw				
CN-FJ-13	53011100	2	Handle Ball				
CN-FJ-14	10221200	1	Column steel 1.2m F/J w/o accessori				



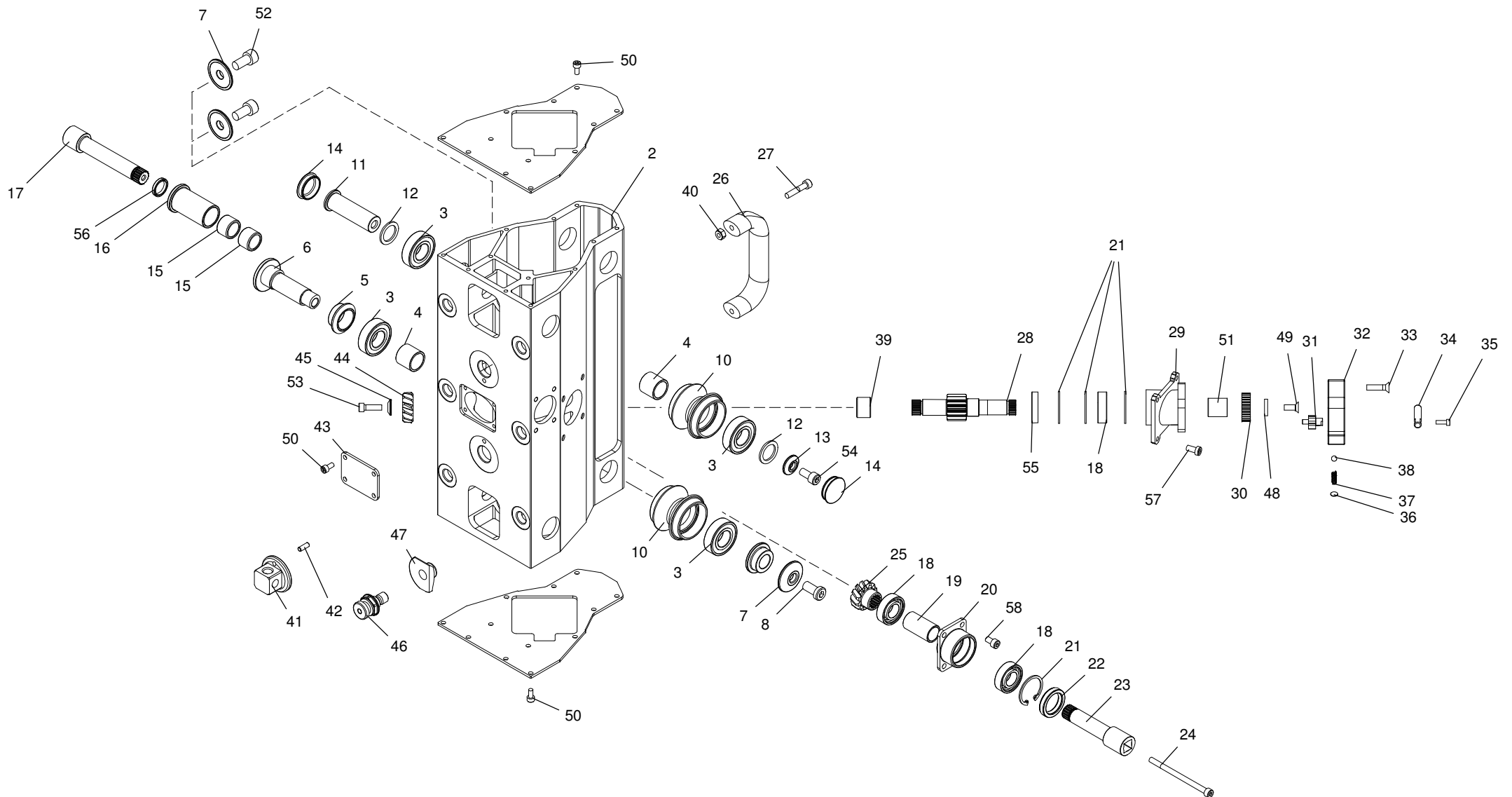
Item No.	Part Number	Qty	Description
BE1-1	56200100	1	Base Plate
BE1-2	121012045-12.9FZ	4	Allen screw
BE1-3	15140500	4	Nut insert
BE1-4	121112020-8.8FZ	4	Hex Screw
BE1-5	58352200	2	Cover base plate
BE1-6	121006012-8.8FZ	12	Allen screw
BE1-7	34650200	2	Wheel axle
BE1-8	21202000	4	Circlip
BE1-9	14300100	4	Trapezodial Screw
BE1-10	45040200	2	Wheel
BE1-11	22111212	4	Washer
BE1-12	53011000	2	Handle
BE1-13	121006025-8.8FZ	4	Allen screw
BE1-14	16040100	4	Washer
BE1-15	50230200	2	Rear support leg angular
BE1-16	50230100	2	Front support leg
BE1-17	16240500	1	Washer pull stud
BE1-18	12070120	1	Locking nut
BE1-19	14030100	1	Pull stud
BE1-20	121012016-8.8FZ	4	Allen screw
BE1-21	22112005	4	Washer
BE1-22	43500400	1	Male coupling square 4 holes



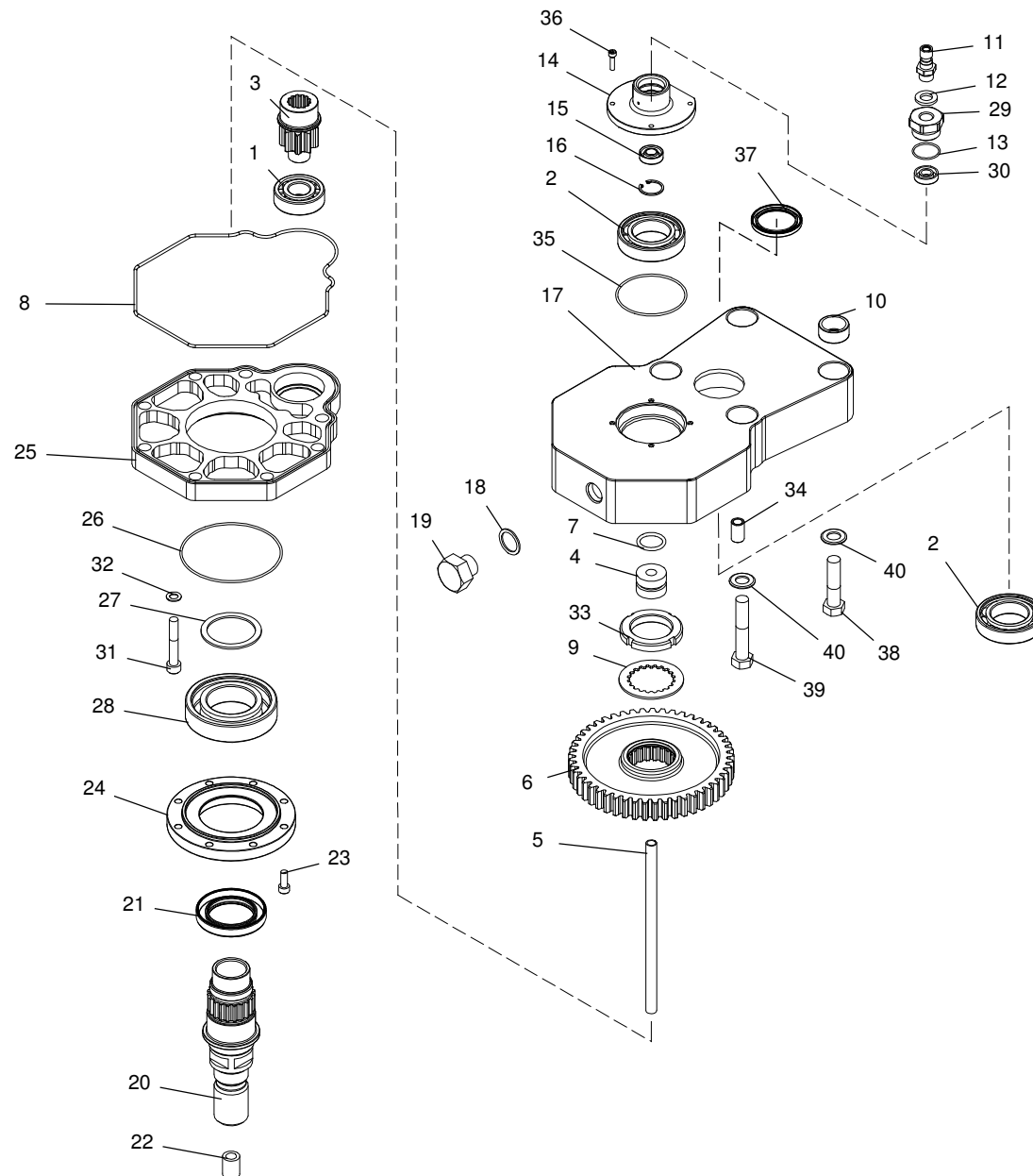
Item No.	Part Number	Qty	Description
BE2-1	56200100	1	Base Plate
BE2-2	121012045-12.9FZ	4	Allen screw
BE2-3	15140500	4	Nut insert
BE2-4	121112020-8.8FZ	4	Hex Screw
BE2-5	58352200	2	Cover base plate
BE2-6	121006012-8.8FZ	12	Allen screw
BE2-7	34650200	2	Wheel axle
BE2-8	21202000	4	Circlip
BE2-9	14300100	4	Trapezodial Screw
BE2-10	45040200	2	Wheel
BE2-11	22111212	4	Washer
BE2-12	53011000	2	Handle
BE2-13	121006025-8.8FZ	4	Allen screw
BE2-14	16040100	4	Washer
BE2-15	50230200	2	Rear support leg angular
BE2-16	50230100	2	Front support leg
BE2-17	43500200	1	Face tooth coupling, square, 4 holes
BE2-18	43500300	1	Male coupling w/ face tooth coupling
BE2-19	16240500	1	Washer pull stud
BE2-20	12070120	1	Locking nut
BE2-21	16241400	1	Washer clamp screw
BE2-22	14040100	1	Clamp screw face tooth coupling
BE2-23	14030100	1	Pull stud
BE2-24	121012016-8.8FZ	4	Allen screw
BE2-25	22112005	4	Washer



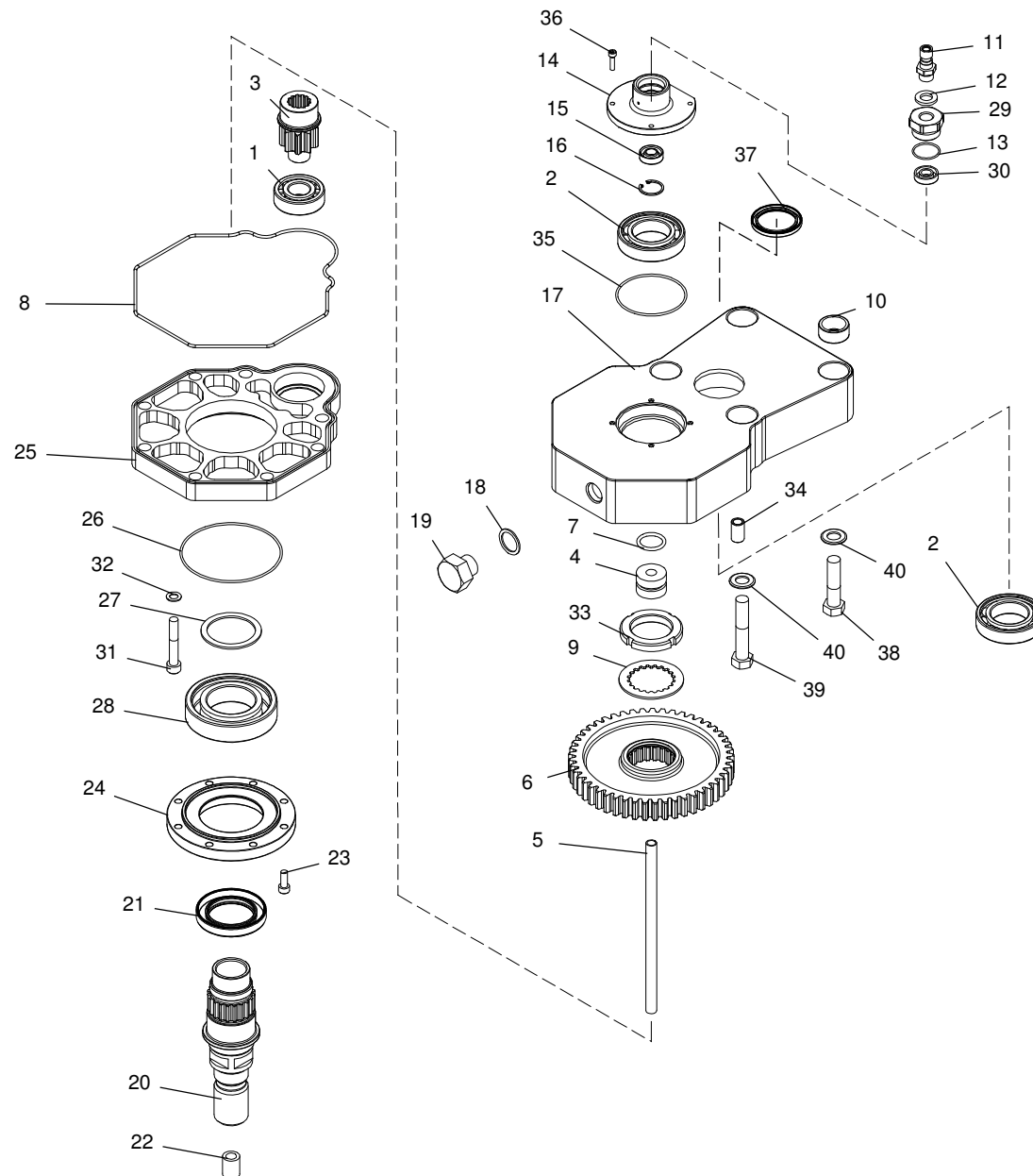
Item No.	Part Number	Qty	Description
CE-1	58352100	2	End cover
CE-2	5625010360	1	Carriage housing
CE-3	20756004	8	Ball bearing
CE-4	26300400	4	Spacer sleeve
CE-5	33020300	2	Bushing
CE-6	34080600	2	Eccentric shaft
CE-7	16240400	4	Washer eccentric shaft
CE-8	1217100020-8.8FZ	2	Hex Screw
CE-9	33020600	2	Bushing
CE-10	45010200	4	Conical roller
CE-11	34110200	2	Roller shaft
CE-12	22112020	4	Washer
CE-13	16240200	2	Washer front roller
CE-14	25140100	4	Plug
CE-15	20471712	2	Needle roller bearing
CE-16	20340400	1	Bearing sleeve
CE-17	34170300	1	Feed shaft
CE-18	20756003	3	Ball bearing
CE-19	26300300	1	Spacer sleeve
CE-20	57170500	1	Bearing housing cross sh.
CE-21	21403500	4	Circlip Int.
CE-22	23902403507	1	Seal
CE-23	34170200	1	Feed shaft
CE-24	121006090-8.8Fz	1	Allen screw
CE-25	35700300	1	Helical gear long
CE-26	53011000	1	Handle
CE-27	121006030-8.8FZ	2	Allen screw
CE-28	34170100	1	Pinion
CE-29	57170400	1	Bearing housing
CE-30	35490100	1	Ratchet wheel
CE-31	59150300	1	Ratchet



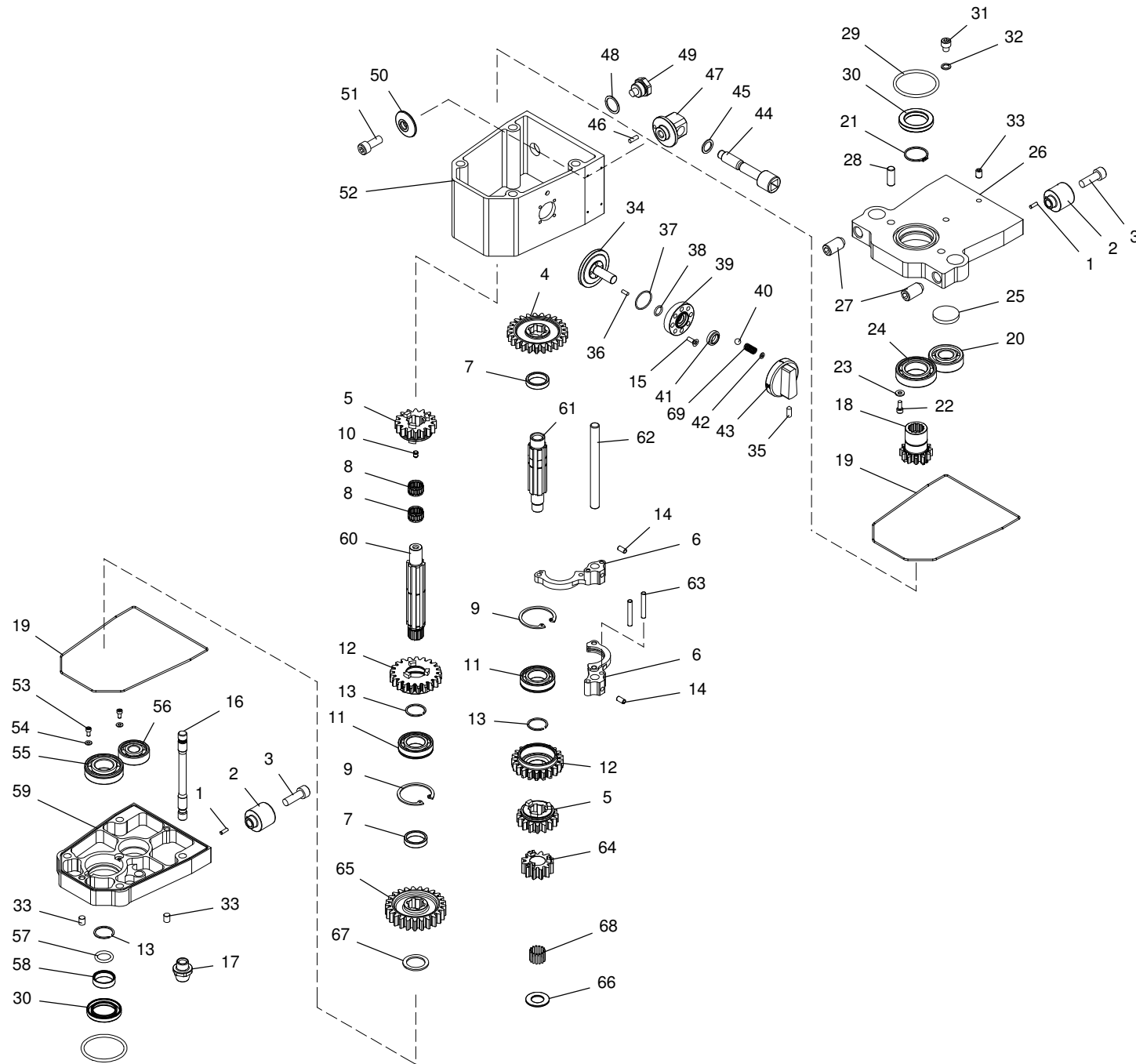
Item No.	Part Number	Qty	Description
CE-32	57520100	1	Ratchet housing
CE-33	123006025-10.9FZ	4	Allen screw countersunk
CE-34	53110100	1	Ratchet lever
CE-35	121004012-12.9Fz	1	Allen screw
CE-36	25110600	1	Plug
CE-37	32090515	1	Compression Spring
CE-38	20310600	1	Ball
CE-39	20491816	1	Needle roller bearing
CE-40	12070106	2	Locking nut
CE-41	15080100	2	Nut
CE-42	17305140	2	Cyl. Pin
CE-43	58351900	1	Cover
CE-44	35700200	1	Helical gear
CE-45	16240700	1	Washer
CE-46	14050500	6	Male coupling stud
CE-47	15140600	6	Nut insert
CE-48	16241500	1	Washer C/S Ratchet wheel
CE-49	123006016-10.9FZ	1	Allen screw C/S
CE-50	121005010-8.8FZ	28	Allen screw
CE-51	26300500	1	Spacer sleeve
CE-52	121010020-12.9FZ	2	Allen screw
CE-53	121006020-12.9FZ	1	Allen screw
CE-54	121008016-12.9FZ	2	Allen screw
CE-55	24002003507	1	Radialseal
CE-56	24390600	1	Radialseal
CE-57	121206012-8.8FZ	4	Allen screw
CE-58	121006010-8.8FZ	4	Allen screw



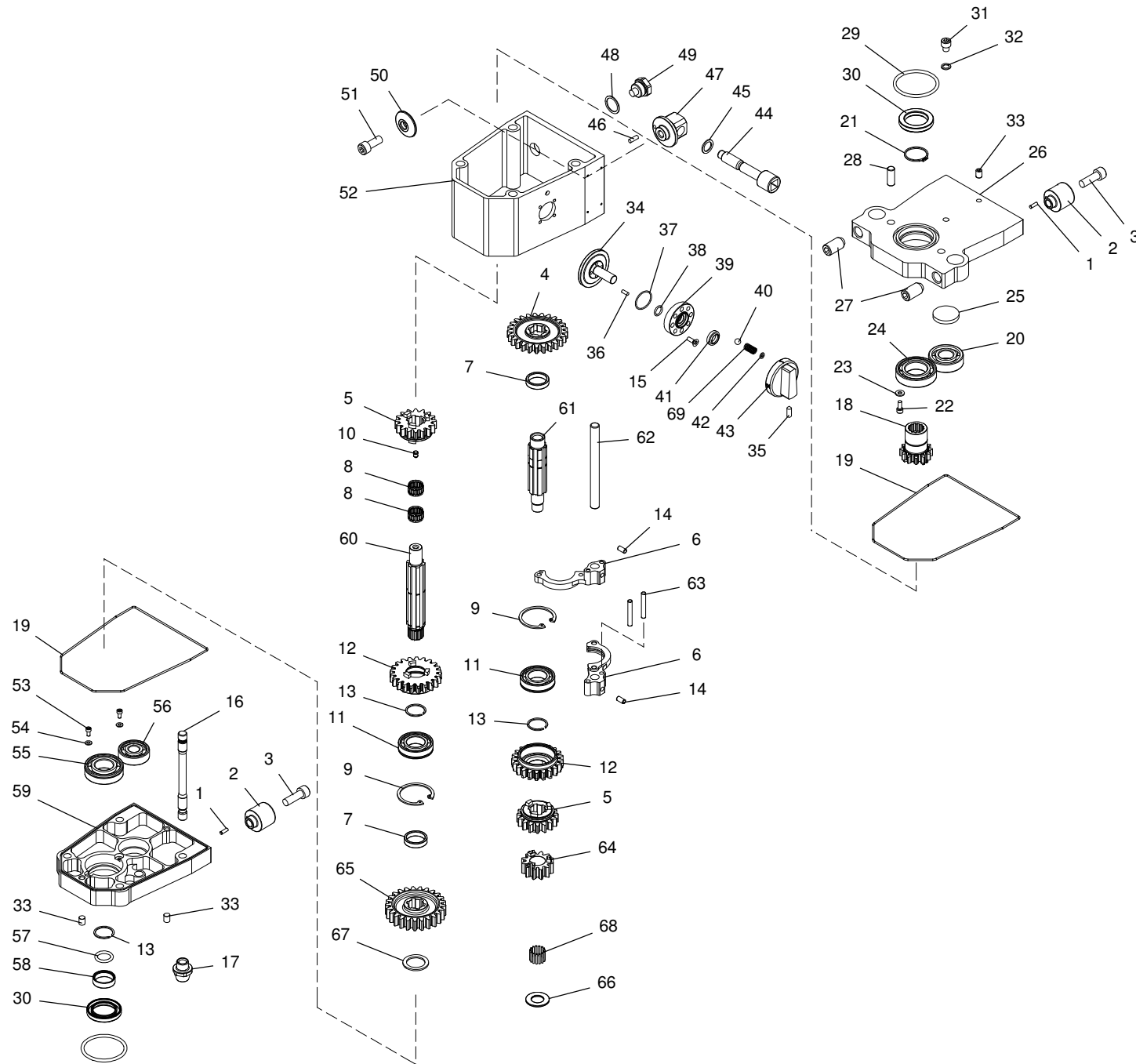
ST2-1	20150204	1	Cyl. roller bearing
ST2-2	20756007	2	Ball bearing
ST2-3	35090700	1	Pinion spindle unit
ST2-4	33100200	1	Bushing water tube upper
ST2-5	50070200	1	Water tube
ST2-6	35350400	1	Gear
ST2-7	23130022	1	O-ring
ST2-8	23125195	1	O-ring
ST2-9	27030300	1	Friction disc
ST2-10	40090100	4	Cone female
ST2-11	19240100	1	Coupling Male
ST2-12	23200014	1	Dowty washer
ST2-13	23115023	1	O-ring
ST2-14	57280100	1	Water seal housing
ST2-15	23901002207	1	Seal
ST2-16	21402200	1	Circlip
ST2-17	57190200	1	Spindle Housing
ST2-18	16352026	1	Alu-washer
ST2-19	25042015	1	Plug
ST2-20	34281200	1	Spindle
ST2-21	24004206510	1	Seal
ST2-22	33100100	1	Bushing water tube lower
ST2-23	121006016-12.9Fz	8	Allen screw
ST2-24	58450100	1	Seal holder
ST2-25	58250500	1	Bottom cover
ST2-26	23120090	1	O-ring
ST2-27	22114520	1	Support ring
ST2-28	20796209	1	Ball bearing
ST2-29	33110200	1	Bushing water inlet
ST2-30	24001002206	1	Radialseal



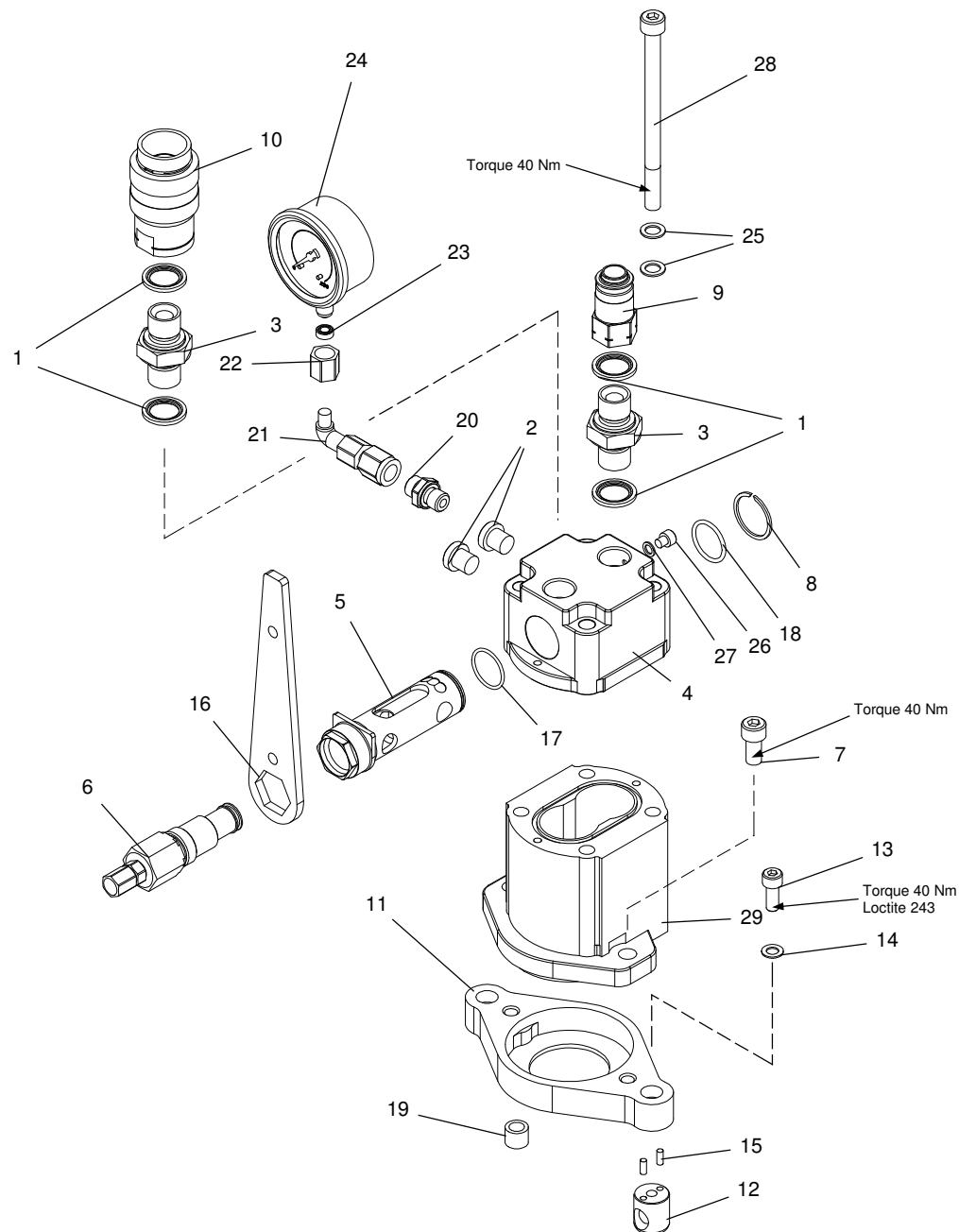
ST2-31	121008050-12.9FZ	6	Allen screw
ST2-32	22110810	6	Support ring
ST2-33	12090100	1	Ball Bearing Nut
ST2-34	26280200	6	Dowel
ST2-35	23120062	1	O-ring
ST2-36	121004016-12.9FZ	4	Allen screw
ST2-37	23903504704.5	1	Seal
ST2-38	121112050-8.8FZ	2	Hex screw
ST2-39	121112065-8.8FZ	2	Hex screw
ST2-40	164132404	4	Washer



Item No.	Part Number	Qty	Description
MG41-1	17304120	4	Cylinder pin
MG41-2	57480100	4	Receptacle
MG41-3	121010030-12.9FZ	4	Allen screw
MG41-4	35210300	1	Gear fixed
MG41-5	35120800	2	Gear sliding
MG41-6	59270600	2	Shift fork MG41
MG41-7	22140300	2	Spacer ring
MG41-8	2052172113	2	Needle roller bearing
MG41-9	21404700	2	Circlip
MG41-10	25010100	1	Plug
MG41-11	20796005	2	Ball Bearing
MG41-12	35120900	2	Gear on Bearing
MG41-13	21102500	3	Circlip
MG41-14	17306120	2	Cyl. Pin
MG41-15	123005014-10.9 FZ	4	C/S Allen Screw
MG41-16	14080900	4	Stud
MG41-17	40080100	4	Coupling cone male
MG41-18	35090300	1	Pinion input MG41
MG41-19	23120180	2	O-ring
MG41-20	20756204	1	Ball Bearing
MG41-21	21203000	1	Circlip
MG41-22	121005012-8.8FZ	1	Allen screw
MG41-23	16401300	1	Plain washer
MG41-24	20756006	1	Ball bearing
MG41-25	16290400	1	Washer
MG41-26	58352500	1	Upper cover MG41
MG41-27	14220100	2	Coupling Screw
MG41-28	17310260	2	Cyl. Pin
MG41-29	23140054	2	O-ring
MG41-30	24003004707	2	Seal
MG41-31	121008008-8.8Fz	1	Allen screw
MG41-32	23208713	1	Dowty washer
MG41-33	122908010	3	Grub screw
MG41-34	59330300	1	Shift cam MG41

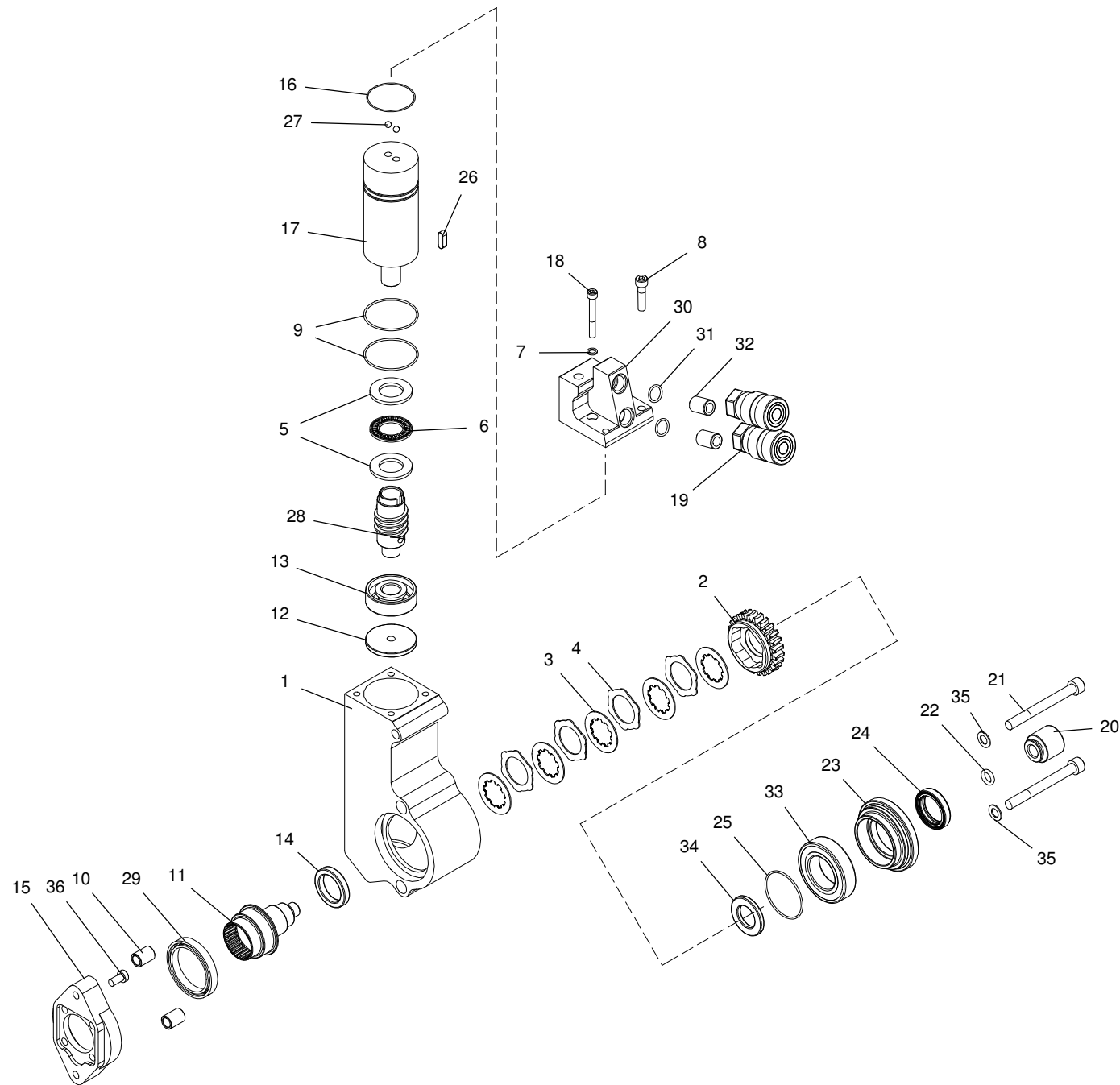


Item No.	Part Number	Qty	Description
MG41-35	122906016	1	Grub screw
MG41-36	17304100	4	Cyl. Pin
MG41-37	23115024	1	O-ring
MG41-38	23120012	1	O-ring
MG41-39	59450300	1	Detent housing MG41
MG41-40	20310800	1	Ball
MG41-41	23091220	1	Scraper
MG41-42	22110410	1	Support Ring
MG41-43	59550200	1	Index knob MG41
MG41-44	14040200	1	Coupling screw MG41
MG41-45	22111415	1	Support ring
MG41-46	17305140	1	Cyl. Pin
MG41-47	43280200	1	Support
MG41-48	16352026	1	Washer
MG41-49	25032015	1	Magnetic plug
MG41-50	16240400	1	Washer eccentric shaft
MG41-51	121010025-12.9FZ	1	Allen screw
MG41-52	57095000	1	Gearbox housing MG41
MG41-53	121004008-8.8FZ	2	Allen screw
MG41-54	16400409	2	Washer
MG41-55	20796205	1	Ball bearing
MG41-56	20756302	1	Ball bearing
MG41-57	23140017	1	O-ring
MG41-58	26060100	1	Sleeve MG41
MG41-59	58352400	1	Cover lower MG41
MG41-60	34190400	1	Primary shaft MG41
MG41-61	34200400	1	Layshaft MG41
MG41-62	59260700	1	Shift rod MG41
MG41-63	17306400	2	Cylinder pin
MG41-64	35110600	1	Pinion 1:st gear MG41
MG41-65	35210400	1	Gear fixed
MG41-66	16020300	1	Axial washer
MG41-67	22112520	1	Support Ring
MG41-68	20512016	29	Needle roller
MG41-69	32120617	1	Compression spring

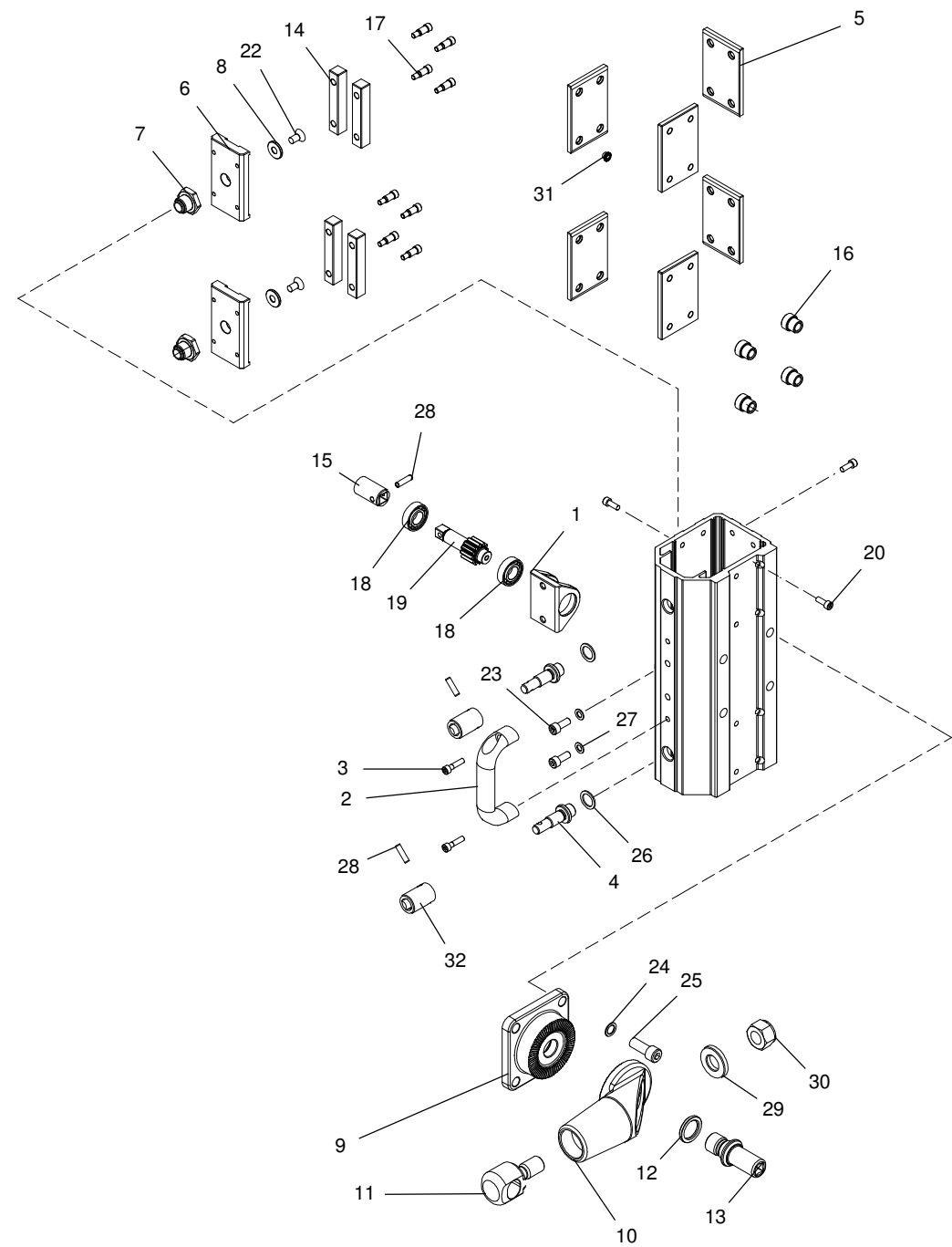


Pentruder Modular Drilling System, Hydraulic motor 16 cc HT16 / 25 cc HT25**Page HT**

Item No.	Part Number	Qty	Description
HT-1	23200012	4	Dowty washer
HT-2	25060400	2	Plug
HT-3	19231212	2	Fitting out
HT-4	60351000	1	Valve Block Reversible
HT-5	60380600	1	Valve spindle Reversible
HT-6	60620101	1	Pressure relief valve
HT-7	121010020-12.9FZ	2	Allen screw
HT-8	21203000	1	Circlip
HT-9	38040200	1	Coupling Bruning Male
HT-10	38090200	1	Coupling Bruning Female
HT-11	58352600	1	Hydraulic motor flange
HT-12	15180100	2	Lock stud
HT-13	121008020-12.9FZ	2	Allen screw
HT-14	22110810	2	Supprt ring
HT-15	17304100	4	Cyl. Pin
HT-16	53090200	1	Lever
HT-17	23120025	1	O-ring
HT-18	23125030	1	O-ring
HT-19	33051012	2	Bushing
HT-20	19231600	1	Fitting
HT-21	19060800	1	Angular fitting
HT-22	19231700	1	Adapter pressure gauge
HT-23	23300100	1	Seal washer pressure gauge
HT-24	66025000	1	Pressure gauge
HT-25	22111012	8	Washer
HT-26	121206006-8.8FZ	1	Allen Screw
HT-27	16350600	1	CU-washer
28			see below
29			see below
			16 cc
HT16-28	121010140-8.8Fz	4	Allen screw
HT16-29	10841600	1	Hydraulic motor 16 cc
			25 cc
HT25-28	121010150-8.8Fz	4	Allen screw
HT25-29	10842500	1	Hydraulic motor 25 cc



Item No.	Part Number	Qty	Description
HD-1	57350100	1	Housing Feed Unit
HD-2	35430600	1	Worm gear friction type clutch
HD-3	27030100	5	Plate, slip-clutch inner teeth
HD-4	27050100	4	Plate, slip-clutch out. teeth
HD-5	200181104	2	Axial thrust washer
HD-6	20082035	1	Axial needle roller bearing
HD-7	16350100	3	Seal Washer OML-motor
HD-8	121006025-12.9FZ	3	Allen screw
HD-9	23115042	2	O-ring
HD-10	26280100	2	Dowel
HD-11	34180100	1	Drive shaft feed unit
HD-12	16290100	1	Washer, for bearing extraction
HD-13	20877302	1	Angular ball bearing
HD-14	16241100	1	Washer feed unit
HD-15	58362000	1	Adapter plate feed unit
HD-16	23110040	1	O-ring
HD-17	60010201	1	Hydraulmotor
HD-18	121005035-12.9FZ	3	Allen screw
HD-19	38130100	2	Hydr. Coupling Holmbury
HD-20	26360200	1	Socket feed unit
HD-21	121008075-8.8FZ	2	Allen screw
HD-22	23130014	1	O-ring
HD-23	58250200	1	Cover travel 6 - 10 / 6 - 16
HD-24	24002503507	1	Radial seal
HD-25	23115053	1	O-ring
HD-26	29110100	1	Tap
HD-27	20310500	2	Ball
HD-28	35500100	1	Worm screw
HD-29	207661908	1	Ball Bearing
HD-30	58280200	1	Cover OML right 6 - 10
HD-31	23116013.1	2	O-ring
HD-32	50010100	2	stud
HD-33	20756006	1	Ball bearing
HD-34	16241200	1	Washer feed unit
HD-35	22110810	2	Support ring
HD-36	121206012-8.8FZ	4	Allen Screw



Item No.	Part Number	Qty	Description
PD2-1	57170600	1	Bearing housing
PD2-2	53011000	1	Handle
PD2-3	121006025-8.8FZ	2	Allen screw
PD2-4	14040300	2	Clamp screw
PD2-5	46400100	6	Glide plate
PD2-6	46440100	2	Support block
PD2-7	15140700	2	Nut insert angular head
PD2-8	16240900	2	Washer C/S support plate
PD2-9	43500200	1	Face tooth coupling, square,
PD2-10	43500300	1	Male coupling w/ face tooth coupling
PD2-11	14030100	1	Pull stud
PD2-12	16241400	1	Washer clamp screw
PD2-13	14040100	1	Clamp screw
PD2-14	46400200	4	Glide block
PD2-15	26360100	1	Socket
PD2-16	15140300	4	Nut insert
PD2-17	122006008-12.9Fz	8	Shoulderscrew
PD2-18	20756003	2	Ball Bearing
PD2-19	34170500	1	Pinion pivoting head
PD2-20	121006016-8.8FZ	24	Allen screw
PD2-21	5626010320	1	Profile pivoting head
PD2-22	123008016-10.9FZ	2	Allen screw
PD2-23	121008020-12.9FZ	2	Allen screw
PD2-24	22111212	4	Washer
PD2-25	121010030-12.9Fz	4	Allen screw
PD2-26	22111715	2	Support ring 17 x 24 x 1.5
PD2-27	22110810	2	Support ring
PD2-28	17406024	3	Split pin
PD2-29	16240500	1	Washer pull stud
PD2-30	12070120	1	Locking nut
PD2-31	12070506	24	Insert Nut
PD2-32	26360300	2	Socket Pivoting Head