CLAUSING KONDIA FV1-CNC VARIABLE SPEED HEAD REBUILD PARTS LIST

As much as I offer the following information, I need to STRESS that I have not carried out the rebuild, and so may find out that there are other parts that are needed in due course. And as always, you use this information at your own risk, I cannot guarantee the information in the Clausing-Kondia manuals as being correct!

So, as far as I can determine, this lists the bearings and belts needed for a FV-1-CNC vari-speed head rebuild as per the specs in the Clausing-Kondia FV-1 CNC manual:

Kondia Part #	Needed	Part # on Drawing	Alternate	Notes
486-2 Bearing	1	FAG 6206-P6		
503-2 Timing Belt	1	Conti 1020	ContiTech 560-8M-30	New part #
825-10 Bearing	1	FAG 6007 2ZR C3		
826-10 Bearing	2	Timken 9110 PP	6010-ZZ used on the non-	Appears to be
			CNC machine	interchangeable
827-10 Bearing	2	SKF 6008 JEM		
828-10 Bearing	2	SKF 6203 RS		
830-10 Variable Speed	1	ROFLEX 37J0910FR	Gates 2322V347 9804-	
Drive Belt			0680	

It does not appear that the bearing manufacturer is critical since the specs are sufficient to source from multiple manufacturers. If in doubt, find a European or Japanese manufacturer (avoid Chinese makers).

I found a post that mentioned a couple of plastic sleeves used on the sheaves that might need replacing, but the posting seemed to indicate that it would be very unusual if they needed attention.

I do not have the part # for the bearing that sits under the motor: if anyone knows the spec of that bearing, please let me know.

1 x 22-10 PARIN BEARING FAG 0007 ZER.U3 2 x 826-10 PARIN TEMPORT 110-pp (or 6010-ZZ used on manual machine 2 x 827-10 SKF-6008-JEM 2 X 828-10 SKF 6203-RS 1 x 486-10 6206-P6

1 x 830-10 DRIVE BELT CONT 20-85 - GATES EQUIV 2322 V347 Gates 98 04-0680 VARIABLE SPEED BELT 1 x 503-2 TIMING BELT (BACK GEAR) - CONTINENTAL 560-8M-30

555-2	Special ring	717-10	Drive pan	755-10	Driving gear		798-10	Grid	868-10	Elastic pin Ø 2 x 10
556-2	Conical pin	718-10	Balancing beam	756-10	Square head screw	· -	825-10	FAFNIR bearing FAG 6007. 62R. 22	869-10	Allen setscrew RM-5x5
557-2	Bakelite ball @ 35 RM-8	719-10	Balancing beam bushing	757-10	Cover	2 -	826-10	FAFNIR bearing FAFFING TITLE	870-10	Allen setscrew RM-6 x 5
558-2	Allen Screw RM 5x45	720-10	Traction springs	758-10	Gear shaft		827-10	FAFNIR bearing ELE Good Ten	871-10	Spring Ø 5x 1
560-2	Sleeve	721-10	Main pulley ring	759-10	Locking piece		828-10	6203 2 RS Bearings	872-10	Steel ball Ø 5
564-2	Setscrew	722-10	Pulley fastening ring	760-10	Main motor		830-10	"Continental" belt 20-85 type	873-10	Allen setscrew RM-6 x 10
565-2	Aluminium elbow	723-10	Cover for main spindle bearing	761-10	Motor bushing		831-10	Elastic pin Ø 3	874-10	Elastic ring E-10
566-2	Conical pin	724-10	Clutch ring	762-10	Spring rest		832-10	PHILLIPS screws Ø 3	876-10	Allen screw RM-8 x 25
569-2	Steel felt	725-10	Upper cover of framework	763-10	Operating spring -		833-10	ALLEN screws, RM-5 x 25	877-10	Elastic ring E-8
570-2	Felt washer	726-10	Shaft of brake operation	770-10	Operating support		834-10	ALLEN screws, RM-6 x15	878-10	Allen setscrew RM-6 x 10
571-2	Quill skirt	727-10	Brake cams	771-10	Wormgear		835-10	Elastic ring E-38	880-10	Tapered balls 25x 40
572-2	Washer	728-10	Splined bushing	772-10	Gear		836-10	Wavy washer @ 62	882-10	Allen screws RM-4x10
574-2	Greasing sleeve	729-10	Brake rotation bolt	773-10	Bushing		837-10	Washer @ 8	883-10	Allen setscrew RM-5 x 10
575-2	Sleeve	730-10	Brake bushing	774-10	Bushing		838-10	Nut RM-10	884-10	Cylindrical pin Ø 5x22
576-2	Sleeve	731-10	Brake shaft bushing	775-10	Operating shaft bushing		839-10	Washer Ø 10	885-10	Blind nut
579-2	Washer	732-10 734-10	Fastening-draw bar	776-10	Operating shaft		841-10	Nut RM-8	886-10	Screw RM-4x 10
581-2	Rivet	735-10	Key 5 x 4 x 4	777-10	Bushing		842-10	Cotter (shear) pin @ 3	887-10	Elastic pin Ø 3 x 12
583-2	Allen screw	736-10	Key	778-10	Ring		844-10	Allen setscrew RM-6x10	888-10	Allen setscrew RM-6x 10
587-2	Setscrew	737-10	Splined shaft Washer	779-10	Pin		845-10	Allen screws RM-10x25	889-10	Allen screw castellated head, RM-4 x 10
588-2	Setscrew	740-10	Splined hear hub.	780-10	Metal sheet for air piping		850-10	Washer @ 12	890-10	Allen setscrew M-8 x 10
589-2	Pin	741-10	Sliding bearing box	781-10	Pin		851-10	RM-12 nut	891-10	Castellated screw M-4x12
591-2	Washer	742-10	Bushing	782-10 783-10	Regulating nut		852-10	Elastic ring I-68	892-10	Castellated screw M-3x12
600-2	Hauling key	743-10	Spacing bushing	784-10	Chain		853-10	Allen screw RM-8 x 25	894-10	Allen setscrew M-4 x 8
601-2	Allen screw M 6 x 15	744-10	Lever hub	785-10	Regulating spindle		854-10	Elastic pin Ø 3	895-10	Allen screw M-6 x 20
701-10	Belts cover	745-10	Tooth change shaft	786-10	Warning plate Firm plate		856-10 857-10	Elastic ring E-50 Cotter 8 x 8 x 30	896-10	Rivet
702-10 703-10	Gearbox	746-10	Rotation plate	787-10	Handwheel		858-10	Wavy washer Ø 40	897-10	Castellated screw M-3 x 5
	Main spindle support	747-10	Locking nozzle	788-10	Handwheel hub			Nut RM-14	898-10	Screw RM 10x30
704-10 705-10	Support plate Down cover of framework (housing)	748-10	Control lever	789-10	Control handle		859-10 860-10	Washer Ø 14	899-10	Grower washer Ø 10
706-10	Pulley shaft clutch	749-10	Spring	790-10	Operating shaft		B61-10	Hexagon-head screws RM-6 x 20		
707-10	Main spindle pulley	750-10	Clutch springs	791-10	Speed plate		B62-10	Allen setscrew RM-6x8		
708-10	Main sliding pulley	751-10	Guideways flances	792-10	Speed disk		863-10	Cotter 6x 6x 20		
709-10	Sliding motor pulley	752-10	Drive ring	793-10	Spindle feed plate		B65-10	Elastic pin Ø 6x15		
709-H-10		753-10	Pins	795-10	Speed change plate		866-10	Cotter 4x4x7		
715-10	Main spindle brake	754-10	Protecting sheet	797-10	Lubrication plate		867-10	Allen screws RM-6×15		
, 13-10	Wall aprilate brake		-		Eddington piete		007-10	Care and the Care and		

154-2	Sleeve	191-2-A	Reverse clutch_rod	405-2	Special pin	444-2	Worm gear spacer	494-2	Key 5 x 5 x 26
155-2	Sleeve	192-2-A	Feed worm shaft	407-2-A		445-2	Dowel pin	F√ 503-2	Timing belts
157-2	Quill housing	193-2-A	Feed shift rod	408-2-A	Cam rod	446-2	Cluster gear shift crank	504-2	Gits oil cup
158-2-A	Quill nosepiece	194-2	Feed reverse bevel gear	409-2	Elastic pin	447-2	Anchorage shaft	508-2	M3 Washer
159-2-A	Quill stop micro screw	195-2	Feed bevel pinion	410-2	Trip plunger bushing	448-2	Micrometer nut	509-2	Allen screw RM 6x18
160-2	Quill lock sleeve	196-2	Cluster gear input shaft	411-2	Feed trip plunger bushing	449-2	Quill micro stop nut	510-2	Conical pin
161-2-A	Quill	197-2	Cluster gear shaft	412-2	Feed reverse trip plunger	450-2	Clock spring	51 1-2	Conical pin
162-2-B	Feed trip lever	198-2	Cluster gear cover	413-2	Reverse trip ball lever screw	456-2	Lever shaft	513-2	Special setscrew
163-2	Feed trip plunger	199-2	Shift crank	414-2	Cluster gear shaft upper bearing	460-2	Spring setscrew	514-2	Allen screw H 8 x 40
164-2-A	Discharge piston	200-2	Feed gear shifter fork	415-2	T-bolt	461-2	Spring	515-2	Key 4x4x25
165-2	Trip handle	201-2	Feed worm gear shaft sleeve	416-2	Black plastic ball handle 25 mm. dia.	463-2	Boston Worm	517-2	MB washer ignore h/lite
166-2	Quill stop knob	202-2	Worm gear cladle throw-out	417-2	Anchorage nozzle	464-2	Feed drive worm gear shaft	521-2	Bearing
	Reverse trip ball lever	203-2-A	Worm gear gradle	418-2	Pinion Shaft Hub screw	465-2	Feed drive worm gear	522-2	Special setscrew
167-2 168-2-A		204-2	T-Bolt	419-2	Quill pinion shaft bushing	466-2	Feed engage pin	523-2	Elastic ring Ø E-10
	Cam rod sleeve assembly	205-2	Sprocket	420-2	Pinion shaft worm gear spacer	467-2	Drawbar washer	524-2	Setscrew RM 6 x 8
169-2	Feed trip bracket	206-2	Graduated scale	404.0	Overload clutch lever spring plunger	468-2	Worm gear	525-2	Elastic ring Ø E-15
170-2 171-2	Overload clutch worm gear	207-2	Safety clutch spring	421-2	Dowel pin	469-2	Worm shaft	526-2	Key 5x5x20
	Quill pinion	208-2-1	Graduated area	423-2	Allen setscrew RM 6x20	471-2	Key 4x4x7.5	527-2	Hexagonal Head Screw RM 5 x 20
172-2	Overload clutch ring	210-2	Spindle bull gear	424-2	Overload clutch washer	472-2	Key 5 x 4 x 12	528-2	Key 5x5x16
173-2-A	Overload clutch sleeve	212-2				474-2	Handwheel		Steel ball Ø 5
174-2	Overload clutch trip lever	212-2	Castellated nut	425-2 426-2	Compression spring	474-2-A	Handwheel handle	5 29-2 5 30-2	Spring 5
175-2	Clutch arm cover	213-2	Timing belt pulley	427-2	Compression spring	475-2	Elastic ring E-16	531-2	Nozzle
176-2	Overload clutch		Timing belt pulley flange		Compression spring	476-2	Steel ball Ø 5		Round head screw RM-4x 18
178-2	Spring cover	231-2	Brake lock handle	428-2	Overload clutch locknut	477-2	Conical pin	532-2	
179-2	Pinion shaft hub sleeve	232-2	Brake rotation screw	429-2 430-2	Clutch ring			532-A-2	Adjustment key
180-2-A	Pinion shaft hub	233-2-C	Main spindle		Washer	478-2	Elastic pin Ø 4	533-2	Pin fastening screw
181-2	Quill pinion shaft	236-2	Cotter 10x8x15	431-2	Feed drive cluster gear	479-2	RM-8 nut	534-2	M 12 Nut (exagonal)
182-2	Bushing	241-2	Special setscrew	432-2	Feed drive cluster gear (center)	480-2	Key5x3x9	535-2	M 12 special nut (exagonal)
183-2	Hollow head cap screw	243-2	Allen special setscrew	433-2	Feed drive cluster gear (upper)	481-2	Screw round Head RM 4x12	543-2	Washers Ø 12
184-2	Feed reverse bevel gear	244-2	Allen special setscrew	434-2	Washer	482-2	Key 3x3x9	547-2	Setscrew
185-2-A	Coupling	245-2	Allen special screw	435-2	Feed worm shaft bushing	483-2	Indicator rod	548-2	Pin
186-2	Conical pinion	398-2	Feed driving gear	436-2	Reverse knob	484-2	Conical pin	549-2	Key 4x4x30
187-2	Allen setscrew RM 6x15	399-2	Feed drive gear	437-2	Handle screw	485-2	Allen screw RM 5x 15	550-2	Key 4x 4x 22
188-2	Angular contact ball bearing	400-2	Feed bevel gear	438-2-A	Spindle dirt shield	486-2	Bearing 6206-Ph	551-2	Special key
189-2	Bushing	401-2	Quill lock bolt	441-2	Castellated nut (KM)	487-2	Roll pin	552-2	Key 4x4x45
190-2-A	Hand wheel coupling	404-2	RM 4x8 pin	443-2	Shift sleave	488-2	Conical pinn	554-2	Special ring



