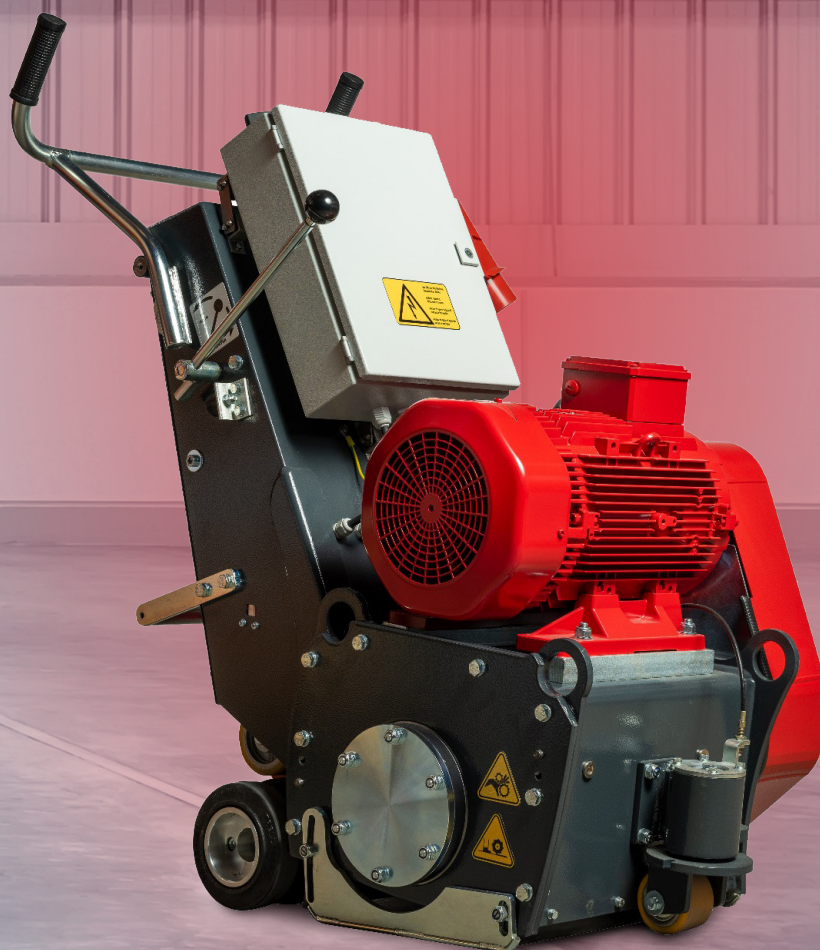




FEROX 320

MANUAL




SCANMASKIN
MACHINES-MINERALS-KNOW-HOW

Ferox 320 fräs/shaver

Kära kund!

Tack för att du har valt Scanmaskin.

Vi önskar dig lycka till med din nya Ferox 320 fräs/shaver och hoppas att den lever upp till dina förväntningar.



Paulo Bergstrand
Verkställande direktör

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Telefon: +46 (0) 31 99 49 70
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Viktig information!

Den här manualen behandlar endast fräsmaskinen "**Ferox 320 fräs/shaver**" benämnd "Ferox 320".

Om **Ferox 320 fräs/shaver** används för andra ändamål eller hanteras på annat sätt än som anges i denna bruksanvisning, frånsäger sig Scanmaskin Sweden AB allt ansvar.

Uppmärksamma särskilt avsnittet "4. Säkerhetsföreskrifter för drift av Ferox 300". Läs manualen innan du använder Ferox 320 fräs/shaver.

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1 MASKINTILLÄMPNINGAR

Utjämning av horisontella, torra golv såsom betong- och stålytor med eller utan beläggning och asfalt med utjämningsverktyg. Maskinen kan endast användas utomhus vid torrt väder.

2 TEKNISK INFORMATION

2.1 Ytfräs

Avverkningsbredd	320 mm (12,5 tum)	
Bredd	61 cm (24 tum)	
Längd	110 cm (43 tum)	
Höjd-	110 cm (43 tum)	
Vikt med trumma	230 kg (507 lbs)	
Stoftport \varnothing	70 mm (2,86 tum)	
Höjjustering	Handratt och spak	
Handtag med vibrationsdämpning	Gummiblock på handtagets fäste	
Elmotor	Europa	USA
	400 V,	460 V,
	11-15 kW,	17,3 kW (23,5 hk)
	50 Hz	60 Hz
Genomsnittligt accelerationsvärde a_{hv} *	8,6 m/s ²	
Bullernivå L_{wa} *	109 dB(A)	
Bullernivå L_{eq} *	96 dB(A)	

2.2 Verktyg

Trummått	225 mm (10 tum)
Fräsaxelmått	20 mm (0,82 tum)
Antal axlar	6
TCT-fräs	80/8
Fräskärare	80/20
Fräsaxel \varnothing	80
Max antal TCT-fräsar	128
Max antal fräskärare	36

3 VERKTYGENS TILLÄMPNINGAR

- TCT-fräsar
Slitstarka fräsar med lång livslängd för all strukturering, hyvling, utjämning och räffling av betong. Kan också användas för borttagning av vägmarkeringar, tak med stenflis och spricklack
- Fräskärare
Används primärt för borttagning av termoplastiska markeringar på vägar/landningsbanor. De är kostnadseffektiva och ytterst effektiva eftersom de är doppade i volframkarbid. Det finns ett brett utbud av frässtorlekar.
- Fräskär
Fräskären är värmebehandlade för borttagning av färgskikt och cementslam från ny betong. De kan också avlägsna fett, smuts och isbeläggningar.

4 SÄKERHETSFORESKRIFTER



Observera!

Betongytfräsarna Ferox 320 är konstruerade enligt existerande säkerhetsföreskrifter och -bestämmelser. Dessa tekniska försiktighetsåtgärder får under inga omständigheter tas bort eller modifieras. Beakta även följande under drift av maskinen:

1. Ytfräsarna ska alltid användas med alla säkerhetsskydd och tekniska försiktighetsåtgärder.
2. Operatören får aldrig lämna maskinen under drift.
3. Alla roterande delar måste bringas till stillestånd innan maskinen lämnas. De elektriska modellerna måste koppla från elnätet. Se till att maskinen inte kan rulla iväg eller förflytta sig.
4. Alla säkerhetsskydd måste monteras tillbaka efter underhåll och justering.
5. Om bullernivån överskrider 90 dB (A) måste hörselskydd användas.

Anslut en stoftavskiljare till ytfräsen om mycket stoft produceras under arbetet.

5 ANVÄNDNING

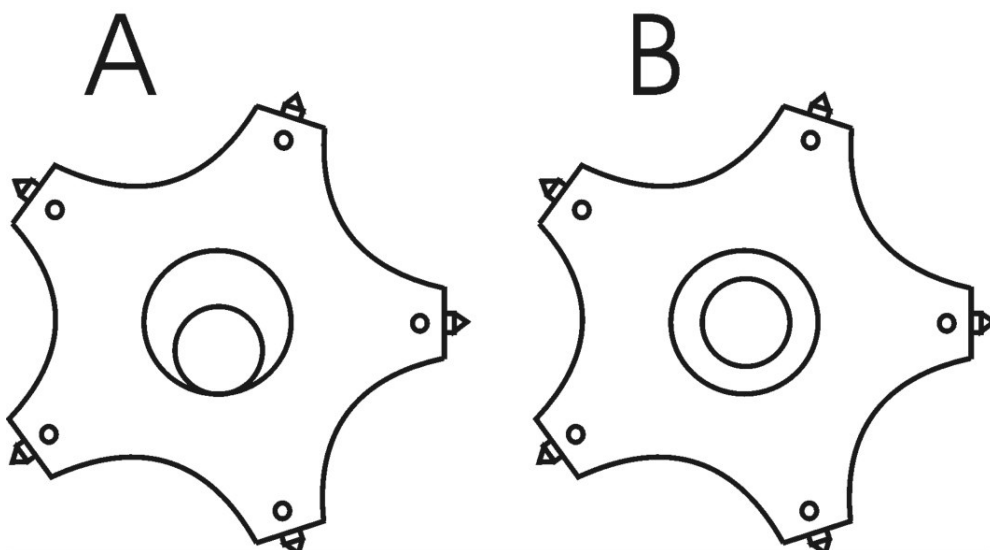
Efter montering av lämpliga verktyg kan ytfräsen användas. Spaken för höjdjustering (bilaga figur nr 97 och 99) måste befinna sig i den övre positionen innan maskinen slås på. Handratten för höjdjustering måste också vara vriden moturs så långt det går.

Slå på motorn. Sänk ytfräsen till driftpositionen med spaken. Vrid handratten för höjdjustering tills verktygen är nedsänkta till golvet och tills du kan uppnå önskad finish.

! **Observera!** Om verktygen sänks alltför mycket försämras maskinens prestanda. Du kommer också att förstöra axlarna i trumman och maskinens lager.

! **Observera!** Om fräsjusteraren sänks för lågt kommer buraxlarna att klämma fräsarna mellan axeln och ytan (A). Detta leder till brott i fräsarna, axlarna och buren. Fräsarna ska alltid kunna röra sig fritt omkring axlarna (B). Stora mängder stoft kan undvikas genom att ansluta en stoftavskiljare till stoftporten.

Handtaget med vibrationsdämpning gör hanteringen enklare.



Figur 1-1: Betongyta

6 BYTE AV TRUMMA

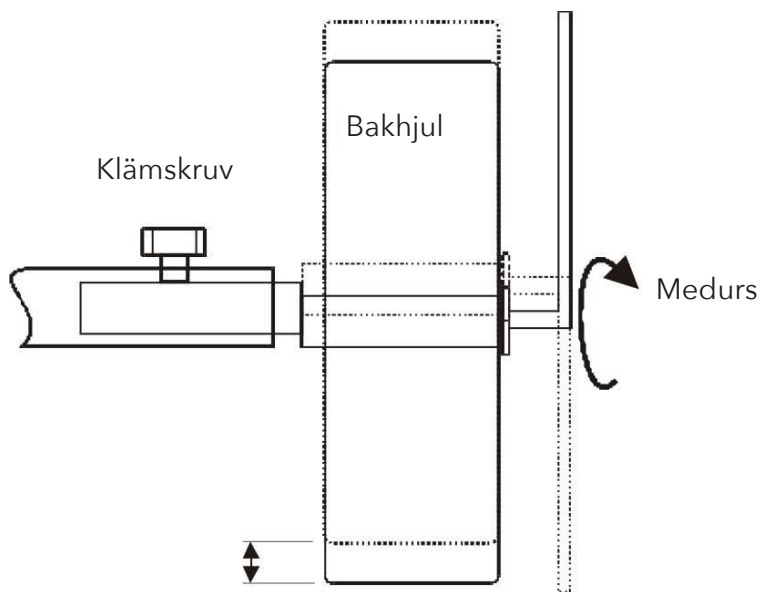
! **Observera!** Maskinen måste bringas till fullständigt stillestånd innan underhåll. Koppla alltid från maskinen om det är en elektrisk modell.

1. Lyft maskinen med spaken så att verktygen är en bra bit undan golvet.
2. Skruva ur skruvarna på höger plåt (M10, nyckelbredd 17 mm)
3. Ta försiktigt bort sidoplåten.
4. Ta ut trumman. Ta bort de utslitna verktygen. Kontrollera axlarna och trumman beträffande slitage. Byt vid behov till nya verktyg på trumman.
5. Smörj skaftet som trumman ska monteras på.
6. Montera tillbaka sidoplåten.

7 JUSTERING AV TRUMMAN

Under driften av ytfräsen Ferox 320 eller efter att trumman har ändrats eller bytts ut kan det hända att trumaxeln och axeln för bakhjulen inte längre är inriktade. Detta leder till ett ojämnt spår på golvet. Den ena sidan av trumman vidrör golvet innan den andra sidan och avverkar därför mer ytmaterial på den sidan.

De två bakhjulen är monterade på en excenteraxel (se figur 1-2).



Figur 1-2: Cylinder

Gör på följande sätt om trumman måste justeras:

Placera ytfräsen på ett jämnt golv. Lyft maskinen med handratten för höjdjustering tills alla verktyg är en bra bit undan golvet. Lossa excenteraxelns klämskruv. På den andra sidan av bakhjulet sitter en skruv som håller fast hjulet på axeln. Genom att vrida skruven vrids även excenteraxeln. Ytfräsen rör sig upp och ner på en sida. Vrid alltid skruven medurs. Om den vrids moturs lossnar skruven. Fortsätt att vrida tills alla verktyg på trumman har samma avstånd till golvet. Dra åt klämskruven igen.

8 UNDERHÅLL OCH RENGÖRING

8.1 Lager

Alla lager är livstidsinfettade.

8.2 Höjdjustering och leder

Alla leder måste smörjas regelbundet med ett standard maskinfett.

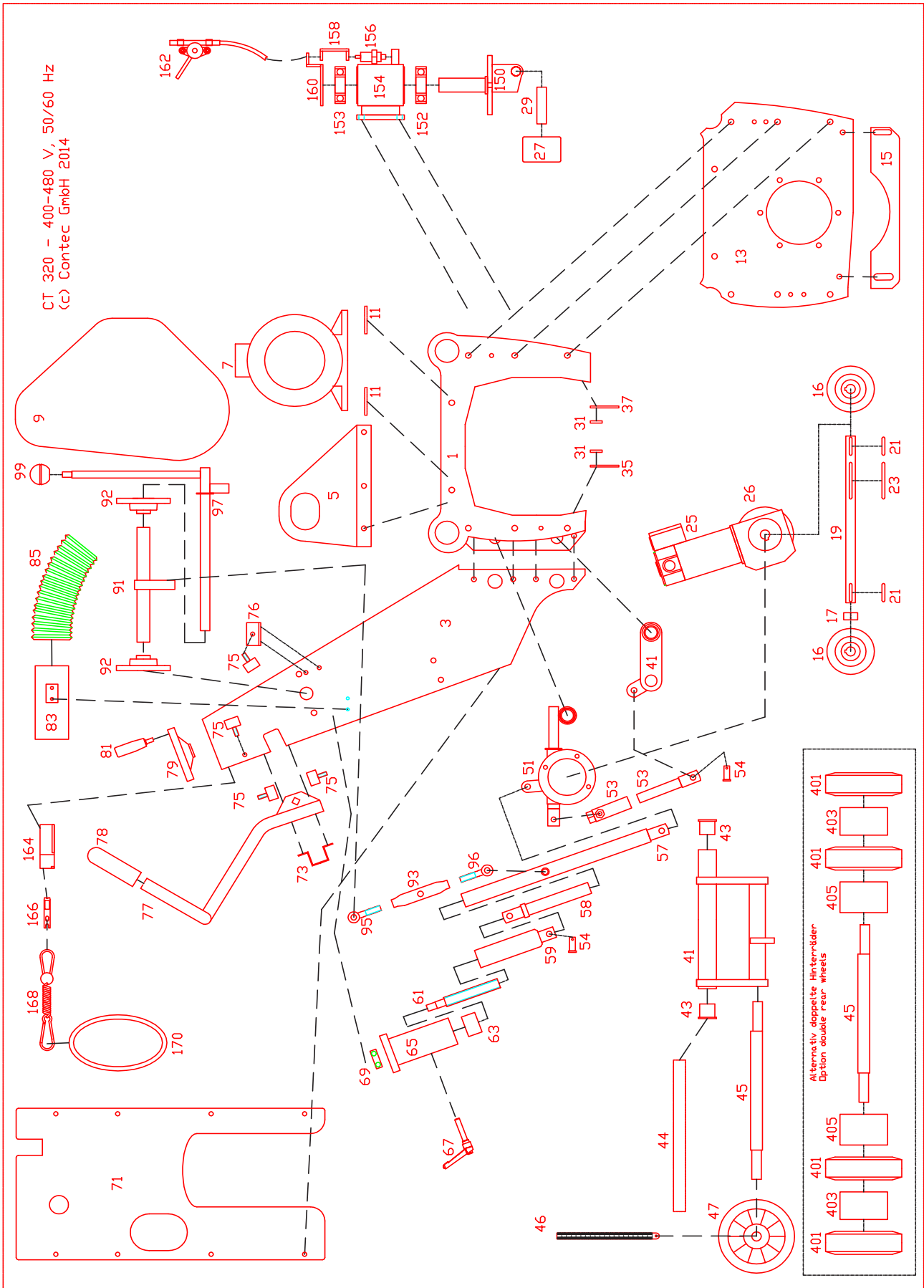
8.3 Drivremmen

Kontrollera remmarna ungefär var 30:e drifttimma. Remmen spänns automatiskt av ett spännhjul under remskyddet.

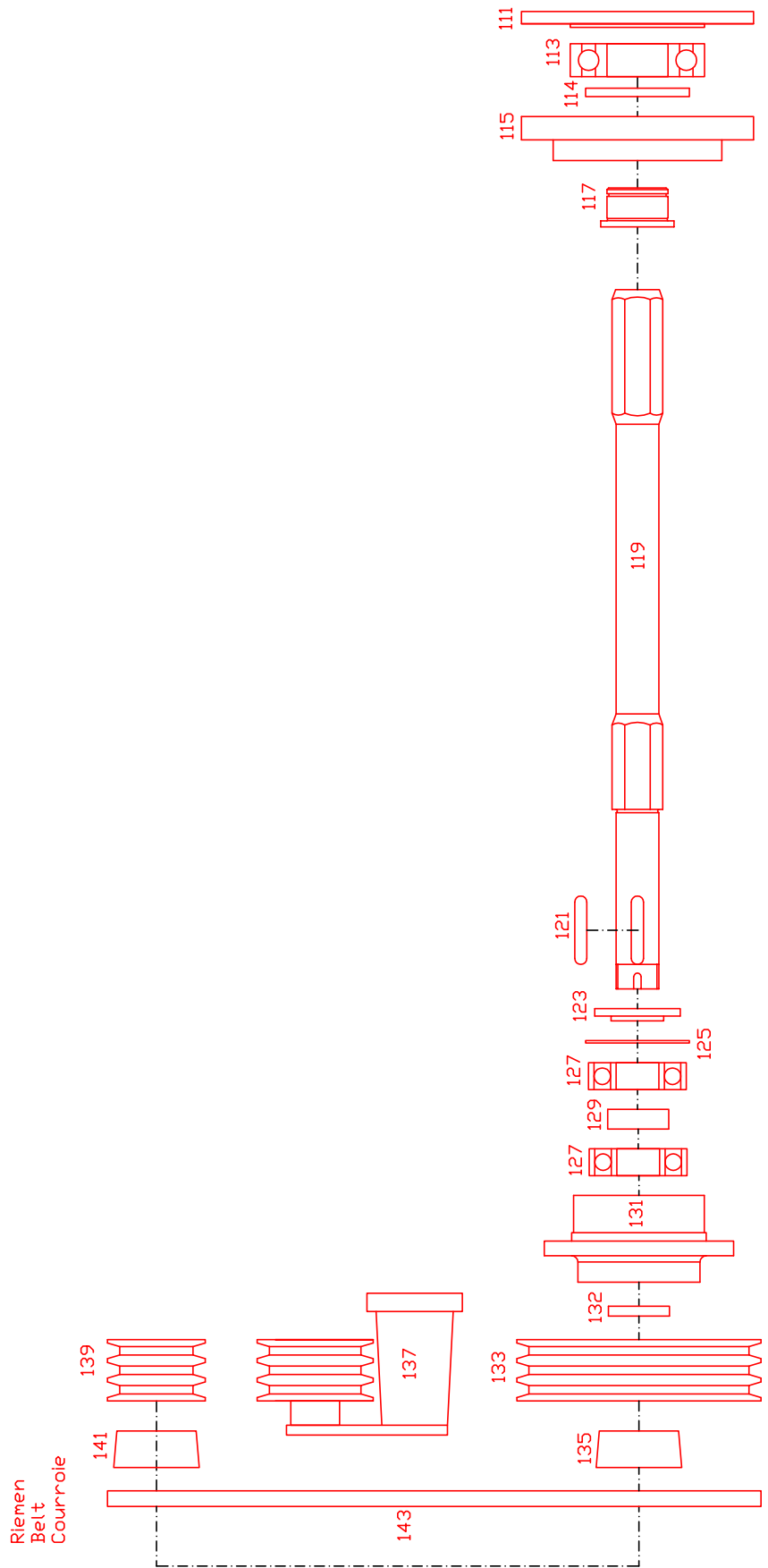
8.4 Rengöring

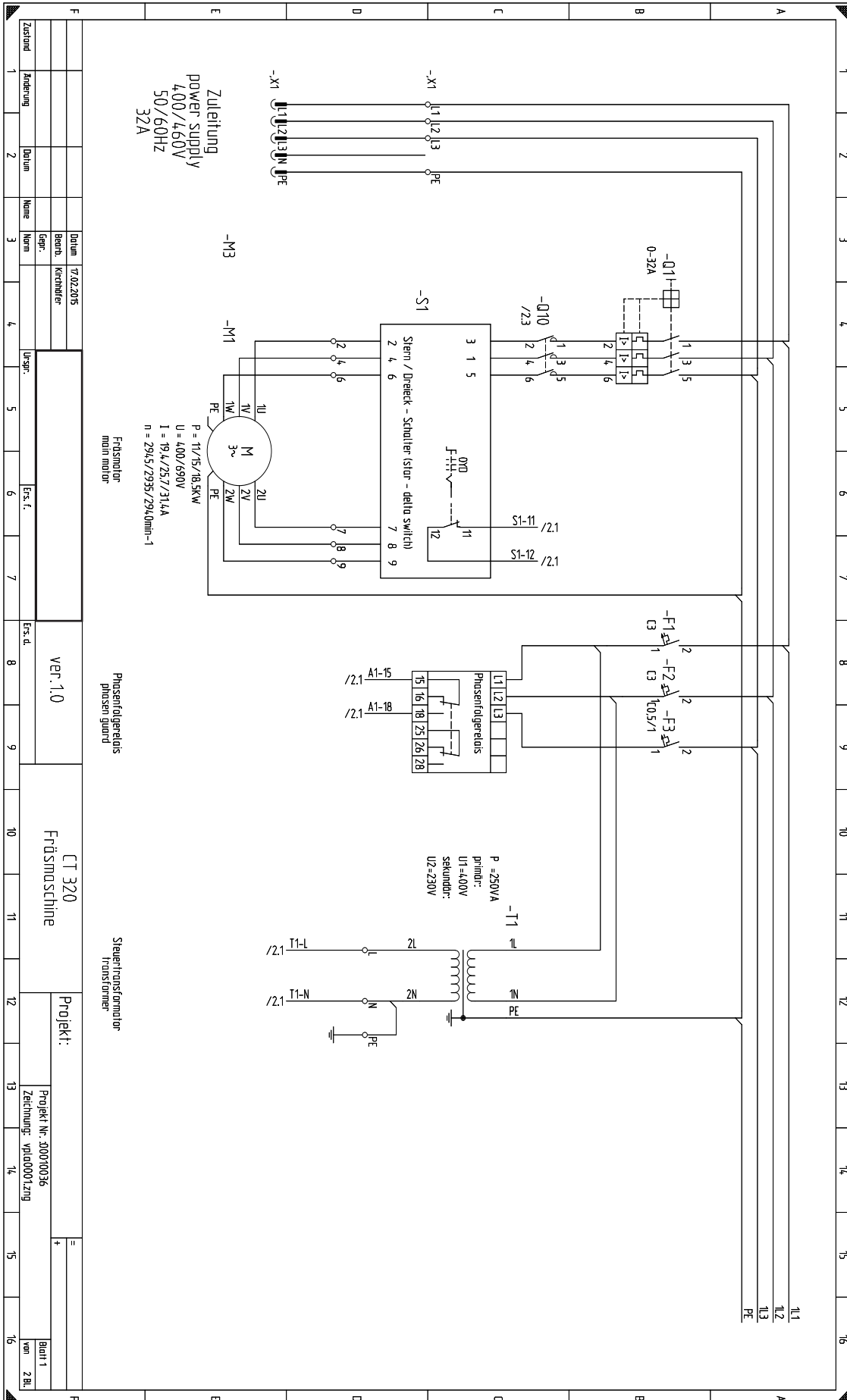
Regelbunden rengöring av maskinen förlänger livslängden för alla komponenter och verktyg i ytfräsen.

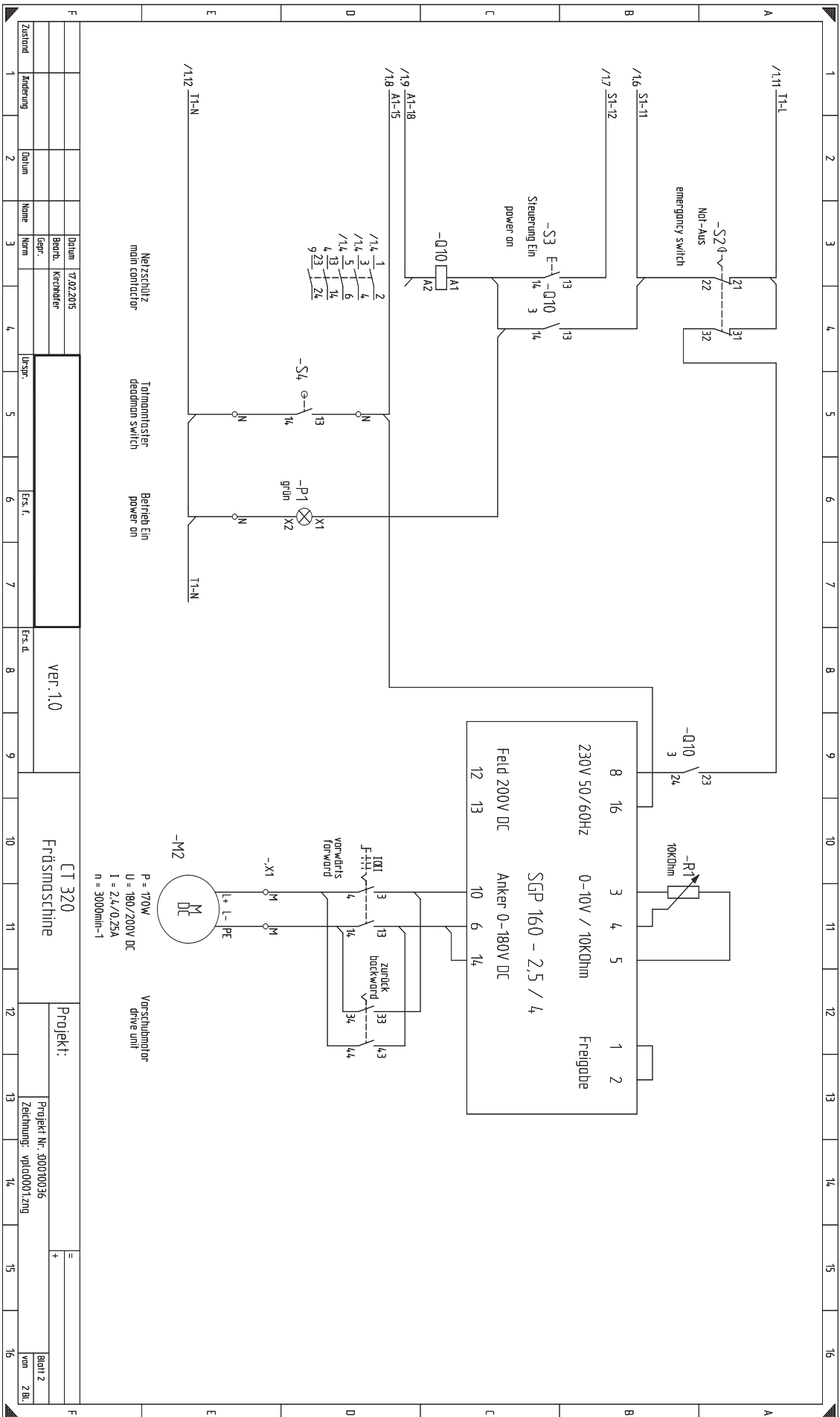
9 BILAGA



CT 320 Riementrieb und Trommelwelle /
 Belt drive and shaft
 (c) Contec GmbH 2016

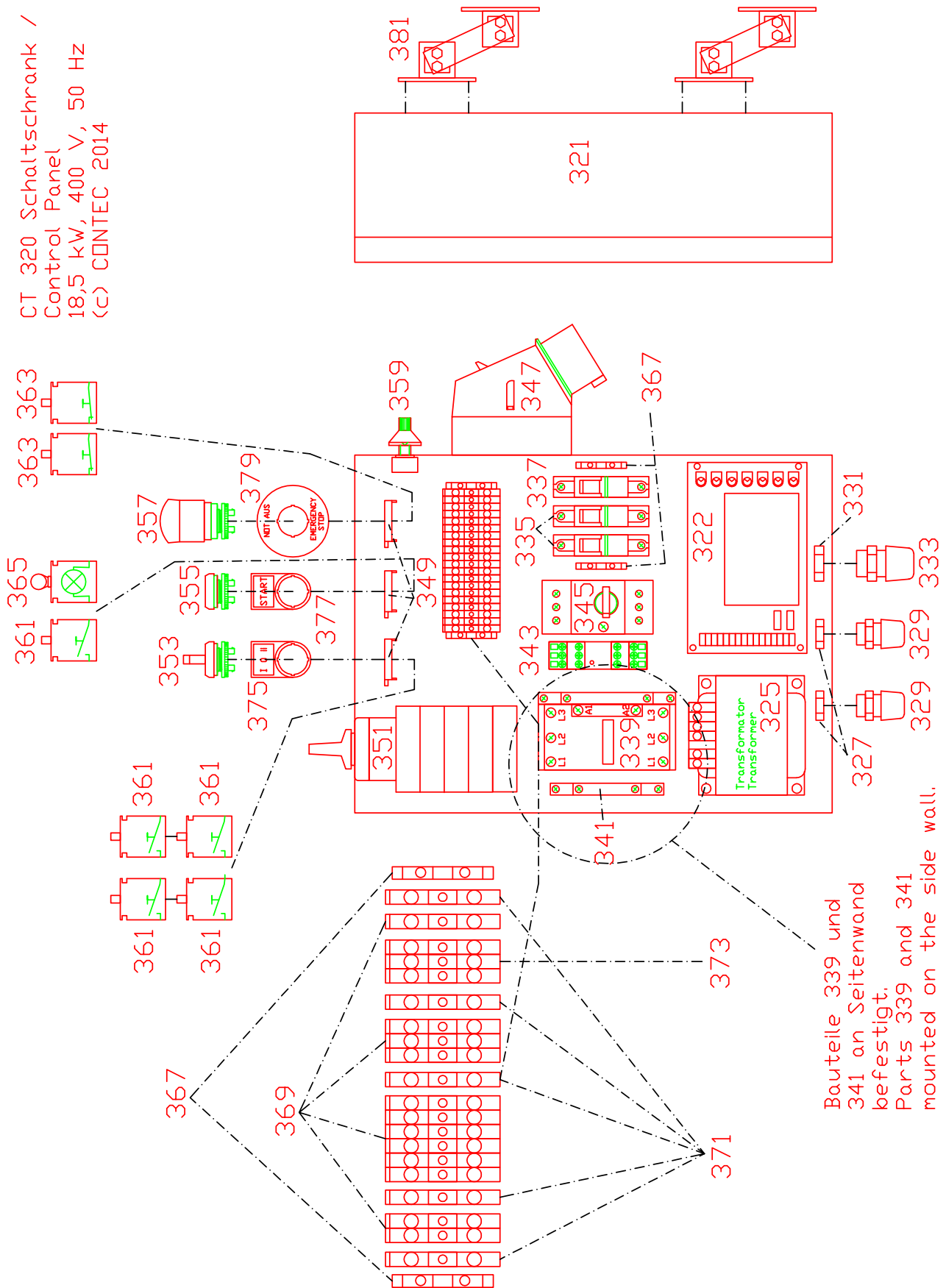






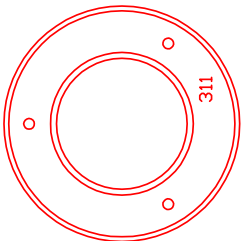
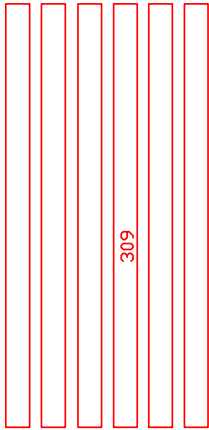
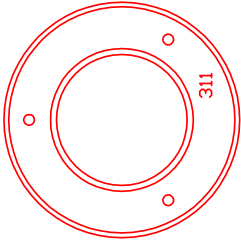
Zustand	Änderung	Datum	Name	Datum	Urspr.	Ers. f.	Ers. d.	Früsmaschine	Projekt:	Blatt 2
1				17.02.2015				CT 320	Projekt Nr. 30000036	von
2				Kirchner				Früsmaschine	Zeichnung: vpl000012mg	2 Bl.
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

CT 320 Schaltschrank /
Control Panel
18,5 kW, 400 V, 50 Hz
(c) CONTEC 2014



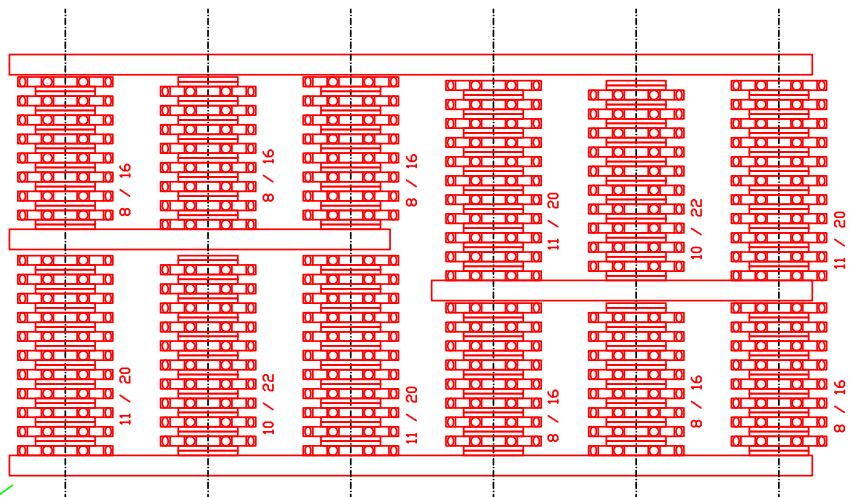
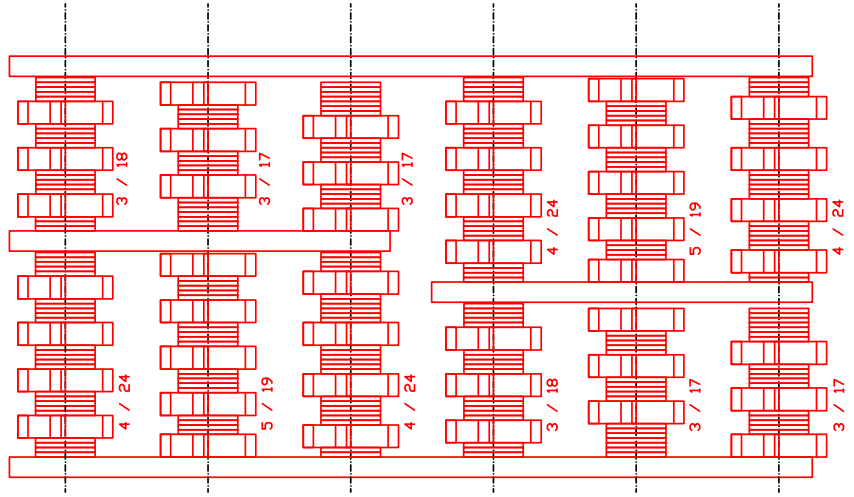
Werkzeuge für CT 320
Tools for CT 320
(c) Contec GmbH 2018

300 Trommel / drum

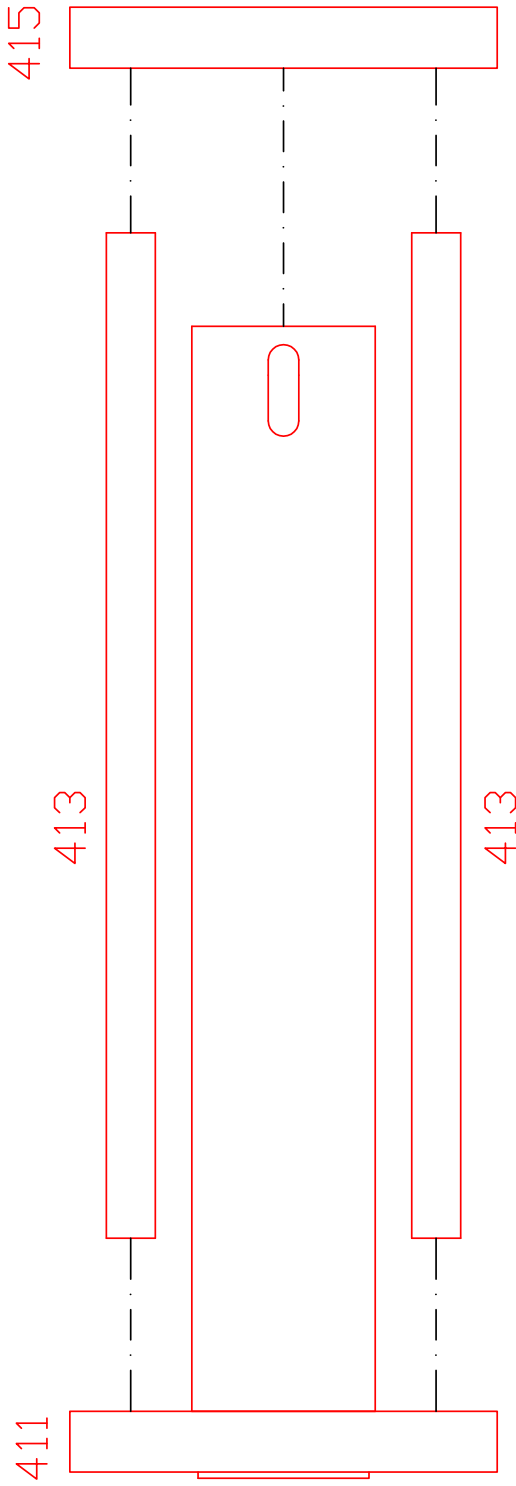


44 Walzenfräser
44 Beam flails
238 Scheiben
238 spacers

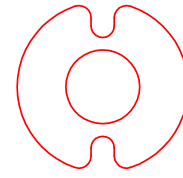
112 Lamellen
112 cutters
220 Scheiben
220 spacers



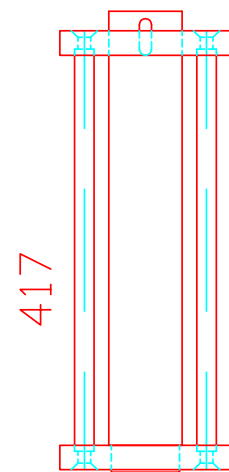
Diamanttrommel CT 320

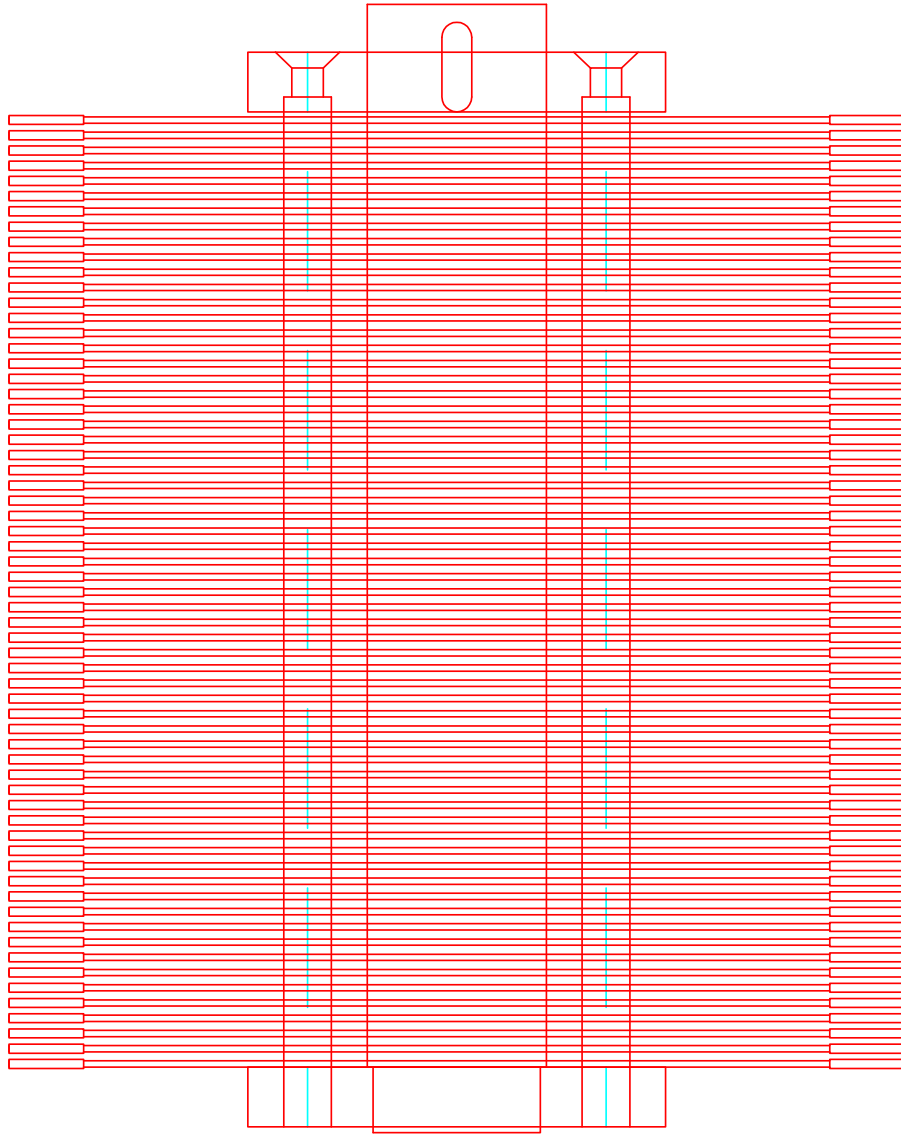


Distanzscheibe / Spacer



- | | |
|-------|-----|
| 1 mm | 419 |
| 2 mm | 421 |
| 3 mm | 423 |
| 5 mm | 425 |
| 8 mm | 427 |
| 10 mm | 429 |





63 Blatt / Blades

(Verwendungsbereich)	(Zul. Abw.)	(Oberfl.)	Masstab	(Gewicht)
CT320			Werkstoff RSt 37-2	
			(Benennung)	
			Trommel Voll	
			mit 3mm Distanz	
			(Zeichnungsnummer)	Blatt
			Firma	
			CONTEC GmbH	
			57518 Aisdorf	
Zust. Änderung	Datum/Name (Urspr.)	(Ers.f.)	(Ers.f.)	Bl.

Pos.	Part No.	Description	Quantity
001	19-10-40-00	Drum Housing complete	1
003	19-10-43-00	Handle Frame	1
005	19-10-49-01	Belt Cover rear Plate	1
007	55-04-46-75	Motor	1
009	19-10-48-01	Belt Cover	1
011	19-10-42-02	Motor Bracket	2
013	19-10-41-00	Side Plate right	1
015	19-10-46-00	Sealing Slide	2
016	80-20-31-00	Drive Wheel	2
017	90-21-95-52	Clamping Ring Drive Shaft	1
019	19-10-20-01-S	Drive Shaft	1
021	6885-40-6-7	Key	2
023	6885-80-6-7	Key	1
024	91-20-00-01	Plug Brass	2
025	50-20-20-19	Drive Unit Motor	1
026	50-20-20-20	Gearbox	1
027	80-20-80-60	Front Wheel	1
029	19-10-01-07	Front Wheel Axis	1
031	19-10-47-01	Bracket Rubber Sealing front/back	2
035	70-10-47-01-H	Rubber Sealing rear	1
037	70-10-47-01-V	Rubber Sealing front	1
041	19-10-04-09	Rear Wheel Swing	1
043	61-24-50-30	Bronze Bearing	4
044	19-10-04-05-L	Axis	2
045	19-10-04-06-S	Rear Wheel Axis	1
046	90-20-00-53	Ruler	1
047	80-20-31-60	Wheel	2
051	19-10-08-02	Motor Mounting	1
053	19-10-54-10	Level Adjustment	1
054	60-33-12-25	Pin for lifting Rod	2
057	19-10-54-20	Lifting Rod lower Part	1
058	19-10-05-06	Lifting Rod upper Part	1
059	19-10-05-03	Height Control Piston	1
061	19-10-05-02-C	Spindle	1
063	61-24-40-46	Bronze Bearing	1
065	19-10-05-01	Housing Height Adjustment	1
067	GN604-95-10	Clamp Lever	1
069	61-20-63-02	Bearing	1
071	19-10-44-01	Handle Frame Cover	1
073	70-26-18-00	Bracket for Rubber Block	2
075	70-26-30-00	Rubber Block	7
076	19-10-54-22	Lever Catch	1
077	19-10-45-02	Handle with flexible Rubber Block	1
078	70-21-26-10	Rubber Grip	2
079	90-21-95-50	Level Adjustment Wheel	1
081	90-21-95-51	Knob for Handwheel	1
083	19-10-45-01	Hose Connector	1
085	70-25-02-50	Dust Hose	2
091	19-10-54-33	Pipe Lifting Lever	1

Pos.	Part No.	Description	Quantity
092	61-20-63-06-3	Flange Bearing	2
093	19-10-05-07	Spanner Nut	1
095	61-31-00-55	Eye Screw	1
096	61-50-12-60-L	Eye Screw left Threat	1
097	19-10-54-30-NN	Lever Height Adjustment	1
099	90-21-45-12	Ball Head	1
111	19-10-50-02	Bearing Housing Lid	1
113	61-63-10-2RS	Bearing	1
114	61-20-50-110	Sealing	1
115	19-10-50-01	Bearing Housing	1
117	19-21-17-07	Hexagon Ring	1
119	19-21-17-06	Drum Shaft	1
121	6885-50-10-8	Key	1
123	19-10-07-01	Spacer	1
125	61-30-01-80	Circlip	1
127	61-20-63-07-2	Bearing	2
129	19-10-17-03	Spacer	1
131	19-10-17-01	Bearing Housing	1
132	19-10-17-03-7	Spacer	1
133	90-24-200-3TB	Drum Pulley	1
135	90-24-25-17-35	Taperlock	1
137	70-26-27-90	Belt Tensioner	1
139	90-24-112-3TB	Pulley	1
141	90-24-20-12-42	Taperlock	1
143	70-24-12-07-RP	Belt	3
150	19-10-64-10	Shaft Front Wheel	1
152	61-20-62-06-2	Bearing	1
153	61-20-63-06-2	Bearing	1
154	19-10-64-00	Bearing Housing	1
156	GN-613-10-GK	Locking Pin	1
158	19-10-64-06	Clamping Yoke	1
160	19-10-64-05	Lid	1
162	MS005313	Bowden Cable	1
164	XCS-PA591	Safety Switch	1
166	XCS-Z11	Pin Safety Switch	1
168	70-21-24-10	Safety Strip	1
300	95-10-320-T	Drum	1
301	95-16-80-08	TC Cutters 80 / 8	1
303	95-16-80-20	Milling Flails 80 / 20	1
307	95-16-42-23	Spacer	1
309	95-10-320-A	Axis for Drum	6
311	95-10-320-S	Drum Side Disc	2
321	50-20-15-56	Control Panel	1
322	50-20-30-15-WEG	Drive Circuit	1
325	50-20-40-01	Transformer	1
327	50-20-23-GM-M-20	Nut	2
329	50-20-23-M-20	Cable Gland	2
331	50-20-23-GM-M-25	Nut	1
333	50-20-23-M-25	Cable Gland	1

Pos.	Part No.	Description	Quantity
335	50-20-30-03	Circuit Breaker	2
337	50-10-75-37	Circuit Breaker	1
339	51-20-31-04	Main Contactor	1
341	50-20-30-05-SA	Auxiliary Block	1
343	50-20-30-PF	Phase Guard	1
345	51-10-0-25-US	Motor Protective	1
347	50-20-32-01	Reverse Plug	1
349	50-20-23-09	Mounting Adapter	3
351	51-20-20-06	Star-Delta-Switch	1
353	50-20-23-03	Direction Switch	1
355	50-20-23-02-N	Start Button	1
357	50-20-23-01	Emergency Switch	1
359	50-20-20-18	Potentiometer	1
361	50-20-33-07	Contact Element	5
363	50-20-33-08	Contact Element	2
365	216773	Indicator Light	1
367	50-11-11-02	Terminal green/yellow	4
369	50-11-11-04	Terminal beige	12
371	50-11-11-07	Terminal	5
373	50-11-11-06	Terminal blue	3
375	50-20-20-05	Label Mount (I 0 II)	1
377	50-20-20-06	Label Mount (Start)	1
379	50-22-23-01	Emergency Switch Label	1
381	70-26-18-20	Rubber Bracket	3
401	80-20-20-52	Binding Wheel	4
403	19-11-11-02	Wheel Hub outside	2
411	19-10-55-25	Drum Shaft with Flange	1
413	19-10-55-04	Shaft for Diamond Drum	2
415	19-10-55-03	Flange for Diamond Drum	1
417	19-10-55-10	Drum for Diamond Blades	1
419	19-10-55-17	Spacer 1mm for Diamond Drum	1
421	19-10-55-14	Spacer 2mm for Diamond Drum	1
423	19-10-55-15	Spacer 3mm for Diamond Drum	1
425	19-10-55-16	Spacer 5mm for Diamond Drum	1
427	19-10-55-18	Spacer 8mm for Diamond Drum	1
429	19-10-55-19	Spacer 10mm for Diamond Drum	1

Pos.	Part No.	Description	Quantity
001	19-10-40-00	Drum Housing complete	1
003	19-10-43-00	Handle Frame	1
005	19-10-49-01	Belt Cover rear Plate	1
007	55-04-46-75-15	Motor	1
009	19-10-48-01	Belt Cover	1
011	19-10-42-02	Motor Bracket	2
013	19-10-41-00	Side Plate right	1
015	19-10-46-00	Sealing Slide	2
016	80-20-31-00	Drive Wheel	2
017	90-21-95-52	Clamping Ring Drive Shaft	1
019	19-10-20-01-S	Drive Shaft	1
021	6885-40-6-7	Key	2
023	6885-80-6-7	Key	1
024	91-20-00-01	Plug Brass	2
025	50-20-20-19	Drive Unit Motor	1
026	50-20-20-20	Gearbox	1
027	80-20-80-60	Front Wheel	1
029	19-10-01-07	Front Wheel Axis	1
031	19-10-47-01	Bracket Rubber Sealing front/back	2
035	70-10-47-01-H	Rubber Sealing rear	1
037	70-10-47-01-V	Rubber Sealing front	1
041	19-10-04-09	Rear Wheel Swing	1
043	61-24-50-30	Bronze Bearing	4
044	19-10-04-05-L	Axis	2
045	19-10-04-06-S	Rear Wheel Axis	1
046	90-20-00-53	Ruler	1
047	80-20-31-60	Wheel	2
051	19-10-08-02	Motor Mounting	1
053	19-10-54-10	Level Adjustment	1
054	60-33-12-25	Pin for lifting Rod	2
057	19-10-54-20	Lifting Rod lower Part	1
058	19-10-05-06	Lifting Rod upper Part	1
059	19-10-05-03	Height Control Piston	1
061	19-10-05-02-C	Spindle	1
063	61-24-40-46	Bronze Bearing	1
065	19-10-05-01	Housing Height Adjustment	1
067	GN604-95-10	Clamp Lever	1
069	61-20-63-02	Bearing	1
071	19-10-44-01	Handle Frame Cover	1
073	70-26-18-00	Bracket for Rubber Block	2
075	70-26-30-00	Rubber Block	7
076	19-10-54-22	Lever Catch	1
077	19-10-45-02	Handle with flexible Rubber Block	1
078	70-21-26-10	Rubber Grip	2
079	90-21-95-50	Level Adjustment Wheel	1
081	90-21-95-51	Knob for Handwheel	1
083	19-10-45-01	Hose Connector	1
085	70-25-02-50	Dust Hose	2
091	19-10-54-33	Pipe Lifting Lever	1

Pos.	Part No.	Description	Quantity
092	61-20-63-06-3	Flange Bearing	2
093	19-10-05-07	Spanner Nut	1
095	61-31-00-55	Eye Screw	1
096	61-50-12-60-L	Eye Screw left Threat	1
097	19-10-54-30-NN	Lever Height Adjustment	1
099	90-21-45-12	Ball Head	1
111	19-10-50-02	Bearing Housing Lid	1
113	61-63-10-2RS	Bearing	1
114	61-20-50-110	Sealing	1
115	19-10-50-01	Bearing Housing	1
117	19-21-17-07	Hexagon Ring	1
119	19-21-17-06	Drum Shaft	1
121	6885-50-10-8	Key	1
123	19-10-07-01	Spacer	1
125	61-30-01-80	Circlip	1
127	61-20-63-07-2	Bearing	2
129	19-10-17-03	Spacer	1
131	19-10-17-01	Bearing Housing	1
132	19-10-17-03-7	Spacer	1
133	90-24-200-3TB	Drum Pulley	1
135	90-24-25-17-35	Taperlock	1
137	70-26-27-90	Belt Tensioner	1
139	90-24-112-3TB	Pulley	1
141	90-24-20-12-42	Taperlock	1
143	70-24-12-07-RP	Belt	3
150	19-10-64-10	Shaft Front Wheel	1
152	61-20-62-06-2	Bearing	1
153	61-20-63-06-2	Bearing	1
154	19-10-64-00	Bearing Housing	1
156	GN-613-10-GK	Locking Pin	1
158	19-10-64-06	Clamping Yoke	1
160	19-10-64-05	Lid	1
162	MS005313	Bowden Cable	1
164	XCS-PA591	Safety Switch	1
166	XCS-Z11	Pin Safety Switch	1
168	70-21-24-10	Safety Strip	1
300	95-10-320-T	Drum	1
301	95-16-80-08	TC Cutters 80 / 8	1
303	95-16-80-20	Milling Flails 80 / 20	1
307	95-16-42-23	Spacer	1
309	95-10-320-A	Axis for Drum	6
311	95-10-320-S	Drum Side Disc	2
321	50-20-15-56	Control Panel	1
322	50-20-30-15-WEG	Drive Circuit	1
325	50-20-40-01	Transformer	1
327	50-20-23-GM-M-20	Nut	2
329	50-20-23-M-20	Cable Gland	2
331	50-20-23-GM-M-25	Nut	1
333	50-20-23-M-25	Cable Gland	1

Pos.	Part No.	Description	Quantity
335	50-20-30-03	Circuit Breaker	2
337	50-10-75-37	Circuit Breaker	1
339	51-20-31-04	Main Contactor	1
341	50-20-30-05-SA	Auxiliary Block	1
343	50-20-30-PF	Phase Guard	1
345	51-20-30-32	Motor Protective	1
347	50-20-32-01	Reverse Plug	1
349	50-20-23-09	Mounting Adapter	3
351	51-20-20-06	Star-Delta-Switch	1
353	50-20-23-03	Direction Switch	1
355	50-20-23-02-N	Start Button	1
357	50-20-23-01	Emergency Switch	1
359	50-20-20-18	Potentiometer	1
361	50-20-33-07	Contact Element	5
363	50-20-33-08	Contact Element	2
365	216773	Indicator Light	1
367	50-11-11-02	Terminal green/yellow	4
369	50-11-11-04	Terminal beige	12
371	50-11-11-07	Terminal	5
373	50-11-11-06	Terminal blue	3
375	50-20-20-05	Label Mount (I 0 II)	1
377	50-20-20-06	Label Mount (Start)	1
379	50-22-23-01	Emergency Switch Label	1
381	70-26-18-20	Rubber Bracket	3
401	80-20-20-52	Binding Wheel	4
403	19-11-11-02	Wheel Hub outside	2
405	19-11-11-01	Wheel Hub inside	2
411	19-10-55-25	Drum Shaft with Flange	1
413	19-10-55-04	Shaft for Diamond Drum	2
415	19-10-55-03	Flange for Diamond Drum	1
417	19-10-55-10	Drum for Diamond Blades	1
419	19-10-55-17	Spacer 1mm for Diamond Drum	1
421	19-10-55-14	Spacer 2mm for Diamond Drum	1
423	19-10-55-15	Spacer 3mm for Diamond Drum	1
425	19-10-55-16	Spacer 5mm for Diamond Drum	1
427	19-10-55-18	Spacer 8mm for Diamond Drum	1
429	19-10-55-19	Spacer 10mm for Diamond Drum	1

Pos.	Part No.	Description	Quantity
001	19-10-40-00	Drum Housing complete	1
003	19-10-43-00	Handle Frame	1
005	19-10-49-01	Belt Cover rear Plate	1
007	55-04-46-75-18,5	Motor	1
009	19-10-48-01	Belt Cover	1
011	19-10-42-02	Motor Bracket	2
013	19-10-41-00	Side Plate right	1
015	19-10-46-00	Sealing Slide	2
016	80-20-31-00	Drive Wheel	2
017	90-21-95-52	Clamping Ring Drive Shaft	1
019	19-10-20-01-S	Drive Shaft	1
021	6885-40-6-7	Key	2
023	6885-80-6-7	Key	1
024	91-20-00-01	Plug Brass	2
025	50-20-20-19	Drive Unit Motor	1
026	50-20-20-20	Gearbox	1
027	80-20-80-60	Front Wheel	1
029	19-10-01-07	Front Wheel Axis	1
031	19-10-47-01	Bracket Rubber Sealing front/back	2
035	70-10-47-01-H	Rubber Sealing rear	1
037	70-10-47-01-V	Rubber Sealing front	1
041	19-10-04-09	Rear Wheel Swing	1
043	61-24-50-30	Bronze Bearing	4
044	19-10-04-05-L	Axis	2
045	19-10-04-06-S	Rear Wheel Axis	1
046	90-20-00-53	Ruler	1
047	80-20-31-60	Wheel	2
051	19-10-08-02	Motor Mounting	1
053	19-10-54-10	Level Adjustment	1
054	60-33-12-25	Pin for lifting Rod	2
057	19-10-54-20	Lifting Rod lower Part	1
058	19-10-05-06	Lifting Rod upper Part	1
059	19-10-05-03	Height Control Piston	1
061	19-10-05-02-C	Spindle	1
063	61-24-40-46	Bronze Bearing	1
065	19-10-05-01	Housing Height Adjustment	1
067	GN604-95-10	Clamp Lever	1
069	61-20-63-02	Bearing	1
071	19-10-44-01	Handle Frame Cover	1
073	70-26-18-00	Bracket for Rubber Block	2
075	70-26-30-00	Rubber Block	7
076	19-10-54-22	Lever Catch	1
077	19-10-45-02	Handle with flexible Rubber Block	1
078	70-21-26-10	Rubber Grip	2
079	90-21-95-50	Level Adjustment Wheel	1
081	90-21-95-51	Knob for Handwheel	1
083	19-10-45-01	Hose Connector	1
085	70-25-02-50	Dust Hose	2
091	19-10-54-33	Pipe Lifting Lever	1

Pos.	Part No.	Description	Quantity
092	61-20-63-06-3	Flange Bearing	2
093	19-10-05-07	Spanner Nut	1
095	61-31-00-35	Screw, Hexagon M8x70	1
096	61-50-12-60-L	Eye Screw left Threat	1
097	19-10-54-30-NN	Lever Height Adjustment	1
099	90-21-45-12	Ball Head	1
111	19-10-50-02	Bearing Housing Lid	1
113	61-63-10-2RS	Bearing	1
114	61-20-50-110	Sealing	1
115	19-10-50-01	Bearing Housing	1
117	19-21-17-07	Hexagon Ring	1
119	19-21-17-06	Drum Shaft	1
121	6885-50-10-8	Key	1
123	19-10-07-01	Spacer	1
125	61-30-01-80	Circlip	1
127	61-20-63-07-2	Bearing	2
129	19-10-17-03	Spacer	1
131	19-10-17-01	Bearing Housing	1
132	19-10-17-03-7	Spacer	1
133	90-24-200-3TB	Drum Pulley	1
135	90-24-25-17-35	Taperlock	1
137	70-26-27-90	Belt Tensioner	1
139	90-24-112-3TB	Pulley	1
141	90-24-20-12-42	Taperlock	1
143	70-24-12-07-RP	Belt	3
150	19-10-64-10	Shaft Front Wheel	1
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158	19-10-64-06	Clamping Yoke	1
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162	MS005313	Bowden Cable	1
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300	95-10-320-T	Drum	1
301	95-16-80-08	TC Cutters 80 / 8	1
303	95-16-80-20	Milling Flails 80 / 20	1
307	95-16-42-23	Spacer	1
309	95-10-320-A	Axis for Drum	6
311	95-10-320-S	Drum Side Disc	2
321	50-20-15-56	Control Panel	1
322	50-20-30-15-WEG	Drive Circuit	1
325	50-20-40-01	Transformer	1
327	50-20-23-GM-M-20	Nut	2
329	50-20-23-M-20	Cable Gland	2
331	50-20-23-GM-M-25	Nut	1
333	50-20-23-M-25	Cable Gland	1

Pos.	Part No.	Description	Quantity
335	50-20-30-03	Circuit Breaker	2
337	50-10-75-37	Circuit Breaker	1
339	277766	Main Contactor	1
341	278425	Auxiliary Block	1
343	50-20-30-PF	Phase Guard	1
345	51-10-0-25-US	Motor Protective	1
347	50-20-32-01	Reverse Plug	1
349	50-20-23-09	Mounting Adapter	3
351	51-20-20-06	Star-Delta-Switch	1
353	50-20-23-03	Direction Switch	1
355	50-20-23-02-N	Start Button	1
357	50-20-23-01	Emergency Switch	1
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365	216773	Indicator Light	1
367	50-11-11-02	Terminal green/yellow	4
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375	50-20-20-05	Label Mount (I 0 II)	1
377	50-20-20-06	Label Mount (Start)	1
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415	19-10-55-03	Flange for Diamond Drum	1
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421	19-10-55-14	Spacer 2mm for Diamond Drum	1
423	19-10-55-15	Spacer 3mm for Diamond Drum	1
425	19-10-55-16	Spacer 5mm for Diamond Drum	1
427	19-10-55-18	Spacer 8mm for Diamond Drum	1
429	19-10-55-19	Spacer 10mm for Diamond Drum	1

10 EG-FÖRSÄKRAN

I enlighet med EEC maskindirektiv 2006/42/EG från den 17 maj 2006, bilaga II A

Intygar vi härmed att följande beskrivna maskin i sin konstruktion, i sitt begrepp och i vårt utförande överensstämmer med alla relevanta väsentliga hälso- och säkerhetskrav i EG Maskindirektiv 2006/42/EG i dess ändrade lydelse och de nationella lagar och andra författningar som antar detta direktiv. Denna deklaration är inte längre giltig om maskinen modifieras utan vårt godkännande.

Tillverkare: Contec Maschinenbau & Entwicklungstechnik GmbH, Hauptstraße 146, 57518 Alsdorf, Tyskland

Beskrivning av maskinen:

Funktion:	Fräs /Shaver	Modell:	Ferox CT 320
Serienummer:		År:	

Produktens överensstämmelsen med ytterligare gällande riktlinjer/författningar förklaras:
EMV-Richtlinie (2004/108/EG) von 15. December 2004

Andra applicerade harmoniserade standarder och specifikationer i synnerhet:

DIN EN 12100 Sicherheit von Maschinen - Grundbegriffe, allgemeine Gestaltungsleitsätze, : Grundsätzliche Terminologie, Methodik, Risikobeurteilung

DIN EN 60204-1 Sicherheit von Maschinen - Elektrische Ausrüstungen von Maschinen, Teil1: Allgemeine Anforderungen

Person auktoriserad för teknisk dokumentering: Johannes Greb, Technical Manager

Alsdorf, 05.03.18



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Ferox 320 fräs/shaver

Dear Customer!

Thank you for choosing Scanmaskin as your supplier.
We wish you all the best with your new Ferox 320 Scarifier/Shaver and hope that it meets your expectations.

Scanmaskin Sverige AB



Paulo Bergstrand
Verkställande direktör

Address:
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Box 187
SE-437 22 Lindome / Gothenburg
Sweden
Telephone: +46 (0) 31 99 49 70

Important Information!

This Manual only concerns "**Ferox 320 Scarifier/Shaver**" hereby referred to as "Ferox 320".

If **Ferox 320 Scarifier/Shaver** is used for other purposes or handled in ways other than that described in this Manual, Scanmaskin Sweden AB disclaims all responsibility.

Especially note the section "*4. Safety rules*": Read the Manual before using Ferox 320 Scarifier/Shaver.

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1. MACHINE APPLICATIONS

Planing of horizontal, dry floors such as concrete and steel surfaces with or without a coating and asphalt using planing tools. The use of the machine outside is only possible in dry weather.

2. TECHNICAL DATA

2.1 Planer

Width of cut	320 mm (12.5 in)	
Width	61 cm (24 in)	
Length	110 cm (43 in)	
Height	110 cm (43 in)	
Weight with drum	230 kg (507 lbs)	
Dust port \varnothing	70 mm (2.86 in)	
Height adjustment	Hand wheel and lever	
Vibration damped handle	Rubber block on handle	
Electric motor	Europe	USA
	400 V,	460 V,
	11-15 kW,	17,3 kW (23,5 hk)
	50 Hz	60 Hz
Average value of acceleration a_{hv} *	8,6 m/s ²	
Noise level L_{wa} *	109 dB(A)	
Noise level L_{eq} *	96 dB(A)	

2.2 Tools

Drum diameter	225 mm (10 in)
Cutter shaft diameter	20 mm (0.82 in)
Number of shafts	6
TCT Cutter	80/8
Milling cutter	80/20
Cutter \varnothing	80
Max No. of TCT Cutters	128
Max. No. of milling cutters	36

3. APPLICATIONS OF THE TOOLS

- Tct Cutters
Heavy duty, long life cutters for all concrete texturing, scabbling, planning and grooving applications. Also used for removal of road markings, roof chippings and brittle coatings
- Milling Cutters
Primarily for the removal of thermoplastic road / runway markings. Tipped with tungsten carbide they are cost effective and highly efficient. A range of cutter dimensions are available.
- Beam Flails
Heat treated cutters for the removal of paint coatings and laitance from new concrete. Also, for removing grease, dirt and ice deposits.

4. SAFETY RULES



Attention!

The Ferox 320 floor planers are constructed according to existing safety rules and regulations. These technical precautions should not be removed or changed under any circumstances. While operating the machines the following points should also be kept in mind:

1. The planers should always be operated with all safety covers and technical precautions.
2. The operator should never leave the machine during operation.
3. Before leaving the machine, all rotary parts should be brought to a standstill. The electric models must be disconnected from the mains. Make sure that the machine cannot roll or move by itself.
4. After maintenance and adjustment all safety covers must be reattached.
5. If the noise level exceeds 90 dB(A) ear protectors must be worn.
In the event of a large amount of dust during operation connect a dust collector to the planer.

5. OPERATING

After mounting the appropriate tools, the operation of the planer can begin. The lever of the height adjustment (Appendix diagram No. 97 and 99) has to be in the upper position before the machine is switched on. The hand wheel of the height adjustment must also be turned anti clockwise as far as possible.

Switch the motor on. Lower the planer with the lever to the operating position. Turn the hand wheel of the height adjustment until the tools are lowered to the floor and until you achieve the required finish.

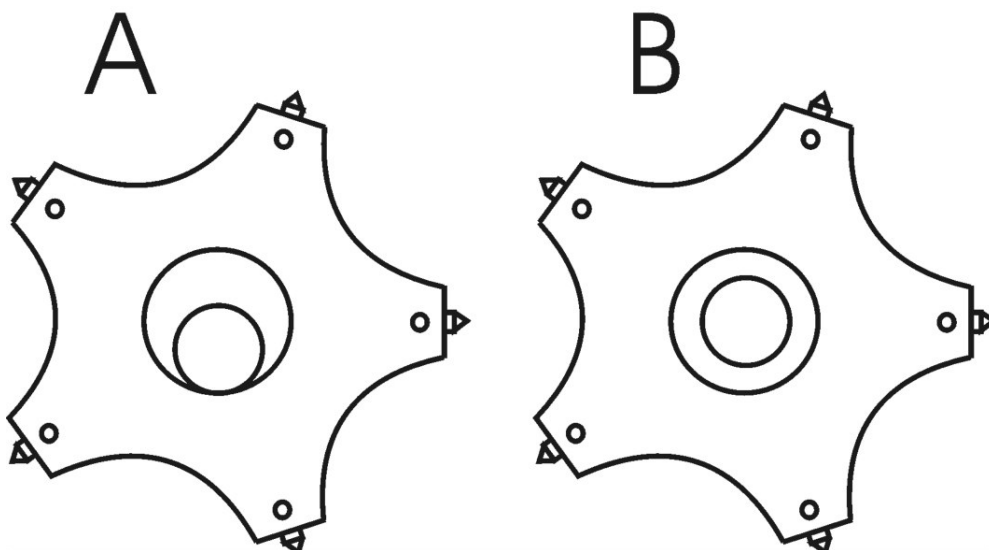


Attention! Lowering the tools too much decreases the performance of the machine. You will also destroy the shafts in the drum and the bearings of the machine.

⚠ Attention: Lowering cutter adjuster too far will cause cage shafts to pinch cutters between the shaft and the surface (A). This will cause cutters, shafts, and cage to break. The cutters should be able to move freely around the shafts at all times (B).

Heavy dust can be avoided by connecting a dust collector to the dust port.

The vibration damped handle bar ensures an easier operation.



Figur 1-1: Concrete surface

6. CHANGING THE DRUM

⚠ Attention! Before any maintenance, the machine must be brought to a complete stand still. Always disconnect the machine if it is an electric model.

1. Lift the machine with the lever so that the tools are well clear of the floor.
2. Unscrew the screws on the right side plate (M10, Key width 17 mm)
3. Carefully remove the side plate.
4. Take out the drum. Remove worn out tools. Check shafts and drums for wear and tear. If necessary replace new tools on the drum.
5. Push drum on freshly greased shaft.
6. Reconnect side plate.

7. ADJUSTING THE DRUM

During the operation of the Ferox 320 floor planer or after a drum has been changed or replaced, the drum shaft and the rear wheel axis can fall out of alignment. This results in an uneven track on the floor. On one side the drum touches the floor before the other and therefore removes more surface material on this side.

The two rear wheels are mounted on an eccentric shaft (see figure 1-2).

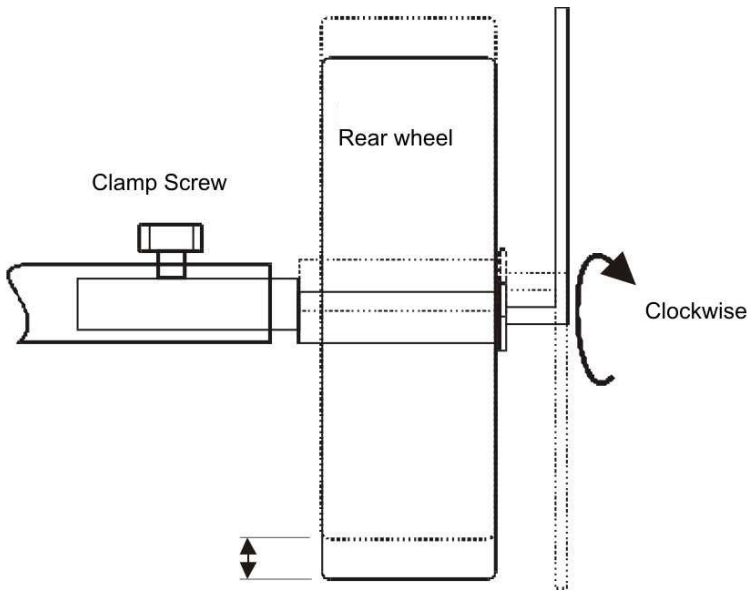


Figure 1-2: Drum

If the drum has to be adjusted proceed as follows:

Place the planer on an even floor. Lift the machine with the height adjustment hand wheel, until all the tools are well clear of the floor. Loosen the clamping screw of the eccentric shaft. On the other side of the rear wheel is a screw which keeps the wheel on the shaft. Turning the screw will also turn the eccentric shaft. The floor planer moves up and down on one side. Always turn the screw clockwise. Anti clockwise would loosen the screw. Keep turning until all the tools on the drum are the same distance to the floor. Tighten the clamping screw again

8. MAINTENANCE AND CLEANING

8.1 *Bearings*

All bearings are greased for their life time.

8.2 *Height adjustment and joints*

All joints have to be greased periodically with a standard machine grease

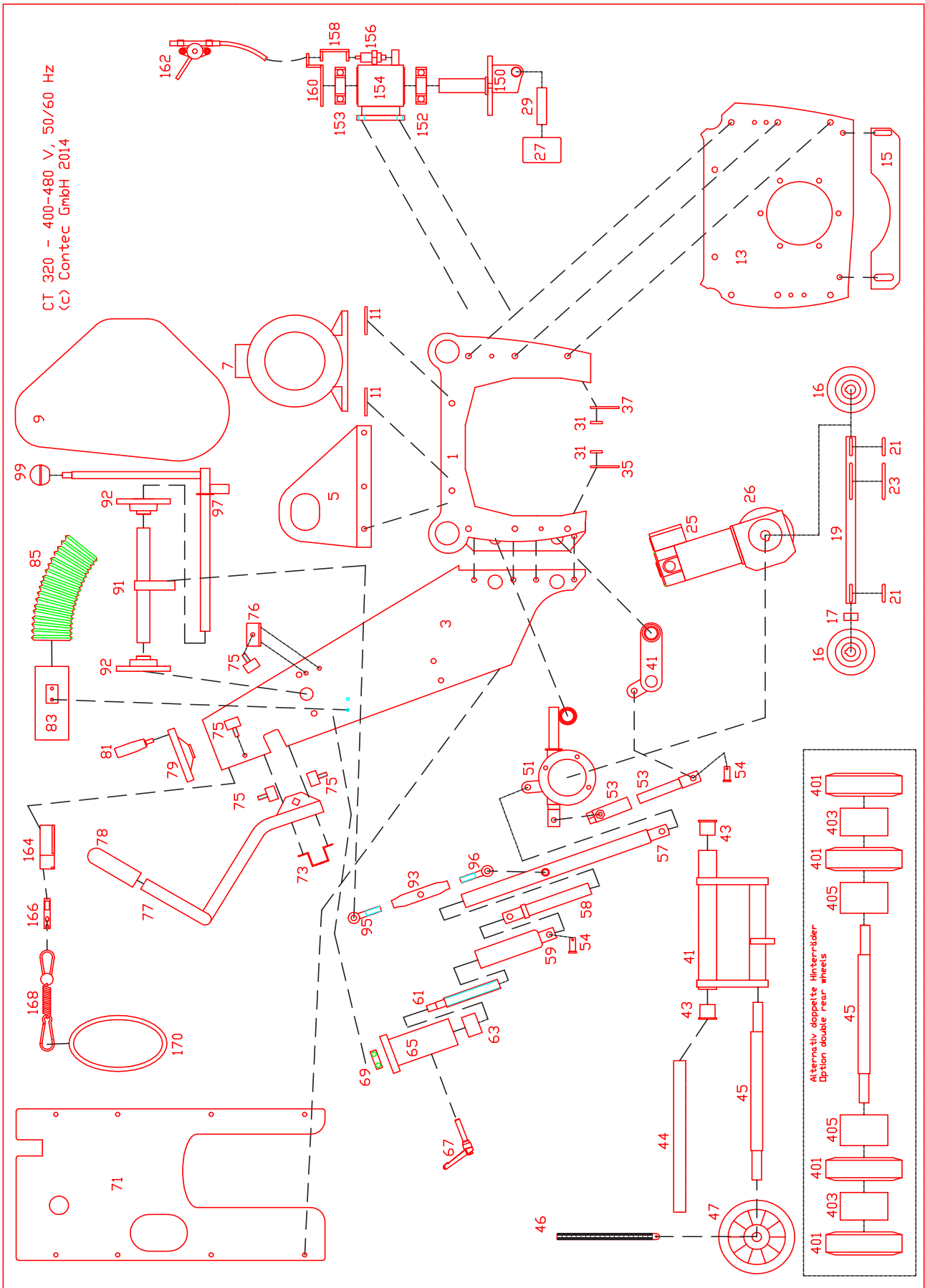
8.3 *Belt drive*

Check the belts after approximately every 30 hours of operation. The belt is tensioned automatically by a tensioner wheel underneath the belt cover.

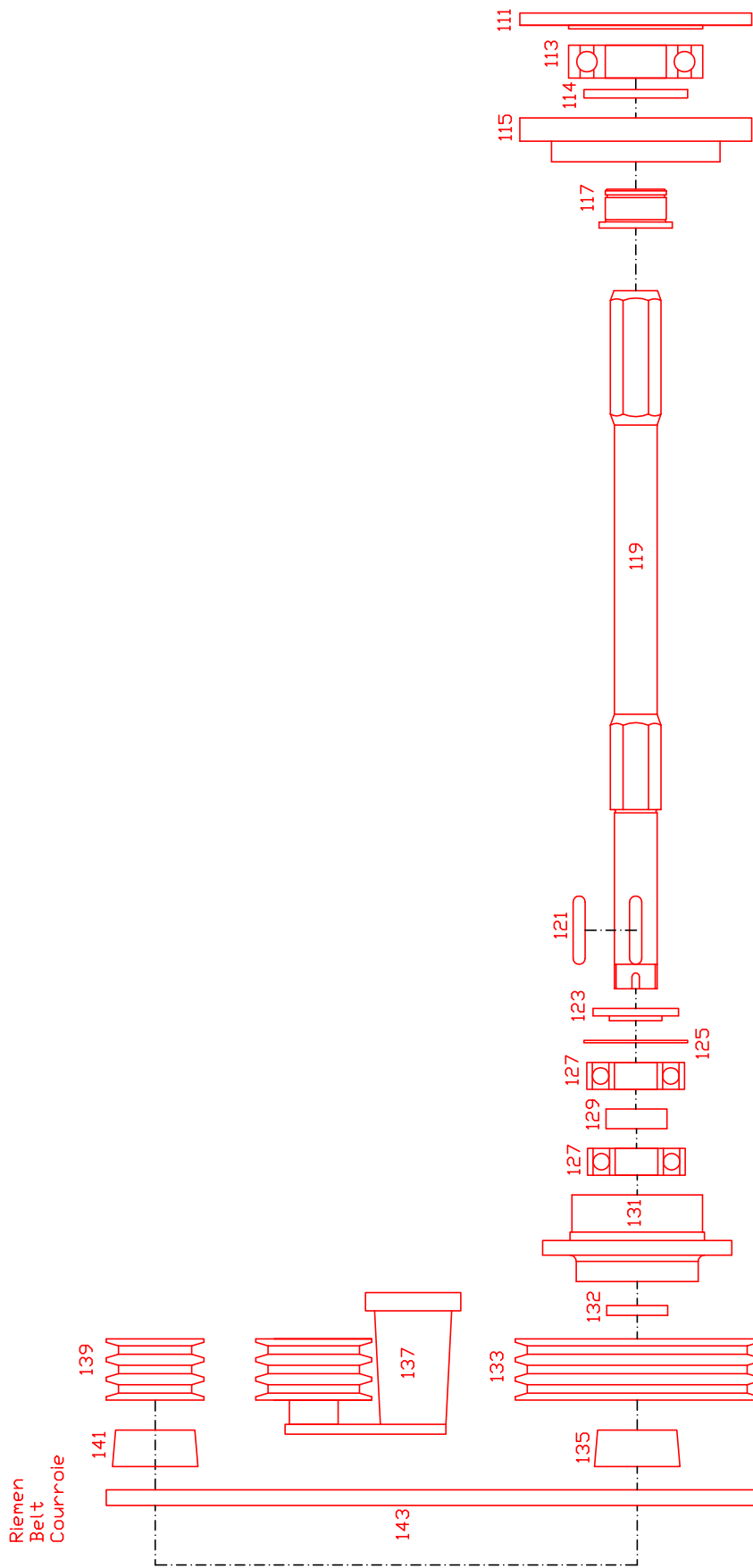
8.4 *Cleaning*

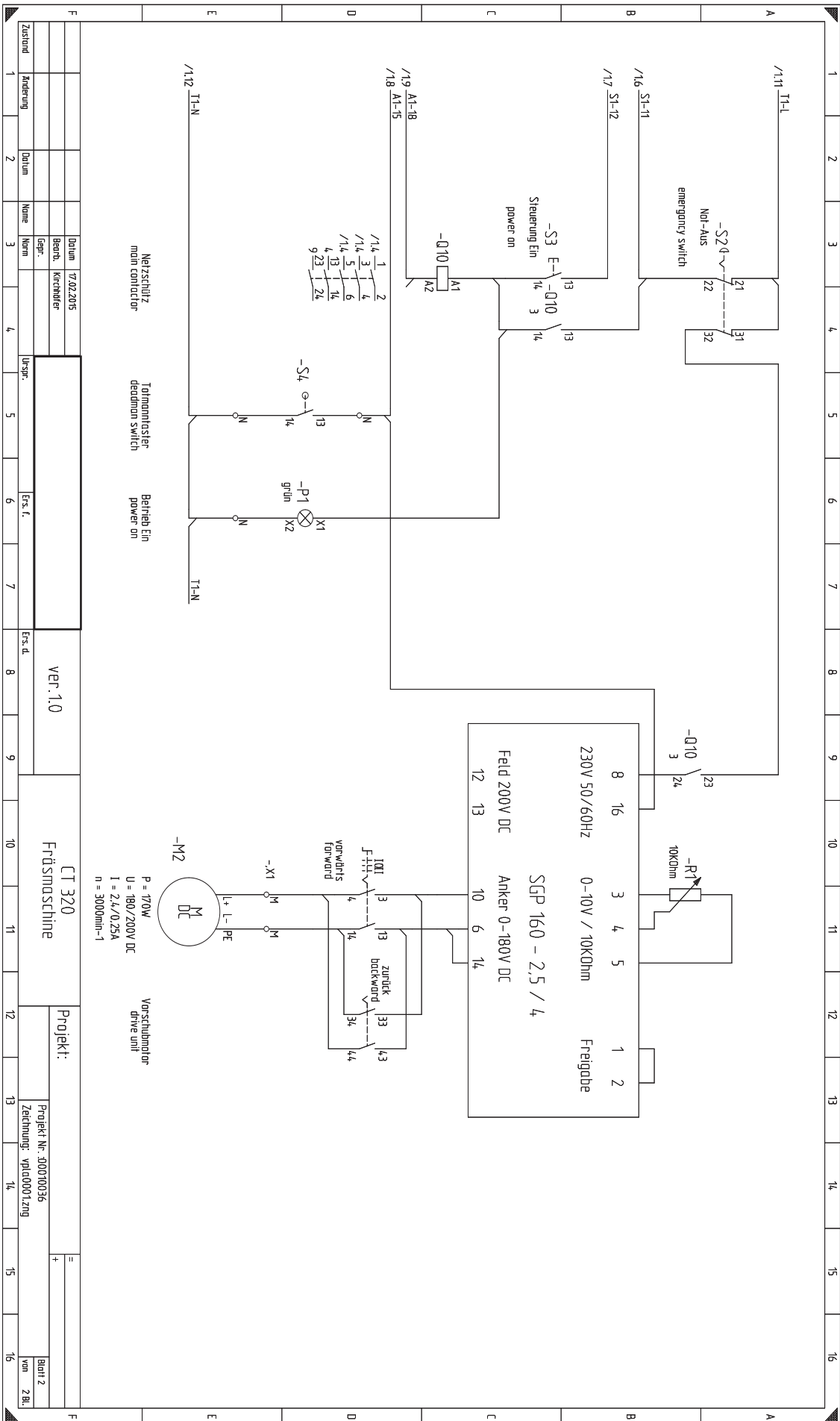
Regular cleaning of the machine increases the life of all components and tools of the planer.

9 BILAGA



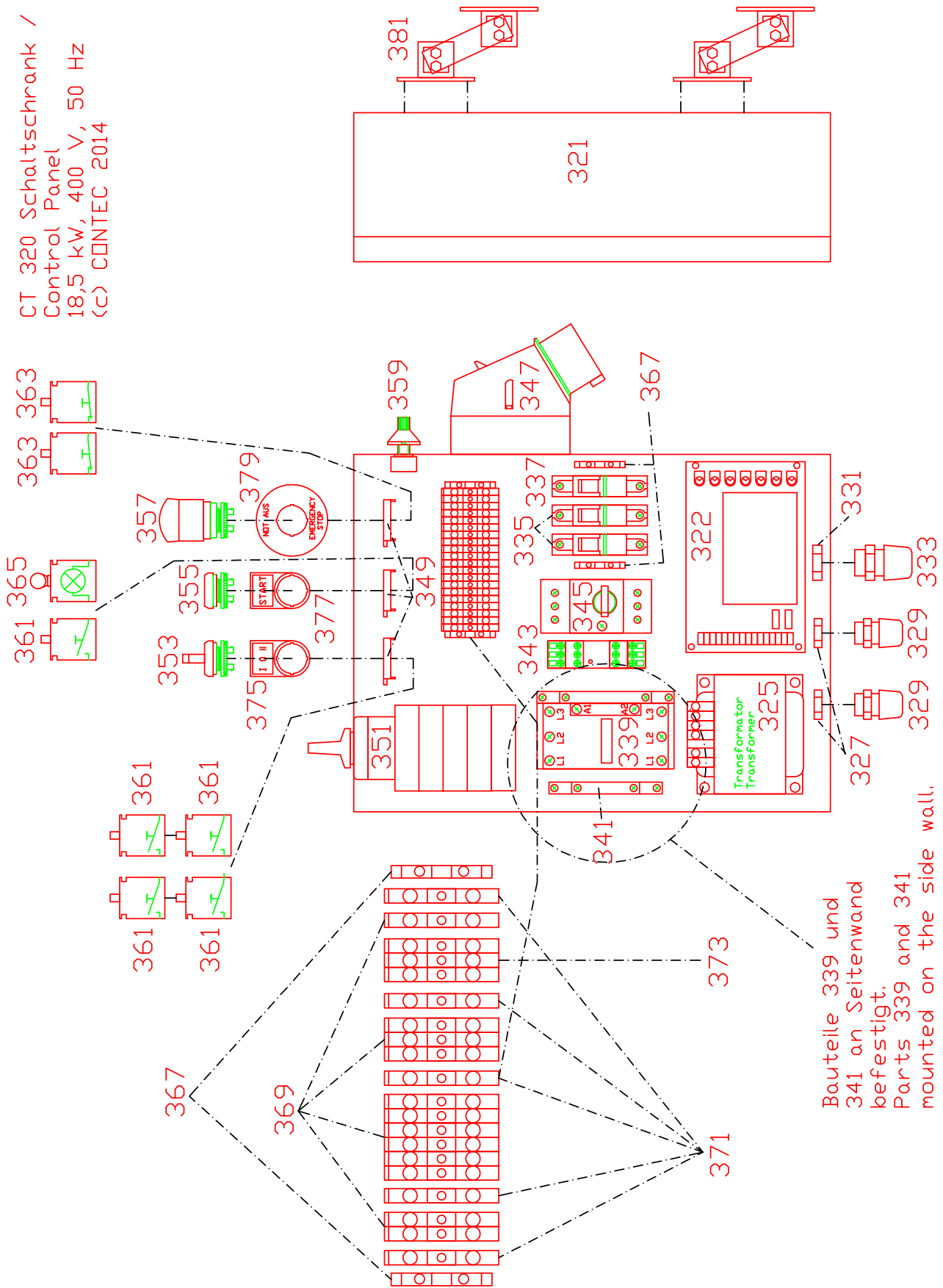
CT 320 Riementrieb und Trommelwelle /
 Belt drive and shaft
 (c) Contec GmbH 2016





Zustand	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Änderung																
Datum																
Name																
Datum																
Berch.																
Kirchhölzer																
Gepr.																
Norm																
Urspr.																
Ers. f.																
Ers. d.																
CT 320																
FrösMaschine																
Projekt:																
Projekt Nr. 30010036																
Zeichnung: vplad001.zwg																
Bau 2																
von 2 Bl.																

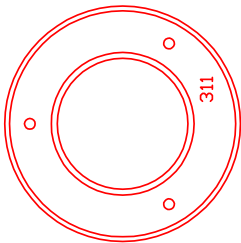
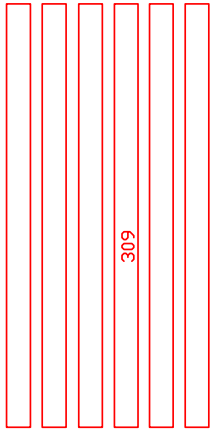
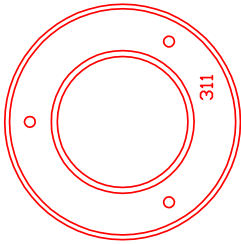
CT 320 Schaltschrank /
Control Panel
18,5 kW, 400 V, 50 Hz
(c) CONTEC 2014



Bauteile 339 und
341 an Seitenwand
befestigt.
Parts 339 and 341
mounted on the side wall.

Werkzeuge für CT 320
 Tools for CT 320
 (c) Contec GmbH 2018

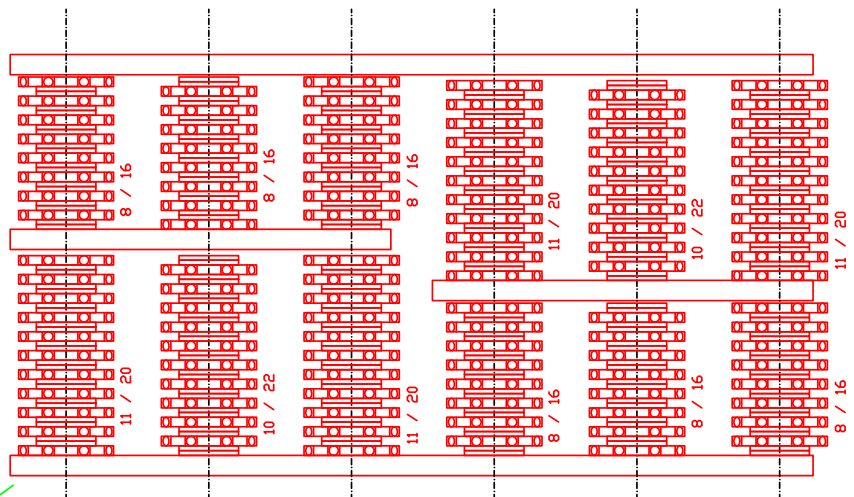
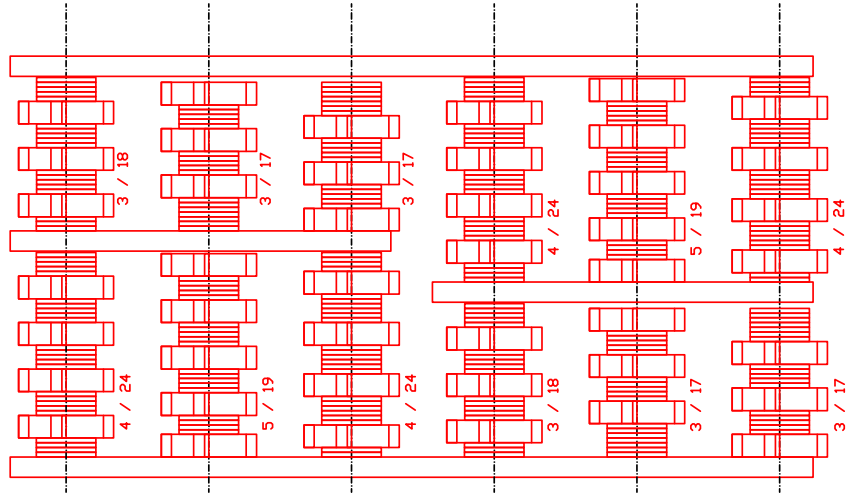
300 Trommel / drum



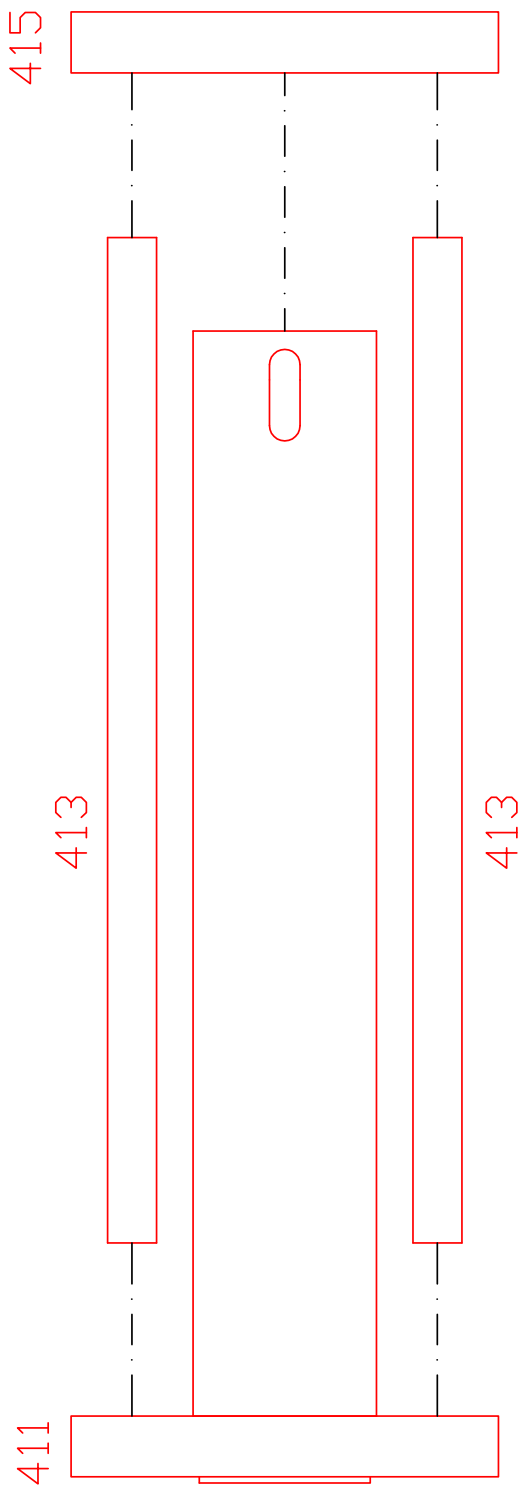
303
 44 Walzenfräser
 44 Bean flails
 238 Scheiben
 238 spacers



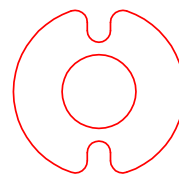
301
 112 Lamellen
 112 cutters
 220 Scheiben
 220 spacers



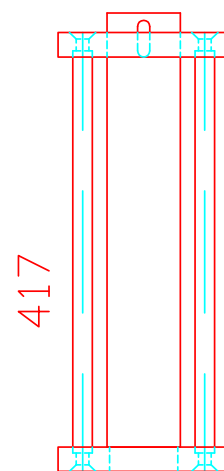
Diamanttrommel CT 320



Distanzscheibe / Spacer



- 1 mm 419
- 2 mm 421
- 3 mm 423
- 5 mm 425
- 8 mm 427
- 10 mm 429



Pos.	Part No.	Description	Quantity
001	19-10-40-00	Drum Housing complete	1
003	19-10-43-00	Handle Frame	1
005	19-10-49-01	Belt Cover rear Plate	1
007	55-04-46-75	Motor	1
009	19-10-48-01	Belt Cover	1
011	19-10-42-02	Motor Bracket	2
013	19-10-41-00	Side Plate right	1
015	19-10-46-00	Sealing Slide	2
016	80-20-31-00	Drive Wheel	2
017	90-21-95-52	Clamping Ring Drive Shaft	1
019	19-10-20-01-S	Drive Shaft	1
021	6885-40-6-7	Key	2
023	6885-80-6-7	Key	1
024	91-20-00-01	Plug Brass	2
025	50-20-20-19	Drive Unit Motor	1
026	50-20-20-20	Gearbox	1
027	80-20-80-60	Front Wheel	1
029	19-10-01-07	Front Wheel Axis	1
031	19-10-47-01	Bracket Rubber Sealing front/back	2
035	70-10-47-01-H	Rubber Sealing rear	1
037	70-10-47-01-V	Rubber Sealing front	1
041	19-10-04-09	Rear Wheel Swing	1
043	61-24-50-30	Bronze Bearing	4
044	19-10-04-05-L	Axis	2
045	19-10-04-06-S	Rear Wheel Axis	1
046	90-20-00-53	Ruler	1
047	80-20-31-60	Wheel	2
051	19-10-08-02	Motor Mounting	1
053	19-10-54-10	Level Adjustment	1
054	60-33-12-25	Pin for lifting Rod	2
057	19-10-54-20	Lifting Rod lower Part	1
058	19-10-05-06	Lifting Rod upper Part	1
059	19-10-05-03	Height Control Piston	1
061	19-10-05-02-C	Spindle	1
063	61-24-40-46	Bronze Bearing	1
065	19-10-05-01	Housing Height Adjustment	1
067	GN604-95-10	Clamp Lever	1
069	61-20-63-02	Bearing	1
071	19-10-44-01	Handle Frame Cover	1
073	70-26-18-00	Bracket for Rubber Block	2
075	70-26-30-00	Rubber Block	7
076	19-10-54-22	Lever Catch	1
077	19-10-45-02	Handle with flexible Rubber Block	1
078	70-21-26-10	Rubber Grip	2
079	90-21-95-50	Level Adjustment Wheel	1
081	90-21-95-51	Knob for Handwheel	1
083	19-10-45-01	Hose Connector	1
085	70-25-02-50	Dust Hose	2
091	19-10-54-33	Pipe Lifting Lever	1

Pos.	Part No.	Description	Quantity
092	61-20-63-06-3	Flange Bearing	2
093	19-10-05-07	Spanner Nut	1
095	61-31-00-55	Eye Screw	1
096	61-50-12-60-L	Eye Screw left Threat	1
097	19-10-54-30-NN	Lever Height Adjustment	1
099	90-21-45-12	Ball Head	1
111	19-10-50-02	Bearing Housing Lid	1
113	61-63-10-2RS	Bearing	1
114	61-20-50-110	Sealing	1
115	19-10-50-01	Bearing Housing	1
117	19-21-17-07	Hexagon Ring	1
119	19-21-17-06	Drum Shaft	1
121	6885-50-10-8	Key	1
123	19-10-07-01	Spacer	1
125	61-30-01-80	Circlip	1
127	61-20-63-07-2	Bearing	2
129	19-10-17-03	Spacer	1
131	19-10-17-01	Bearing Housing	1
132	19-10-17-03-7	Spacer	1
133	90-24-200-3TB	Drum Pulley	1
135	90-24-25-17-35	Taperlock	1
137	70-26-27-90	Belt Tensioner	1
139	90-24-112-3TB	Pulley	1
141	90-24-20-12-42	Taperlock	1
143	70-24-12-07-RP	Belt	3
150	19-10-64-10	Shaft Front Wheel	1
152	61-20-62-06-2	Bearing	1
153	61-20-63-06-2	Bearing	1
154	19-10-64-00	Bearing Housing	1
156	GN-613-10-GK	Locking Pin	1
158	19-10-64-06	Clamping Yoke	1
160	19-10-64-05	Lid	1
162	MS005313	Bowden Cable	1
164	XCS-PA591	Safety Switch	1
166	XCS-Z11	Pin Safety Switch	1
168	70-21-24-10	Safety Strip	1
300	95-10-320-T	Drum	1
301	95-16-80-08	TC Cutters 80 / 8	1
303	95-16-80-20	Milling Flails 80 / 20	1
307	95-16-42-23	Spacer	1
309	95-10-320-A	Axis for Drum	6
311	95-10-320-S	Drum Side Disc	2
321	50-20-15-56	Control Panel	1
322	50-20-30-15-WEG	Drive Circuit	1
325	50-20-40-01	Transformer	1
327	50-20-23-GM-M-20	Nut	2
329	50-20-23-M-20	Cable Gland	2
331	50-20-23-GM-M-25	Nut	1
333	50-20-23-M-25	Cable Gland	1

Pos.	Part No.	Description	Quantity
335	50-20-30-03	Circuit Breaker	2
337	50-10-75-37	Circuit Breaker	1
339	51-20-31-04	Main Contactor	1
341	50-20-30-05-SA	Auxiliary Block	1
343	50-20-30-PF	Phase Guard	1
345	51-10-0-25-US	Motor Protective	1
347	50-20-32-01	Reverse Plug	1
349	50-20-23-09	Mounting Adapter	3
351	51-20-20-06	Star-Delta-Switch	1
353	50-20-23-03	Direction Switch	1
355	50-20-23-02-N	Start Button	1
357	50-20-23-01	Emergency Switch	1
359	50-20-20-18	Potentiometer	1
361	50-20-33-07	Contact Element	5
363	50-20-33-08	Contact Element	2
365	216773	Indicator Light	1
367	50-11-11-02	Terminal green/yellow	4
369	50-11-11-04	Terminal beige	12
371	50-11-11-07	Terminal	5
373	50-11-11-06	Terminal blue	3
375	50-20-20-05	Label Mount (I 0 II)	1
377	50-20-20-06	Label Mount (Start)	1
379	50-22-23-01	Emergency Switch Label	1
381	70-26-18-20	Rubber Bracket	3
401	80-20-20-52	Binding Wheel	4
403	19-11-11-02	Wheel Hub outside	2
411	19-10-55-25	Drum Shaft with Flange	1
413	19-10-55-04	Shaft for Diamond Drum	2
415	19-10-55-03	Flange for Diamond Drum	1
417	19-10-55-10	Drum for Diamond Blades	1
419	19-10-55-17	Spacer 1mm for Diamond Drum	1
421	19-10-55-14	Spacer 2mm for Diamond Drum	1
423	19-10-55-15	Spacer 3mm for Diamond Drum	1
425	19-10-55-16	Spacer 5mm for Diamond Drum	1
427	19-10-55-18	Spacer 8mm for Diamond Drum	1
429	19-10-55-19	Spacer 10mm for Diamond Drum	1

Pos.	Part No.	Description	Quantity
001	19-10-40-00	Drum Housing complete	1
003	19-10-43-00	Handle Frame	1
005	19-10-49-01	Belt Cover rear Plate	1
007	55-04-46-75-15	Motor	1
009	19-10-48-01	Belt Cover	1
011	19-10-42-02	Motor Bracket	2
013	19-10-41-00	Side Plate right	1
015	19-10-46-00	Sealing Slide	2
016	80-20-31-00	Drive Wheel	2
017	90-21-95-52	Clamping Ring Drive Shaft	1
019	19-10-20-01-S	Drive Shaft	1
021	6885-40-6-7	Key	2
023	6885-80-6-7	Key	1
024	91-20-00-01	Plug Brass	2
025	50-20-20-19	Drive Unit Motor	1
026	50-20-20-20	Gearbox	1
027	80-20-80-60	Front Wheel	1
029	19-10-01-07	Front Wheel Axis	1
031	19-10-47-01	Bracket Rubber Sealing front/back	2
035	70-10-47-01-H	Rubber Sealing rear	1
037	70-10-47-01-V	Rubber Sealing front	1
041	19-10-04-09	Rear Wheel Swing	1
043	61-24-50-30	Bronze Bearing	4
044	19-10-04-05-L	Axis	2
045	19-10-04-06-S	Rear Wheel Axis	1
046	90-20-00-53	Ruler	1
047	80-20-31-60	Wheel	2
051	19-10-08-02	Motor Mounting	1
053	19-10-54-10	Level Adjustment	1
054	60-33-12-25	Pin for lifting Rod	2
057	19-10-54-20	Lifting Rod lower Part	1
058	19-10-05-06	Lifting Rod upper Part	1
059	19-10-05-03	Height Control Piston	1
061	19-10-05-02-C	Spindle	1
063	61-24-40-46	Bronze Bearing	1
065	19-10-05-01	Housing Height Adjustment	1
067	GN604-95-10	Clamp Lever	1
069	61-20-63-02	Bearing	1
071	19-10-44-01	Handle Frame Cover	1
073	70-26-18-00	Bracket for Rubber Block	2
075	70-26-30-00	Rubber Block	7
076	19-10-54-22	Lever Catch	1
077	19-10-45-02	Handle with flexible Rubber Block	1
078	70-21-26-10	Rubber Grip	2
079	90-21-95-50	Level Adjustment Wheel	1
081	90-21-95-51	Knob for Handwheel	1
083	19-10-45-01	Hose Connector	1
085	70-25-02-50	Dust Hose	2
091	19-10-54-33	Pipe Lifting Lever	1

Pos.	Part No.	Description	Quantity
092	61-20-63-06-3	Flange Bearing	2
093	19-10-05-07	Spanner Nut	1
095	61-31-00-55	Eye Screw	1
096	61-50-12-60-L	Eye Screw left Threat	1
097	19-10-54-30-NN	Lever Height Adjustment	1
099	90-21-45-12	Ball Head	1
111	19-10-50-02	Bearing Housing Lid	1
113	61-63-10-2RS	Bearing	1
114	61-20-50-110	Sealing	1
115	19-10-50-01	Bearing Housing	1
117	19-21-17-07	Hexagon Ring	1
119	19-21-17-06	Drum Shaft	1
121	6885-50-10-8	Key	1
123	19-10-07-01	Spacer	1
125	61-30-01-80	Circlip	1
127	61-20-63-07-2	Bearing	2
129	19-10-17-03	Spacer	1
131	19-10-17-01	Bearing Housing	1
132	19-10-17-03-7	Spacer	1
133	90-24-200-3TB	Drum Pulley	1
135	90-24-25-17-35	Taperlock	1
137	70-26-27-90	Belt Tensioner	1
139	90-24-112-3TB	Pulley	1
141	90-24-20-12-42	Taperlock	1
143	70-24-12-07-RP	Belt	3
150	19-10-64-10	Shaft Front Wheel	1
152	61-20-62-06-2	Bearing	1
153	61-20-63-06-2	Bearing	1
154	19-10-64-00	Bearing Housing	1
156	GN-613-10-GK	Locking Pin	1
158	19-10-64-06	Clamping Yoke	1
160	19-10-64-05	Lid	1
162	MS005313	Bowden Cable	1
164	XCS-PA591	Safety Switch	1
166	XCS-Z11	Pin Safety Switch	1
168	70-21-24-10	Safety Strip	1
300	95-10-320-T	Drum	1
301	95-16-80-08	TC Cutters 80 / 8	1
303	95-16-80-20	Milling Flails 80 / 20	1
307	95-16-42-23	Spacer	1
309	95-10-320-A	Axis for Drum	6
311	95-10-320-S	Drum Side Disc	2
321	50-20-15-56	Control Panel	1
322	50-20-30-15-WEG	Drive Circuit	1
325	50-20-40-01	Transformer	1
327	50-20-23-GM-M-20	Nut	2
329	50-20-23-M-20	Cable Gland	2
331	50-20-23-GM-M-25	Nut	1
333	50-20-23-M-25	Cable Gland	1

Pos.	Part No.	Description	Quantity
335	50-20-30-03	Circuit Breaker	2
337	50-10-75-37	Circuit Breaker	1
339	51-20-31-04	Main Contactor	1
341	50-20-30-05-SA	Auxiliary Block	1
343	50-20-30-PF	Phase Guard	1
345	51-20-30-32	Motor Protective	1
347	50-20-32-01	Reverse Plug	1
349	50-20-23-09	Mounting Adapter	3
351	51-20-20-06	Star-Delta-Switch	1
353	50-20-23-03	Direction Switch	1
355	50-20-23-02-N	Start Button	1
357	50-20-23-01	Emergency Switch	1
359	50-20-20-18	Potentiometer	1
361	50-20-33-07	Contact Element	5
363	50-20-33-08	Contact Element	2
365	216773	Indicator Light	1
367	50-11-11-02	Terminal green/yellow	4
369	50-11-11-04	Terminal beige	12
371	50-11-11-07	Terminal	5
373	50-11-11-06	Terminal blue	3
375	50-20-20-05	Label Mount (I 0 II)	1
377	50-20-20-06	Label Mount (Start)	1
379	50-22-23-01	Emergency Switch Label	1
381	70-26-18-20	Rubber Bracket	3
401	80-20-20-52	Binding Wheel	4
403	19-11-11-02	Wheel Hub outside	2
405	19-11-11-01	Wheel Hub inside	2
411	19-10-55-25	Drum Shaft with Flange	1
413	19-10-55-04	Shaft for Diamond Drum	2
415	19-10-55-03	Flange for Diamond Drum	1
417	19-10-55-10	Drum for Diamond Blades	1
419	19-10-55-17	Spacer 1mm for Diamond Drum	1
421	19-10-55-14	Spacer 2mm for Diamond Drum	1
423	19-10-55-15	Spacer 3mm for Diamond Drum	1
425	19-10-55-16	Spacer 5mm for Diamond Drum	1
427	19-10-55-18	Spacer 8mm for Diamond Drum	1
429	19-10-55-19	Spacer 10mm for Diamond Drum	1

Pos.	Part No.	Description	Quantity
001	19-10-40-00	Drum Housing complete	1
003	19-10-43-00	Handle Frame	1
005	19-10-49-01	Belt Cover rear Plate	1
007	55-04-46-75-18,5	Motor	1
009	19-10-48-01	Belt Cover	1
011	19-10-42-02	Motor Bracket	2
013	19-10-41-00	Side Plate right	1
015	19-10-46-00	Sealing Slide	2
016	80-20-31-00	Drive Wheel	2
017	90-21-95-52	Clamping Ring Drive Shaft	1
019	19-10-20-01-S	Drive Shaft	1
021	6885-40-6-7	Key	2
023	6885-80-6-7	Key	1
024	91-20-00-01	Plug Brass	2
025	50-20-20-19	Drive Unit Motor	1
026	50-20-20-20	Gearbox	1
027	80-20-80-60	Front Wheel	1
029	19-10-01-07	Front Wheel Axis	1
031	19-10-47-01	Bracket Rubber Sealing front/back	2
035	70-10-47-01-H	Rubber Sealing rear	1
037	70-10-47-01-V	Rubber Sealing front	1
041	19-10-04-09	Rear Wheel Swing	1
043	61-24-50-30	Bronze Bearing	4
044	19-10-04-05-L	Axis	2
045	19-10-04-06-S	Rear Wheel Axis	1
046	90-20-00-53	Ruler	1
047	80-20-31-60	Wheel	2
051	19-10-08-02	Motor Mounting	1
053	19-10-54-10	Level Adjustment	1
054	60-33-12-25	Pin for lifting Rod	2
057	19-10-54-20	Lifting Rod lower Part	1
058	19-10-05-06	Lifting Rod upper Part	1
059	19-10-05-03	Height Control Piston	1
061	19-10-05-02-C	Spindle	1
063	61-24-40-46	Bronze Bearing	1
065	19-10-05-01	Housing Height Adjustment	1
067	GN604-95-10	Clamp Lever	1
069	61-20-63-02	Bearing	1
071	19-10-44-01	Handle Frame Cover	1
073	70-26-18-00	Bracket for Rubber Block	2
075	70-26-30-00	Rubber Block	7
076	19-10-54-22	Lever Catch	1
077	19-10-45-02	Handle with flexible Rubber Block	1
078	70-21-26-10	Rubber Grip	2
079	90-21-95-50	Level Adjustment Wheel	1
081	90-21-95-51	Knob for Handwheel	1
083	19-10-45-01	Hose Connector	1
085	70-25-02-50	Dust Hose	2
091	19-10-54-33	Pipe Lifting Lever	1

Pos.	Part No.	Description	Quantity
092	61-20-63-06-3	Flange Bearing	2
093	19-10-05-07	Spanner Nut	1
095	61-31-00-35	Screw, Hexagon M8x70	1
096	61-50-12-60-L	Eye Screw left Threat	1
097	19-10-54-30-NN	Lever Height Adjustment	1
099	90-21-45-12	Ball Head	1
111	19-10-50-02	Bearing Housing Lid	1
113	61-63-10-2RS	Bearing	1
114	61-20-50-110	Sealing	1
115	19-10-50-01	Bearing Housing	1
117	19-21-17-07	Hexagon Ring	1
119	19-21-17-06	Drum Shaft	1
121	6885-50-10-8	Key	1
123	19-10-07-01	Spacer	1
125	61-30-01-80	Circlip	1
127	61-20-63-07-2	Bearing	2
129	19-10-17-03	Spacer	1
131	19-10-17-01	Bearing Housing	1
132	19-10-17-03-7	Spacer	1
133	90-24-200-3TB	Drum Pulley	1
135	90-24-25-17-35	Taperlock	1
137	70-26-27-90	Belt Tensioner	1
139	90-24-112-3TB	Pulley	1
141	90-24-20-12-42	Taperlock	1
143	70-24-12-07-RP	Belt	3
150	19-10-64-10	Shaft Front Wheel	1
152	61-20-62-06-2	Bearing	1
153	61-20-63-06-2	Bearing	1
154	19-10-64-00	Bearing Housing	1
156	GN-613-10-GK	Locking Pin	1
158	19-10-64-06	Clamping Yoke	1
160	19-10-64-05	Lid	1
162	MS005313	Bowden Cable	1
164	XCS-PA591	Safety Switch	1
166	XCS-Z11	Pin Safety Switch	1
168	70-21-24-10	Safety Strip	1
300	95-10-320-T	Drum	1
301	95-16-80-08	TC Cutters 80 / 8	1
303	95-16-80-20	Milling Flails 80 / 20	1
307	95-16-42-23	Spacer	1
309	95-10-320-A	Axis for Drum	6
311	95-10-320-S	Drum Side Disc	2
321	50-20-15-56	Control Panel	1
322	50-20-30-15-WEG	Drive Circuit	1
325	50-20-40-01	Transformer	1
327	50-20-23-GM-M-20	Nut	2
329	50-20-23-M-20	Cable Gland	2
331	50-20-23-GM-M-25	Nut	1
333	50-20-23-M-25	Cable Gland	1

Pos.	Part No.	Description	Quantity
335	50-20-30-03	Circuit Breaker	2
337	50-10-75-37	Circuit Breaker	1
339	277766	Main Contactor	1
341	278425	Auxiliary Block	1
343	50-20-30-PF	Phase Guard	1
345	51-10-0-25-US	Motor Protective	1
347	50-20-32-01	Reverse Plug	1
349	50-20-23-09	Mounting Adapter	3
351	51-20-20-06	Star-Delta-Switch	1
353	50-20-23-03	Direction Switch	1
355	50-20-23-02-N	Start Button	1
357	50-20-23-01	Emergency Switch	1
359	50-20-20-18	Potentiometer	1
361	50-20-33-07	Contact Element	5
363	50-20-33-08	Contact Element	2
365	216773	Indicator Light	1
367	50-11-11-02	Terminal green/yellow	4
369	50-11-11-04	Terminal beige	12
371	50-11-11-07	Terminal	5
373	50-11-11-06	Terminal blue	3
375	50-20-20-05	Label Mount (I 0 II)	1
377	50-20-20-06	Label Mount (Start)	1
379	50-22-23-01	Emergency Switch Label	1
381	70-26-18-20	Rubber Bracket	3
401	80-20-20-52	Binding Wheel	4
403	19-11-11-02	Wheel Hub outside	2
405	19-11-11-01	Wheel Hub inside	2
411	19-10-55-25	Drum Shaft with Flange	1
413	19-10-55-04	Shaft for Diamond Drum	2
415	19-10-55-03	Flange for Diamond Drum	1
417	19-10-55-10	Drum for Diamond Blades	1
419	19-10-55-17	Spacer 1mm for Diamond Drum	1
421	19-10-55-14	Spacer 2mm for Diamond Drum	1
423	19-10-55-15	Spacer 3mm for Diamond Drum	1
425	19-10-55-16	Spacer 5mm for Diamond Drum	1
427	19-10-55-18	Spacer 8mm for Diamond Drum	1
429	19-10-55-19	Spacer 10mm for Diamond Drum	1

10 EC-DECLARATION

In accordance with the EEC Machine Directive 2006/42/EG of 17 May 2006, Appendix II A

We hereby certify that the following described machine in its conception, construction and form put by us into circulation is in accordance with all the relevant essential health and safety requirements of the EC Machinery Directive 2006/42/EEC as amended and the national laws and regulations adopting this directive. This declaration is no longer valid if the machine is modified without our consent.

Manufacturer: Contec Maschinenbau & Entwicklungstechnik GmbH, Hauptstraße 146, 57518 Alsdorf, Germany

Description of the machine:

Function:	Scarifier /shaver	Model:	Ferox 320
Serial number:		Year:	

The agreement with further valid guidelines/regulations following for the products is explained:

EMV-Richtlinie (2004/108/EG) of 15. December 2004

Other applied harmonized standards and specifications in particular:

DIN EN 12100 Sicherheit von Maschinen – Grundbegriffe, allgemeine Gestaltungsleitsätze, : Grundsätzliche Terminologie, Methodik, Risikobeurteilung

DIN EN 60204-1 Sicherheit von Maschinen – Elektrische Ausrüstungen von Maschinen, Teil1: Allgemeine Anforderungen

Authorized person for the technical documentation: Johannes Greb, Technical Manager

Alsdorf, 05.03.18



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