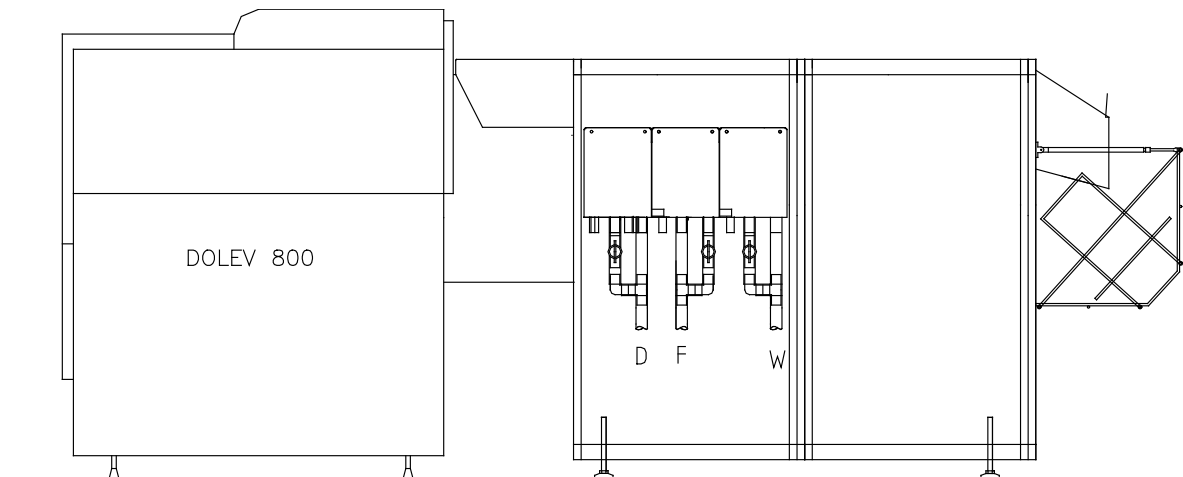


**Important**

**Your on-line processor has a built in exhaust blower. If the main switch is switched off, the blower is disconnected and chemical fumes can damage conveyor/imagesetter. Use the bulid in timer to control on/off/night mode of the processor to ensure that the exhaust blower is always running.**



**Creo  
Dolev 800 V / Dolev 800 V<sup>2-3-4</sup>**

**Hope / Carnfeldt  
EG 902**

**8.1 General**

This section contains the processor's basic operating instructions for working on-line with an imagesetter.

*Before operating the processor on-line, the procedures in section three Installation must be performed. Read this entire section and section four (operation) before attempting to operate the processor.*

**8.2 Installation of On-Line Section**

Special care should be taken when the processor is connected to imagesetter. Is advisable to

install the imagesetter first. The imagesetter should be "levelled" and be put in its final position before the processor is connected.

Install the processor as described in section three. Level the processor in to its final position before the chemistry is added.

Connect the 9 pin interface cable to the conveyor. Turn the power on and test the installation.

# Contents

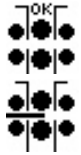
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Edition: 7 Nov 2002  
Product number:

**317982**  
**317983**

### 8.3 Conveyor Operation

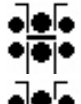
The operation of the conveyor is displayed on the left icon. Please observe the conveyor icons:



Empty conveyor, ready.



Film is being transported in to the conveyor



Film is in the conveyor.



Film has entered the processor.





Off-line feed.







Settings of timer and conveyor speed are adjusted in the service menu. To access the service menu please see section 5.7

### Communication Signals

To display the signals from the imagesetter use the information screen shown below. To access from the main menu push **S**     
 **→ →**

For more information see section four

					
IN-PUT	CON1	CON2	CON3	CON4	
	1	0	0	0	
	PH01	PH02	PH03	PH04	
	1	1	1	1	
	CONV. STATE				
	1				

Operation.

CONX - Status conveyor switches.

PHOX - Status signals from imagesetter.

CON1 - Conveyor sensor right or left  
Activated = 1.

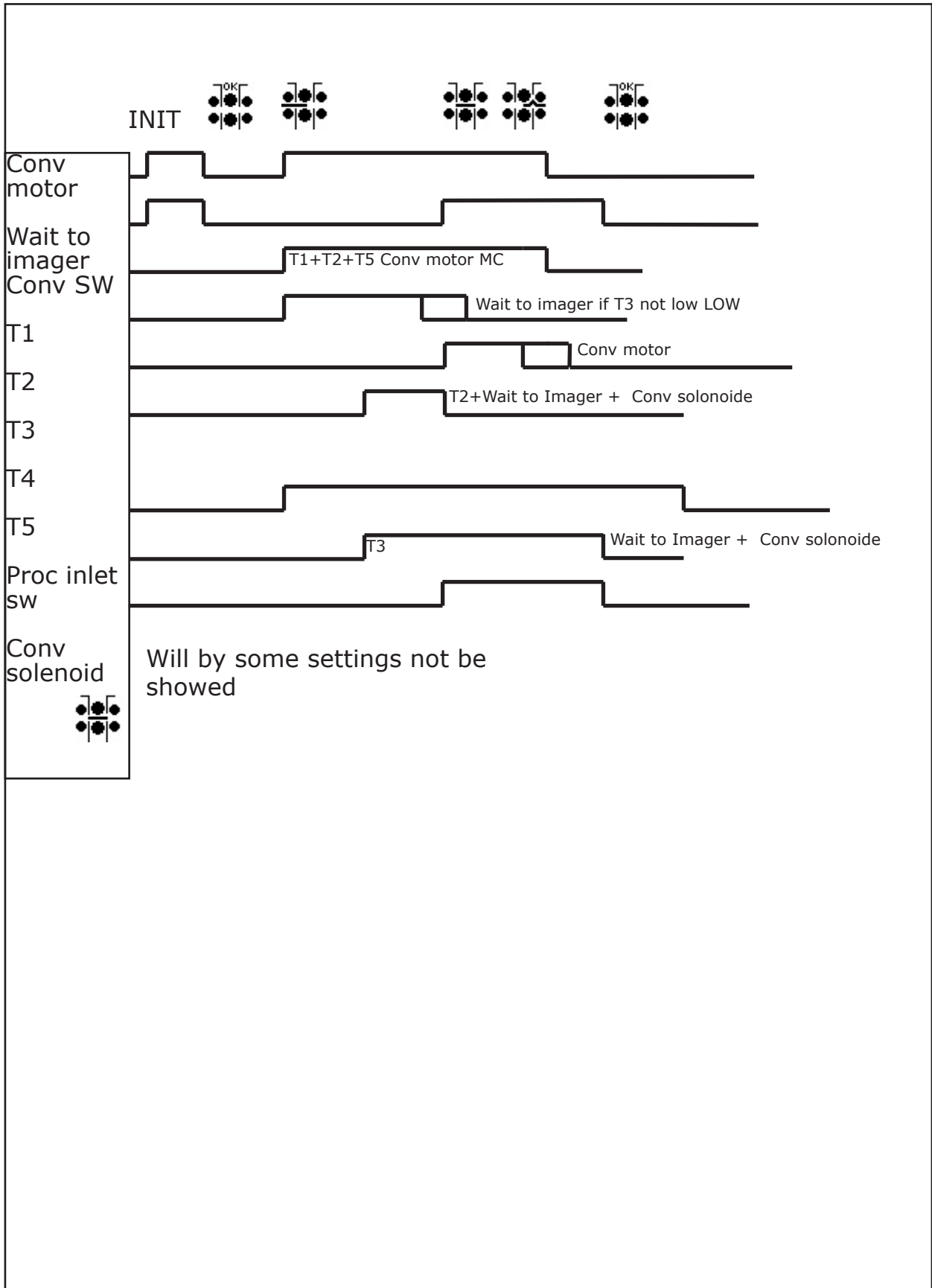
PH01 - PH04 - Not used on Dolev 800

CONV. STATE (See state diagram page 93)

### Conveyor Timer Settings

<u>Number</u>	<u>Settings V2/ V3-V4</u>	<u>Units</u>	<u>Description</u>
Conv. Timer 1	50/25	0,1 Sec	<b>Ready delay:</b> The time from activation of conveyor sensor wait is sent to imagesetter.
Conv. Timer 2	40/20	0,1 Sec	<b>Conveyor motor delay:</b> The time from the film has left the buffer to conveyor motor stop. Includes timer 3.
Conv. Timer 3	15/4	0,1 Sec	<b>No-Feed delay:</b> The time activation of the inlet sensor to conveyor motor stop.
Conv. Timer 4	-	0,1 Sec	<b>Not used on Dolev.</b>
Conv. Timer 5	40/40	Sec	<b>Conv:</b> Time out, error time out.
<b>Conveyor/Photoset: CreoScitex Dol 800</b>			
<b>Conv. motor speed1:</b>	<b>255</b>		

**Timing diagram Dolev 800 on-line**

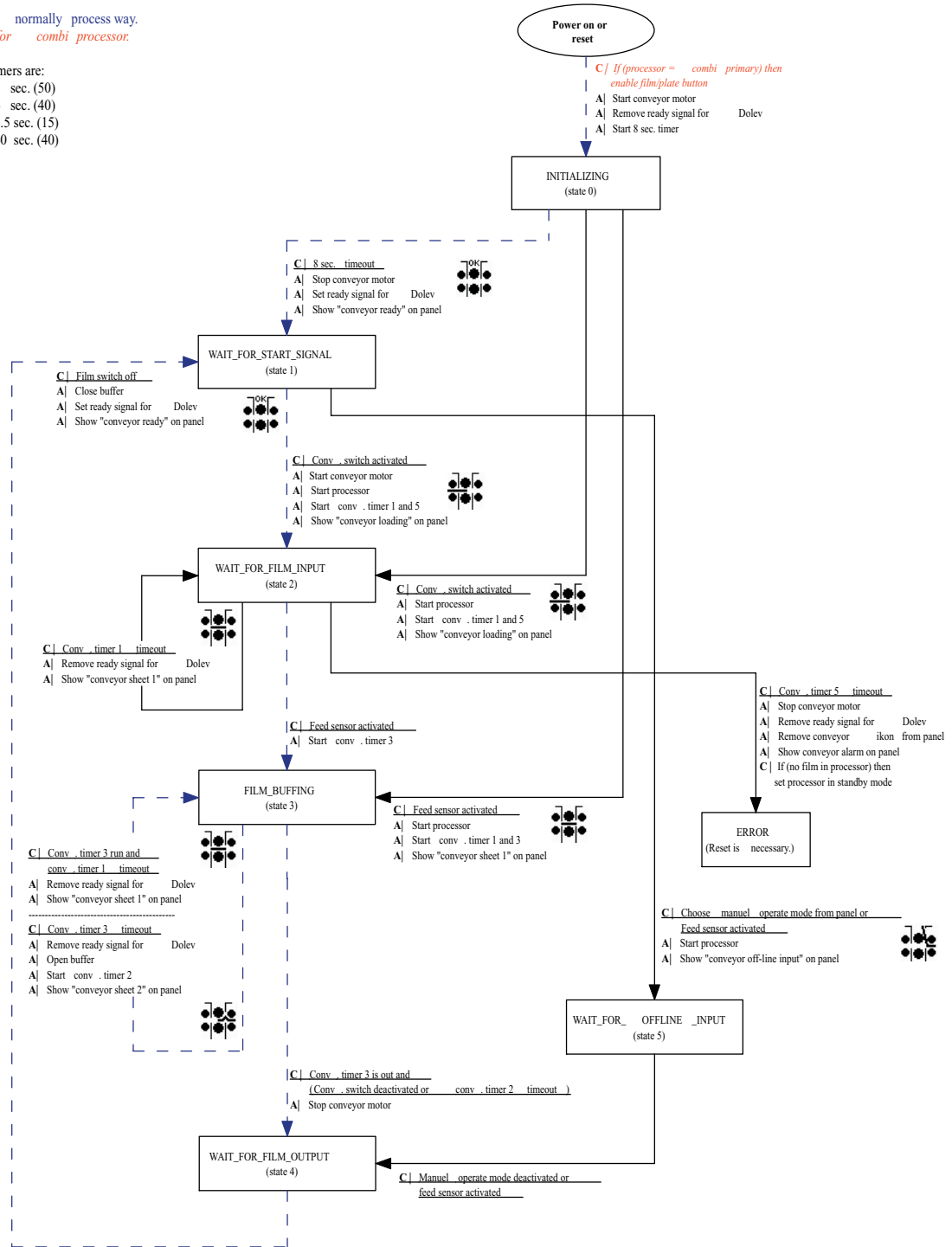


# SECTION EIGHT: On-Line Description Creo Models

C| = Command  
A| = Action

Dashed line is the normally process way.  
*Italic font is only for combi processor.*

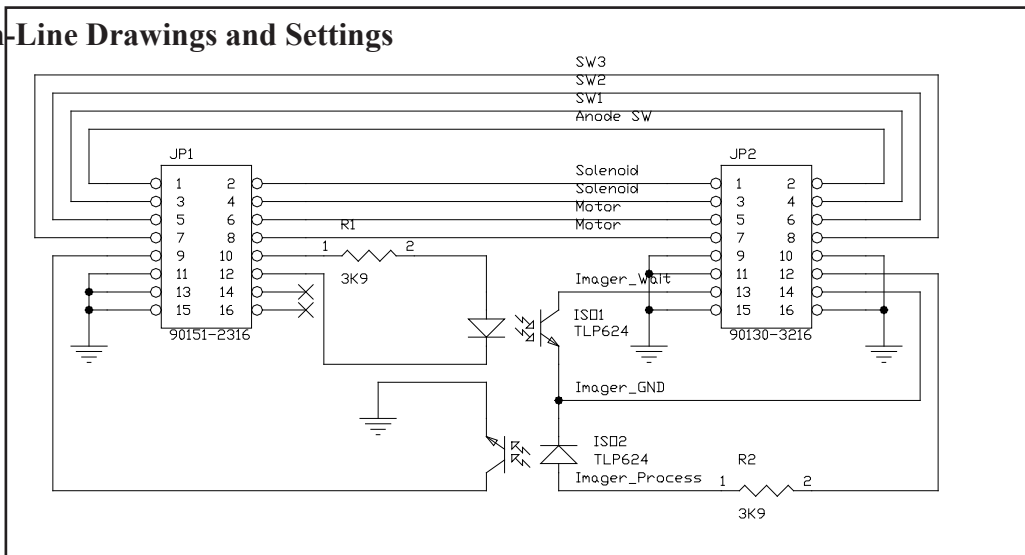
Default conv. timers are:  
Conv. timer 1 = 5 sec. (50)  
Conv. timer 2 = 4 sec. (40)  
Conv. timer 3 = 1.5 sec. (15)  
Conv. timer 5 = 40 sec. (40)



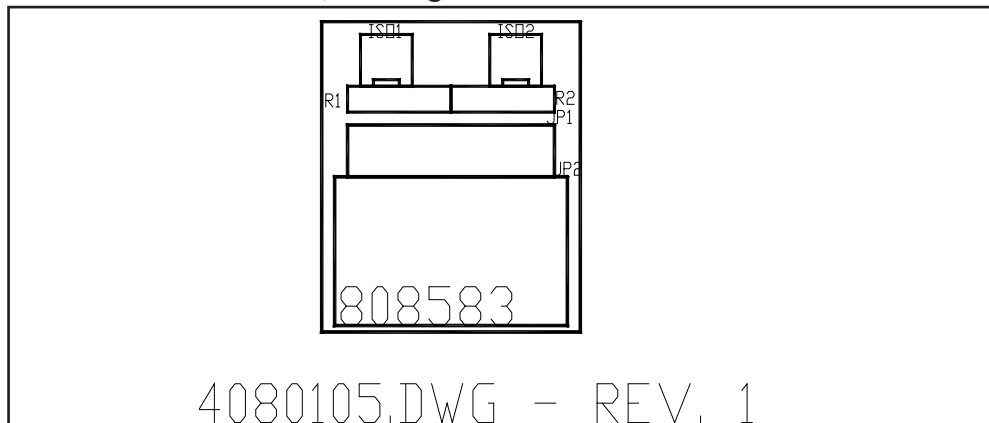
State diagram Dolev 800

# SECTION EIGHT: On-Line Description Creo Models

## 8.4 On-Line Drawings and Settings



Interface PCB for Dolev 800, drawing 4080105



Interface PCB for Dolev 800 layout, drawing 890718

### Test of Ready Signal for Dolev 800

1. Enter the service menu.
2. Select output.
3. Press the right arrow ( Fig 1)
  - Activate 1. DC MOTOR 1 (Fig 2).
4. The optocoupler ISO1 will be active until you press off or until you exit the service menu.

 **The interface PCB is placed on the conveyor sensor plug !**

**SECTION 8**

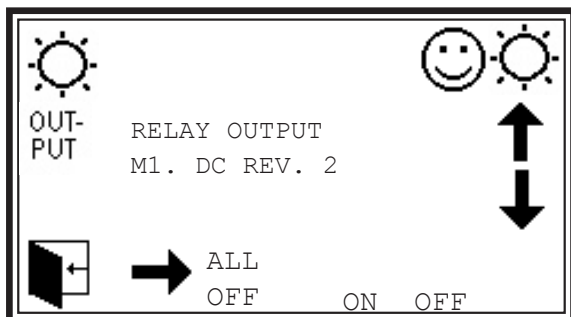


Fig 1

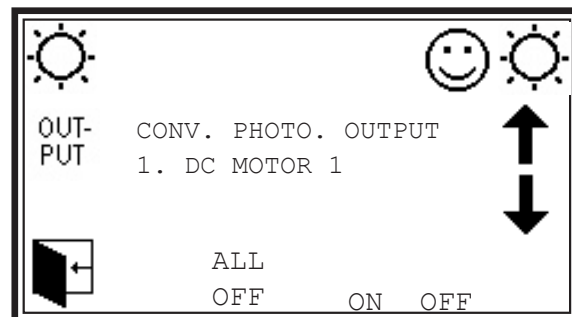
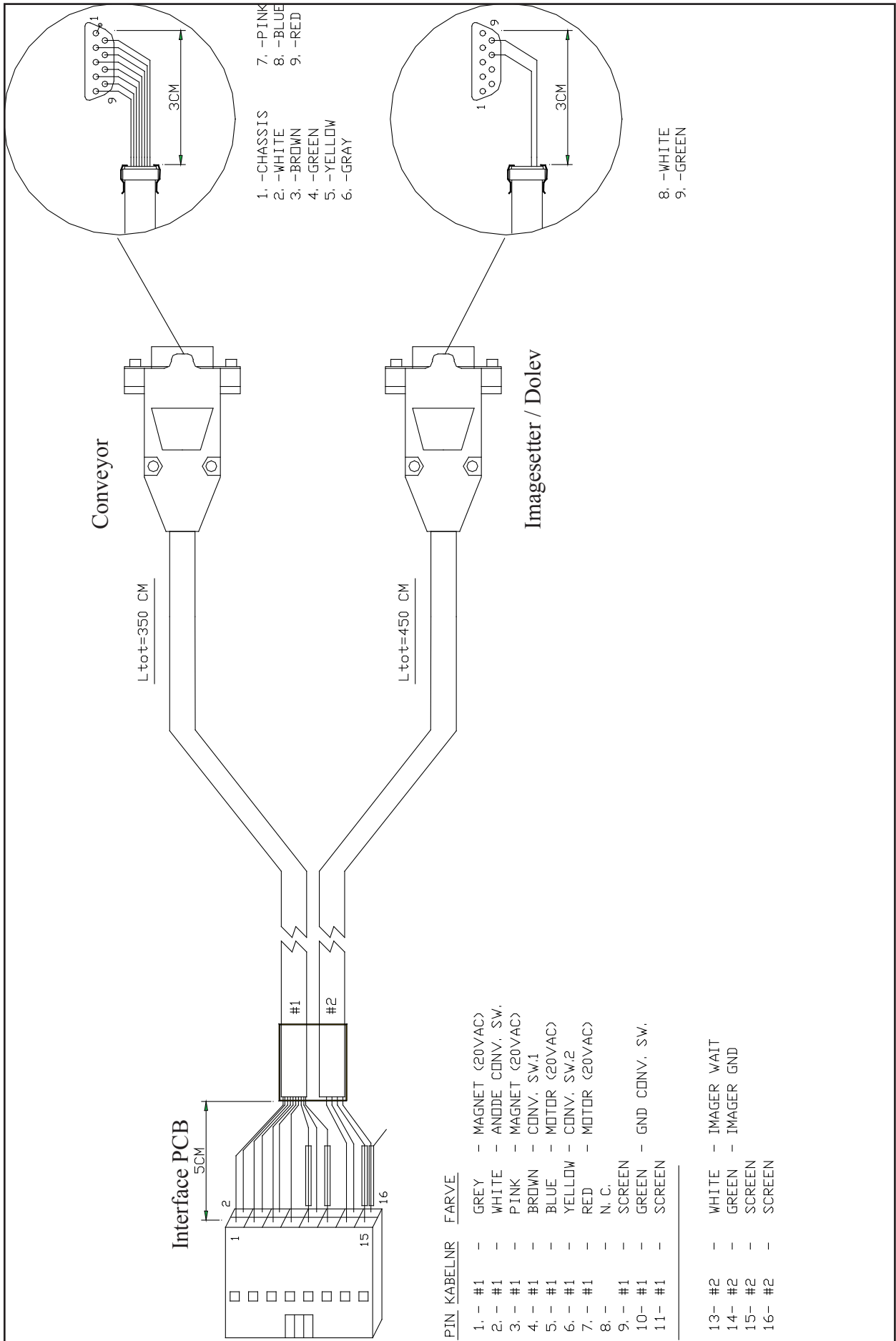
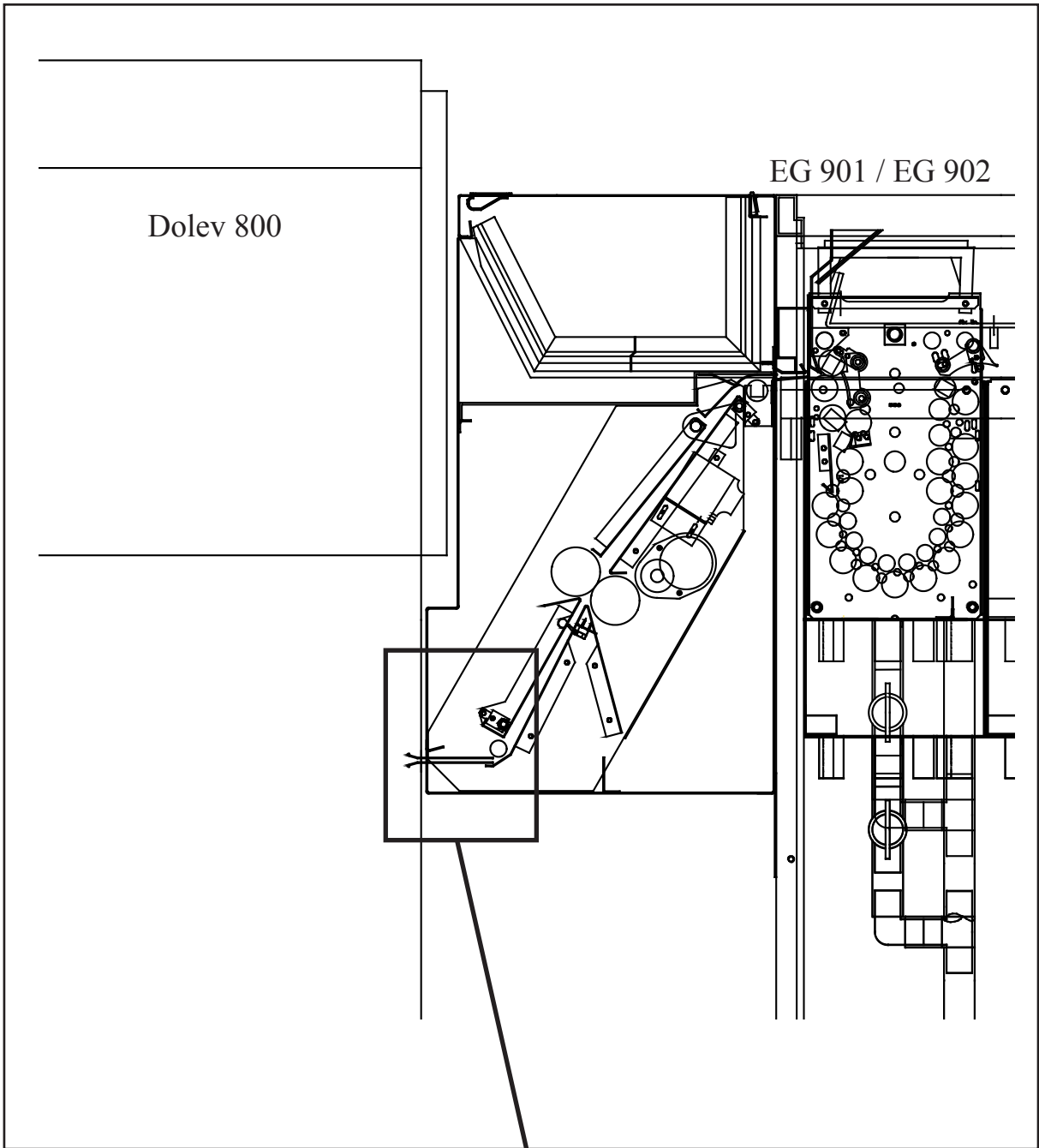


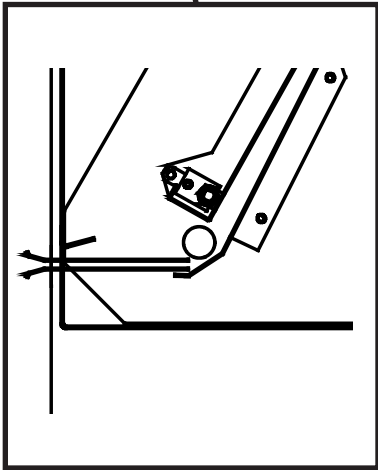
Fig 2



Cable - Conveyor / Imagesetter, Drawing 317749



SECTION 8

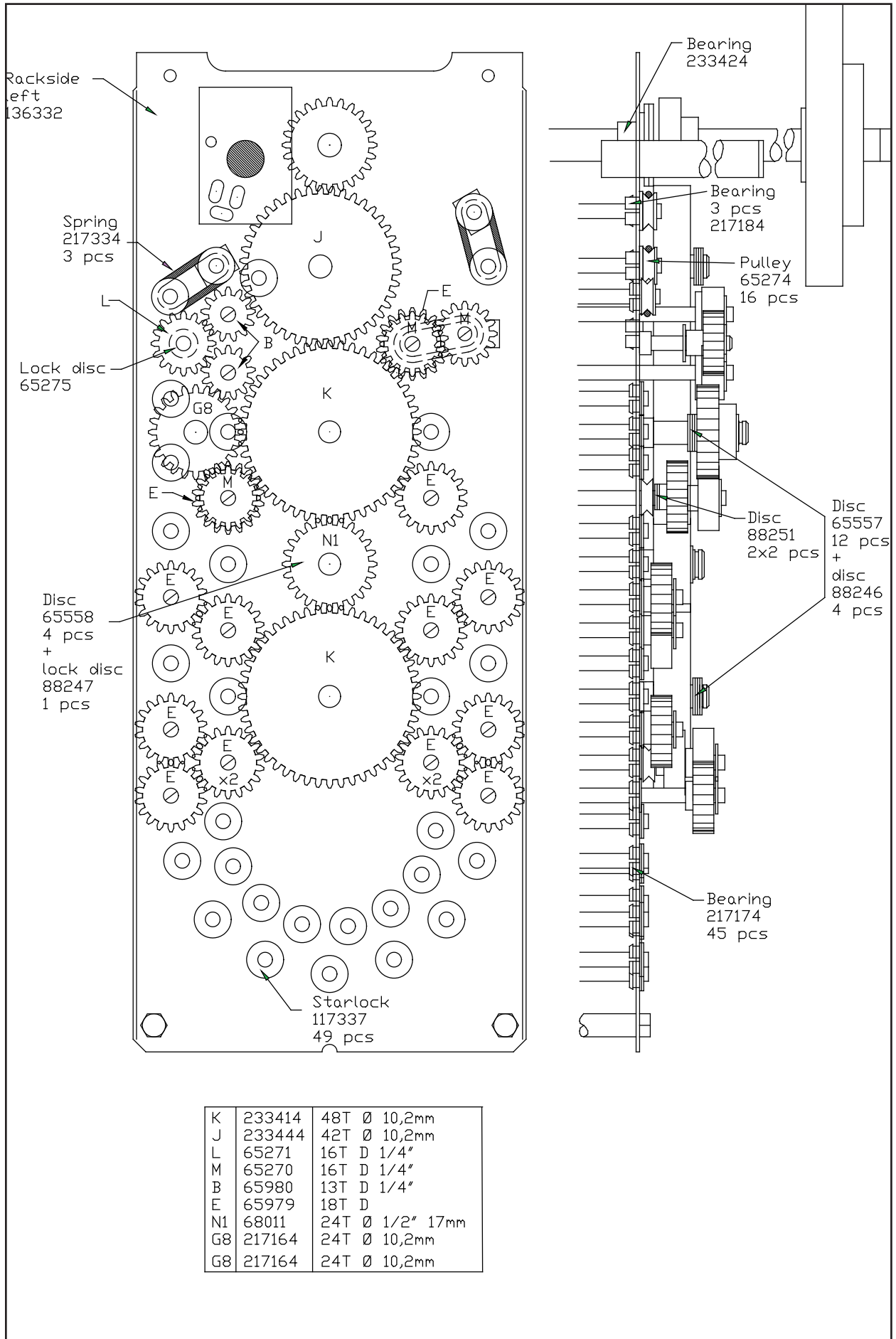


Conveyor Overview Drawing





# SECTION EIGHT: On-Line Description Creo Models

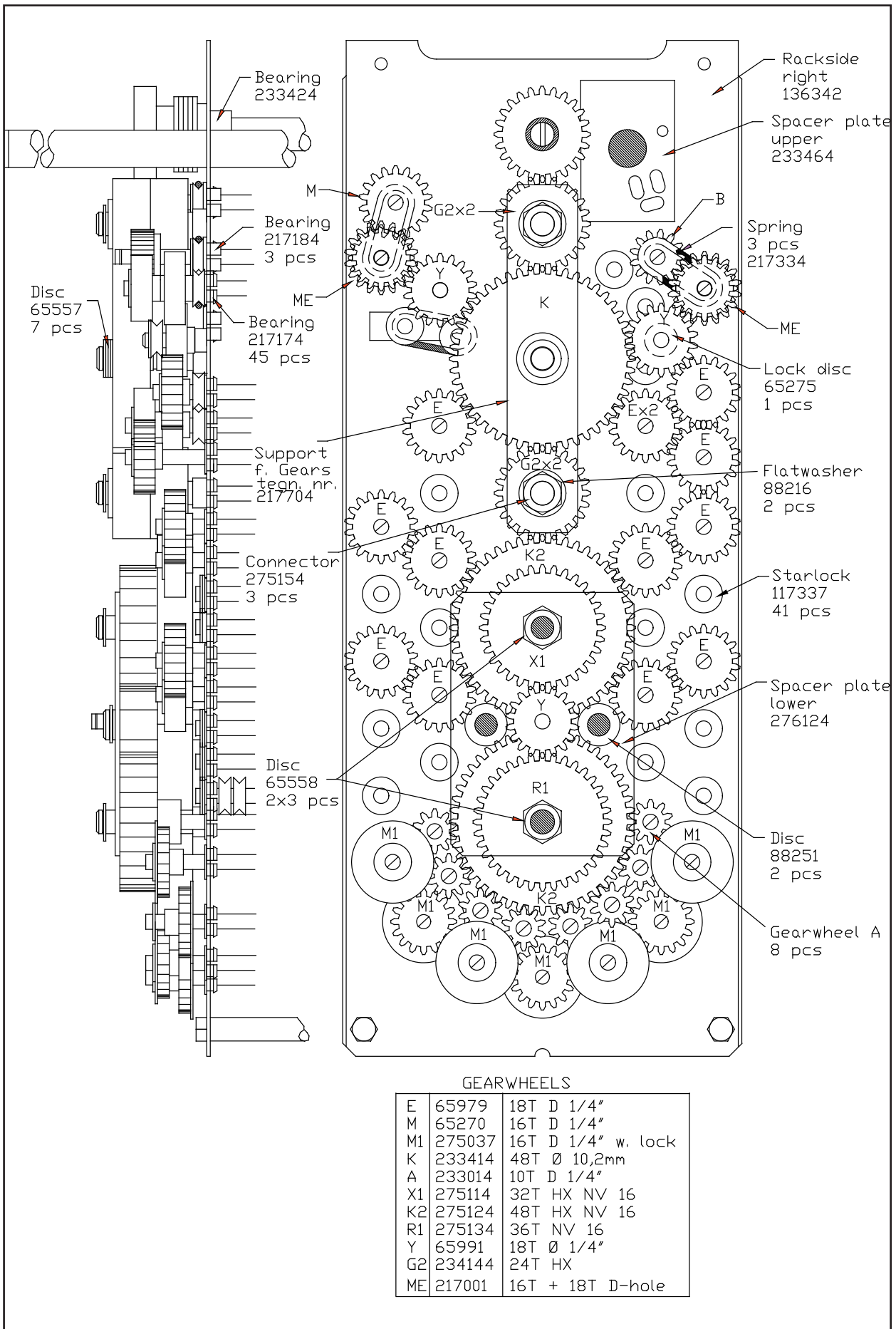


K	233414	48T Ø 10,2mm
J	233444	42T Ø 10,2mm
L	65271	16T D 1/4"
M	65270	16T D 1/4"
B	65980	13T D 1/4"
E	65979	18T D
N1	68011	24T Ø 1/2" 17mm
G8	217164	24T Ø 10,2mm
G8	217164	24T Ø 10,2mm

SECTION 8

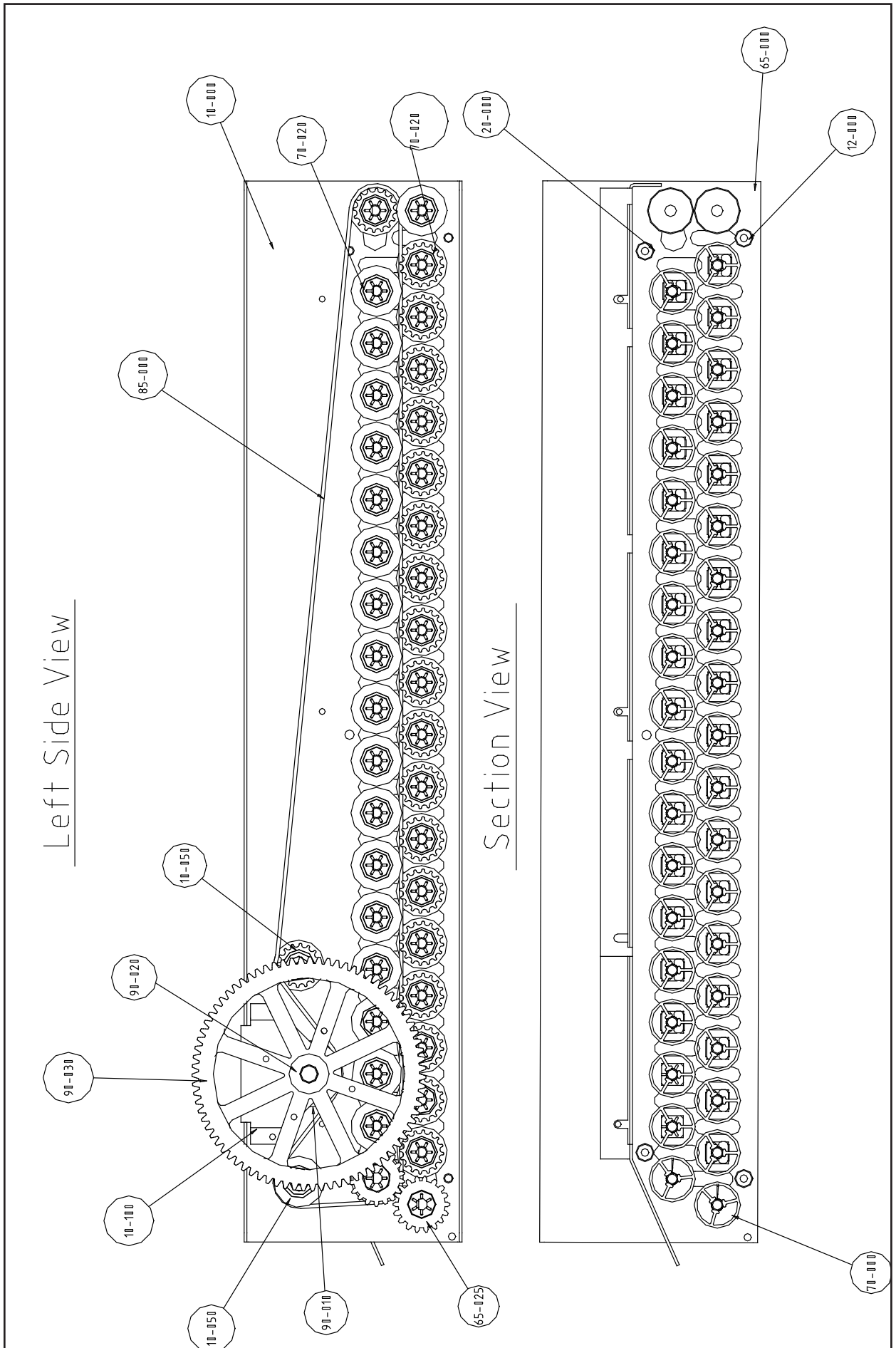
R67 Gearwheel Position Left Side, Drawing 117535

# SECTION EIGHT: On-Line Description Creo Models



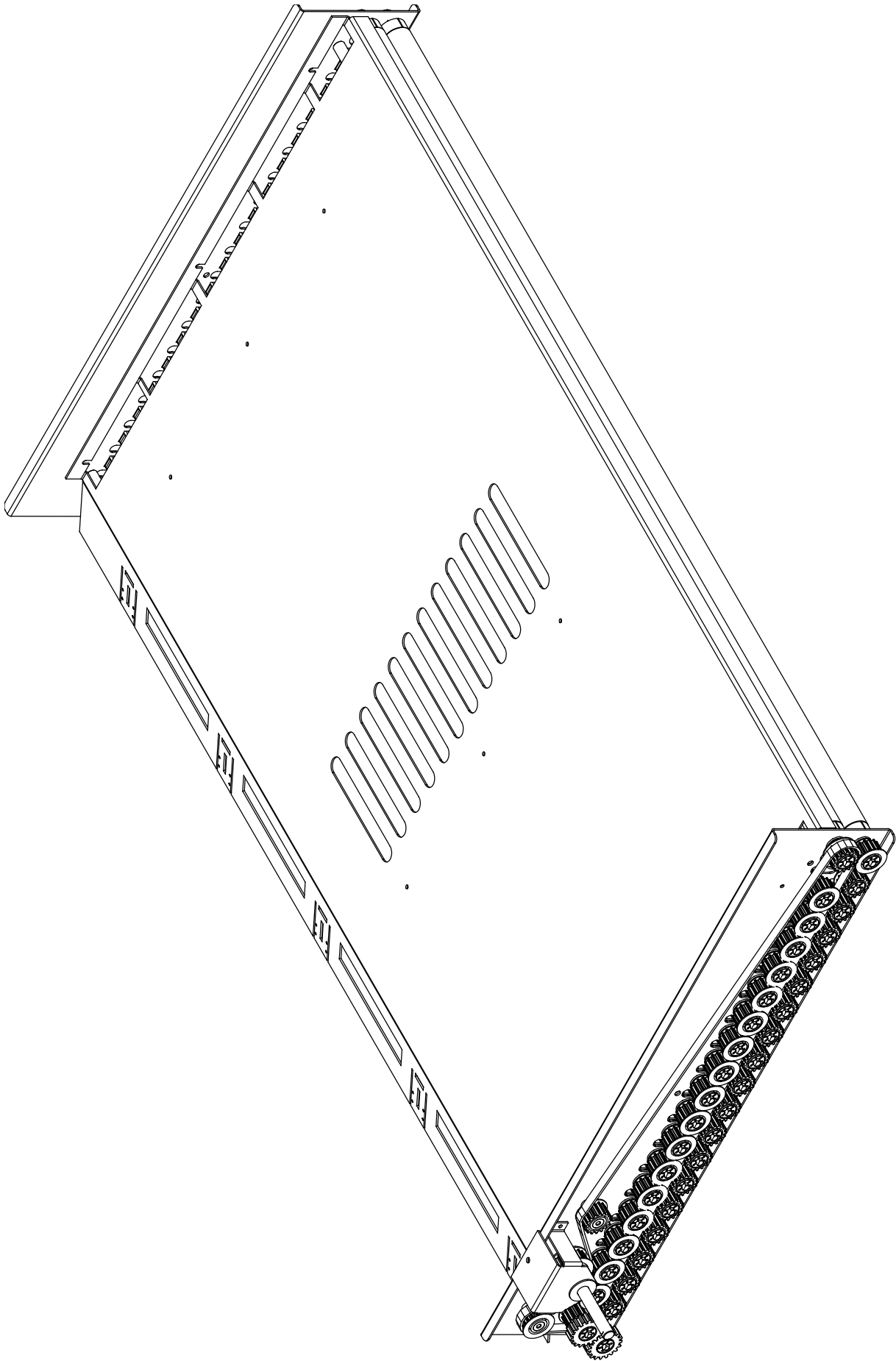
### GEARWHEELS

E	65979	18T D 1/4"
M	65270	16T D 1/4"
M1	275037	16T D 1/4" w. lock
K	233414	48T Ø 10,2mm
A	233014	10T D 1/4"
X1	275114	32T HX NV 16
K2	275124	48T HX NV 16
R1	275134	36T NV 16
Y	65991	18T Ø 1/4"
G2	234144	24T HX
ME	217001	16T + 18T D-hole



SECTION 8

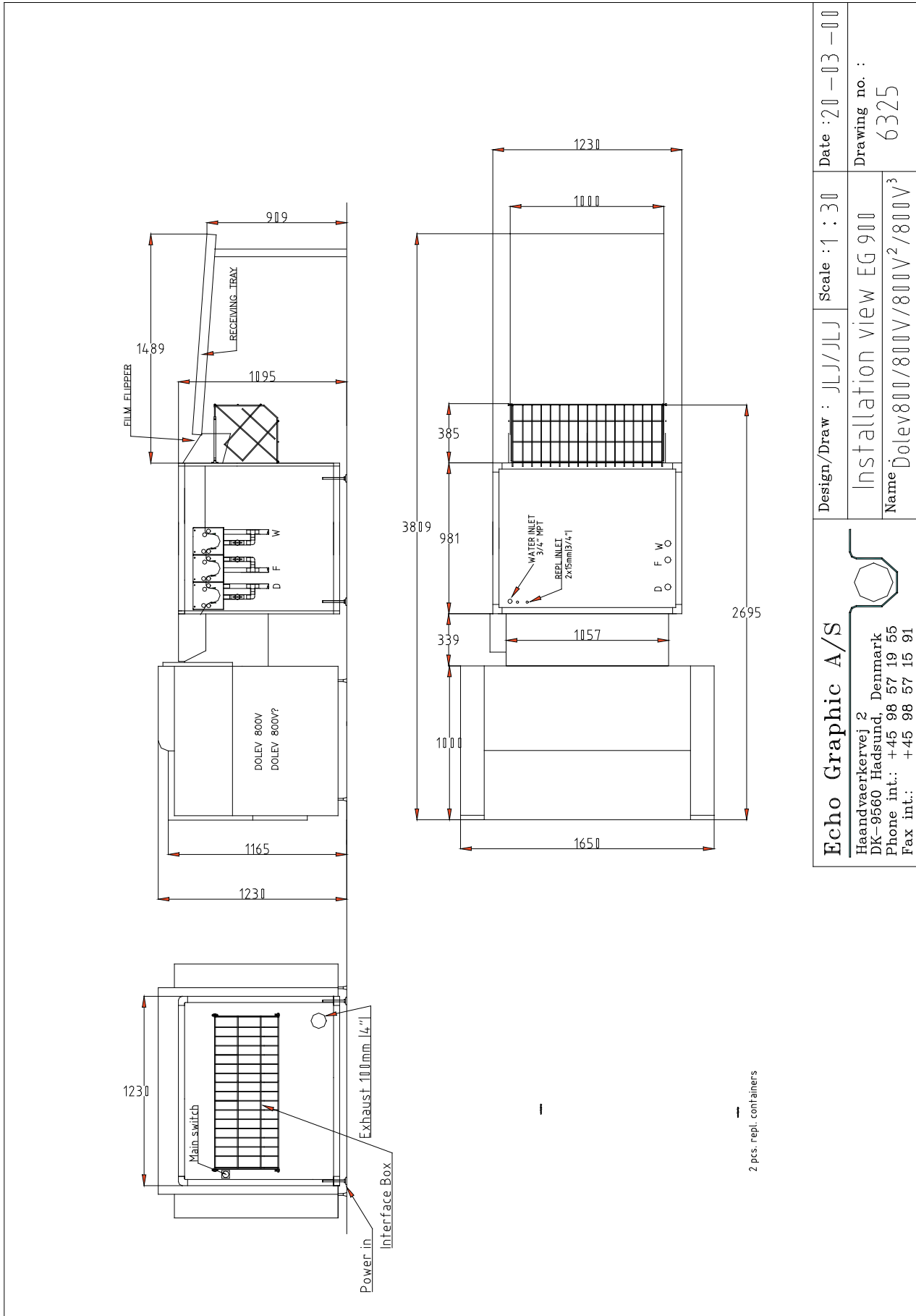
Dry Rack R60 HTD Drive EG 901, Drawing 320108a



SECTION 8

Dry Rack R60 HTD Drive EG 901, Drawing 320108b

**SECTION EIGHT: On-Line Description Creo Models**



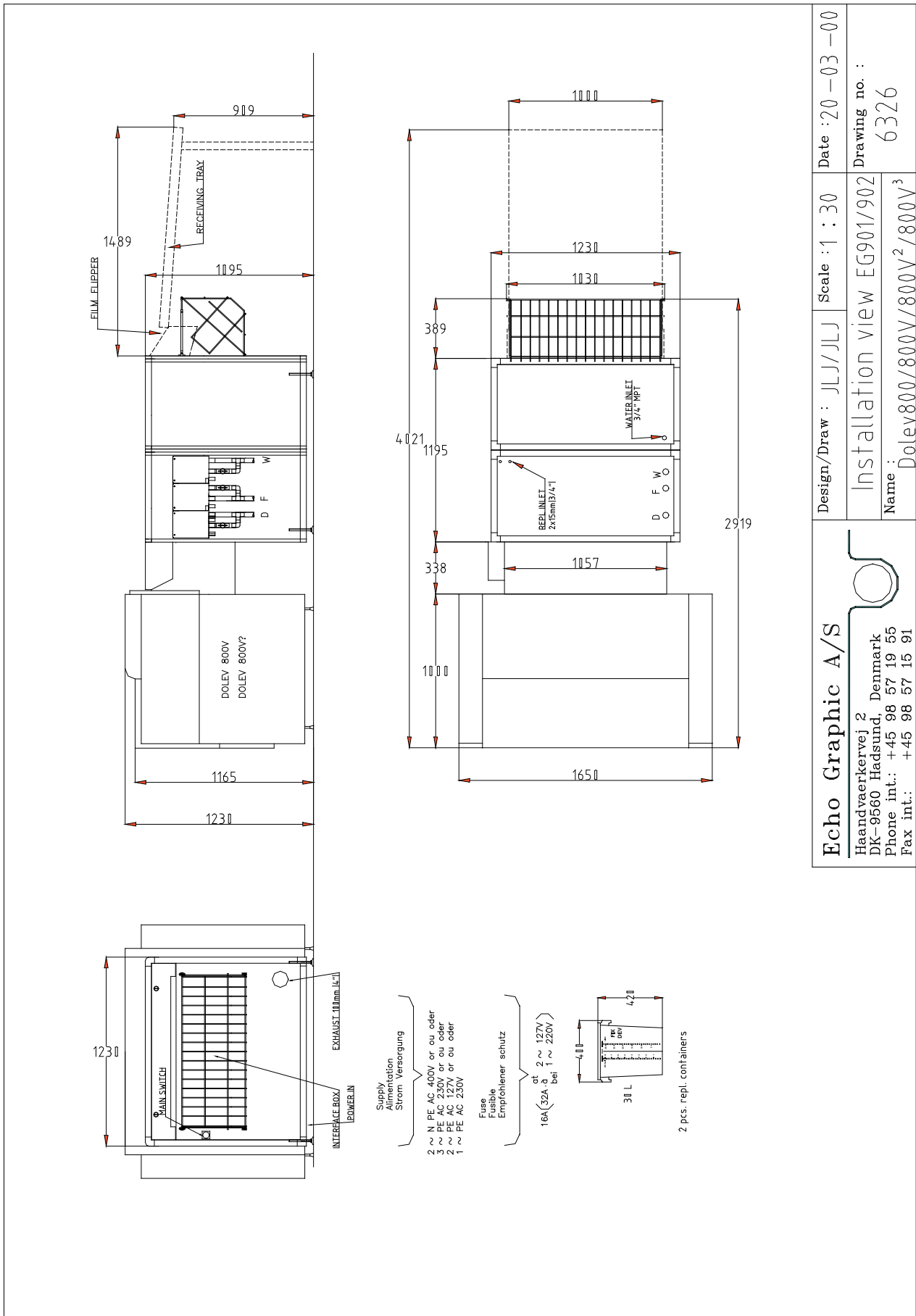
<b>Echo Graphic A/S</b> Haandvaerkevej 2 DK-9560 Hadsund, Denmark Phone int.: +45 98 57 19 55 Fax int.: +45 98 57 15 91	Design/Draw : JLJ/JLJ	Scale : 1 : 30	Date : 20 - 03 - 00
	Installation view EG 900 Name Dolev800V/800V²/800V³ Drawing no. : 6325		

**SECTION 8**

Installationsview 6325

# SECTION EIGHT: On-Line Description Creo Models

## SECTION 8

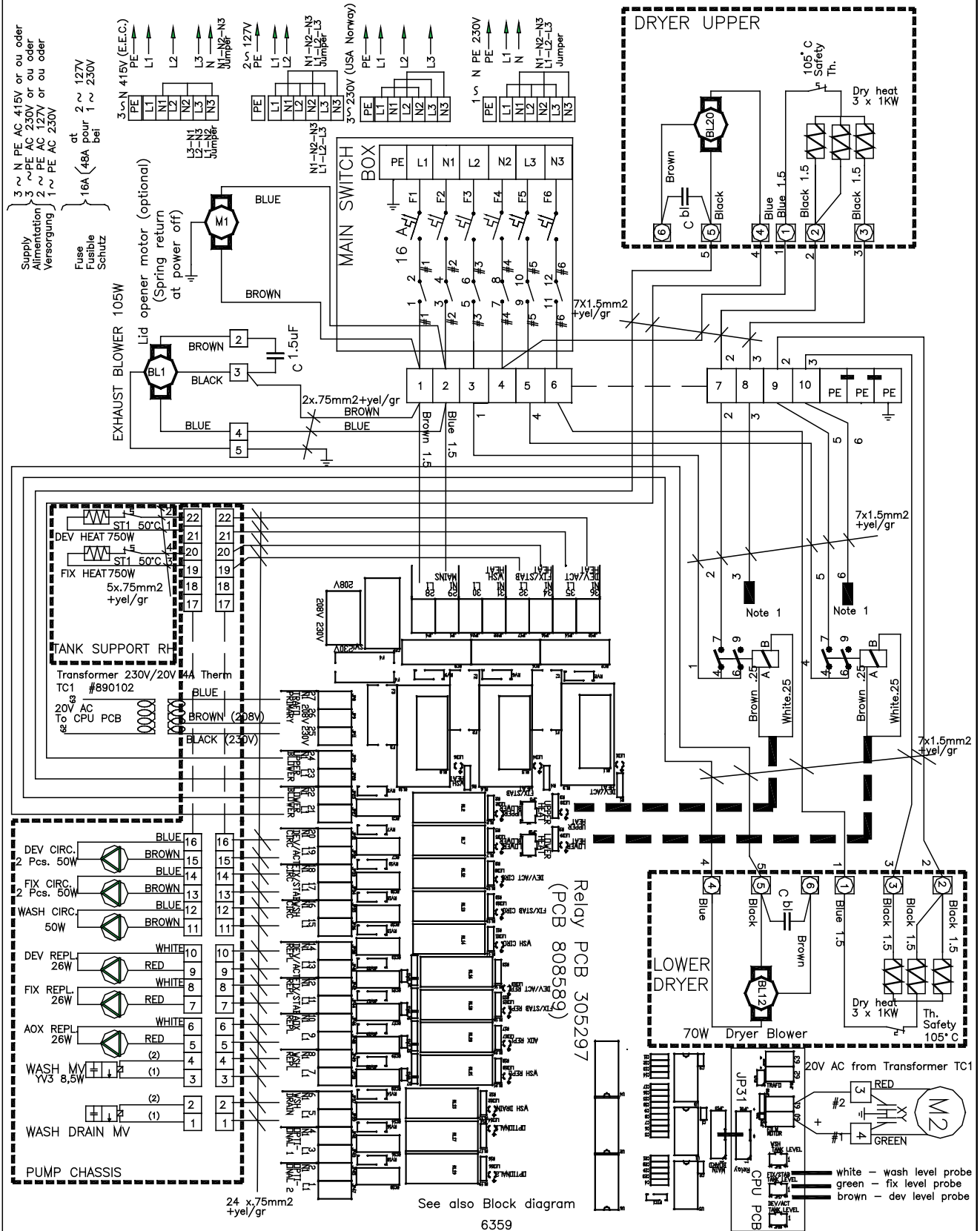


<b>Echo Graphic A/S</b> Haandvaerkervej 2 DK-9560 Hadsund, Denmark Phone int.: +45 98 57 19 55 Fax int.: +45 98 57 15 91	Design/Draw : JLJ/JLJ	Scale : 1 : 30	Date : 20 - 03 - 00
	Installation view EG901/902		
Name : Dolev800/800V/800V <sup>2</sup> /800V <sup>3</sup>		Drawing no. : 6326	

Installationsview 6326

# SECTION EIGHT: On-Line Description Creo Models

Note 1  
 Not connected on EG751/752 and EG901/902  
 Connected to relay term 9 on EG1141



**SECTION 8**

**Echo Graphic A/S**

Haandvaerkervej 2  
 DK-9560 Hadsund, Denmark  
 Phone int.: +45 98 57 19 55  
 Fax int.: +45 98 57 15 91

Design/Draw : CV

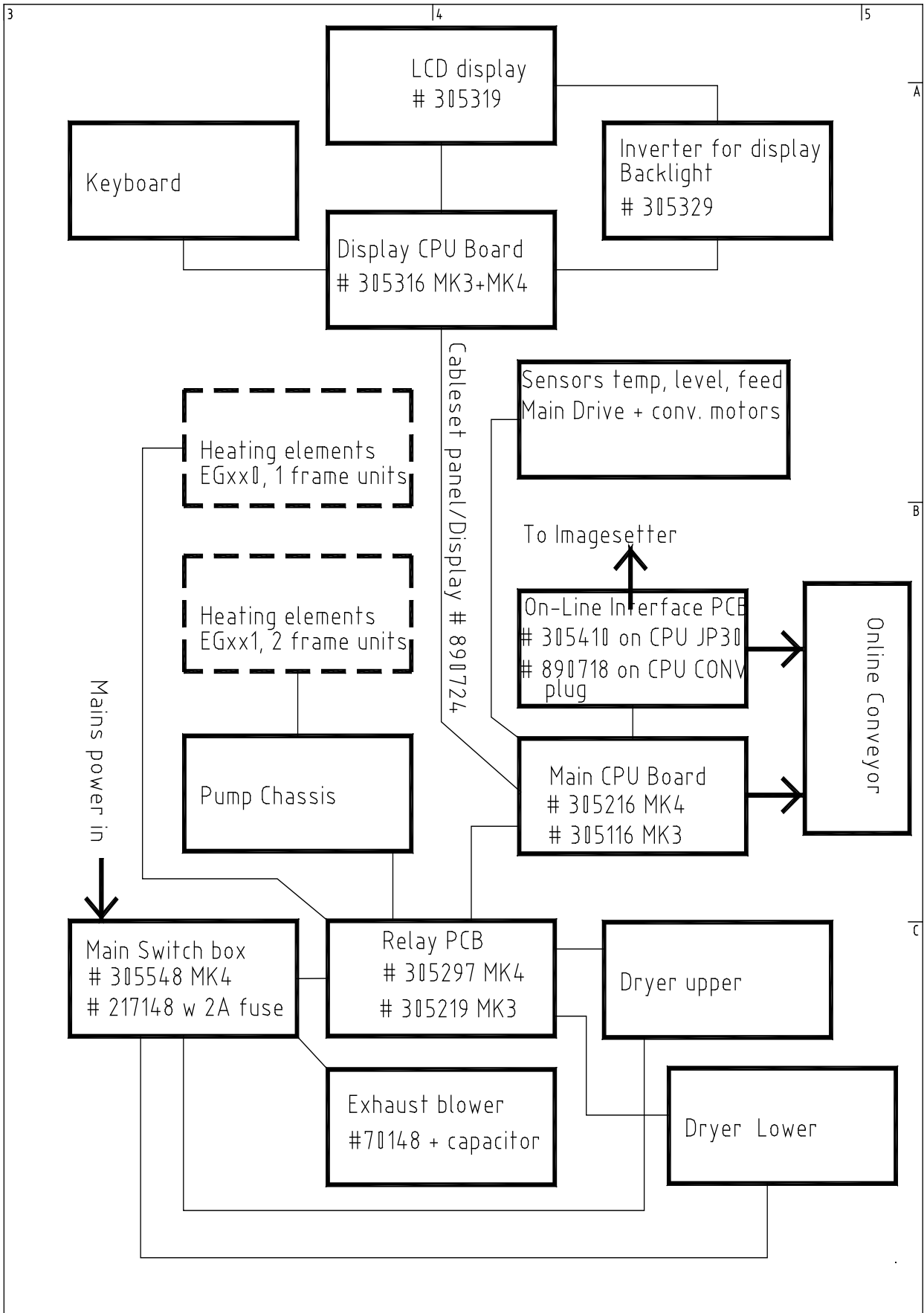
Scale : :

Date : 10-01-02

Name: Interconn. diagram  
 EG xx1 MK4

Drawing no. : 6361 A

**SECTION EIGHT: On-Line Description Creo Models**



**SECTION 8**

**Echo Graphic A/S**

Haandvaerkervej 2  
 DK-9560 Hadsund, Denmark  
 Phone int.: +45 98 57 19 55  
 Fax int.: +45 98 57 15 91



Design/Draw : CV

Scale : :

Date : 10-01-02

Name  
 Block diagr.EG MK4

Drawing no. :  
 6359

-

**Hope / Carnfeldt On-Line Processor for Creo imagesetters:**

	<b>EG 750</b> <b>Dolev 250/450</b> <b>4press/4news</b>	<b>EG 751</b> <b>Dolev 450</b> <b>4press/4news</b>	<b>EG 752</b> <b>4press/4news</b>	<b>EGP 751</b> <b>4press/4news</b>
<b>Dimensions of on-line system</b>				
Length	228 cm / 89.9"	252 cm / 99.2"	252 cm / 99.2"	313 cm / 123.2"
Width	Dolev 250/450: 115 cm / 45.3"	Dolev 250/450: 115 cm / 45.3"	140 cm / 55.1"	140 cm / 55.1"
Height	4press/4news: 140 cm / 55.1"	4press/4news: 140 cm / 55.1"	110 cm / 43.3"	110 cm / 43.3"
<b>Shipping dimensions</b>				
Length	156 cm / 61.4"	156 cm / 61.4"	156 cm / 61.4"	228 cm / 89.8"
Width	115 cm / 45.3"	115 cm / 45.3"	115 cm / 45.3"	120 cm / 47.2"
Height	129 cm / 50.8"	129 cm / 50.8"	129 cm / 50.8"	129 cm / 50.8"
<b>Weight</b>				
Net	233 kg / 514 lb.	345 kg / 761 lb	345 kg / 761 lb	530 kg / 1168 lb.
Gross	315 kg / 695 lb.	450 kg / 992 lb.	450 kg / 992 lb.	650 kg / 1433 lb.
<b>Specifications</b>				
Inlet width	75 cm / 29.5"	75 cm / 29.5"	75 cm / 29.5"	75 cm / 29.5"
Tank capacity – film section plate section	25 l / 6.6 US gal.	26.5 l / 7. US gal.	35 l / 9.3 US gal.	26.5 l / 7.0 US gal. 13.5 l / 4.2 US gal.
Rack length dev.	32 cm / 12.6"	44 cm / 17.3"	67 cm / 26.4"	44 cm / 17.3"
Rack length act.				20 cm / 7.9"
Developing time min.-max.	20-80 sec.	15-90 sec.	15-60 sec	15-90 sec.
Speed at 30 sec. dev. time	64 cm/min 25.2"/min.	88 cm/min. 34.6"/min.	134 cm/min. 52.8"/min	88 cm/min. 34.6"/min.
Speed at 20 sec. dev. time				60 cm/min. 23.6"/min.
Max. film length off-line	5 m / 16.4 ft.	10 m / 32.8 ft	10 m / 32.8 ft	10 m / 32.8 ft
Min. film size off-line	18x10 cm / 7 x 4"	18x10 cm / 7 x 4"	18x10 cm / 7 x 4"	21x29 cm / 8.3x11.4"
Max. format	Set by imagesetter	Set by imagesetter	Set by imagesetter	Set by imagesetter
Dev./fix./wash temperature range	20-45°C/68-113°F	20-45°C/68-113°F	20-45°C/68-113°F	20-45°C/68-113°F
Exhaust blower	Built in	Built in	Built in	Built in
Exhaust connection	Ø 10 cm / 4"	Ø 10 cm / 4"	Ø 10 cm / 4"	Ø 10 cm / 3.9"
Circulation rate dev. and fix.	10 l/min. 2.7 US gal.	22 l/min. 5.8 US gal.	22 l/min. 5.8 US gal.	22 l/min. 5.8 US gal.
Circulation rate act. and stab				10 l/min. / 2.7 US gal.
Water consumption (operate)	3.5 l/min. 0.9 US gal.	3.5 l/min. 0.9 US gal.	3.5 l/min. 0.9 US gal.	3.5 l/min. 0.9 US gal.
Emission of heat to room (operate)	2000 W	2300W	2300W	3000 W
Water connection	¾" MPT	¾" MPT	¾" MPT	¾" MPT
Drain connection	3x1" hose nipple	3x1" hose nipple	3x1" hose nipple	6 x 1" hose nipple
Replenishment containers	2 x 30l / 8US gal.	2 x 30l / 8 US gal.	2 x 30l / 8 US gal.	4 x 30 l/8 US gal
Max. power consumption	3700 VA	5900VA	5900VA	9400 VA
Average power consumption:				
Operate	3100 W	5000W	5000W	6200 W
Power save	600 W	1000W	1000W	3500 W
Night mode	550 W	600W	600W	1100 W
Power supply:				
1x230ACV +/-10% / 50/60Hz	20 amp	30 amp	30 amp	40 amp
3x230ACV +/-10% / 50/60Hz	-	3 x 16 amp	3x16 amp	3 x 16 amp

## SECTION EIGHT: On-Line Description Creo Models

### Hope / Carnfeldt On-Line Processors for Creo Imagesetters:

	EG 900, film	EG 901, film	EG 902, film	EGP 901,combi
<b>Dimensions of on-line system</b>				
Length	270 cm / 106.3"	292 cm / 115"	292 cm / 115"	349 cm / 137.4"
Width	165 cm / 65"	165 cm / 65"	165 cm / 65"	165 cm / 65"
Height	120 cm / 47.2"	120 cm / 47.2"	120 cm / 47.2"	123 cm / 48.4"
<b>Shipping dimensions</b>				
Length	175 cm / 68.9"	175 cm / 68.9"	175 cm / 68.9"	228 cm / 89.8"
Width	142 cm / 55.9"	142 cm / 55.9"	142 cm / 55.9"	142 cm / 55.9"
Height	129 cm / 50.8"	129 cm / 50.8"	129 cm / 50.8"	129 cm / 50.8"
<b>Weight</b>				
Net	300 kg / 661 lb.	395 kg / 871 lb	395 kg / 871 lb	540 kg / 1190 lb.
Gross	420 kg / 926 lb.	520 kg / 1146 lb.	520 kg / 1146 lb.	680 kg / 1500 lb.
<b>Specifications</b>				
Inlet width	91 cm / 36"	91 cm / 36"	91 cm / 36"	91 cm / 36"
Tank capacity	29 l / 7.7 US gal.	29 l / 7.7 US gal.	50 l / 13.2 US gal	29/16 l 7/3.6 US gal
Rack length dev.	32 cm / 12.6"	44 cm / 17.3"	67 cm / 26.4"	44/20 cm 17.3/7.8"
Developing time min.-max.	20 – 80 sec.	15 – 90 sec.	15 – 90 sec.	15 – 90 sec.
Speed at 30 sec. dev. time	64 cm/min. 25.2"/min.	88 cm/min. 34.6"/min.	134 cm/min. 52.8"/min.	88 cm/min. 34.7"/min.
Speed at 20 sec. dev. time	- -	- -	- -	60 cm/min. 23.6"/min.
Max. film length off-line	5 m / 16.4 ft	10 m / 32.8 ft	10 m / 32.8 ft.	-
Min. film size off-line	18 x 10 cm 7 x 4"	18 x 10 cm 7 x 4"	18 x 10 cm 7 x 4"	- -
Max. format (set by imagesetter)	86 x 121 cm 34 x 47"	86 x 121 cm 34 x 47"	86 x 121 cm 34 x 47"	86 x 121 cm 34 x 47"
Dev./fix./wash temperature range	20 - 45°C 68 - 113°F	20 - 45°C 68 - 113°F	20 - 45°C 68 - 113°F	20 - 45°C 68 - 113°F
Exhaust blower	Built in	Built in	Built in	Built in
Exhaust connection	Ø 10 cm	Ø 10 cm	Ø 10 cm	Ø 10 cm
Circulation rate dev., fix.	10 l/min. 2.7 US gal./min.	22 l/min. 2.7 US gal./min.	22 l/min. 2.7 US gal./min	22 / 10 l/min 2.7 /1.3 US gal.
Circulation rate wash	- -	22 l/min. 2.7 US gal./min	22 l/min. 2.7 US gal./min	22 / 10 l/min 2.7 /1.3 US gal.
Water consumption (operate)	3.5 l/min. 0.9 US gal/min.	3.5 l/min. 0.9 US gal/min.	3.5 l/min. 0.9 US gal/min.	3.5 l/min. 0.9 US gal/min.
Emission of heat to room (operate)	2000 W	2400 W	2400 W	3000 W
Water connection	¾" pipe thread	¾" pipe thread	¾" pipe thread	¾" pipe thread
Drain connection	3x1" hose nipple	3x1" hose nipple	3x1" hose nipple	6x1" hose nipple
Replenishment containers	Dev./fix. 30 l	Dev./fix. 30 l	Dev./fix. 30 l	4 x 30 l.
Max. power consumption	5900 VA	5900 VA	5900 VA	9400 VA
Average power consumption:				
Operate	5000 W	5000 W	5000 W	6200 W
Power save	1000 W	1000 W	1000 W	3500 W
Night mode	600 W	600 W	600 W	1100 W
Power supply:				
1x230ACV+/-10% / 50/60Hz	30 amp	30 amp	30 amp	40 amp
3x230ACV+/-10% / 50/60Hz	-	3 x 16 amp	3 x 16 amp	3 x 16 amp

### Technical specifications