

## 1 Preface

### 1.1 Notes for the reader

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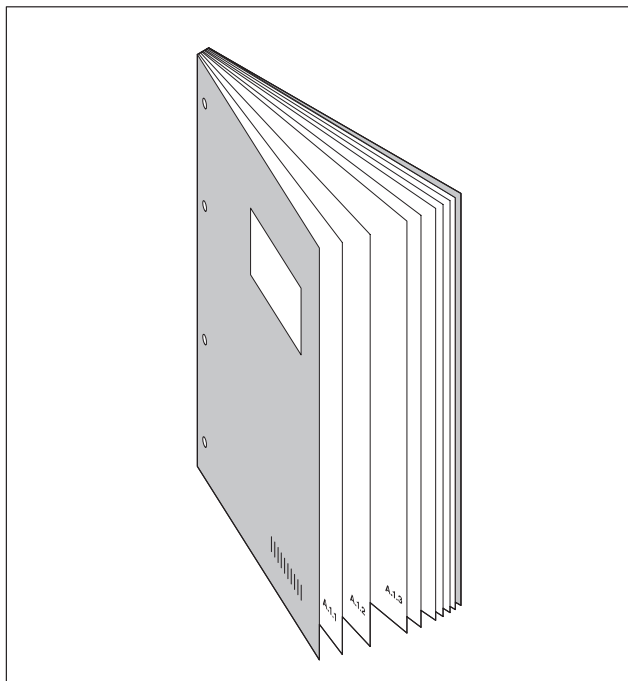


Fig. 1

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### Contents

This document contains information about the configuration, specifications and technical properties of the Heidelberg Speedmaster SM 74 and the associated peripheral units. It applies to all presses of this model line.

### Target group

This document is addressed to you if you

- think about purchasing a printing press of this model line;
- plan the installation and location of a printing press of this model line.

### Abbreviations used in this document

Fig. = Figure  
D.S. = drive side  
O.S. = operator's side  
PU = printing unit

**Status**

The information in these instructions correspond to the series production status of the machine/press at the time of publication of this document. We reserve the right to make changes of a technical nature in line with progress in technology.

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Printed in Germany

Fig. 2

I.2

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**A Technical specifications SM 74**

**Technical specifications**

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1 Print-related specifications

1.1 Print-related specifications

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<b>Sheet sizes</b>	Largest sheet	530 × 740 mm (20.87 × 29.13 in)
	Smallest sheet in straight printing	210 × 280 mm (8.27 × 11.02 in)
	Smallest sheet in front side printing with pile board feeder	280 × 280 mm (11.02 × 11.02 in)
	Smallest sheet in front side printing with pile board feeder and automatic lateral pile alignment	295 × 280 mm (11.61 × 11.02 in)
	Smallest sheet in face and back printing	300 × 280 mm (11.81 × 11.02 in)
	Largest print format	510 × 740 mm (20.08 × 29.13 in)
	Largest coating format	510 × 740 mm (20.08 × 29.13 in)
	Paper bite	8 – 10 mm (0.31 – 0.39 in), continuously adjustable
	Printing material thickness	0.03 – 0.6 mm (0.0012 – 0.024 in)
<b>Printing capacity</b>	Maximum SM 74-1 ... SM 74-8 + L	15000 sheets/h
	Maximum SM 74-8-P + L ... SM 74-10-P	13000 sheets/h
	Maximum SM 74 SE	13000 sheets/h
	Minimum	3000 sheets/h
	Crawl speed	5 rpm
<b>Printing plates</b>	Sheet size	605 × 745 mm (23.82 × 29.33 in)
	Thickness	0.25 – 0.3 mm (0.0098 – 0.012 in)
	Plate cylinder undercut	0.15 mm (0.006 in)
	Distance between front edge of plate and print start	59.5 mm (2.34 in)
<b>Coating plates</b>	Sheet size	615 × 745 mm (24.21 × 29.33 in)
	Thickness	Varies according to type (frequently 1.14 mm/ 1.16 mm (0.045 in / 0.046 in))
	Coating blanket cylinder undercut	3.2 mm (0.13 in)
	Distance between front edge of plate and beginning of coating	47.6 mm (1.87 in)
<b>Blankets</b>	Sheet size, unrailled	616 × 772 mm (24.25 × 30.39 in)
	Sheet size, reinforced	627 × 772 mm (24.69 × 30.39 in)
	Thickness	1.95 mm (0.08 in)
	Blanket cylinder undercut	2.3 mm (0.09 in)
<b>Coating blankets</b>	Sheet size, reinforced	627 × 772 mm (24.69 × 30.39 in)
	Thickness	1.95 mm (0.08 in)
	Coating blanket cylinder undercut	3.2 mm (0.13 in)

<b>Underlay sheet</b>	Sheet size	550 × 750 mm (21.65 × 29.53 in)
<b>Inking system</b>	Total number of rollers	20
	Form rollers	4
	Diameter	70.5; 60.5; 55.5; 65.5 mm (2.78, 2.38, 2.19, 2.58 in)
	Ink zones	23
<b>Dampening system</b>	Type	Alcolor continuous-type dampening system or Alcolor Vario continuous-type dampening system (SM 74-2 and later)
	Total number of rollers	5
	Form rollers	1
	Diameter	75 mm (2.95 in)
<b>Pile height, net</b>	Feeder with pile carriage	945 mm (37.20 in)
	Feeder with pile support plate	875 mm (34.45 in)
	Normal pile delivery	500 mm (19.69 in)
	High pile delivery, removal from the front end	1000 mm (39.37 in)
	High pile delivery, removal from the side	860 mm (33.86 in)
<b>Pile heights, gross <sup>(1)</sup></b>	Feeder	1042 mm (41.02 in)
	Normal pile delivery	597 mm (23.50 in)
	High pile delivery, removal from the front end	1160 mm (45.67 in)
	High pile delivery, removal from the side	1020 mm (40.16 in)
<b>Maximum pile weight</b>	Feeder	350 kg (770 lbs)
	Normal pile delivery	190 kg (420 lbs)
	High pile delivery	420 kg (930 lbs)
<b>Noise emission</b>	Feeder centre	84 dB(A)
	Control console at feeder	80 dB(A)
	Centre normal pile delivery	82 dB(A)
	Centre high pile delivery	83 dB(A)
	Basis	DIN 45635, Sheet 27
<b>Heat emission</b>		According to power requirement

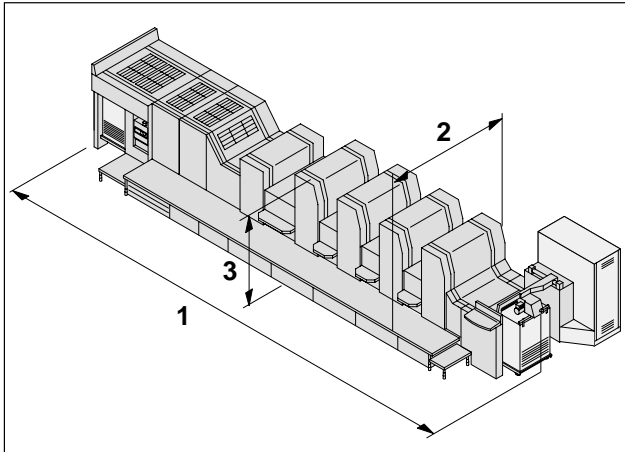
Tab. 1 Print-related specifications

(<sup>1</sup>): Including pile carriage or pile support plate and pile board.

2 Dimensions

2.1 Dimensions of the printing press

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The following specifications are valid for all machine versions:

- ① Length: see table 2
- ② Width:  
for SM 74-1: 2760 mm (108.66 in)  
from SM 74-2 onward: 2950 mm (116.14 in)
- ③ Height: 1870 mm (73.62 in)

Overall height of the printing press:

- With open protection grid: 2290 mm (90.16 in);
- With InkLine automatic ink dispensing system, metering unit open: 2570 mm (101.18 in).  
To be able to replace the InkLine cartridges (optional accessories) conveniently, the minimum room height should be 2750 mm (108.30 in).

Fig. 1 Dimensions of the printing press (SM 74-4 + LX)

For further information see also the next Chapter *Floor and working space requirement of the printing press.*

Press model	Length of the printing press [mm] ([in])
SM 74-1	2530 (99.60)
SM 74-2 (-P)	3550 (139.76)
SM 74-2 (-P) -H	5600 (220.47)
SM 74-2 (-P) + L	6610 (260.23)
SM 74-2 (-P) + LX	7990 (314.57)
SM 74-4 (-P)	5570 (219.29)
SM 74-4 (-P) -H	7630 (300.39)
SM 74-4 (-P) + L	8640 (340.16)
SM 74-4 (-P) + LX	10010 (394.09)
SM 74-5 (-P)	8640 (340.16)
SM 74-5 (-P) + L	9650 (379.92)
SM 74-5 (-P) + LX	11030 (434.25)
SM 74-6 (-P)	9650 (379.92)
SM 74-6 (-P) + L	10670 (420.08)
SM 74-6 (-P) + LX	12040 (474.02)
SM 74-7 (-P)	10670 (420.08)
SM 74-7 (-P) + L	11680 (459.84)
SM 74-7 (-P) + LX	13050 (513.78)
SM 74-8 (-P)	11680 (459.84)

Press model	Length of the printing press [mm] ( <i>[in]</i> )
SM 74-8 (-P) + L	12690 (499.61)
SM 74-8 (-P) + LX	14070 (553.94)
SM 74-10 (-P)	13710 (539.76)

Tab. 2 Length of the printing press

2.2 Dimensions of the foundations

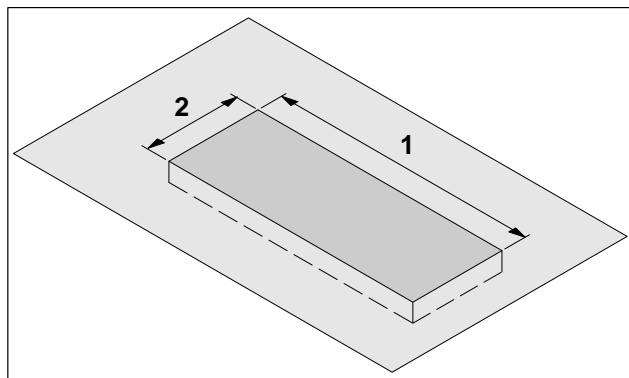


Fig. 2 Dimensions of foundation plate

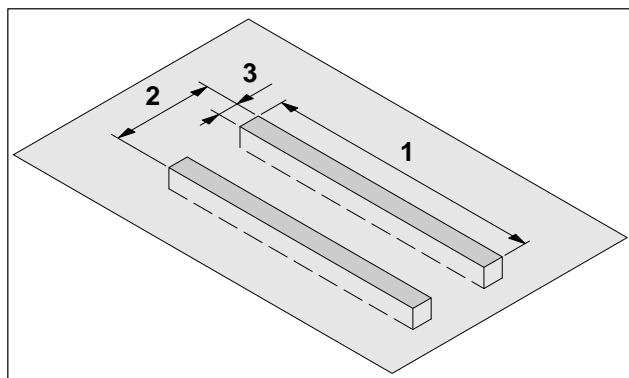


Fig. 3 Dimensions of foundation strips

The following specifications are valid for all machine versions:

- ① Length: see table 3
  - ② Width:  
Recommended: 1400 mm (55.12 in)  
Minimum: 1200 mm (47.24 in)
  - ③ Strip width: 300 mm (11.81 in)
- The foundations can be set up either as a foundation plate or as foundation strips. Regarding the construction costs, foundation strips are less expensive than a foundation plate. In practice, however, a foundation plate that covers almost the entire area under the printing press has shown certain advantages. These include a better vibrating behaviour which in turn enables you to obtain a better printing quality.
  - The foundation depth must be agreed with the stress analyst.
  - The surface requirement of the main drive is not included in the dimensions of the foundation.
  - For all foundation work it is recommended that heavy-duty concrete of the concrete property class B 35 is used.

Press model	Foundation length [mm] ( <i>[in]</i> )	
	Recommended	Minimum
SM 74-1	2530 (99.60)	2230 (87.80)
SM 74-2 (-P)	3550 (139.76)	3080 (121.26)
SM 74-2 (-P) -H	5600 (220.47)	4630 (182.28)
SM 74-2 (-P) + L	6610 (260.23)	5640 (222.05)
SM 74-2 (-P) + LX	7990 (314.57)	7080 (278.74)
SM 74-4 (-P)	5570 (219.29)	5110 (201.18)
SM 74-4 (-P) -H	7630 (300.39)	6660 (262.20)
SM 74-4 (-P) + L	8640 (340.16)	7670 (301.97)

Press model	Foundation length [mm] ( <i>in</i> )	
	Recommended	Minimum
SM 74-4 (-P) + LX	10010 (394.09)	9100 (358.27)
SM 74-5 (-P)	8640 (340.16)	7670 (301.97)
SM 74-5 (-P) + L	9650 (379.92)	8680 (341.73)
SM 74-5 (-P) + LX	11030 (434.25)	10120 (398.43)
SM 74-6 (-P)	9650 (379.92)	8680 (341.73)
SM 74-6 (-P) + L	10670 (420.08)	9690 (381.50)
SM 74-6 (-P) + LX	12040 (474.02)	11130 (438.19)
SM 74-7 (-P)	10670 (420.08)	9690 (381.50)
SM 74-7 (-P) + L	11680 (459.84)	10710 (421.65)
SM 74-7 (-P) + LX	13050 (513.78)	12140 (477.95)
SM 74-8 (-P)	11680 (459.84)	10710 (421.65)
SM 74-8 (-P) + L	12690 (499.61)	11720 (461.42)
SM 74-8 (-P) + LX	14070 (553.94)	13150 (517.72)
SM 74-10 (-P)	13710 (539.76)	12740 (501.57)

Tab. 3 Foundation lengths

**2.3 Dimensions and weights of the peripheral equipment**

**2.3.1 Dimensions and weights of the peripheral equipment**

Version	Dimensions [mm] ( <i>in</i> )			Weight [kg] ( <i>lbs</i> )
	Width	Depth	Height	
<b>Control boxes</b>				
Central control cabinet ZSG for SM 74-1 and SM 74-2	750 (29.53)	495 (19.49)	1250 (49.21)	180 (400)
Central control cabinet ZSG for SM 74-2-H to SM 74-4 + LX	1250 (49.21)	700 (27.56)	1930 (75.98)	560 (1230)
Central control cabinet ZSG from SM 74-5 onward	1500 (59.06)	700 (27.56)	1930 (75.98)	740 (1630)
<b>Prinect peripheral equipment</b>				
CP2000 Center (without standard daylight lamp)	1480 (58.27)	1130 (44.49)	1500 (59.06)	450 (990)
CP2000 Center (with standard daylight lamp)	1800 (70.87)	1490 (58.66)	2280 (89.76)	530 (1170)

Version	Dimensions [mm] ([in])			Weight [kg] ([lbs])
	Width	Depth	Height	
CPC 1-04 control console (without standard daylight lamp)	1650 (64.96)	985 (38.78)	1070 (42.13)	450 (990)
CPC 1-04 control console (with standard daylight lamp)	1650 (64.96)	985 (38.78)	2300 (90.56)	500 (1100)
CPTronic central control console	520 (20.47)	985 (38.78)	1070 (42.13)	70 (150)
ImageControl	2200 (86.61)	1130 (44.49)	1500 (59.06)	450 (990)
QualityProof	270 (10.63)	150 (5.91)	140 (5.51)	2.1 (4.6)
Plate image reader	1840 (72.44)	980 (38.58)	1650 (64.96)	220 (490)
AutoRegister	550 (21.66)	150 (5.91)	610 (24.02)	-
<b>AirStar</b> (suction and blast air supply)				
<b>Air-cooled</b>				
AirStar-LGK M3	1460 (57.48)	700 (27.56)	1930 (75.98)	550 (1210)
AirStar-LGK M8	1460 (57.48)	700 (27.56)	1930 (75.98)	510 (1120)
<b>Water-cooled</b>				
AirStar-WGK M3	1830 (72.05)	700 (27.56)	1930 (75.98)	630 (1390)
AirStar-WGK M8	1830 (72.05)	700 (27.56)	1930 (75.98)	590 (1300)
<b>Pneumatic compressors</b> (compressed-air supply)				
Dürr WB-062/0833-13 AH [installation beneath the feeder]	585 (23.03)	360 (14.17)	330 (12.99)	23 (51)
Boge SBD-R 125-1,9/15 [installation beneath the foot step at D.S.]	690(27.17)	545 (21.46)	360 (14.17)	40 (88)
Boge SBD-R 250-2,9/15 [installation beneath the foot step at D.S.]	690(27.17)	555(21.85)	390(15.35)	54(120)
ScrollStar	590 (23.23)	600(23.62)	1180 (46.46)	170 (375)
<b>HydroStar compact</b> (dampening solution supply)				
BasicLiner 1.0 L	500 (19.69)	700 (27.56)	1025 (40.35)	90 (200)
BasicLiner 2.0 L	600(23.62)	700 (27.56)	1115 (43.90)	100 (220)
<b>Accessories</b>				
Automix AMX 225 (additive metering unit)	410 (16.14)	700 (27.56)	1330 (52.36)	48 (105)
<b>HydroStar</b> (dampening solution supply)				
<b>Air-cooled</b>				
beta.d 40 L	1000(39.37)	700 (27.56)	1930 (75.98)	360 (790)
beta.d 60 L	1200 (47.24)	700 (27.56)	1930 (75.98)	400 (880)

Version	Dimensions [mm] ( <i>in</i> )			Weight [kg] ( <i>lbs</i> )
	Width	Depth	Height	
<b>Water-cooled</b>				
beta.d 40 G	1000 (39.37)	700 (27.56)	1930 (75.98)	340 (750)
beta.d 60 G	1200 (47.24)	700 (27.56)	1930 (75.98)	380 (840)
<b>Accessories</b>				
alcosmart R [integrated in the cabinet]	155 (6.10)	160 (6.30)	437 (17.20)	3 (6.6)
<b>CoolStar compact</b> (inking unit temperature control)				
alpha.t 30	655 (25.79)	800 (31.50)	1180 (46.46)	265 (580)
<b>CombiStar</b> (dampening solution supply + inking unit temperature control)				
<b>Air-cooled</b>				
beta.c 120 L	1800 (70.87)	700 (27.56)	1930 (75.98)	850 (1870)
beta.c 160 L	1800 (70.87)	700 (27.56)	1930 (75.98)	870 (1920)
beta.c 200 L	2400 (94.49)	700 (27.56)	1930 (75.98)	980 (2160)
beta.c 240 L	2400 (94.49)	700 (27.56)	1930 (75.98)	1000 (2200)
<b>Water-cooled</b>				
beta.c 120 G	1800 (70.87)	700 (27.56)	1930 (75.98)	800 (1760)
beta.c 160 G	1800 (70.87)	700 (27.56)	1930 (75.98)	820 (1810)
beta.c 200 G	2400 (94.49)	700 (27.56)	1930 (75.98)	940 (2070)
beta.c 240 G	2400 (94.49)	700 (27.56)	1930 (75.98)	950 (2090)
<b>Accessories</b>				
alcosmart R [integrated in the cabinet]	155 (6.10)	160 (6.30)	437 (17.20)	3 (6.6)
<b>Varnish supply units</b> [installation beneath the foot step at D.S.]				
LVG-160E	820 (32.28)	480 (18.90)	395 (15.55)	63 (140)
LVG-360E	820 (32.28)	480 (18.90)	395 (15.55)	93 (205)
<b>DryStar</b> (IR drying)				
<b>Air-cooled</b>				
DryStar Ink	1300 (51.18)	700 (27.56)	1930 (75.98)	450 (990)
DryStar Coating	1300 (51.18)	700 (27.56)	1930 (75.98)	490 (1080)
DryStar Combination	2600 (102.36)	700 (27.56)	1930 (75.98)	850 (1870)
<b>Water-cooled</b>				
DryStar Ink	1200 (47.24)	700 (27.56)	1930 (75.98)	450 (990)
DryStar Coating	1200 (47.24)	700 (27.56)	1930 (75.98)	490 (1080)
DryStar Combination	2600 (102.36)	700 (27.56)	1930 (75.98)	850 (1870)
<b>InkLine</b> (automatic ink supply) [installed above the ink fountain]				

Version	Dimensions [mm] ([in])			Weight [kg] ([lbs])
	Width	Depth	Height	
InkLine	1110 (43.70)	370 (14.57)	700 (27.56) Metering unit open	25 (55)
<b>Plate punch and plate bending device</b>				
Plate punch	1530 (60.24)	655 (25.79)	1420 (55.91)	140 (310)
Plate bending device	1530 (60.24)	655 (25.79)	1420 (55.91)	160 (350)

Tab. 4 Dimensions and weights of the peripheral equipment

**2.3.2 Special dimensions of the peripheral equipment**

Version	Dimensions [mm] ([in])	
	Depth when doors are open	Height with exhaust-air hood
<b>AirStar</b>		
All versions	-	2430 (95.67)
<b>HydroStar</b>		
beta.d 40	1200 (47.24)	2430 (95.67)
beta.d 60	1300 (51.18)	2430 (95.67)
<b>CombiStar</b>		
All versions	1300 (51.18)	2430 (95.67)
<b>DryStar</b>		
All versions	1215 (47.83)	2430 (95.67)

Tab. 5 Special dimensions of the peripheral equipment

**2.3.3 Dimensions of the exhaust-air hoods**

Exhaust-air hood for version	Dimensions [mm] ([in])			
	Width	Depth	Height	Socket diameter
<b>AirStar</b>				
All versions	1155 (45.47)	700 (27.56)	500 (19.69)	DN 400 (15.75)
<b>HydroStar</b>				
beta.d 40	1000(39.37)	700 (27.56)	500 (19.69)	DN 564 (22.20)
beta.d 60	1200 (47.24)	700 (27.56)	500 (19.69)	DN 564 (22.20)
<b>CombiStar</b>				
beta.c 120 ... 160	1800 (70.87)	700 (27.56)	500 (19.69)	DN 564 (22.20)
beta.c 200, 240	2400 (47.24)	700 (27.56)	500 (19.69)	DN 564 (22.20)

Exhaust-air hood for version	Dimensions [mm] ( <i>[in]</i> )			Socket diameter
	Width	Depth	Height	
<b>DryStar</b>				
DryStar Ink, DryStar Coating	950 (37.40)	700 (27.56)	500 (19.69)	DN 315 (12.40)
DryStar Combination	2050 (80.71)	700 (27.56)	500 (19.69)	DN 400 (15.75)

Tab. 6 Dimensions of the exhaust-air hoods

**2.3.4 Dimensions and weight of the DryStar slide-in dryers**

Slide-in dryer	Dimensions [mm] ( <i>[in]</i> )			Weight [kg] ( <i>[lbs]</i> )
	Width	Depth	Height	
IR ink dryer	1195 (47.05)	404 (15.91)	175 (6.89)	20 (44.1)
IR coating dryer	1195 (47.05)	404 (15.91)	175 (6.89)	24 (52.9)
Cold-air dryer	1195 (47.05)	404 (15.91)	175 (6.89)	24 (52.9)

Tab. 7 Dimensions and weight of the DryStar slide-in dryers

**2.4 Building openings**

**2.4.1 General guidance values**

The building openings required for bringing the printing press into the building should usually be of the following dimensions:

- Width = 3000 mm (118 in);
- Height = 2800 mm (110 in).

This also applies to moving the printing press out of the printshop building.

2.4.2 Minimum installation opening in building

Installation unit	Dimensions [mm] ( <i>[in]</i> )	
	Width	Height
With crate	2350 (92.52)	2400 (94.49)
With pallet	2350 (92.52)	2200 (86.61)
Without pallet	SM 74-1 and SM 74-2	2150 (84.65)
	All the other press versions	1700 (66.93)
With partial dismantling	1600 (63.00)	1900 (74.80)

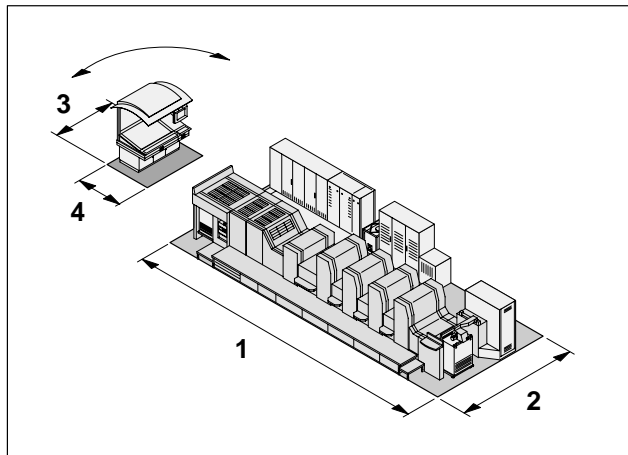
Tab. 8 Minimum building opening

The dimensions of the transportation gear must also be taken into account.

### 3 Floor space and working space required

#### 3.1 Floor space required

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Fig. 4 Space requirement

Floor space required by the printing press

- ① Length: see table 9
- ② Width: see Table 9

Floor space required by the control device

- ③ Length: see table 10
- ④ Width: see Table 10

**Calculation Floor space required by the printing press:**

Contour of the printing press with the supply devices in longitudinal and transversal direction.

The dimensions in table 9 are related to a printing press without preloading device.

**Calculation Floor space required by the control device:**

Contour of the CP2000 Center or CPC 1-04 control console in longitudinal and transversal direction.

The CP2000 Center or the CPC 1-04 control console can be installed inside a radius of 5 m (16.4 ft) (optional 12.5 m (41 ft)) around the delivery.

Press model	Length [m] ([ft])	Width [m] ([ft])	Surface [m <sup>2</sup> ] ([sq ft])
SM 74-1	2.53 (8.30)	3.93 (12.89)	9.9 (107.0)
SM 74-2 (-P)	3.55 (11.65)	4.12 (13.52)	14.6 (157.4)
SM 74-2 (-P) -H	5.94 (19.49)	4.12 (13.52)	24.5 (263.4)
SM 74-2 (-P) + L	6.95 (22.80)	4.12 (13.52)	28.6 (308.2)
SM 74-2 (-P) + LX	8.33 (27.33)	4.12 (13.52)	34.3 (369.4)
SM 74-4 (-P)	5.91 (19.39)	4.12 (13.52)	24.3 (262.1)
SM 74-4 (-P) -H	7.97 (26.15)	4.12 (13.52)	32.8 (353.4)
SM 74-4 (-P) + L	8.98 (29.46)	4.12 (13.52)	37.0 (398.2)
SM 74-4 (-P) + LX	10.35 (33.96)	4.12 (13.52)	42.6 (459.0)
SM 74-5 (-P)	9.23 (30.28)	4.12 (13.52)	38.0 (409.3)
SM 74-5 (-P) + L	10.24 (33.60)	4.12 (13.52)	42.2 (454.1)
SM 74-5 (-P) + LX	11.62 (38.12)	4.12 (13.52)	47.9 (515.3)
SM 74-6 (-P)	10.24 (33.60)	4.12 (13.52)	42.2 (454.1)
SM 74-6 (-P) + L	11.26 (36.94)	4.12 (13.52)	46.4 (499.4)

Press model	Length [m] ([ft])	Width [m] ([ft])	Surface [m <sup>2</sup> ] ([sq ft])
SM 74-6 (-P) + LX	12.63 (41.44)	4.12 (13.52)	52.0 (560.1)
SM 74-7 (-P)	11.26 (36.94)	4.12 (13.52)	46.4 (499.4)
SM 74-7 (-P) + L	12.27 (40.26)	4.12 (13.52)	50.6 (544.1)
SM 74-7 (-P) + LX	13.64 (44.75)	4.12 (13.52)	56.2 (604.9)
SM 74-8 (-P)	12.27 (40.26)	4.12 (13.52)	50.6 (544.1)
SM 74-8 (-P) + L	13.28 (43.57)	4.12 (13.52)	54.7 (588.9)
SM 74-8 (-P) + LX	14.66 (48.10)	4.12 (13.52)	60.4 (650.1)
SM 74-10 (-P)	14.30 (46.92)	4.12 (13.52)	58.9 (634.2)

Tab. 9 Floor space required by the printing press (including supply units)

Version	Length [m] ([ft])	Width [m] ([ft])	Surface [m <sup>2</sup> ] ([sq ft])
CP2000 Center	1.80 (5.91)	1.49 (4.89)	2.7 (28.9)
CPC 1-04 control console	1.65 (5.41)	0.99 (3.25)	1.6 (17.6)
CPC 1-04 control console + CPTronic central control console	2.17 (7.12)	0.99 (3.25)	2.1 (23.1)

Tab. 10 Floor space required by the control device

3.2 Minimum working space required

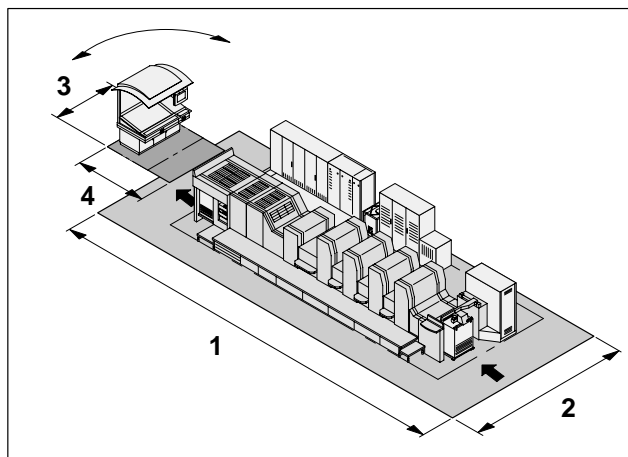


Fig. 5 Minimum working space required

Minimum working space required by the printing press

- ① Length: see Table 11
- ② Width: see Table 11

Minimum working space required by the control device

- ③ Length: see table 12
- ④ Width: see Table 12

**Calculation Minimum working space required by the printing press:**

Floor space required by the printing press plus additional space for loading and removing piles and for good accessibility to all machine components and supply units.

The dimensions in table 11 are related to loading and removing piles from the face side.

**Calculation Minimum working space required by the control device:**

Floor space required by the control device plus one additional surface in the operator area.

<b>Press model</b>	<b>Length [m] ([ft])</b>	<b>Width [m] ([ft])</b>	<b>Surface [m<sup>2</sup>] ([sq ft])</b>
SM 74-1	5.73 (18.80)	5.17 (16.96)	29.6 (318.9)
SM 74-2 (-P)	6.75 (22.15)	5.36 (17.59)	36.2 (389.4)
SM 74-2 (-P) -H	8.80 (28.87)	5.36 (17.59)	47.2 (507.7)
SM 74-2 (-P) + L	9.81 (32.19)	5.36 (17.59)	52.6 (566.0)
SM 74-2 (-P) + LX	11.19 (36.71)	5.36 (17.59)	60.0 (645.6)
SM 74-4 (-P)	8.77 (28.77)	5.36 (17.59)	47.0 (506.0)
SM 74-4 (-P) -H	10.83 (35.53)	5.36 (17.59)	58.0 (624.8)
SM 74-4 (-P) + L	11.84 (38.85)	5.36 (17.59)	63.5 (683.1)
SM 74-4 (-P) + LX	13.21 (43.34)	5.36 (17.59)	70.8 (762.1)
SM 74-5 (-P)	11.84 (38.85)	5.36 (17.59)	63.5 (683.1)
SM 74-5 (-P) + L	12.85 (42.16)	5.36 (17.59)	68.9 (741.4)
SM 74-5 (-P) + LX	14.23 (46.69)	5.36 (17.59)	76.3 (821.0)
SM 74-6 (-P)	12.85 (42.16)	5.36 (17.59)	68.9 (741.4)
SM 74-6 (-P) + L	13.87 (45.51)	5.36 (17.59)	74.3 (800.2)
SM 74-6 (-P) + LX	15.24 (50.00)	5.36 (17.59)	81.7 (879.3)
SM 74-7 (-P)	13.87 (45.51)	5.36 (17.59)	74.3 (800.2)
SM 74-7 (-P) + L	14.88 (48.82)	5.36 (17.59)	79.8 (858.5)
SM 74-7 (-P) + LX	16.25 (53.31)	5.36 (17.59)	87.1 (937.5)
SM 74-8 (-P)	14.88 (48.82)	5.36 (17.59)	79.8 (858.5)
SM 74-8 (-P) + L	15.89 (52.13)	5.36 (17.59)	85.2 (916.8)
SM 74-8 (-P) + LX	17.27 (56.66)	5.36 (17.59)	92.6 (996.4)
SM 74-10 (-P)	16.91 (55.48)	5.36 (17.59)	90.6 (975.6)

Tab. 11 Minimum working space required by the printing press (with supply devices)

<b>Version</b>	<b>Length [m] ([ft])</b>	<b>Width [m] ([ft])</b>	<b>Surface [m<sup>2</sup>] ([sq ft])</b>
CP2000 Center	1.80 (5.91)	2.13 (6.99)	3.8 (41.3)
CPC 1-04 control console	1.65 (5.41)	1.99 (6.53)	3.3 (35.3)
CPC 1-04 control console + CPTronic central control console	2.17 (7.12)	1.99 (6.53)	4.3 (46.5)

Tab. 12 Minimum working space required by the control device

4 Press weights and floor loads

4.1 Press weights and floor loads

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Press model	Press weight [kg] ([lbs])		Maximum weight of an installation group [kg] ([lbs])	Average static floor load [N/m <sup>2</sup> ] ([lbf/sq ft])
	without pile	incl. two piles		
SM 74-1	4750 (10470)	5320 (11730)	4500 (9920)	7470 (156.05)
SM 74-2	8150 (17970)	8720 (19220)	8050 (17750)	8170 (170.67)
SM 74-2-H	11050 (24360)	11810 (26040)	7760 (17110)	6610 (138.08)
SM 74-2 + L	14150 (31200)	14910 (32870)	7760 (17110)	7130 (148.95)
SM 74-2 + LX	14950 (32960)	15710 (34630)	7760 (17110)	6270 (130.98)
SM 74-4	15250 (33620)	15820 (34880)	7760 (17110)	8900 (185.92)
SM 74-4-H	17550 (38690)	18310 (40370)	7760 (17110)	7640 (159.60)
SM 74-4 + L	20700 (45640)	21460 (47310)	7760 (17110)	7950 (166.08)
SM 74-4 + LX	21500 (47400)	22260 (49070)	7760 (17110)	7150 (149.36)
SM 74-5	21250 (46850)	22010 (48520)	7760 (17110)	7930 (165.66)
SM 74-5 + L	24350 (53680)	25110 (55360)	7760 (17110)	8150 (170.25)
SM 74-5 + LX	25150 (55450)	25910 (57120)	7760 (17110)	7420 (155.00)
SM 74-6	24300 (53570)	25060 (55250)	7760 (17110)	8140 (170.04)
SM 74-6 + L	27400 (60410)	28160 (62080)	7760 (17110)	8320 (173.80)
SM 74-6 + LX	28200 (62170)	28960 (63850)	7760 (17110)	7630 (159.39)
SM 74-7	27800 (61290)	28560 (62960)	7760 (17110)	8440 (176.31)
SM 74-7 + L	30900 (68120)	31660 (69800)	7760 (17110)	8580 (179.24)
SM 74-7 + LX	31700 (69890)	32460 (71560)	7760 (17110)	7910 (165.24)
SM 74-8	30800 (67900)	31560 (69580)	7760 (17110)	8550 (178.61)
SM 74-8 + L	33950 (74850)	34710 (76520)	7760 (17110)	8690 (181.53)
SM 74-8 + LX	34750 (76610)	35510 (78290)	7760 (17110)	8060 (168.37)
SM 74-10	37350 (82340)	38110 (84020)	7760 (17110)	8860 (185.09)

Tab. 13 Press weights and floor loads

- The press weight specifies the overall weight of the printing press without peripheral equipment.
- Additional weight per perfecter: 230 kg (507 lbs).
- Calculating the pile weight at a paper density of 1 kg/dm<sup>3</sup> (0.036 lbs/cu in).
- Definition of an installation group:
  - Up to SM 74-2: Machines without rollers and without foot step on O.S.;

- From SM 74-2-H onward:  
Feeder with printing units 1 + 2 without rollers.
- Calculation of the average static floor load:  
Relation between the machine weight including two piles and the area required by the printing press without peripheral equipment.
- Maximum static compressive load per unit area:  
120 N/cm<sup>2</sup> (174 lbf/sq in).  
This is the highest load that occurs at one of the bearing areas.  
The maximum permissible floor load in the pressroom must be checked.
- Dynamic load ratio: < 3%.

#### General guidance values

- Carrying capacity of floor and ceiling in the pressroom: approx. 3000 kg/m<sup>2</sup> (615 lbs/sq ft).
- Compressive load per unit area at the fork lift wheel when piles on pallets are transported: up to 450 N/cm<sup>2</sup> (653 lbf/sq in).

## 5 Electrical power requirements of the printing press

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### 5.1 General information

#### Connection of the printing press

In general, the printing press is connected to the three-phase mains via the central control cabinet ZSG.

The operating voltage of the printing press is AC 400 V.

Direct connection is possible at a mains frequency of 50 Hz and mains voltages of 380, 400 or 415 V (AC). Otherwise an adaptation to the mains is required. The adaptation is made via series and matching transformers.

Additional information about the topic *mains connection of the printing press* can be found in the *Technical Information SM 74 / SM 74 DI*.

#### Mains connection of the DryStar dryer

With printing presses of the SM 74 series, the power supply of the DryStar dryer is routed via a separate three-phase mains connection. The electrical power ratings are listed in the following Chapter *Electrical power requirements of the DryStar dryers*.

Additional information about the topic *Mains connection of the IR dryer* can be found in the *Technical Information SM 74 / SM 74 DI*.

### 5.2 Electrical power requirements of the printing press

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
<b>Printing presses with one printing unit</b>						
SM 74-1	20.5	200, 220, 230, 240	100	20.5 + 3.8/3.9 (1)	200, 220, 230, 240	100
		350, 480	63		350, 480	63
		400, 415, 440, 480	50		400, 415, 440, 480	50
		600	32		600	32
<b>Printing presses with 2 printing units</b>						

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-2	29.0	200, 220	160	29.0 + 3.8/3.9 <sup>(1)</sup>	200, 220	160
		230, 240	125		230, 240	125
		350, 380, 400, 415	80		350, 380, 400, 415	80
		440, 480	63		440, 480	63
		600	50		600	50
SM 74-2-P	29.0	200, 220	160	29.0 + 3.8/3.9 <sup>(1)</sup>	200, 220	160
		230, 240	125		230, 240	125
		350, 380, 400, 415	80		350, 380, 400, 415	80
		440, 480	63		440, 480	63
		600	50		600	50
SM 74-2-H	36.0	200, 220, 230, 240	160	39.0	200	200
		350	100		220, 230, 240	160
		380, 400, 415, 440	80		350, 380, 400	100
		480	63		415, 440, 480	80
		600	50		600	63
SM 74-2-P-H	36.5	200, 220, 230, 240	160	39.5	200	200
		350, 380	100		220, 230, 240	160
		400, 415, 440, 480	80		350, 380, 400	100
		600	63		415, 440, 480	80
					600	63

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-2 + L	38.5	200	200	41.5	200	200
		220, 230, 240	160		220, 230, 240	160
		350, 380, 400	100		350, 380, 400, 415	100
		415, 440, 480	80		440, 480	80
		600	63		600	63
SM 74-2-P + L	39.0	200	200	42.0	200, 220	200
		220, 230, 240	160		230, 240	160
		350, 380, 400	100		350	125
		415, 440, 480	80		380, 400, 415, 440	100
		600	63		480	80
					600	63
SM 74-2 + LX	39.5	200	200	42.5	200, 220	200
		220, 230, 240	160		230, 240	160
		350, 380, 400	100		350	125
		415, 440, 480	80		380, 400, 415, 440	100
		600	63		480	80
					600	63
SM 74-2-P + LX	41.5	200	200	44.5	200, 220, 230	200
		220, 230, 240	160		240	160
		350, 380, 400, 415	100		350	125
		440, 480	80		380, 400, 415, 440	100
		600	63		480	80
					600	63
<b>Printing presses with 4 printing units</b>						

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-4	48.5	200	250	55.5	200, 220, 230	250
		220, 230, 240	200		240	200
		350, 380, 400	125		350	160
		415, 440, 480	100		380, 400, 415, 440	125
		600	80		480	100
					600	80
SM 74-4-P	48.0	200	250	55.0	200, 220, 230	250
		220, 230, 240	200		240	200
		350, 380, 400	125		350	160
		415, 440, 480	100		380, 400, 415, 440	125
		600	80		480	100
					600	80
SM 74-4-H	53.0	200, 220	250	60.0	200	315
		230, 240	200		220, 230, 240	250
		350	160		350, 380, 400	160
		380, 400, 415, 440	125		415, 440, 480	125
		480	100		600	100
		600	80			
SM 74-4-P-H	53.5	200, 220	250	60.5	200	315
		230, 240	200		220, 230, 240	250
		350	160		350, 380, 400	160
		380, 400, 415, 440	125		415, 440, 480	125
		480	100		600	100
		600	80			

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-4 + L	55.5	200, 220, 230	250	62.5	200	315
		240	200		220, 230, 240	250
		350	160		350, 380, 400, 415	160
		380, 400, 415, 440	125		440, 480	125
		480	100		600	100
		600	80			
SM 74-4-P + L	56.0	200, 220, 230	250	63.0	200	315
		240	200		220, 230, 240	250
		350	160		350, 380, 400, 415	160
		380, 400, 415, 440	125		440, 480	125
		480	100		600	100
		600	80			
SM 74-4 + LX	56.0	200, 220, 230	250	63.5	200	315
		240	200		220, 230, 240	250
		350, 380	160		350, 380, 400, 415	160
		400, 415, 440	125		440, 480	125
		480	100		600	100
		600	80			
SM 74-4-P + LX	58.5	200, 220, 230, 240	250	65.5	200, 220	315
		350, 380	160		230, 240	250
		400, 415, 440, 480	125		350, 380, 400, 415	160
		600	100		440	160
					480	125
					600	100

**Printing presses with 5 printing units**

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-5	55.0	200, 220	315	62.0	200	400
		230, 240	250		220, 230, 240	315
		350	200		350, 380	200
		380, 400, 415, 440	160		400, 415, 440, 480	160
		480	125		600	125
		600	100			
SM 74-5-P	55.0	200, 220	315	62.0	200	400
		230, 240	250		220, 230, 240	315
		350	200		350, 380	200
		380, 400, 415, 440	160		400, 415, 440, 480	160
		480	125		600	125
		600	100			
SM 74-5-P-P	55.5	200, 220	315	62.5	200	400
		230, 240	250		220, 230, 240	315
		350	200		350, 380, 400	200
		380, 400, 415, 440	160		415, 440, 480	160
		480	125		600	125
		600	100			
SM 74-5 + L	57.5	200, 220, 230	315	64.5	200	400
		240	250		220, 230, 240	315
		350	200		350, 380, 400	200
		380, 400, 415, 440	160		415, 440, 480	160
		480	125		600	125
		600	100			

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-5-P + L	57.5	200, 220, 230	315	64.5	200	400
		240	250		220, 230, 240	315
		350	200		350, 380, 400	200
		380, 400, 415, 440	160		415, 440, 480	160
		480	125		600	125
		600	100			
SM 74-5-P-P + L	58.0	200, 220, 230	315	65.0	200	400
		240	250		220, 230, 240	315
		350	200		350, 380, 400, 415	200
		380, 400, 415, 440	160		440, 480	160
		480	125		600	125
		600	100			
SM 74-5 + LX	59.0	200, 220, 230, 240	315	66.0	200	400
		350	200		220, 230, 240	315
		380, 400, 415, 440	160		350, 380, 400, 415	200
		480	160		440, 480	160
		600	125		600	125
SM 74-5-P + LX	60.5	200, 220, 230, 240	315	67.5	200, 220	400
		350, 380	200		230, 240	315
		400, 415, 440, 480	160		350, 380, 400, 415	200
		600	125		440, 480	160
					600	125

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-5-P-P + LX	61.0	200, 220, 230, 240	315	68.0	200, 220	400
		350, 380	200		230, 240	315
		400, 415, 440, 480	160		350, 380, 400, 415	200
		600	125		440, 480	160
					600	125
<b>Printing presses with 6 printing units</b>						
SM 74-6	61.5	200	400	72.0	200, 220, 230	400
		220, 230, 240	315		240	315
		350, 380	200		350	250
		400, 415, 440, 480	160		380, 400, 415, 440	200
		600	125		480	160
					600	125
SM 74-6-P	62.0	200	400	72.5	200, 220, 230	400
		220, 230, 240	315		240	315
		350, 380	200		350	250
		400, 415, 440, 480	160		380, 400, 415, 440	200
		600	125		480	160
					600	125
SM 74-6-P-P	62.0	200	400	72.5	200, 220, 230	400
		220, 230, 240	315		240	315
		350, 380	200		350	250
		400, 415, 440, 480	160		380, 400, 415, 440	200
		600	125		480	160
					600	125

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-6 + L	64.0	200	400	74.5	200, 220, 230, 240	400
		220, 230, 240	315		350, 380	250
		350, 380, 400	200		400, 415, 440	200
		415, 440, 480	160		480, 600	160
		600	125			
SM 74-6-P + L	64.5	200	400	75.0	200, 220, 230, 240	400
		220, 230, 240	315		350, 380	250
		350, 380, 400	200		400, 415, 440, 480	200
		415, 440, 480	160		600	160
		600	125			
SM 74-6-P-P + L	64.5	200	400	75.0	200, 220, 230, 240	400
		220, 230, 240	315		350, 380	250
		350, 380, 400	200		400, 415, 440, 480	200
		415, 440, 480	160		600	160
		600	125			
SM 74-6 + LX	65.5	200	400	76.0	200, 220, 230, 240	400
		220, 230, 240	315		350, 380	250
		350, 380, 400, 415	200		400, 415, 440, 480	200
		440, 480	160		600	160
		600	125			

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-6-P + LX	67.5	200, 220	400	78.0	200	500
		230, 240	315		220, 230, 240	400
		350, 380, 400, 415	200		350, 380, 400	250
		440, 480	160		415, 440, 480	200
		600	125		600	160
SM 74-6-P-P + LX	67.5	200, 220	400	78.0	200	500
		230, 240	315		220, 230, 240	400
		350, 380, 400, 415	200		350, 380, 400	250
		440, 480	160		415, 440, 480	200
		600	125		600	160
<b>Printing presses with 7 printing units</b>						
SM 74-7	69.5 <sup>(2)</sup>	200, 220	400	80.5	200	500
		230, 240	315		220, 230, 240	400
		350	250		350, 380, 400	250
		380, 400, 415, 440	200		415, 440, 480	200
		480	160		600	160
		600	125			
SM 74-7-P	69.5 <sup>(2)</sup>	200, 220	400	80.5	200	500
		230, 240	315		220, 230, 240	400
		350	250		350, 380, 400	250
		380, 400, 415, 440	200		415, 440, 480	200
		480	160		600	160
		600	125			

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-7-P-P	69.5 (²)	200, 220	400	80.5	200	500
		230, 240	315		220, 230, 240	400
		350	250		350, 380, 400	250
		380, 400, 415, 440	200		415, 440, 480	200
		480	160		600	160
		600	125			
SM 74-7 + L	72.0 (²)	200, 220, 230	400	83.0	200	500
		240	315		220, 230, 240	400
		350	250		350, 380, 400, 415	250
		380, 400, 415, 440	200		440, 480	200
		480	160		600	160
		600	125			
SM 74-7-P + L	71.5 (²)	200, 220, 230	400	82.5	200	500
		240	315		220, 230, 240	400
		350	250		350, 380, 400, 415	250
		380, 400, 415, 440	200		440, 480	200
		480	160		600	160
		600	125			
SM 74-7-P-P + L	72.0 (²)	200, 220, 230	400	83.0	200	500
		240	315		220, 230, 240	400
		350	250		350, 380, 400, 415	250
		380, 400, 415, 440	200		440, 480	200
		480	160		600	160
		600	125			

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-7 + LX	72.0 <sup>(2)</sup>	200, 220, 230	400	83.0	200	500
		240	315		220, 230, 240	400
		350	250		350, 380, 400, 415	250
		380, 400, 415, 440	200		440, 480	200
		480	160		600	160
		600	125			
SM 74-7-P + LX	74.5 <sup>(2)</sup>	200, 220, 230, 240	400	85.5	200	500
		350, 380	250		220, 230, 240	400
		400, 415, 440	200		350	315
		480, 600	160		380, 400, 415	250
					440, 480	200
					600	160
SM 74-7-P-P + LX	75.0 <sup>(2)</sup>	200, 220, 230, 240	400	86.0	200, 220	500
		350, 380	250		230, 240	400
		400, 415, 440, 480	200		350	315
		600	160		380, 400, 415, 440	250
					480	200
					600	160
<b>Printing presses with 8 printing units</b>						
SM 74-8	75.5 <sup>(2)</sup>	200, 220, 230, 240	400	86.0	200, 220	500
		350, 380	250		230, 240	400
		400, 415, 440, 480	200		350	315
		600	160		380, 400, 415, 440	250
					480	200
					600	160

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-8-P	75.5 (2)	200, 220, 230, 240	400	86.5	200, 220	500
		350, 380	250		230, 240	400
		400, 415, 440, 480	200		350	315
		600	160		380, 400, 415, 440	250
					480	200
					600	160
SM 74-8-P-P	75.0 (2)	200, 220, 230, 240	400	86.0	200, 220	500
		350, 380	250		230, 240	400
		400, 415, 440, 480	200		350	315
		600	160		380, 400, 415, 440	250
					480	200
					600	160
SM 74-8 + L	78.0 (2)	200	500	88.5	200, 220	500
		220, 230, 240	400		230, 240	400
		350, 380, 400	250		350	315
		415, 440, 480	200		380, 400, 415, 440	250
		600	160		480	200
					600	160
SM 74-8-P + L	78.0 (2)	200	500	89.0	200, 220	500
		220, 230, 240	400		230, 240	400
		350, 380, 400	250		350	315
		415, 440, 480	200		380, 400, 415, 440	250
		600	160		480	200
					600	160

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-8-P-P + L	77.5 <sup>(2)</sup>	200, 220, 230, 240	400	88.5	200, 220	500
		350, 380	250		230, 240	400
		400, 415, 440, 480	200		350	315
		600	160		380, 400, 415, 440	250
					480	200
					600	160
SM 74-8 + LX	78.0 <sup>(2)</sup>	200	500	89.0	200, 220	500
		220, 230, 240	400		230, 240	400
		350, 380, 400	250		350	315
		415, 440, 480	200		380, 400, 415, 440	250
		600	160		480	200
					600	160
SM 74-8-P + LX	81.0 <sup>(2)</sup>	200	500	92.0	200, 220, 230	500
		220, 230, 240	400		240	400
		350, 380, 400, 415	250		350	315
		440, 480	200		380, 400, 415, 440	250
		600	160		480	200
					600	160
SM 74-8-P-P + LX	80.5 <sup>(2)</sup>	200	500	91.5	200, 220, 230	500
		220, 230, 240	400		240	400
		350, 380, 400	250		350	315
		415, 440, 480	200		380, 400, 415, 440	250
		600	160		480	200
					600	160
<b>Printing presses with 10 printing units</b>						

Press model	without inking unit temperature control			with inking unit temperature control		
	Power required [kW]	System voltages [V]	Electrical fusing [A]	Power required [kW]	System voltages [V]	Electrical fusing [A]
SM 74-10	87.5 <sup>(2)</sup>	200, 220	500	98.5	200	630
		230, 240	400		220, 230, 240	500
		350	315		350, 380, 400	315
		380, 400, 415, 440	250		415, 440, 480	250
		480	200		600	200
		600	160			
SM 74-10-P	88.0 <sup>(2)</sup>	200, 220	500	99.0	200	630
		230, 240	400		220, 230, 240	500
		350	315		350, 380, 400	315
		380, 400, 415, 440	250		415, 440, 480	250
		480	200		600	200
		600	160			
SM 74-10-P-P	88.0 <sup>(2)</sup>	200, 220	500	99.0	200	630
		230, 240	400		220, 230, 240	500
		350	315		350, 380, 400	315
		380, 400, 415, 440	250		415, 440, 480	250
		480	200		600	200
		600	160			

Tab. 14 Electrical power requirements of the printing press

<sup>(1)</sup>: Power demand of the inking unit temperature control alpha.t 30 with separate three-phase AC mains connection.

<sup>(2)</sup>: All printing presses of the SM 74 model line with seven or more printing units are equipped with inking unit temperature control (CombiStar) in their standard configuration.

**Power factor**

<b>Press model</b>	<b>Power factor cos <math>\varphi</math></b>
SM 74-1	0.75
SM 74-2 (-P)	
SM 74-2 (-P) -H	0.85
SM 74-2 (-P) + L	
SM 74-2 (-P) + LX	
SM 74-4 (-P)	
SM 74-4 (-P) -H	
SM 74-4 (-P) + L	
SM 74-4 (-P) + LX	
SM 74-5 (-P)	
SM 74-5 (-P) + L	
SM 74-5 (-P) + LX	
SM 74-6 (-P)	
SM 74-6 (-P) + L	
SM 74-6 (-P) + LX	
SM 74-7 (-P)	
SM 74-7 (-P) + L	
SM 74-7 (-P) + LX	
SM 74-8 (-P)	
SM 74-8 (-P) + L	
SM 74-8 (-P) + LX	
SM 74-10 (-P)	

Tab. 15 Power factor

**6 Electrical power requirements of the DryStar dryers**

UTKMS96000802000000

**6.1 Electrical power requirements of the DryStar dryers**

Dryer version	Power required [kW]	Power factor cos φ	Connection voltages of the three-phase mains [V]	Electrical fusing [A]
DryStar Ink	15.3	0.9	200, 220, 230, 240	63
			350, 380	40
			400, 415, 440, 480	32
			600	25
DryStar Coating	27.0	0.9	200	125
			220, 230, 240	100
			350, 380, 400, 415	63
			440, 480, 600	50
DryStar Combination	56.7	0.9	200, 220	250
			230, 240	200
			350	160
			380, 400, 415, 440	125
			480, 600	100

Tab. 16 Electrical power requirements of the DryStar dryers

7 Technical specifications of the peripheral equipment

UTKMS9060009002000000

7.1 General information

- The dimensions and weights of the peripheral equipment and exhaust-air hoods are listed in the Chapter *Dimensions*.
- The power required by the peripheral units is contained in the total power requirement of the press (see Chapter *Electrical power requirements of the printing press*).  
Exceptions:
  - Separate AC mains connections are required for the Prinect peripheral units "ImageControl" and "Plate Image Reader".
  - The alpha.t 30 inking unit temperature control unit requires a separate three-phase AC mains connection (only for SM 74-1 and SM 74-2).
  - The DryStar dryer requires a separate three-phase AC mains connection (see Chapter *Electrical power requirements of the DryStar dryer*).
- Fresh water connection of all dampening solution supply units (bush): Ø 12 mm (0.47 in).

7.2 Prinect peripheral equipment

Version	Power required [kW]		Connection voltages of the AC mains [V]	Electrical fusing [A]
	50 Hz	60 Hz		
CP2000 Center	1.5	2.0	Power supply via the central control cabinet	
CPC 1-04 control console	0.57	1.0	Power supply via the central control cabinet	
CPTronic central control console	-	-	Power supply via the central control cabinet	
ImageControl	1.5	1.5	115/230	16
QualityProof	-	-	Power supply via the central control cabinet	
Plate image reader	1.2	1.2	115/230	16
AutoRegister	-	-	Power supply via the CP2000 Center or CPC 1-04 control console	

Tab. 17 Electrical ratings

**7.3 AirStar (suction and blast air supply)**

**7.3.1 Air-cooled version**

Version	Power required [kW]	Waste heat power [kW]	Outlet air volume <sup>(1)</sup> [m <sup>3</sup> /h] ([cuft/h])	Noise emission [dB(A)]
AirStar-LGK M3	19	8.0	2200 (77690)	76
AirStar-LGK M8	15	6.0	2200 (77690)	76

Tab. 18 Power rating, outlet air volume and noise emission

<sup>(1)</sup>: The outlet air volume consists of the cooling and process air volumes in the normal state (p<sub>0</sub> = 1013 mbar (14.7 psi), T<sub>0</sub> = 20 °C (68 °F)).

**7.3.2 Water-cooled version**

Version	Power required [kW]	Waste heat power [kW]	Number of cooling modules	Maximum cooling water pressure [bar] ([psi])	Noise emission [dB(A)]
AirStar-WGK M3	19	8.0	1	6 (87)	76
AirStar-WGK M8	15	6.0	1	6 (87)	76

Tab. 19 Power rating, cooling modules, cooling water pressure, and noise emission

Version	Cooling water required [m <sup>3</sup> /h] ([cuft/h]) at a flow temperature of			
	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
AirStar-WGK M3	0.8 (28.3)	1.2 (42.4)	1.6 (56.5)	2.3 (81.2)
AirStar-WGK M8	0.7 (24.7)	0.9 (31.8)	1.2 (42.4)	1.7 (60.0)

Tab. 20 Cooling water required

Version	Total loss of pressure in cooling water circuit [bar] ([psi]) at a volumetric flow of			
	1.0 m <sup>3</sup> /h (35 cu ft/h)	2.0 m <sup>3</sup> /h (71 cu ft/h)	3.0 m <sup>3</sup> /h (106 cu ft/h)	4.0 m <sup>3</sup> /h (141 cu ft/h)
AirStar-WGK M3	0.10 (1.5)	0.45 (6.5)	1.10 (16.0)	1.85 (26.8)
AirStar-WGK M8	0.10 (1.5)	0.45 (6.5)	1.10 (16.0)	1.85 (26.8)

Tab. 21 Total loss of pressure in cooling water circuit

Cooling water connection: 1-in inside thread (per cooling module).

**7.4 Pneumatic compressors (compressed-air supply)**

Version	Power required [kW]	Cooling air outlet volume [m <sup>3</sup> /h] ([cuft/h])
Dürr WB-062/0833-13 AH	1.5	-
Boge SBD-R 125-1,9/15	0.75	-
Boge SBD-R 250-2,9/15	1.5	-
ScrollStar	3.7	720(25500)

Tab. 22 Power required and cooling air outlet volume

Version	Maximum operating pressure [bar] ([psi])	Volumetric flow [m <sup>3</sup> /h] ([cuft/h])	Noise emission [dB(A)]
Dürr WB-062/0833-13 AH	8.5 (123)	-	-
Boge SBD-R 125-1,9/15	10 (145)	7.5 (265)	-
Boge SBD-R 250-2,9/15	10 (145)	15.0 (530)	-
ScrollStar	10 (145)	15.0 (530)	56

Tab. 23 Maximum pressure, volumetric flow and noise emission

**7.5 HydroStar compact (dampening solution supply)**

Version	Power required [kW]		Waste heat power [kW]		Cooling capacity [kW]	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
BasicLiner 1.0 L	0.53	0.8	1.7	1.95	1.0	1.2
BasicLiner 2.0 L	1.9	2.4	3.2	3.4	2.0	2.2

Tab. 24 Power

Version	Cooling air outlet volume [m <sup>3</sup> /h] ([cuft/h])		Noise emission [dB(A)]
	50 Hz	60 Hz	
BasicLiner 1.0 L	620 (21900)	680 (24010)	70
BasicLiner 2.0 L	900 (31780)	980 (34610)	70

Tab. 25 Cooling air outlet volume and noise emission

**7.6 HydroStar (dampening solution supply)**

**7.6.1 Air-cooled version**

Version	Power required [kW]		Waste heat power [kW]		Cooling capacity [kW]
	50 Hz	60 Hz	50 Hz	60 Hz	
beta.d 40 L	3.0	3.5	5.7	6.8	4
beta.d 60 L	4.0	4.3	8.7	8.8	6

Tab. 26 Power

Version	Cooling air outlet volume [m <sup>3</sup> /h] ([ <i>cuft/h</i> ])		Noise emission [dB(A)]
	50 Hz	60 Hz	
beta.d 40 L	2500 (88290)	2700 (95350)	73
beta.d 60 L	3600 (127130)	4100 (144790)	73

Tab. 27 Cooling air outlet volume and noise emission

**7.6.2 Water-cooled version**

Version	Power required [kW]		Waste heat power [kW]	
	50 Hz	60 Hz	50 Hz	60 Hz
beta.d 40 G	2.7	3.0	5.7	6.8
beta.d 60 G	3.5	3.5	8.7	8.8

Tab. 28 Power

Version	Cooling capacity [kW]	Maximum cooling water pressure [bar] ([ <i>psi</i> ])	Noise emission [dB(A)]
beta.d 40 G	4	10 (145)	73
beta.d 60 G	6	10 (145)	73

Tab. 29 Cooling rating, cooling water pressure, and noise emission

Version		Cooling water required [m <sup>3</sup> /h] ([ <i>cuft/h</i> ]) at a flow temperature of			
		10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
beta.d 40 G	50 Hz	0.23 (8.1)	0.38 (13.4)	1.14 (40.3)	1.14 (40.3)
	60 Hz	0.27 (9.5)	0.45 (15.9)	1.36 (48.0)	1.36 (48.0)
beta.d 60 G	50 Hz	0.35 (12.4)	0.58 (20.5)	1.74 (61.4)	1.74 (61.4)
	60 Hz	0.35 (12.4)	0.59 (20.8)	1.76 (62.2)	1.76 (62.2)

Tab. 30 Cooling water required

Cooling water connection: <sup>3</sup>/<sub>4</sub>" inside thread.

**7.7 CoolStar compact (inking unit temperature control)**

Version	Power required [kW]		Waste heat power [kW]		Heating capacity [kW]	Cooling capacity [kW]
	50 Hz	60 Hz	50 Hz	60 Hz		
alpha.t 30	3.8	3.9	4.2	4.5	3	3

Tab. 31 Power

Version	Cooling air outlet volume [m <sup>3</sup> /h] ([ <i>cu ft/h</i> ])	Noise emission [dB(A)]
alpha.t 30	2250 (79460)	70

Tab. 32 Cooling air outlet volume and noise emission

**7.8 CombiStar (dampening solution supply + inking unit temperature control)**

**7.8.1 Air-cooled version**

Version	Power required [kW]		Waste heat power [kW]		Heating capacity [kW]	Cooling capacity [kW]
	50 Hz	60 Hz	50 Hz	60 Hz		
beta.c 120 L	11.6	12.5	18	20	3	12
beta.c 160 L	16.7	18.0	24	25	6	16
beta.c 200 L	18.3	19.0	32	30	9	20
beta.c 240 L	18.9	20.2	36	39	9	24

Tab. 33 Power

Version	Cooling air outlet volume [m <sup>3</sup> /h] ([cu ft/h])		Noise emission [dB(A)]
	50 Hz	60 Hz	
beta.c 120 L	6000 (211890)	6500 (229550)	73
beta.c 160 L	6000 (211890)	6500 (229550)	73
beta.c 200 L	9000 (317830)	9500 (335490)	73
beta.c 240 L	9000 (317830)	9500 (335490)	73

Tab. 34 Cooling air outlet volume and noise emission

**7.8.2 Water-cooled version**

Version	Power required [kW]		Waste heat power [kW]	
	50 Hz	60 Hz	50 Hz	60 Hz
beta.c 120 G	10.7	11.1	18	20
beta.c 160 G	15.8	16.6	24	25
beta.c 200 G	19.6	16.8	32	30
beta.c 240 G	17.6	18.1	36	39

Tab. 35 Power

Version	Heating capacity [kW]	Cooling capacity [kW]	Maximum cooling water pressure [bar] ([psi])	Noise emission [dB(A)]
beta.c 120 G	3	12	10 (145)	73
beta.c 160 G	6	16	10 (145)	73
beta.c 200 G	9	20	10 (145)	73
beta.c 240 G	9	24	10 (145)	73

Tab. 36 Power ratings, cooling water pressure, and noise emission

Version		Cooling water required [m <sup>3</sup> /h] ([cuft/h]) at a flow temperature of			
		10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
beta.c 120 G	50 Hz	0.72 (25.4)	1.20 (42.4)	3.6 (127.1)	3.6 (127.1)
	60 Hz	0.80 (28.3)	1.33 (47.0)	4.0 (141.3)	4.0 (141.3)
beta.c 160 G	50 Hz	0.96 (33.9)	1.60 (56.5)	4.8 (169.5)	4.8 (169.5)
	60 Hz	1.00 (35.3)	1.67 (59.0)	5.0 (176.6)	5.0 (176.6)
beta.c 200 G	50 Hz	1.28 (45.2)	2.13 (75.2)	6.4 (226.0)	6.4 (226.0)
	60 Hz	1.20 (42.4)	2.00 (70.6)	6.0 (211.9)	6.0 (211.9)
beta.c 240 G	50 Hz	1.44 (50.9)	2.40 (84.8)	7.2 (254.3)	7.2 (254.3)
	60 Hz	1.56 (55.1)	2.60 (91.8)	7.8 (275.5)	7.8 (275.5)

Tab. 37 Cooling water required

Cooling water connection:

- beta.c 120, 160: 1-in inside thread;
- beta.c 200, 240: 1 1/4" inside thread.

### 7.9 Varnish supply unit

Version	Power required [kW]		Maximum delivered quantity <sup>(1)</sup> [dm <sup>3</sup> /h] ([cu in/h])	Noise emission [dB(A)]
	50 Hz	60 Hz		
LVG-160E	0.23	0.24	160 (9760)	64
LVG-360E	0.34	0.46	320 (19530)	68
LVG-360E UV	0.34	0.46	320 (19530)	68

Tab. 38 Power required, max. delivered quantity, and noise emission

<sup>(1)</sup>: related to water at 20 °C (68 °F).

### 7.10 Powder spray unit

Technical characteristics		Grafix			WEKO		
		Junior Plus	Alphatronic 200	Exatronic	T6N Plus	T66c plus	PowderStar AP 230
ON/OFF operation via CP2000 or CPTronic		×	×	×	×	×	×
Automatic sheet length adjustment		×	×	×	×	×	×
Metering of powder quantity	manually on the device	×	×		×	×	×
	electronically via CP2000 or CPTronic			×			
Automatic speed compensation of the powder volume <sup>(1)</sup>			×	×			×

Technical characteristics		Grafix			WEKO		
Powder level monitoring	visually on the device (inspection glass)		×			×	×
	electronically via CP2000 or CPTronic	×	×	×	×	×	×
Powder refill in non-stop operation		×	×	×		×	×
Monitoring the compressed-air supply	visually on the device		×	×		×	×
	electronically via CP2000 or CPTronic	×	×	×	×	×	×
Outside powder spray nozzles can be switched on and off (manually on the device)		×	×	×	×	×	×

Tab. 39 Powdering device

(<sup>1</sup>): Adjustment of the delivered powder volume to the production speed of the printing press.

**7.11 DryStar (IR drying)**

**7.11.1 Air-cooled version**

Version	Power required ( <sup>1</sup> ) [kW]	Waste heat power [kW]	Cooling air outlet volume [m <sup>3</sup> /h] (cu ft/h)	Process outlet air volume [m <sup>3</sup> /h] (cu ft/h)	Noise emission [dB(A)]
DryStar Ink	15.3	10	1200 (42380)	450 (15890)	76
DryStar Coating	27.0	12	1200 (42380)	450 (15890)	76
DryStar Combination	56.7	30	2400 (84760)	1590 (56150)	76

Tab. 40 Power rating, outlet air volumes and noise emission

(<sup>1</sup>): Additional information about the power requirements can be found in Chapter *Electrical power requirements of the DryStar dryers*.

7.11.2 Water-cooled version

Version	Power required <sup>(1)</sup> [kW]	Waste heat power [kW]	Process outlet air volume [m <sup>3</sup> /h] (cu ft/h)	Maximum cooling water pressure [bar] ([psi])	Noise emission [dB(A)]
DryStar Ink	15.3	10	450 (15890)	6 (87)	76
DryStar Coating	27.0	10	450 (15890)	6 (87)	76
DryStar Combination	56.7	24	1590 (56150)	6 (87)	76

Tab. 41 Power rating, process outlet air volume, cooling water pressure, and noise emission

(<sup>1</sup>): Additional information about the power requirements can be found in Chapter *Electrical power requirements of the DryStar dryers*.

Version	Cooling water required [m <sup>3</sup> /h] ([cu ft/h]) for a flow temperature of			
	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
DryStar Ink	0.20 (7.1)	0.25 (8.8)	0.45 (15.9)	0.80 (28.3)
DryStar Coating	0.30 (10.6)	0.40 (14.1)	0.65 (23.0)	1.25 (44.1)
DryStar Combination	0.60 (21.2)	0.80 (28.3)	1.25 (44.1)	2.45 (86.5)

Tab. 42 Cooling water required

Cooling water connection: 1-in inside thread.

7.12 InkLine (automatic ink supply)

- Compressed air requirement: 7 bar (102 psi).
- Maximum travel of the metering unit: 630 mm (24.80 in).
- Only use the standardized 2-kg valve cartridges for the automatic InkLine ink supply. Cross-slotted cartridges are not suitable.

7.13 Transfer media for Heidelberg networks

When configuring HDM networks, eight-core "twisted pair" cables in S/UTP version, category 5 or higher must be used.

These cables must be equipped with RJ45 connectors.

The total length of the network cables including patch cables must not exceed 100 m (328 ft).

**8 Printing press configuration**

**8.1 Configuration of the printing press**

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Press model	Number of printing units	Coating unit	Delivery		
			Standard delivery	High-pile delivery	Extended delivery
SM 74-1	1		×		
SM 74-2 (-P)	2		×		
SM 74-2 (-P) -H	2			×	
SM 74-2 (-P) + L	2	×		×	
SM 74-2 (-P) + LX	2	×			×
SM 74-4 (-P)	4		×		
SM 74-4 (-P) -H	4			×	
SM 74-4 (-P) + L	4	×		×	
SM 74-4 (-P) + LX	4	×			×
SM 74-5 (-P)	5			×	
SM 74-5 (-P) + L	5	×		×	
SM 74-5 (-P) + LX	5	×			×
SM 74-6 (-P)	6			×	
SM 74-6 (-P) + L	6	×		×	
SM 74-6 (-P) + LX	6	×			×
SM 74-7 (-P)	7			×	
SM 74-7 (-P) + L	7	×		×	
SM 74-7 (-P) + LX	7	×			×
SM 74-8 (-P)	8			×	
SM 74-8 (-P) + L	8	×		×	
SM 74-8 (-P) + LX	8	×			×
SM 74-10 (-P)	10			×	

Tab. 43 Printing press configuration

8.2 Positioning possibilities of the perfector

Press model	Without perfector	One perfector					Two perfectors
		P2	P3	P4	P5	P6	
SM 74-1	×						
SM 74-2 (-P)	×	×					
SM 74-2 (-P) -H	×	×					
SM 74-2 (-P) + L	×	×					
SM 74-2 (-P) + LX	×	×					
SM 74-4 (-P)	×		×				
SM 74-4 (-P) -H	×		×				
SM 74-4 (-P) + L	×		×				
SM 74-4 (-P) + LX	×		×				
SM 74-5 (-P)	×	×	×				P2.3
SM 74-5 (-P) + L	×	×	×				P2.3
SM 74-5 (-P) + LX	×	×	×				P2.3
SM 74-6 (-P)	×	×	×	×			P2.3 / P2.4 / P3.4
SM 74-6 (-P) + L	×	×	×				P2.3
SM 74-6 (-P) + LX	×	×	×				P2.3
SM 74-7 (-P)	×	×	×				P2.3
SM 74-7 (-P) + L	×	×	×				P2.3
SM 74-7 (-P) + LX	×	×	×				P2.3
SM 74-8 (-P)	×		×		×		P3.5
SM 74-8 (-P) + L	×	×	×		×		P3.5
SM 74-8 (-P) + LX	×	×	×		×		P3.5
SM 74-10 (-P)	×		×		×	×	P3.6 / P5.6

Tab. 44 Positioning possibilities of the perfector

**Legend**

Examples:

P2 ... Sheet reversal before the 2nd printing unit

P3 ... Sheet reversal before the 3rd printing unit

P2.3 ... Sheet reversal before the 2nd and before the 3rd printing unit

P2.3 ... Sheet reversal before the 3rd and before the 5th printing unit

9 Allocation of the peripheral equipment to the printing press

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9.1 General information

The following allocations are related to the Heidelberg base standard. Depending on country and/or Sales & Service Unit (SSU), the country standards may differ from the Heidelberg base standard.

In case of doubts, please ask your Heidelberg branch office or factory agency for a confirmation of the configuration of your printing press.

9.2 Prinect peripheral equipment

Prinect peripheral equipment	SM 74-1	SM 74-2 (-P)		SM 74-2 (-P) -H		All the other press versions	
		SM 74	SM 74 SE	SM 74	SM 74 SE	SM 74	SM 74 SE
CP2000 Center				× <sup>(3)</sup>		×	
CPC 1-04 control console		× <sup>(1)</sup>			× <sup>(5)</sup>		×
CPTronic compact control console (on the delivery)	×	×	×				
CPTronic central control console					×		×
ImageControl		× <sup>(2)</sup>		× <sup>(4)</sup>	× <sup>(6)</sup>	×	×
QualityProof		× <sup>(2)</sup>		× <sup>(4)</sup>	× <sup>(6)</sup>	×	×
Plate image reader		× <sup>(2)</sup>		× <sup>(4)</sup>	× <sup>(6)</sup>	×	×
AutoRegister				× <sup>(4)</sup>	× <sup>(6)</sup>	×	×
<b>Software products</b>							
DataControl	×	×	×	×	×	×	×
PrepressInterface		× <sup>(2)</sup>		× <sup>(4)</sup>	× <sup>(6)</sup>	×	×

Tab. 45 Prinect peripheral equipment

<sup>(1)</sup>: Standard: without CPC 1-04 control console;  
Option: with CPC 1-04 control console.

<sup>(2)</sup>: Not with printing presses without CPC 1-04 control console.

<sup>(3)</sup>: Standard: CP2000 Center without remote ink control;  
Option: CP2000 Center (with remote ink control).

<sup>(4)</sup>: Not with printing presses with CP2000 Center without remote ink control.

<sup>(5)</sup>: Standard: Drawer console;  
Option: CPC 1-04 control console.

<sup>(6)</sup>: Not with printing presses with drawer console.

**9.3 AirStar (suction and blast air supply)**

All printing presses of the SM 74 model line with 7 - 10 printing units are equipped with an AirStar in their standard configuration.

All the other press versions with high-pile delivery or extended delivery may optionally be equipped with an AirStar.

Press model	AirStar	
	Air-cooled version	Water-cooled version
Printing presses with normal pile delivery	-	-
Printing presses with high pile delivery	AirStar-LGK M8	AirStar-WGK M8
Printing press with extended delivery and without perfector	AirStar-LGK M8	AirStar-WGK M8
Printing press with extended delivery and with perfector	AirStar-LGK M3	AirStar-WGK M3

Tab. 46 AirStar

**9.4 Pneumatic compressors (compressed-air supply)**

Number of printing units	Pneumatic compressor
1	Dürr 0833-13 AH
2	Boge SBD-R 125-1,9/15
4, 5	Standard: Boge SBD-R 250-2,9/15
	Option: ScrollStar
6 - 10	ScrollStar

Tab. 47 Pneumatic compressors

**9.5 HydroStar compact and CoolStar compact**

Number of printing units	HydroStar compact (dampening solution supply)	CoolStar compact (inking unit temperature control)
1	BasicLiner 1.0 L	alpha.t 30
2	BasicLiner 2.0 L	

Tab. 48 HydroStar compact and CoolStar compact

All BasicLiner units can additionally be equipped with the additive metering unit Automix AMX 225.

**9.6 HydroStar (dampening solution supply)**

Number of printing units	HydroStar
4, 5	beta.d 40
6	beta.d 60
<b>Accessories</b>	
4 - 6	alcosmart R

Tab. 49 HydroStar

All HydroStar units are available in an air-cooled or a water-cooled version.

**9.7 CombiStar (dampening solution supply + inking unit temperature control)**

Number of printing units	CombiStar
4, 5	beta.c 120
6	beta.c 160
7, 8	beta.c 200
10	beta.c 240
<b>Accessories</b>	
4 - 10	alcosmart R

Tab. 50 CombiStar

All CombiStar units are available in an air-cooled or a water-cooled version.

**9.8 Varnish supply unit**

All printing presses of the SM 74 series that contain a coating unit are equipped with one of the following varnish supply units:

- LVG-160E
- LVG-360E
- LVG-360E UV.

**9.9 Powder spray unit**

Depending on the press version, the printing presses of the SM 74 model line may be equipped with one of the following powder spray units:

Press model	Powder spray unit	
	<i>Grafix</i>	<i>WEKO</i>
SM 74-1	Junior Plus	T6N Plus
SM 74-2 (-P)	Junior plus / Alpatronic 200	T6N Plus / T66c Plus
SM 74-4 (-P)	Alpatronic 200	T66c plus
All the other press versions	Alpatronic 200 / Exatronic	PowderStar AP 230

Tab. 51 Powder spray unit

**9.10 DryStar (IR drying)**

All printing presses of the SM 74 model line with high-pile delivery or extended delivery may optionally be equipped with a DryStar.

Press model	DryStar
With normal pile delivery	-
With high pile delivery, without coating unit	DryStar Ink
With coating unit	DryStar Coating
With coating unit and extended delivery	DryStar Combination

Tab. 52 DryStar

All DryStar units are available in an air-cooled or a water-cooled version.

**9.10.1 Allocation of the slide-in dryers**

Version	Slide-in dryers
DryStar Ink	IR ink dryer
DryStar Coating	IR coating dryer
DryStar Combination	IR coating dryer I IR coating dryer II Cold-air dryer

Tab. 53 Allocation of the slide-in dryers

**9.11 InkLine (automatic ink supply)**

All printing presses of the SM 74 series with four or more printing units can be equipped with the automatic ink supply unit InkLine.

**10 Shipping information**

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**10.1 General information**

- All case dimensions and weights can deviate slightly from the table values.
- Some shipping units consist of a press component and an additional package. Therefore the net weight does not necessarily correspond to the weight of the particular press component.
- For overseas shipments only case packaging is used.

**10.2 Shipping information of the printing press**

Shipping unit	Dimensions of the crate [mm] ( <i>[in]</i> )			Weights [kg] ( <i>[lbs]</i> )		
	Length	Width	Height	Net	With pallet	With crate
<b>SM 74 single-colour</b>						
Entire press	3200 (125.98)	2290 (90.16)	2250 (88.58)	5010 (11050)	5360 (11820)	5660 (12480)
<b>SM 74 two-colour</b>						
SM 74-2, entire press	3720 (146.46)	2240 (88.19)	2260 (88.98)	8750 (19290)	9200 (20280)	9500 (20500)
Feeder with printing units 1 + 2	3720 (146.46)	2240 (88.19)	2260 (88.98)	8360 (18430)	8810 (19420)	9110 (20080)
Coating unit	1900 (74.80)	1730 (68.11)	2000 (78.74)	3320 (7320)	3440 (7580)	3610 (7960)
High-pile delivery	3200 (125.98)	2290 (90.16)	2250 (88.58)	2900 (6390)	3250 (7170)	3550 (7830)
Extended delivery	4100 (161.42)	2290 (90.16)	2240 (88.19)	4300 (9480)	4770 (10520)	5150 (11350)
<b>SM 74 four-colour</b>						
Feeder with printing units 1 + 2	3720 (146.46)	2240 (88.19)	2260 (88.98)	8360 (18430)	8810 (19420)	9110 (20080)
Printing unit 3 + 4 with normal pile delivery	3720 (146.46)	2240 (88.19)	2260 (88.98)	7120 (15700)	7570 (16690)	7870 (17350)
Printing unit 3 + 4 without normal pile delivery	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Coating unit	1900 (74.80)	1730 (68.11)	2000 (78.74)	3320 (7320)	3440 (7580)	3610 (7960)
High-pile delivery	3200 (125.98)	2290 (90.16)	2250 (88.58)	2900 (6390)	3250 (7170)	3550 (7830)
Extended delivery	4100 (161.42)	2290 (90.16)	2240 (88.19)	4300 (9480)	4770 (10520)	5150 (11350)
<b>SM 74 five-colour</b>						

Shipping unit	Dimensions of the crate [mm] ( <i>[in]</i> )			Weights [kg] ( <i>[lbs]</i> )		
	Length	Width	Height	Net	With pallet	With crate
Feeder with printing units 1 + 2	3720 (146.46)	2240 (88.19)	2260 (88.98)	8360 (18430)	8810 (19420)	9110 (20080)
Printing units 3 + 4	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing unit 5	2120 (83.46)	1980 (77.95)	2260 (88.98)	3700 (8160)	3890 (8580)	4010 (8840)
Coating unit	1900 (74.80)	1730 (68.11)	2000 (78.74)	3320 (7320)	3440 (7580)	3610 (7960)
High-pile delivery	3200 (125.98)	2290 (90.16)	2250 (88.58)	2900 (6390)	3250 (7170)	3550 (7830)
Extended delivery	4100 (161.42)	2290 (90.16)	2240 (88.19)	4300 (9480)	4770 (10520)	5150 (11350)
<b>SM 74 six-colour</b>						
Feeder with printing units 1 + 2	3720 (146.46)	2240 (88.19)	2260 (88.98)	8360 (18430)	8810 (19420)	9110 (20080)
Printing units 3 + 4	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing units 5 + 6	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Coating unit	1900 (74.80)	1730 (68.11)	2000 (78.74)	3320 (7320)	3440 (7580)	3610 (7960)
High-pile delivery	3200 (125.98)	2290 (90.16)	2250 (88.58)	2900 (6390)	3250 (7170)	3550 (7830)
Extended delivery	4100 (161.42)	2290 (90.16)	2240 (88.19)	4300 (9480)	4770 (10520)	5150 (11350)
<b>SM 74 seven-colour</b>						
Feeder with printing units 1 + 2	3720 (146.46)	2240 (88.19)	2260 (88.98)	8360 (18430)	8810 (19420)	9110 (20080)
Printing units 3 + 4	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing units 5 + 6	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing unit 7	2120 (83.46)	1980 (77.95)	2260 (88.98)	3700 (8160)	3890 (8580)	4010 (8840)
Coating unit	1900 (74.80)	1730 (68.11)	2000 (78.74)	3320 (7320)	3440 (7580)	3610 (7960)
High-pile delivery	3200 (125.98)	2290 (90.16)	2250 (88.58)	2900 (6390)	3250 (7170)	3550 (7830)
Extended delivery	4100 (161.42)	2290 (90.16)	2240 (88.19)	4300 (9480)	4770 (10520)	5150 (11350)
<b>SM 74 eight-colour</b>						
Feeder with printing units 1 + 2	3720 (146.46)	2240 (88.19)	2260 (88.98)	8360 (18430)	8810 (19420)	9110 (20080)

Shipping unit	Dimensions of the crate [mm] ([in])			Weights [kg] ([lbs])		
	Length	Width	Height	Net	With pallet	With crate
Printing units 3 + 4	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing units 5 + 6	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing units 7 + 8	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Coating unit	1900 (74.80)	1730 (68.11)	2000 (78.74)	3320 (7320)	3440 (7580)	3610 (7960)
High-pile delivery	3200 (125.98)	2290 (90.16)	2250 (88.58)	2900 (6390)	3250 (7170)	3550 (7830)
Extended delivery	4100 (161.42)	2290 (90.16)	2240 (88.19)	4300 (9480)	4770 (10520)	5150 (11350)
<b>SM 74 ten-colour</b>						
Feeder with printing units 1 + 2	3720 (146.46)	2240 (88.19)	2260 (88.98)	8360 (18430)	8810 (19420)	9110 (20080)
Printing units 3 + 4	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing units 5 + 6	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing units 7 + 8	2400 (94.49)	2120 (83.46)	2260 (88.98)	6730 (14840)	7050 (15540)	7300 (16090)
Printing units 9 + 10	2400 (94.49)	2120 (83.46)	2260 (88.98)	6530 (14400)	6850 (15100)	7100 (15650)
High-pile delivery	3200 (125.98)	2290 (90.16)	2250 (88.58)	2900 (6390)	3250 (7170)	3550 (7830)

Tab. 54 Shipping information of the printing press

**10.3 Shipping information of the peripheral equipment**

Shipping unit	Dimensions of the crate [mm] ([in])			Weights [kg] ([lbs])		
	Length	Width	Height	Net	With pallet	With crate
<b>Control boxes</b>						
Central control cabinet ZSG for SM 74-2-H to SM 74-4 + LX	1490 (58.66)	1450 (57.09)	2220 (87.40)	560 (1230)	630 (1390)	800 (1760)
Central control cabinet ZSG from SM 74-5 onward	1750 (68.90)	1450 (57.09)	2210 (87.01)	740 (1630)	820 (1810)	1010 (2230)
<b>Prinect peripheral equipment</b>						
CP2000 Center	2000 (78.74)	1650 (64.96)	1790 (70.47)	530 (1170)	620 (1370)	820 (1810)
CPC 1-04 control console + central control console	2350 (92.52)	1650 (64.96)	1470 (57.87)	820 (1810)	940 (2070)	1100 (2430)

Shipping unit	Dimensions of the crate [mm] ( <i>[in]</i> )			Weights [kg] ( <i>[lbs]</i> )		
	Length	Width	Height	Net	With pallet	With crate
ImageControl	2350 (92.52)	1380 (54.33)	1790 (70.47)	400 (880)	490 (1080)	690 (1520)
QualityControl	2000 (78.74)	1650 (64.96)	1460 (57.48)	410 (900)	500 (1100)	650 (1430)
Plate image reader	2000 (78.74)	1130 (44.49)	1920 (75.59)	240 (530)	300 (660)	450 (990)
<b>AirStar</b> (suction and blast air supply)						
<b>Air-cooled</b>						
AirStar-LGK M3, M8	1860 (73.23)	1000 (39.37)	2220 (87.40)	650 (1430)	720 (1590)	860 (1900)
<b>Water-cooled</b>						
AirStar-WGK M3, M8	2040 (80.31)	1000 (39.37)	2190 (86.22)	650 (1430)	710 (1565)	890 (1960)
<b>HydroStar compact</b> (dampening solution supply)						
BasicLiner 1.0 L, 2.0 L + rollers	1500 (59.06)	1200 (47.24)	1560 (61.42)	210 (460)	260 (570)	400 (880)
<b>HydroStar</b> (dampening solution supply)						
<b>Air-cooled / water-cooled</b>						
beta.d 40, 60	1400 (55.12)	1000 (39.37)	2190 (86.22)	315 (690)	350 (770)	530 (1170)
<b>CombiStar</b> (dampening solution supply + inking unit temperature control)						
<b>Air-cooled / water-cooled</b>						
beta.c 120 to 160	2040 (80.31)	1000 (39.37)	2190 (86.22)	850 (1870)	910 (2010)	1090 (2400)
beta.c 200, 240	3110 (122.44)	1000 (39.37)	2240 (88.19)	1050 (2320)	1170 (2580)	1400 (3090)
<b>DryStar</b> (IR drying)						
<b>Air-cooled / water-cooled</b>						
DryStar Ink, DryStar Coating	1750 (68.90)	1450 (57.09)	2210 (87.01)	420 (925)	500 (1100)	690 (1520)
DryStar Combination	2800 (110.24)	1750 (68.90)	2210 (87.01)	800 (1760)	950 (2090)	1240 (2730)
<b>InkLine</b> (automatic ink supply)						
up to 4 printing units	1750 (68.90)	1450 (57.09)	2210 (87.01)	120 (265)	200 (440)	390 (860)
5 and 6 printing units	2000 (78.74)	1650 (64.96)	1470 (57.87)	180 (395)	270 (595)	420 (925)
7 to 10 printing units	2000 (78.74)	1650 (64.96)	2210 (87.01)	270 (595)	360 (795)	570 (1260)

Shipping unit	Dimensions of the crate [mm] ([in])			Weights [kg] ([lbs])		
	Length	Width	Height	Net	With pallet	With crate
<b>Plate punch / plate bender</b>						
Plate punch	1860 (73.23)	1000 (39.37)	1660 (65.35)	140 (310)	190 (420)	330 (730)
Plate bending device	1860 (73.23)	1000 (39.37)	1660 (65.35)	140 (310)	190 (420)	330 (730)

Tab. 55 Shipping information of the peripheral equipment

**10.4 Shipping information - miscellaneous**

Shipping unit	Dimensions of the crate [mm] ([in])			Weights [kg] ([lbs])		
	Length	Width	Height	Net	With pallet	With crate
Drawer console (with SM 74-2-H SE only)	2000 (78.74)	1650 (64.96)	1470 (57.87)	530 (1670)	620 (1370)	770 (1700)
Installation unit	2700 (106.30)	1240 (48.82)	1600 (63.00)	1200 (2650)	1320 (2910)	1450 (3200)
Standard spare parts set	1500 (59.06)	1200 (47.24)	1560 (61.42)	-	-	-

Tab. 56 Shipping information - miscellaneous



## Floor plans

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**1 Overview of floor plans**

**1.1 Overview of floor plans**

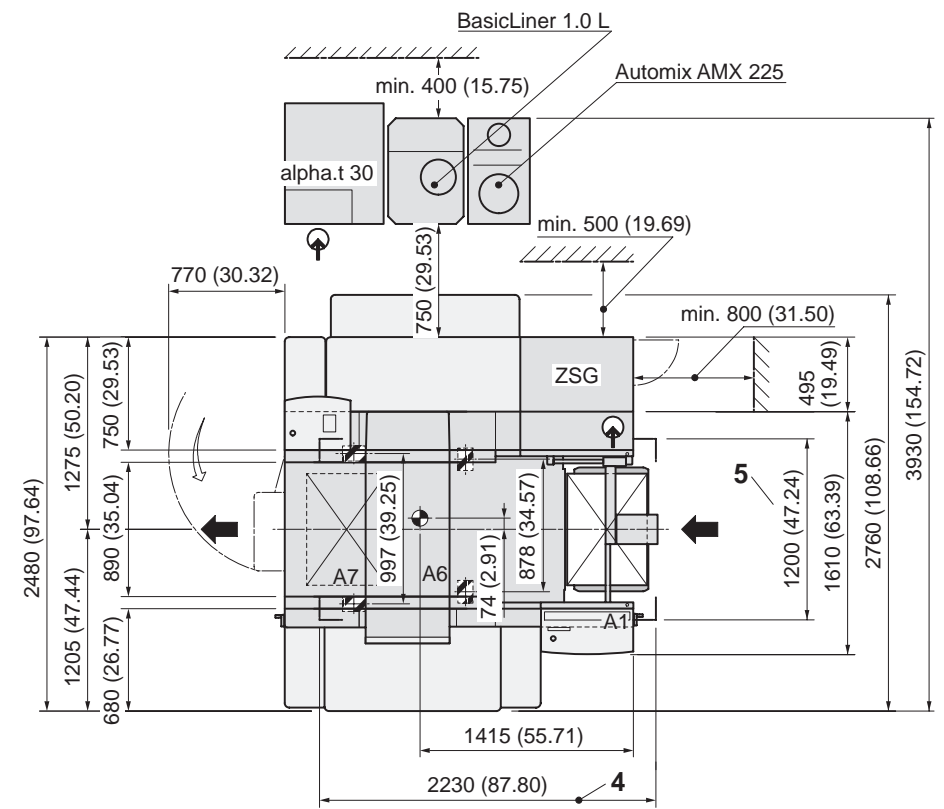
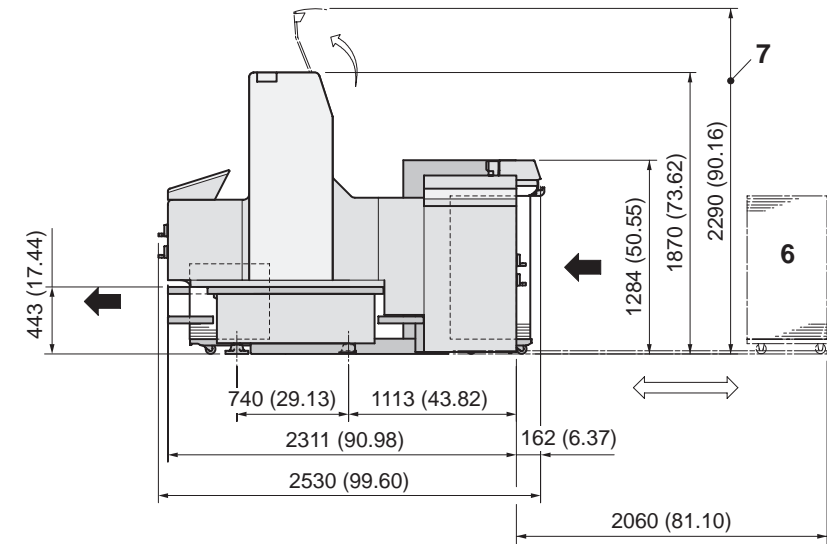
UTKMS9060201002000000

Floor plan no.	Item
	<b>SM 74 presses with standard delivery</b>
I	SM 74-1
II	SM 74-2 (-P)
III	SM 74-4 (-P)
	<b>SM 74 presses with high-pile delivery</b>
IV	SM 74-4 (-P) -H
V	SM 74-4 (-P) with coating unit
VI	SM 74-4 (-P) with coating unit and extended delivery

Tab. 1 Overview

### 1.2 General notes

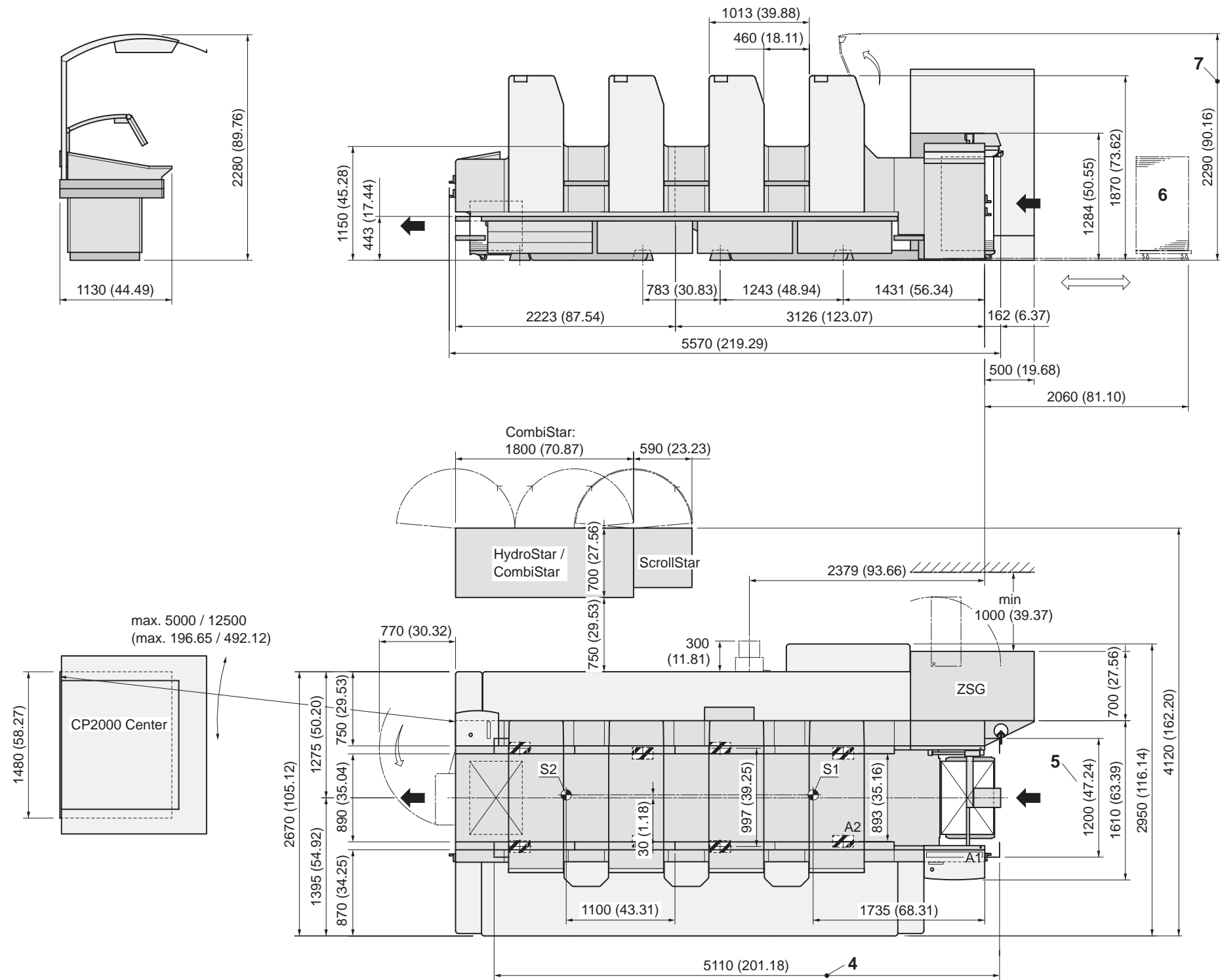
- All dimensions are in mm (*in*).
- Scale: see floor plan.  
If you generate your own printouts, a true-to-scale representation cannot be guaranteed.
- The floor plans I to III show the SM 74 presses with normal pile delivery.
- Representative for all SM 74 machines with high pile delivery, the floor plans IV to VI show machines with four printing units. Dimensions that change with increasing/decreasing number of printing units are replaced with numbers (① to ④). The individual dimensions can be found in the table in the Chapter *Variable Dimensions in the Floor Plans*.
- The supply units shown in the floor plans correspond to the maximum configuration.
- All supply devices can be opened at the machine side and at the wall side. The floor plans show the supply devices with doors that are open at the wall side.
- The floor plans are supplemented by the drawings in the Chapter *Floor plans of peripheral units*. Up to three exemplary equipment variants for all press versions are shown there.
- The *Technical Information SM 74 / SM 74 DI* contains information about the installation of the printing press and its peripheral equipment.



1000 mm  
(39.37 in)

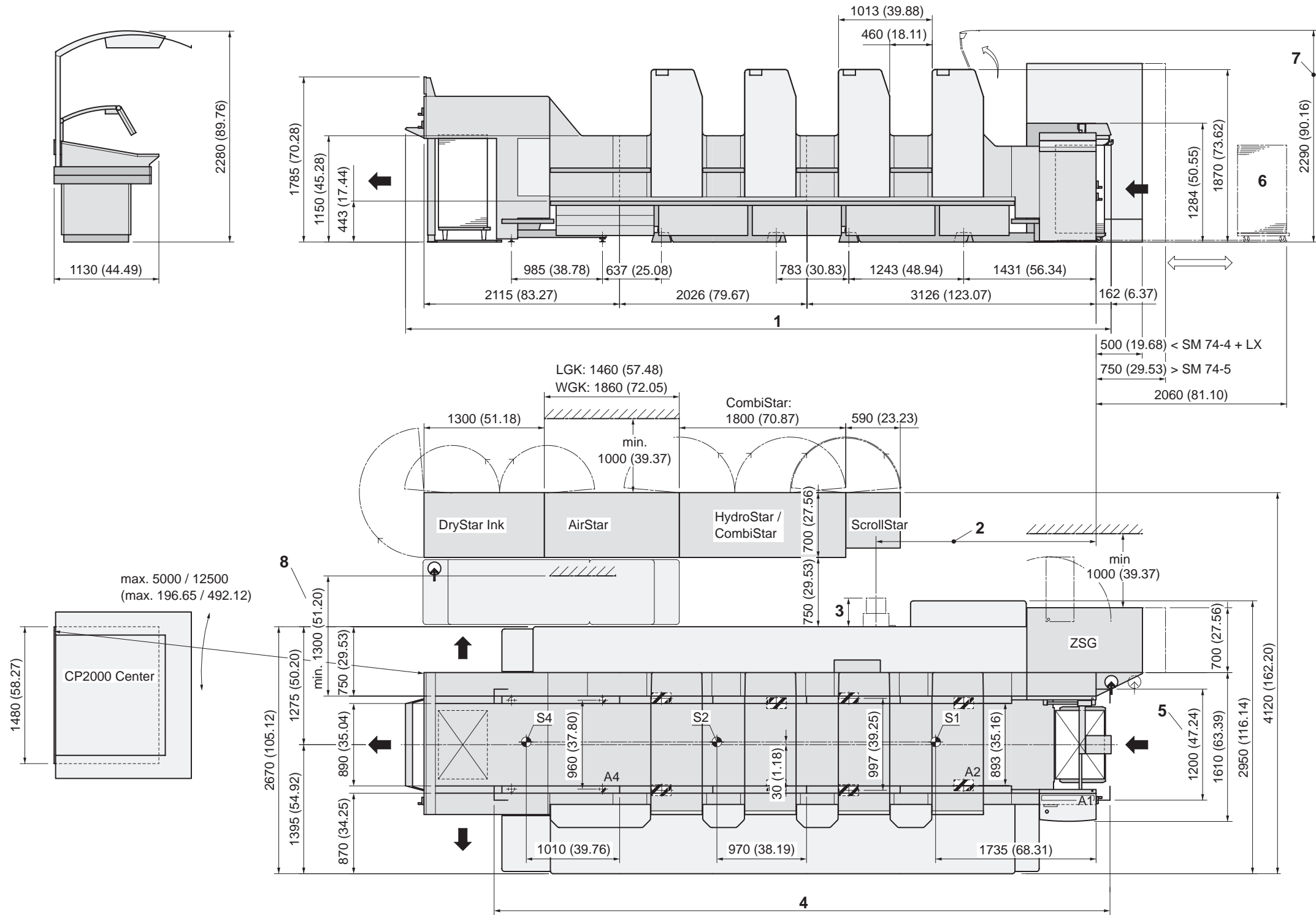
10 1:50





1000 mm  
(39.37 in)

10 1:50

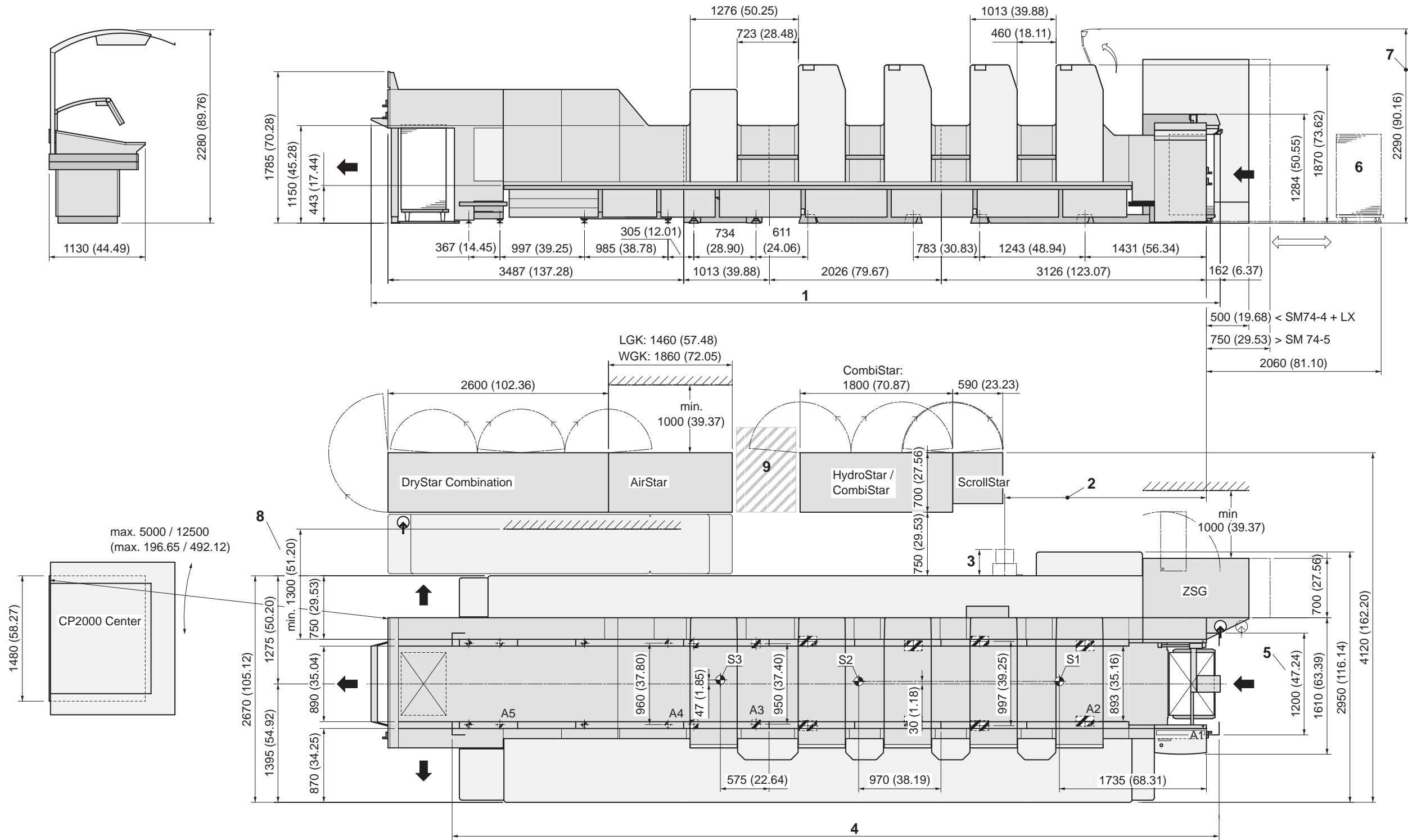


1000 mm  
(39.37 in)

10 1:50



2.6 VI: SM 74-4 (-P) + LX



1000 mm  
(39.37 in)

10 1:50

3 Floor plan legend

UTKMS9060203001000000

3.1 Floor plan legend

**Numbering**

- ① Total length: see table 3
- ② Distance main motor – feeder front edge: see table 3
- ③ Projecting length of main motor: see table 3
- ④ Minimum foundation length: see Table 3
- ⑤ Minimum foundation width
- ⑥ Preloading device
- ⑦ Total height with opened protection grid
- ⑧ Minimum distance required for removing the slide-in dryers
- Coating container
- ⑩ Scale

**Symbols**

- ← Pile loading and removal
- ⊙ Supply line for electrical energy
- ⊕ Centres of gravity:
  - S1: Feeder, printing units 1 + 2
  - S2: From printing units 3 + 4
  - S3: Coating unit
  - S4: High-pile delivery
- ▨ Contact surfaces:

Name	Number	Length [mm] ( <i>[in]</i> )	Width [mm] ( <i>[in]</i> )
A1	2×	Ø 17 (0.67)	
A2	4× per dual-PU	210 (8.27)	117 (4.61)
A3	4×	100 (3.94)	100 (3.94)
A4	4×	Ø 66 (2.60)	
A5	4×	Ø 66 (2.60)	
A6	2×	100 (3.94)	150 (5.91)
A7	2×	150 (5.91)	100 (3.94)

Tab. 2 Bearing areas

## 3.2 Variable dimensions in the floor plans

Press model	Variable dimensions [mm] ( <i>[in]</i> )			
	1	2	3	4
SM 74-1	Dimensions see floor plan			
SM 74-2 (-P)	Dimensions see floor plan			
SM 74-2 (-P) -H	5600 (220.47)	–	–	4630 (182.28)
SM 74-2 (-P) + L	6610 (260.23)	–	–	5640 (222.05)
SM 74-2 (-P) + LX	7990 (314.57)	–	–	7080 (278.74)
SM 74-4 (-P)	Dimensions see floor plan			
SM 74-4 (-P) -H	7630 (300.39)	2379 (93.66)	300 (11.81)	6660 (262.20)
SM 74-4 (-P) + L	8640 (340.16)	2379 (93.66)	300 (11.81)	7670 (301.97)
SM 74-4 (-P) + LX	10010 (394.09)	2379 (93.66)	300 (11.81)	9100 (358.27)
SM 74-5 (-P)	8640 (340.16)	3392 (133.54)	520 (20.47)	7670 (301.97)
SM 74-5 (-P) + L	9650 (379.92)	3392 (133.54)	520 (20.47)	8680 (341.73)
SM 74-5 (-P) + LX	11030 (434.25)	3392 (133.54)	520 (20.47)	10120 (398.43)
SM 74-6 (-P)	9650 (379.92)	4405 (173.42)	520 (20.47)	8680 (341.73)
SM 74-6 (-P) + L	10670 (420.08)	4405 (173.42)	520 (20.47)	9690 (381.50)
SM 74-6 (-P) + LX	12040 (474.02)	4405 (173.42)	520 (20.47)	11130 (438.19)
SM 74-7 (-P)	10670 (420.08)	4405 (173.42)	520 (20.47)	9690 (381.50)
SM 74-7 (-P) + L	11680 (459.84)	4405 (173.42)	520 (20.47)	10710 (421.65)
SM 74-7 (-P) + LX	13050 (513.78)	4405 (173.42)	520 (20.47)	12140 (477.95)
SM 74-8 (-P)	11680 (459.84)	5418 (213.31)	520 (20.47)	10710 (421.65)
SM 74-8 (-P) + L	12690 (499.61)	5418 (213.31)	520 (20.47)	11720 (461.42)
SM 74-8 (-P) + LX	14070 (553.94)	5418 (213.31)	520 (20.47)	13150 (517.72)
SM 74-10 (-P)	13710 (539.76)	6431 (253.19)	520 (20.47)	12740 (501.57)

Tab. 3 Variable Dimensions in the Floor Plans

## 4 Floor plans of peripheral units

### 4.1 General information

UTKMS9060013001000000

- All dimensions are in mm (*in*).
- Scale 1:100.  
A true-to-scale representation is no longer guaranteed when own printouts are used.
- The following variants are shown in the floor plans of peripheral units:
  - I: Minimum configuration
  - II: Maximum configuration
 or:
  - I: Minimum configuration
  - II: Medium configuration
  - III: Maximum configuration
- All supply devices can be opened at the machine side and at the wall side. The floor plans of peripheral units show the supply devices with doors that are open at the wall side.

### 4.2 Notes on the peripheral units

#### 4.2.1 AirStar

##### **Air-cooled / water-cooled**

The floor plans of peripheral units show the air-cooled AirStar cabinets (AirStar-LGK ...).

Remember that water-cooled AirStar cabinets contain an additional cooling module. This increases the width of these units as follows:

- AirStar-WGK M3: + 370 mm (*14.57 in*)
- AirStar-WGK M8: + 370 mm (*14.57 in*).

#### 4.2.2 Coating container

The floor plans of peripheral units show the varnish container as a hatched area.

4.3 SM 74-1

GR MS906030000000000000

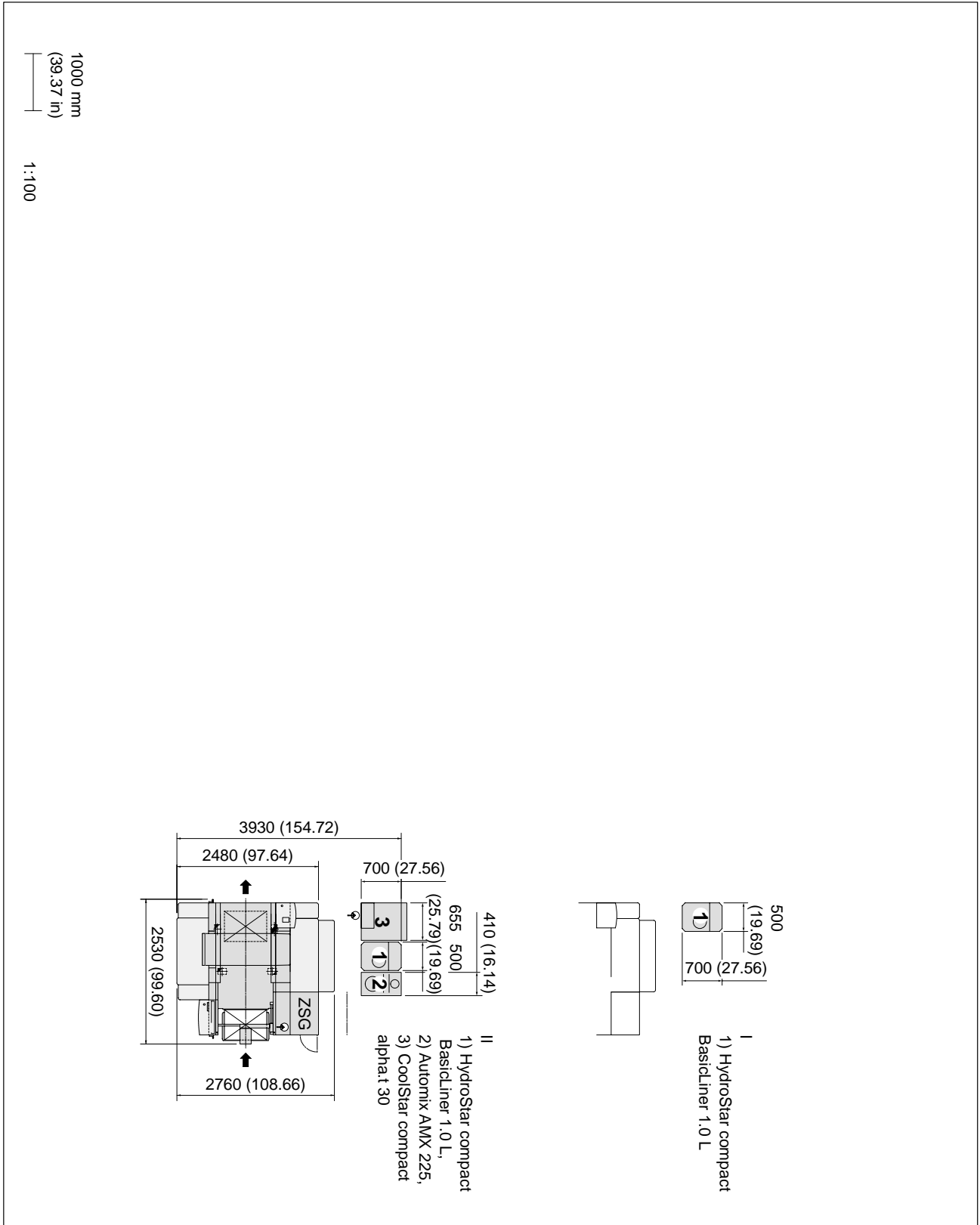


Fig. 7

4.4 SM 74-2 (-P)

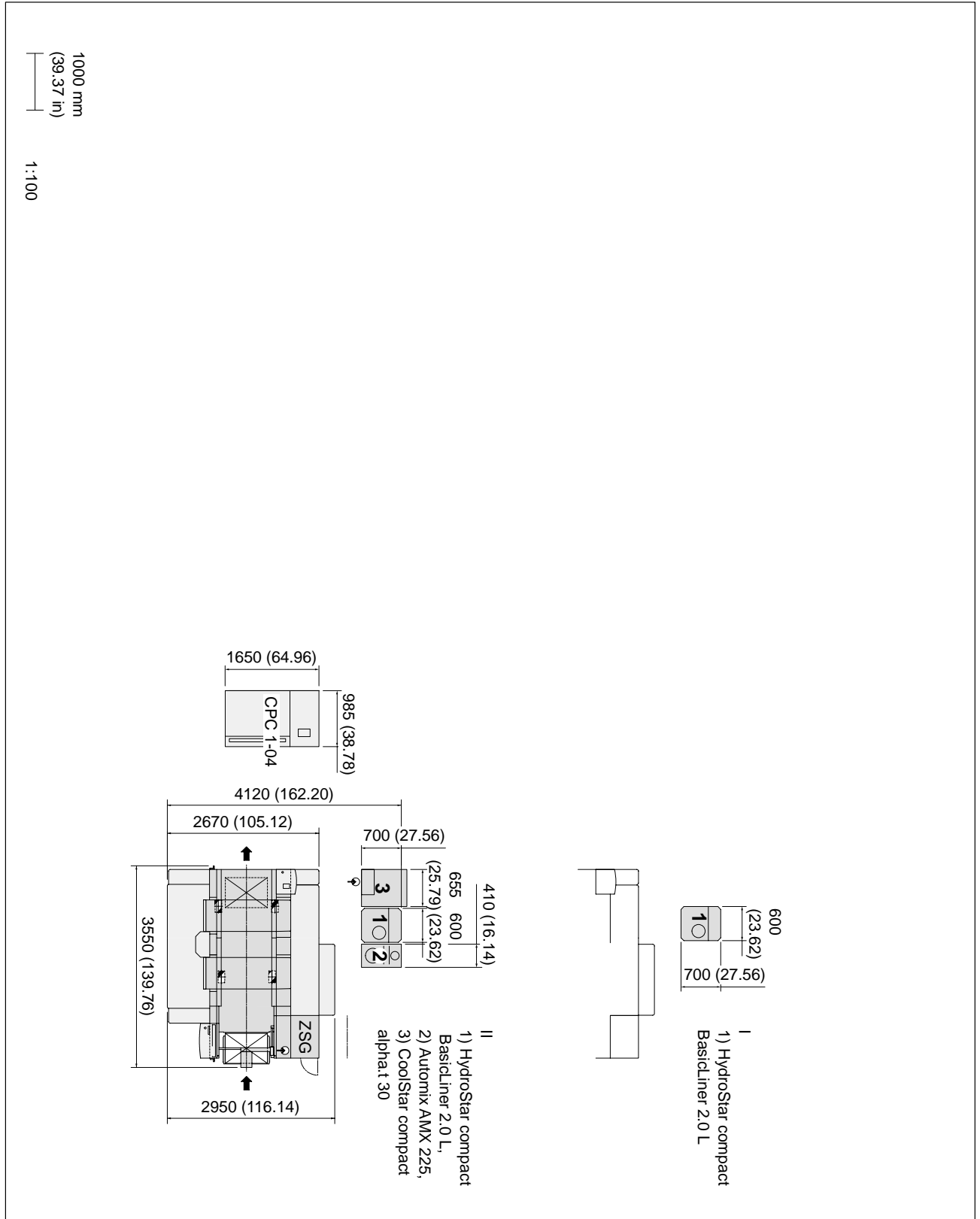
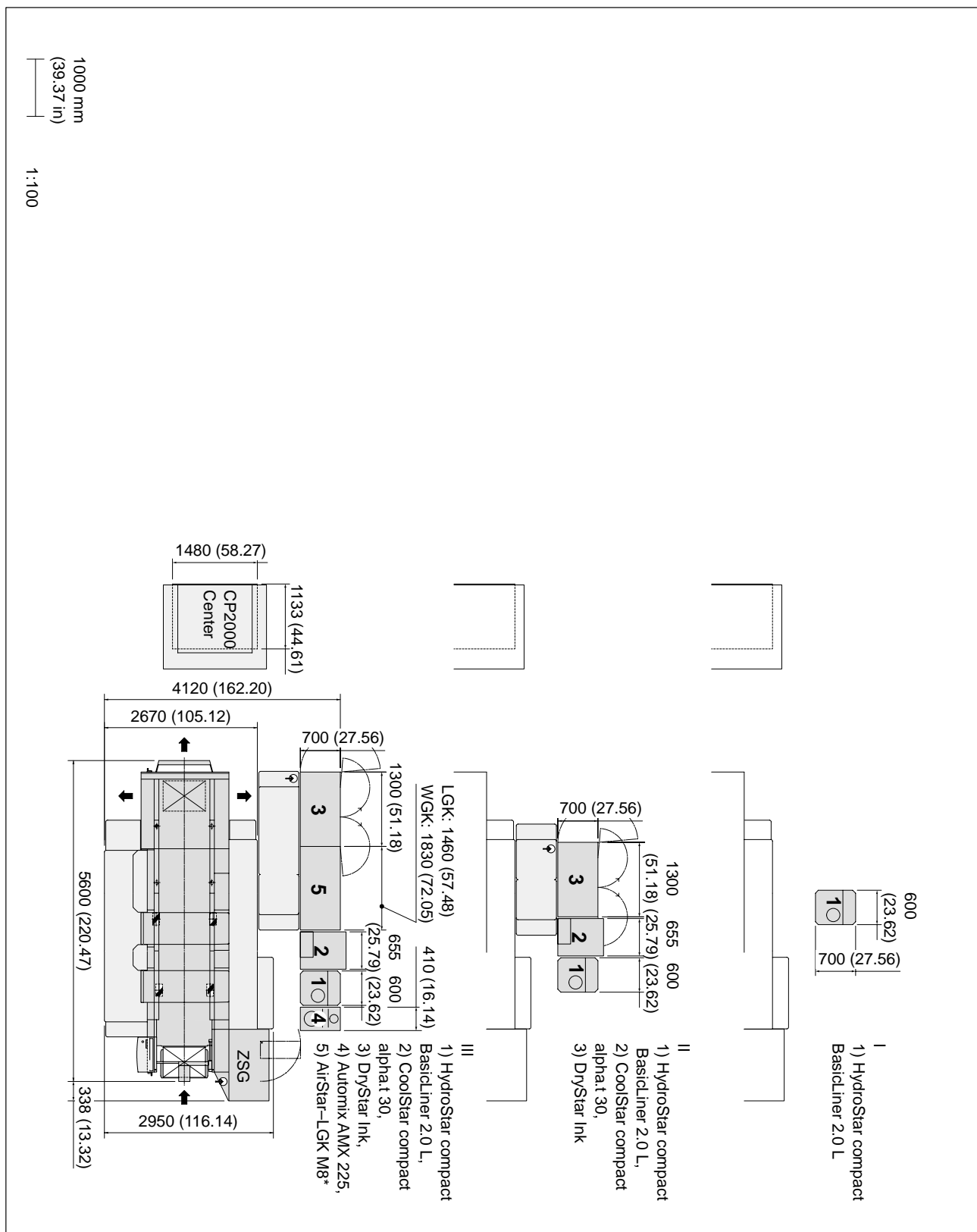


Fig. 8

4.5 SM 74-2 (-P) -H

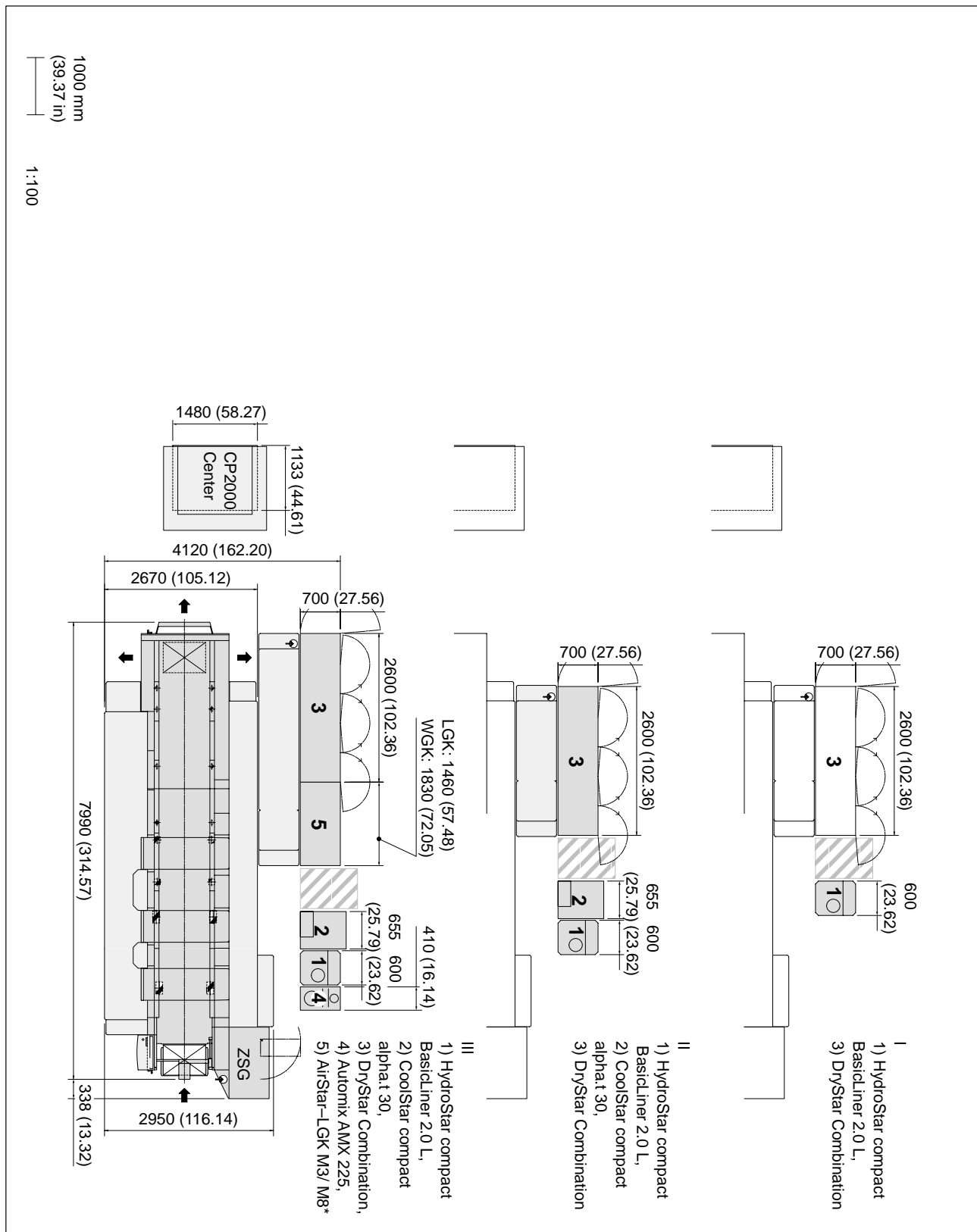


000100000202030306SM GR

Fig. 9 (\*) : Air-cooled AirStar cabinet.



4.7 SM 74-2 (-P) + LX



000100000r06306SM/RG

Fig. 11 (\*) : Air-cooled AirStar cabinet.

4.8 SM 74-4 (-P)

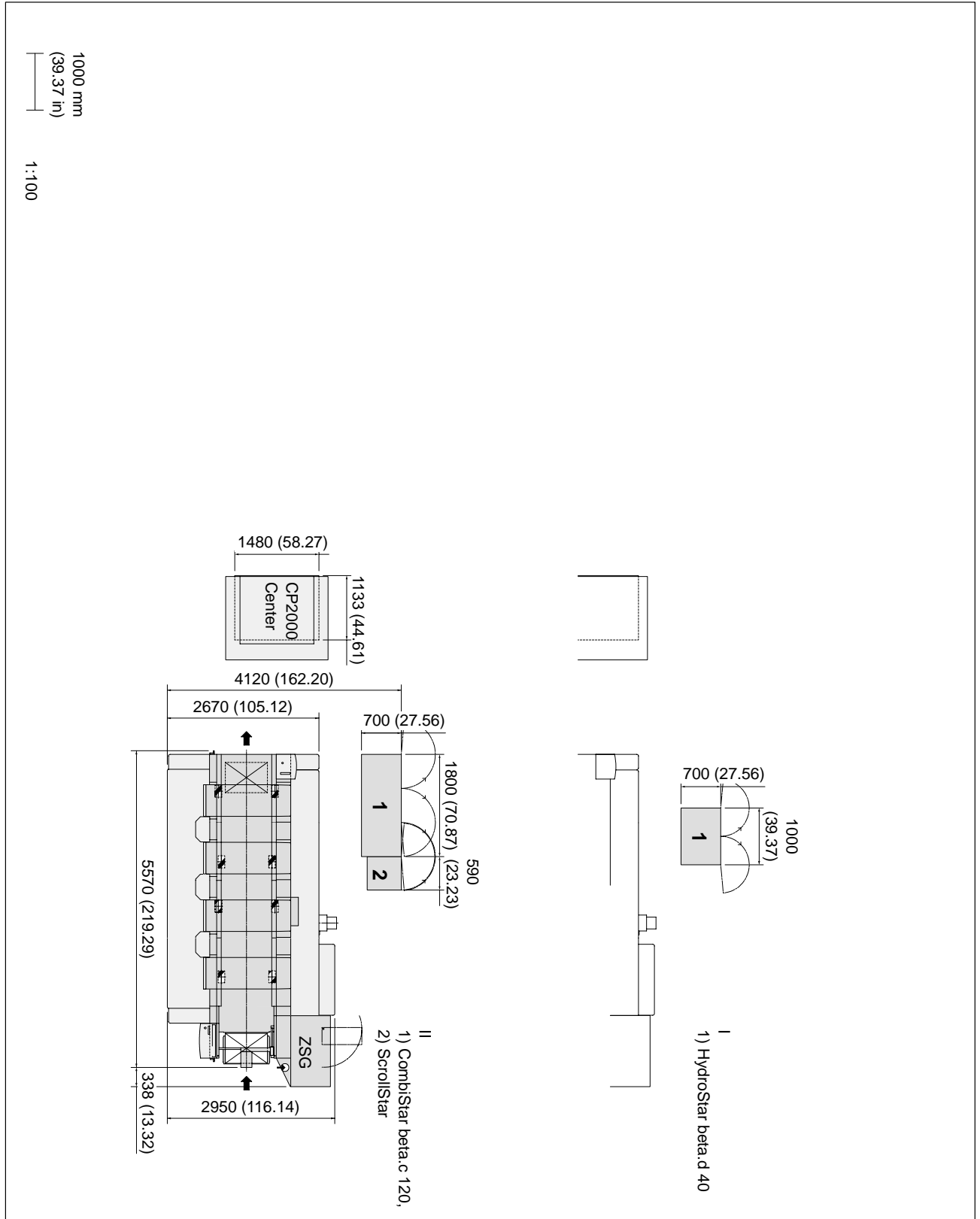
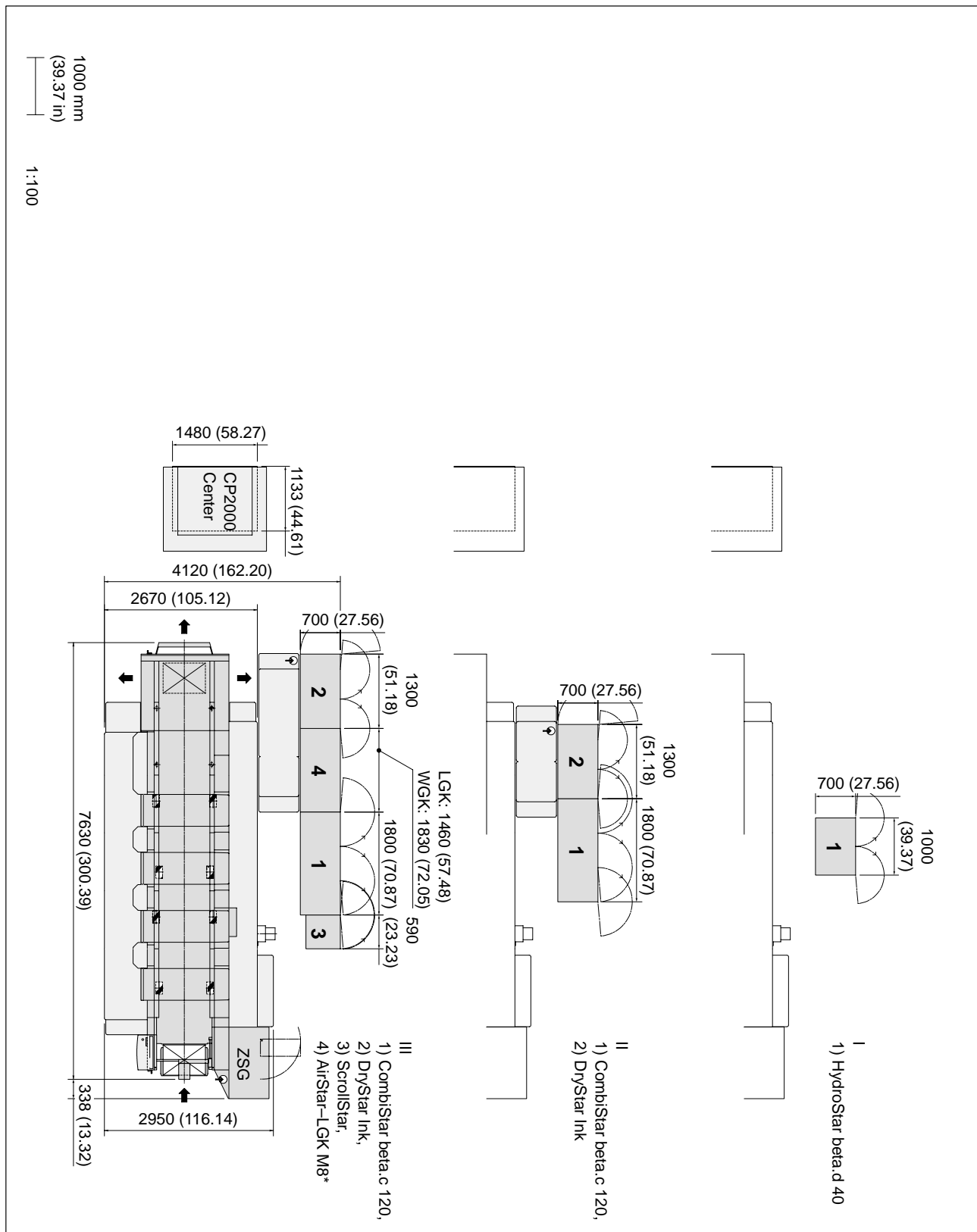


Fig. 12

4.9 SM 74-4 (-P) -H



00010000030306SM/GR

Fig. 13 (\*): Air-cooled AirStar cabinet.

4.10 SM 74-4 (-P) + L

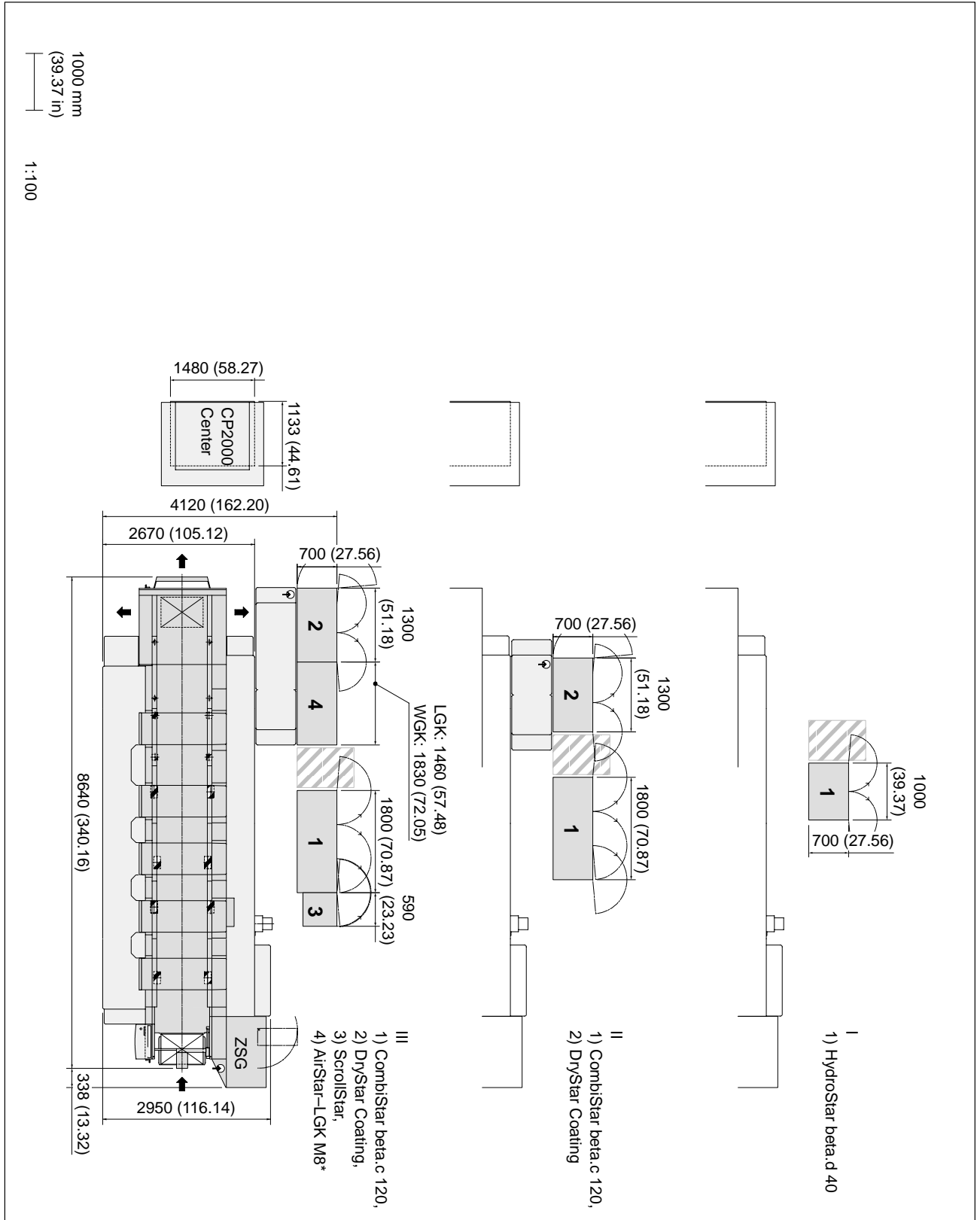
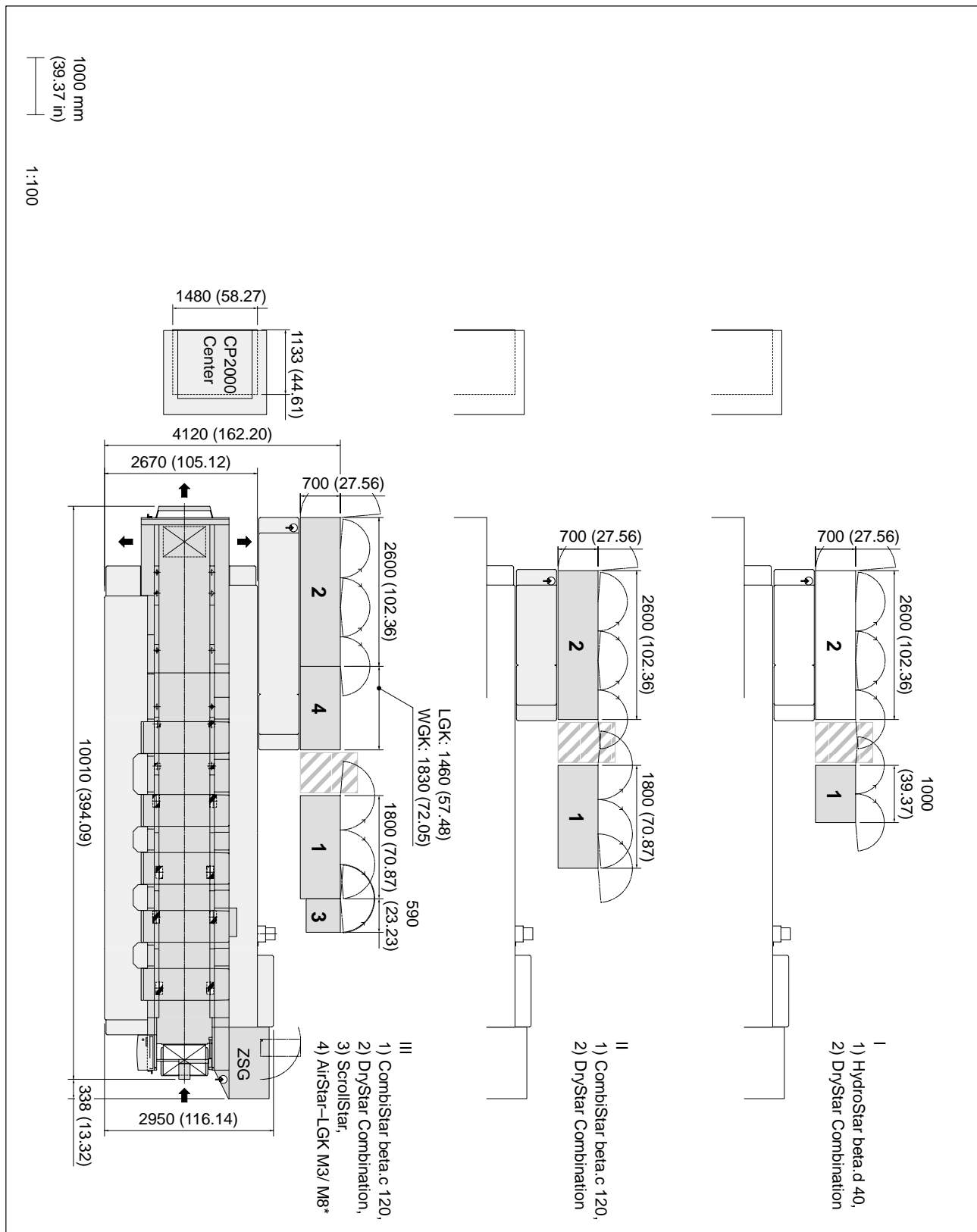


Fig. 14 (\*): Air-cooled AirStar cabinet.

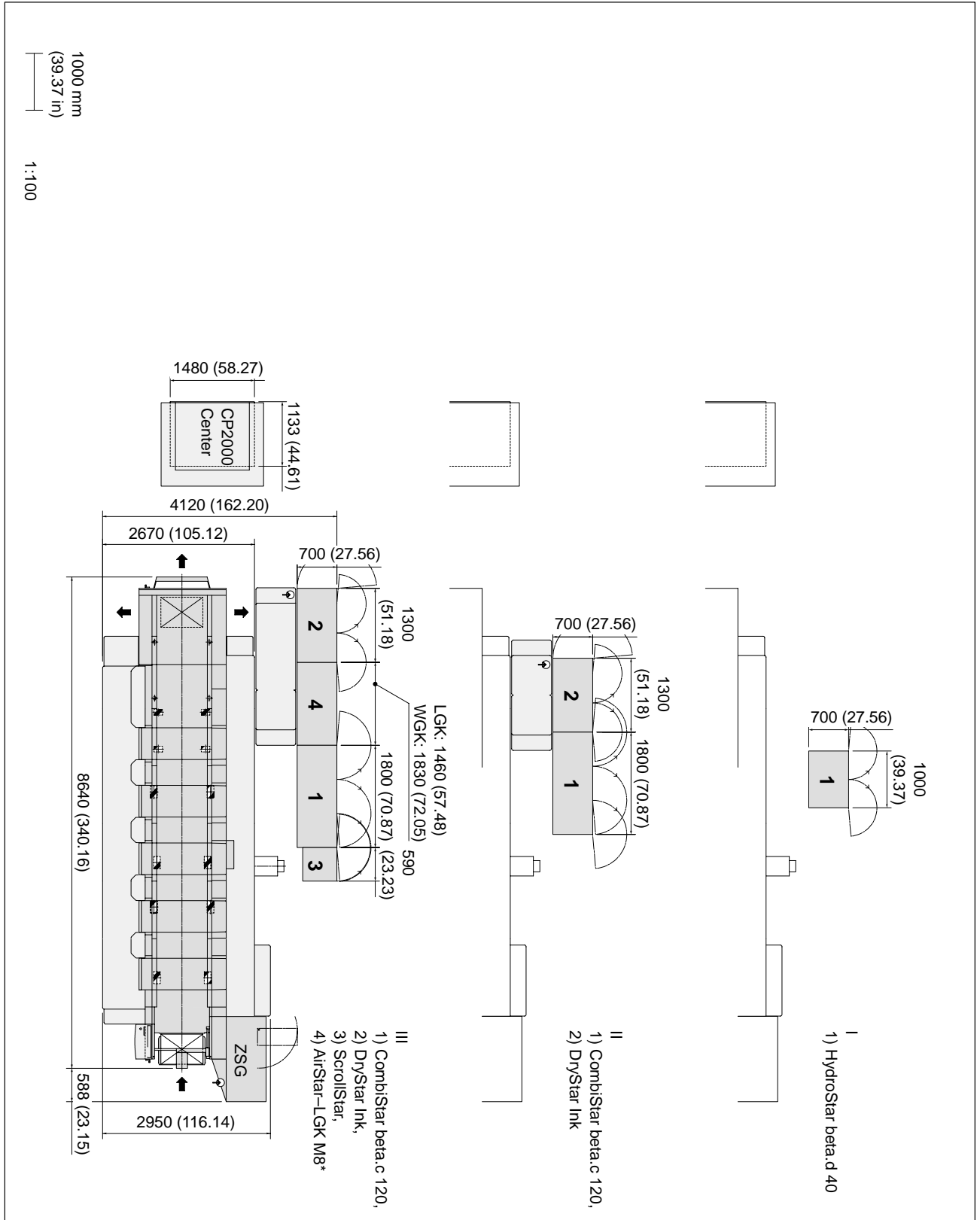
4.11 SM 74-4 (-P) + LX



00010000080306SM GR

Fig. 15 (\*) : Air-cooled AirStar cabinet.

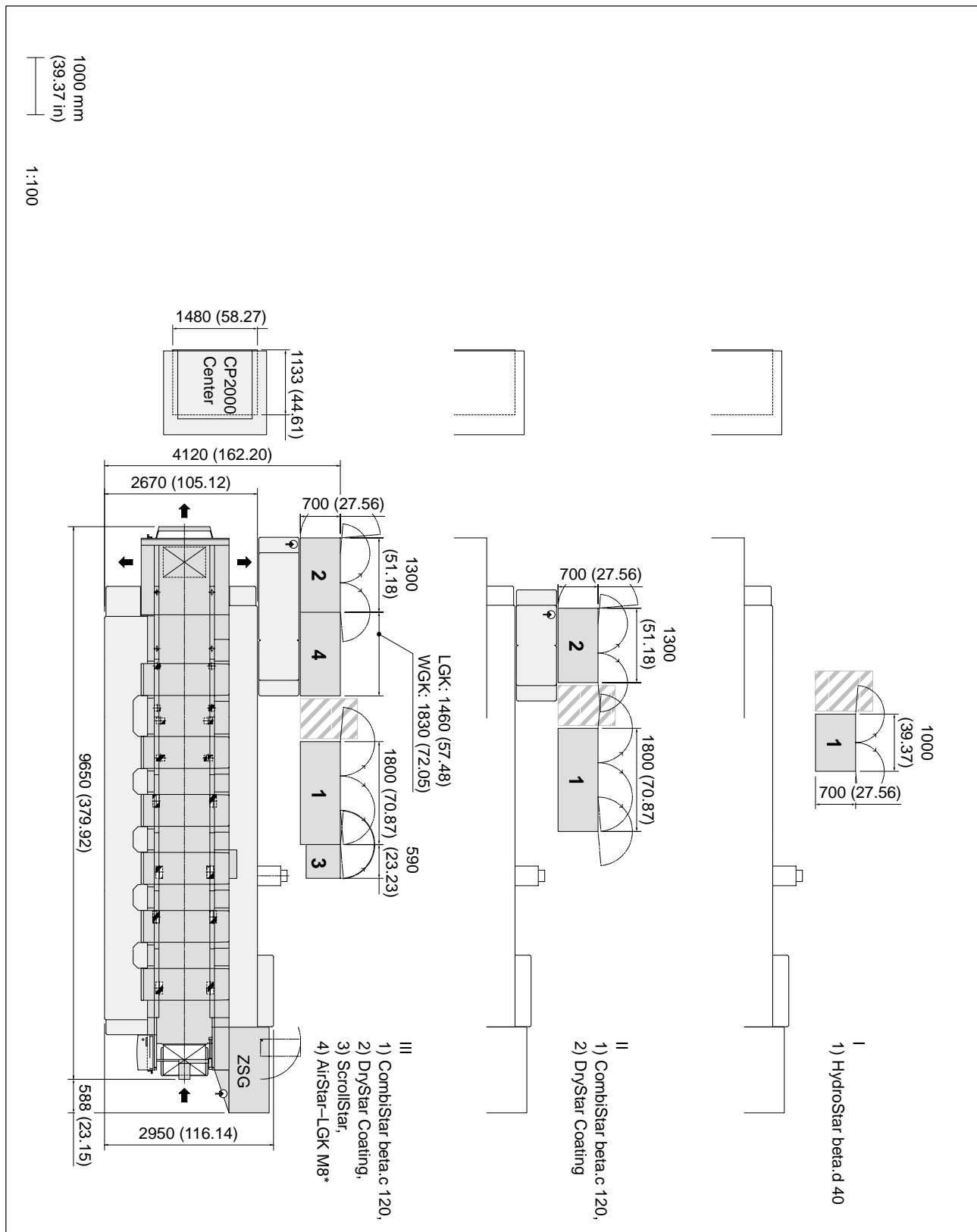
4.12 SM 74-5 (-P)



000100000606090606 GR MS/M

Fig. 16 (\*): Air-cooled AirStar cabinet.

4.13 SM 74-5 (-P) + L

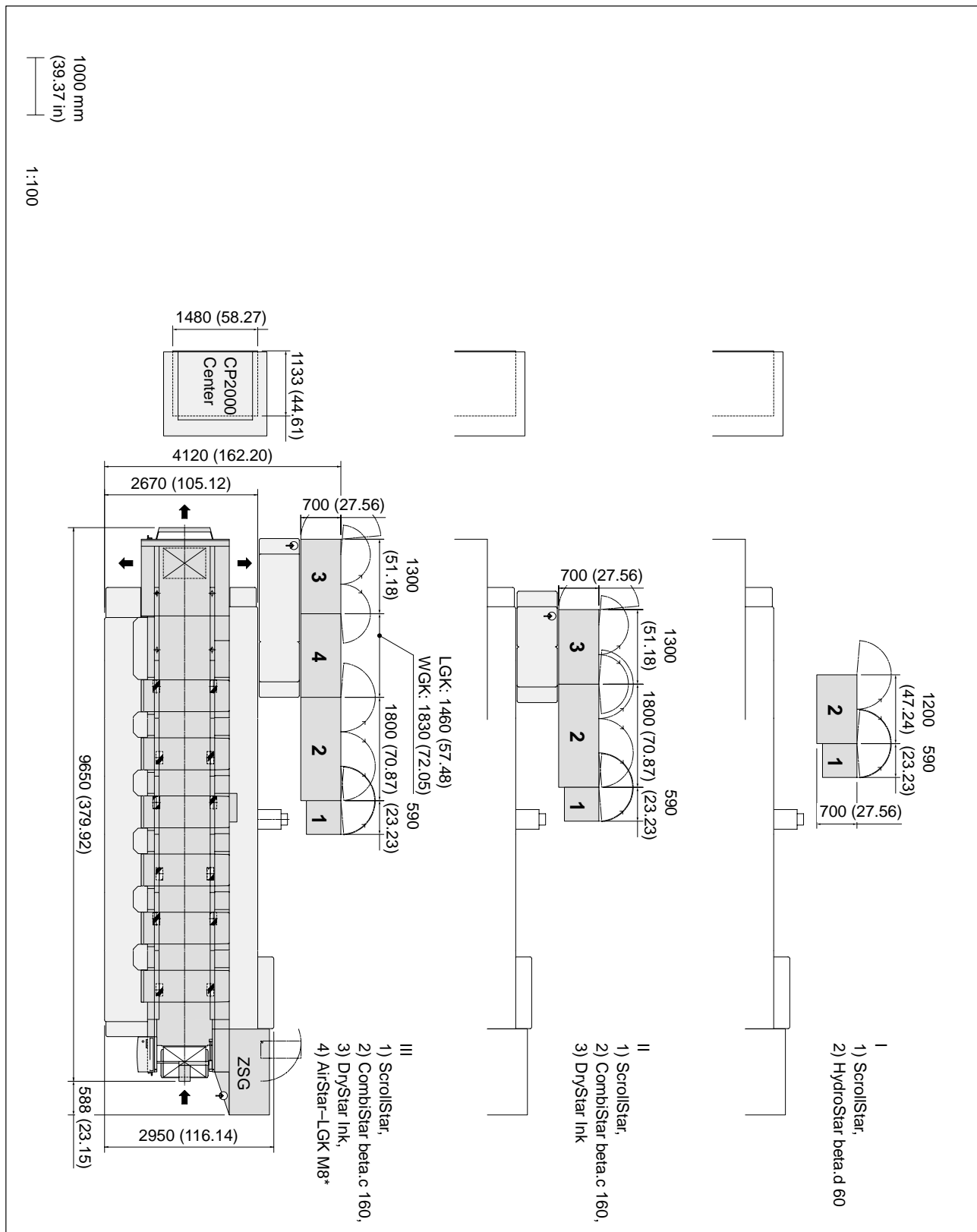


000100000010306SM GR

Fig. 17 (\*) : Air-cooled AirStar cabinet.



4.15 SM 74-6 (-P)



00010000021030906SM GR

Fig. 19 (\*) : Air-cooled AirStar cabinet.

4.16 SM 74-6 (-P) + L

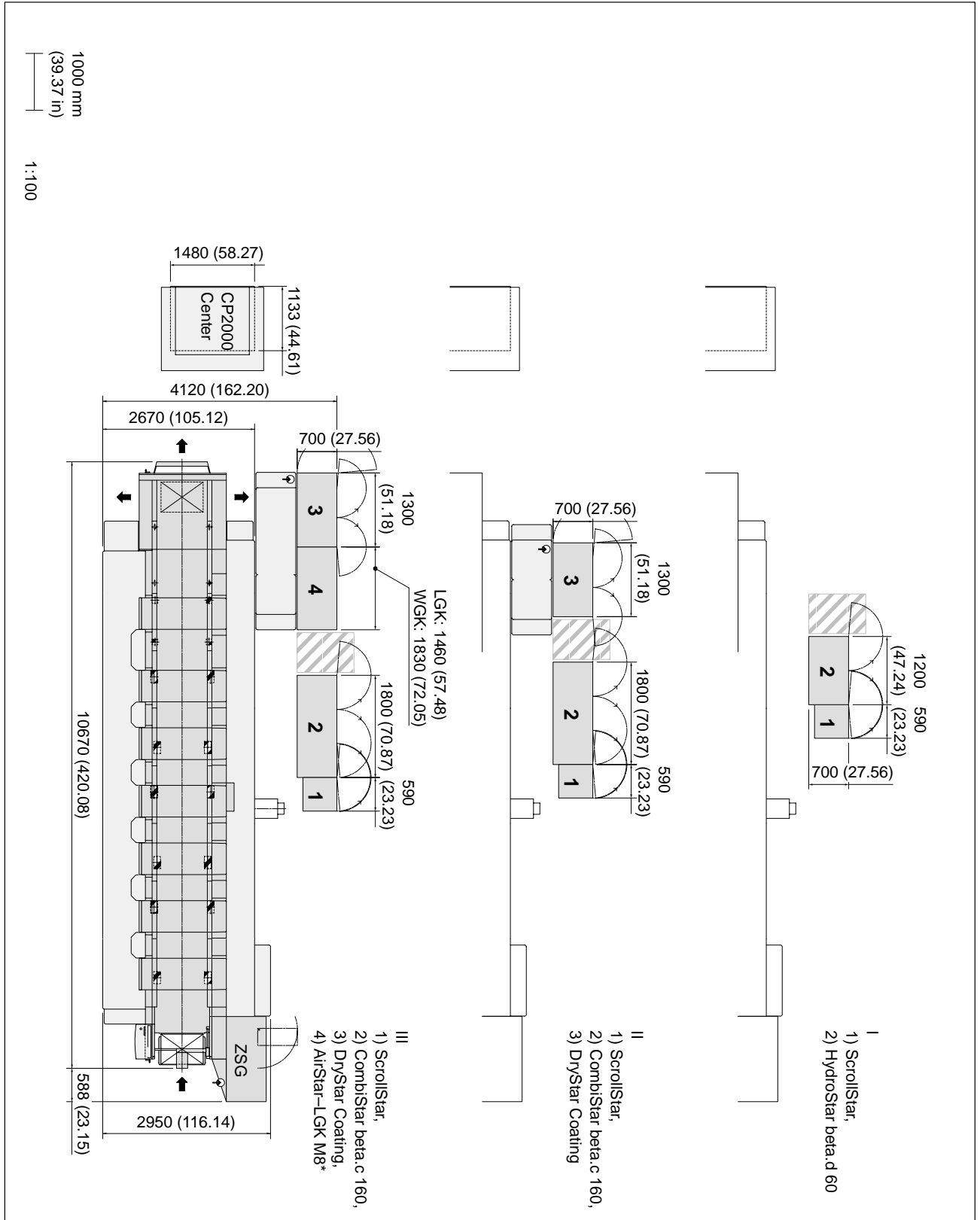
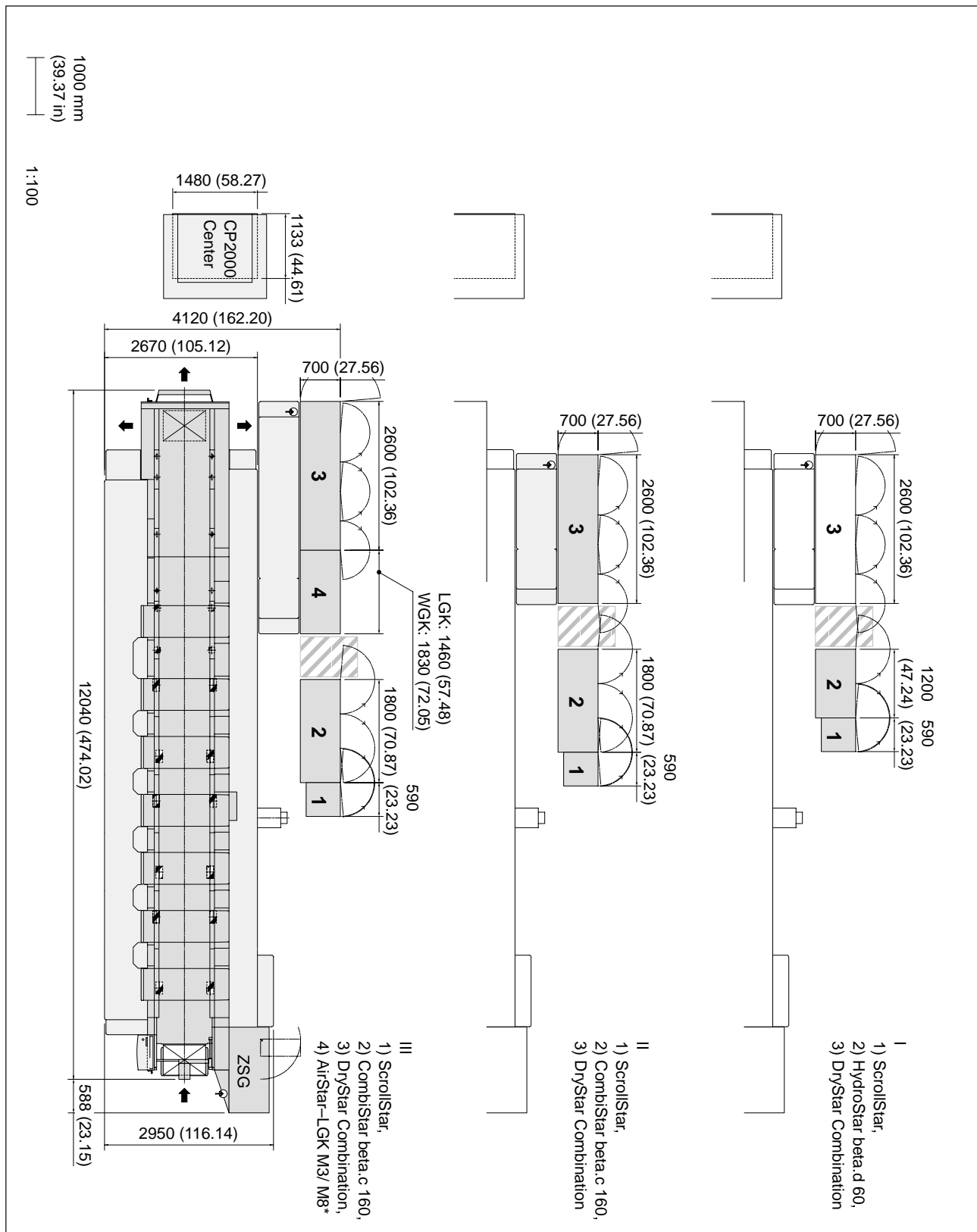


Fig. 20 (\*) : Air-cooled AirStar cabinet.

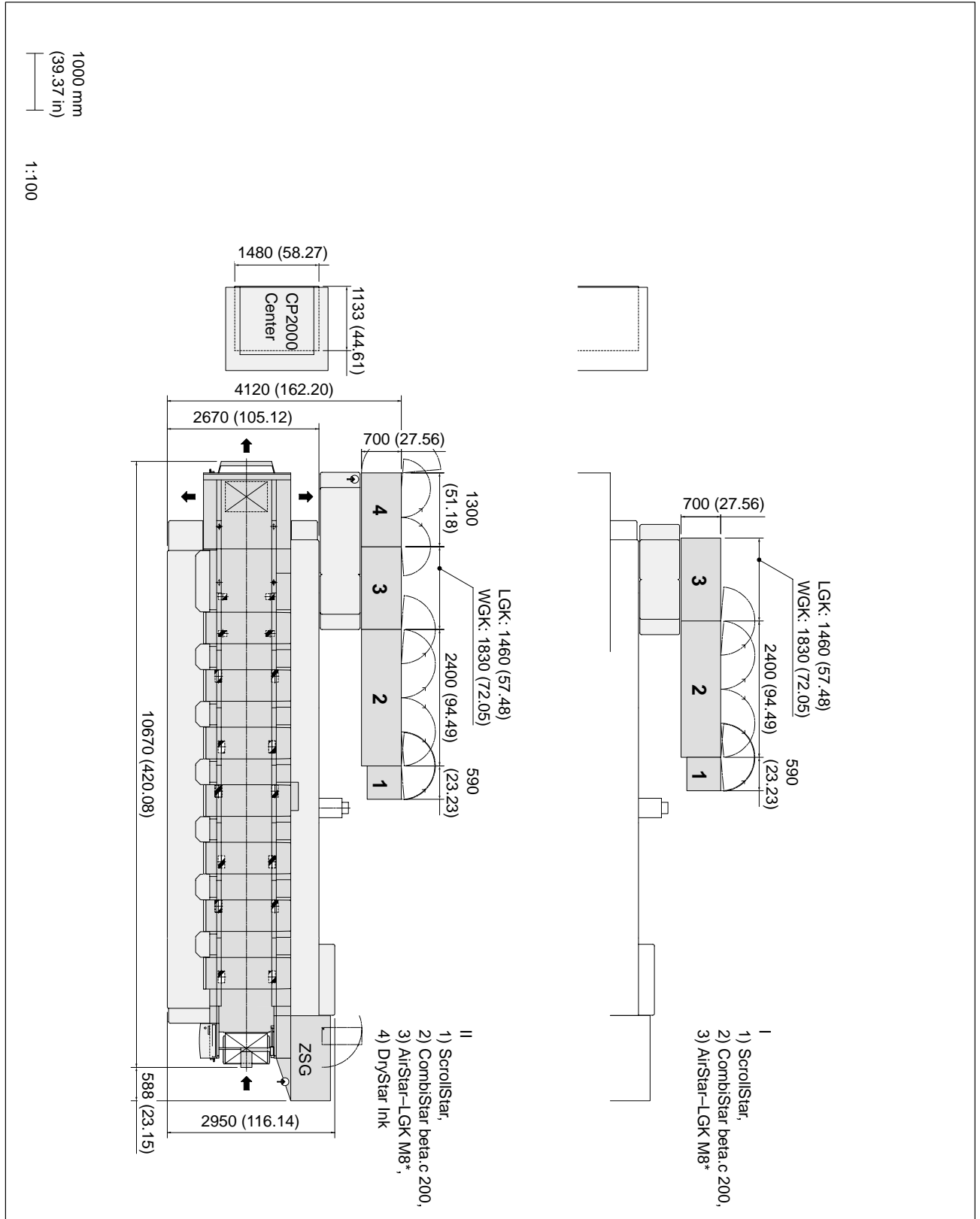
4.17 SM 74-6 (-P) + LX



000100000r153906SM GR

Fig. 21 (\*) : Air-cooled AirStar cabinet.

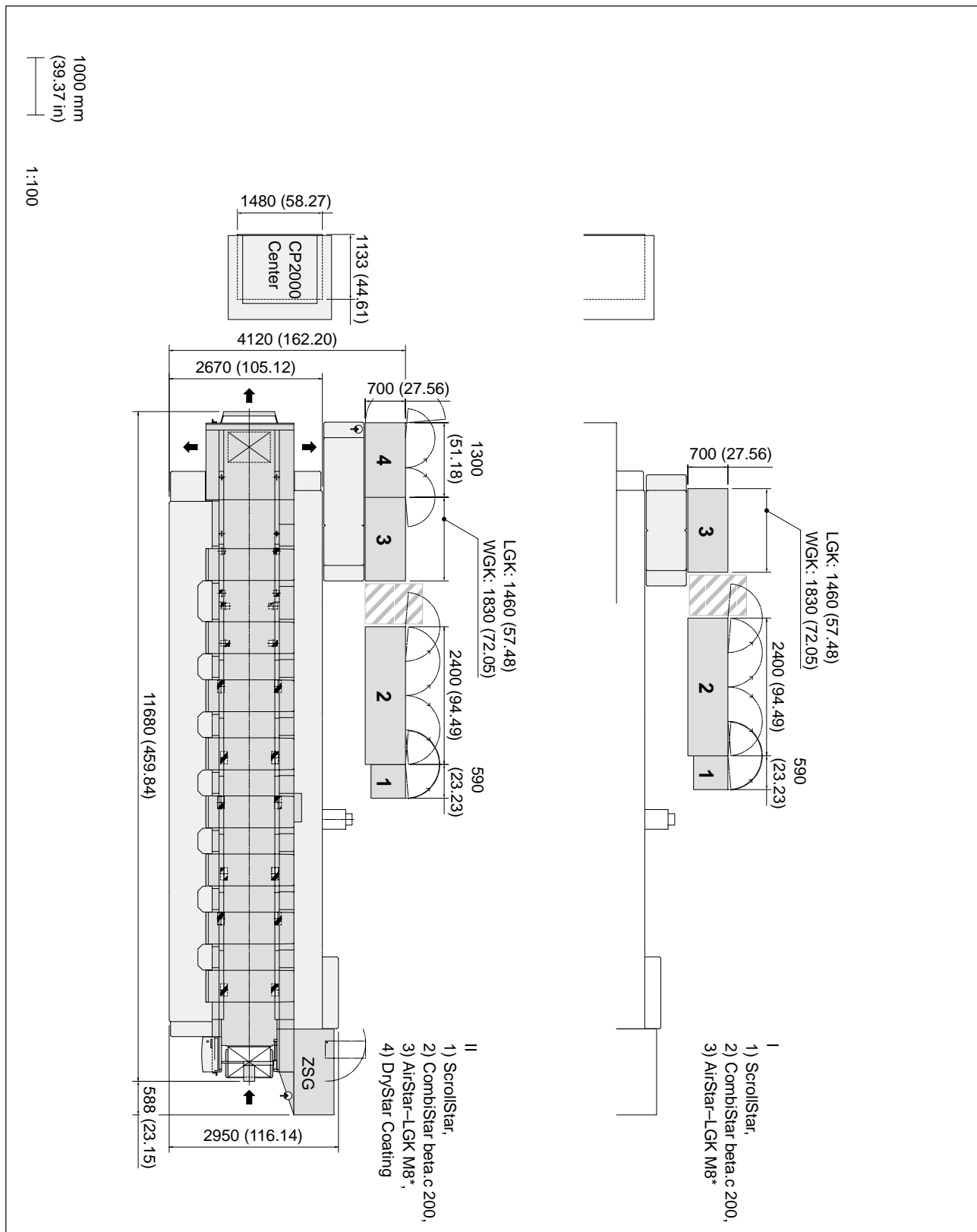
4.18 SM 74-7 (-P)



00010000051030906SM GR

Fig. 22 (\*): Air-cooled AirStar cabinet.

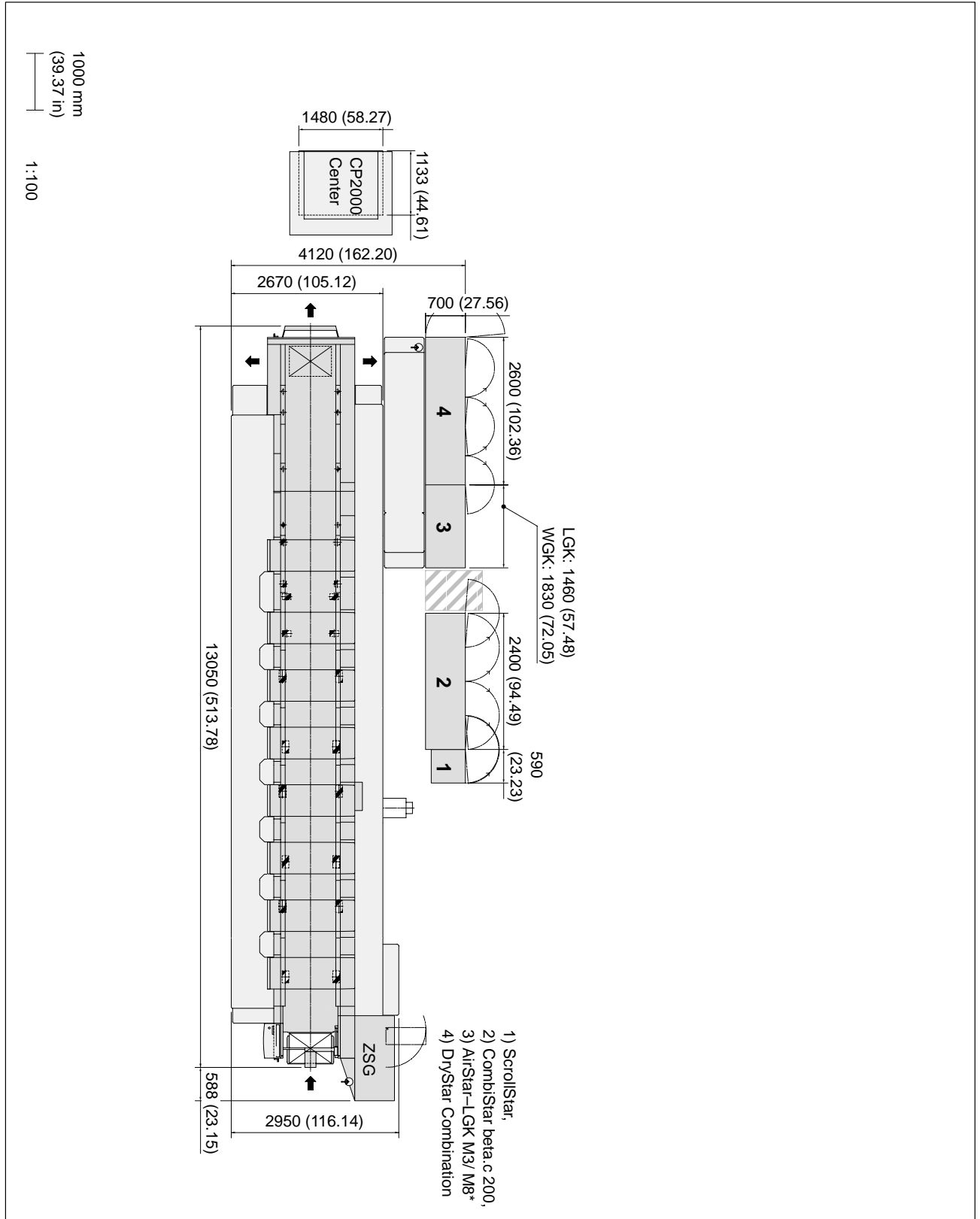
4.19 SM 74-7 (-P) + L



000100000910306SM/GR

Fig. 23 (\*) : Air-cooled AirStar cabinet.

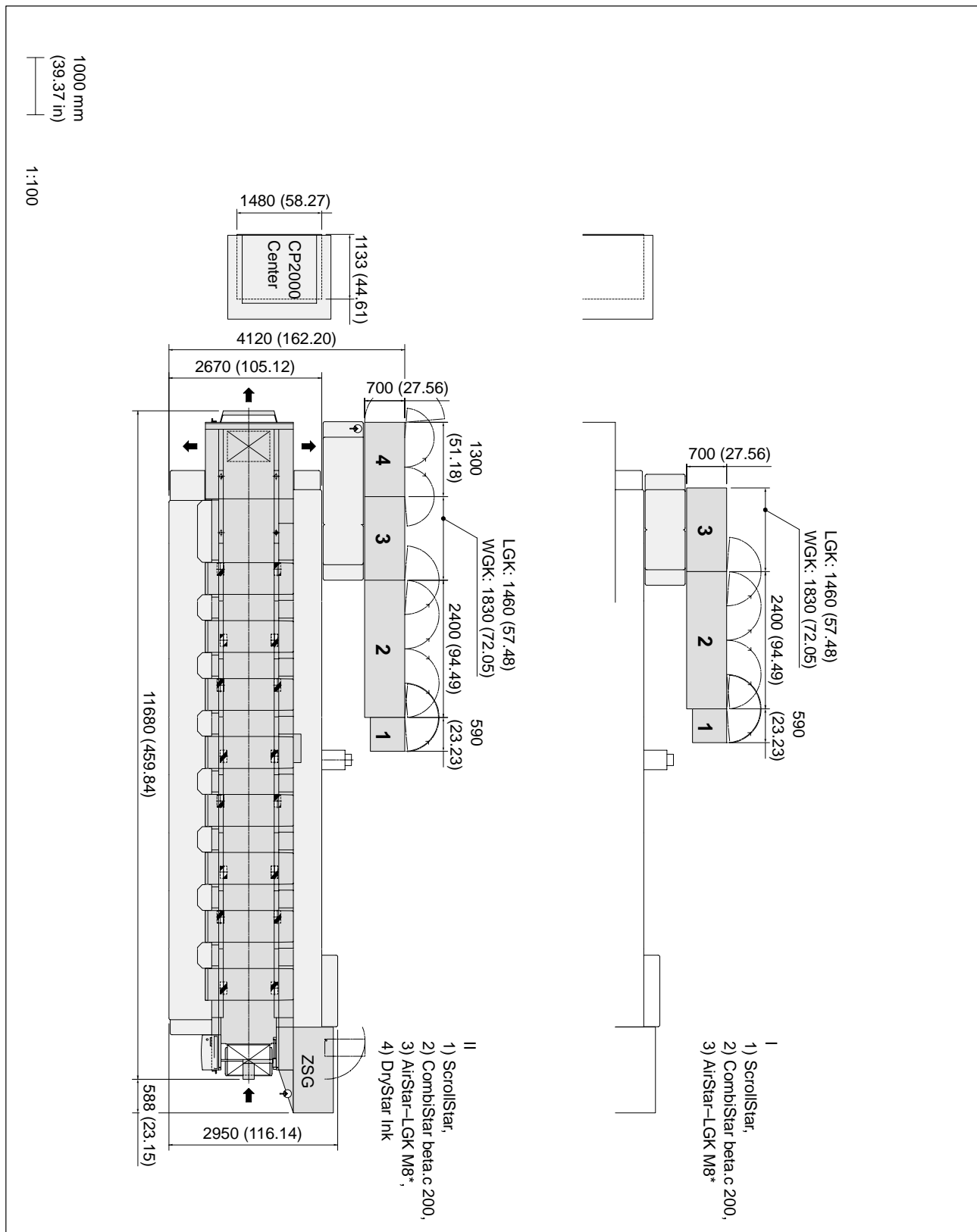
4.20 SM 74-7 (-P) + LX



GR MS9060317000010000

Fig. 24 (\*) : Air-cooled AirStar cabinet.

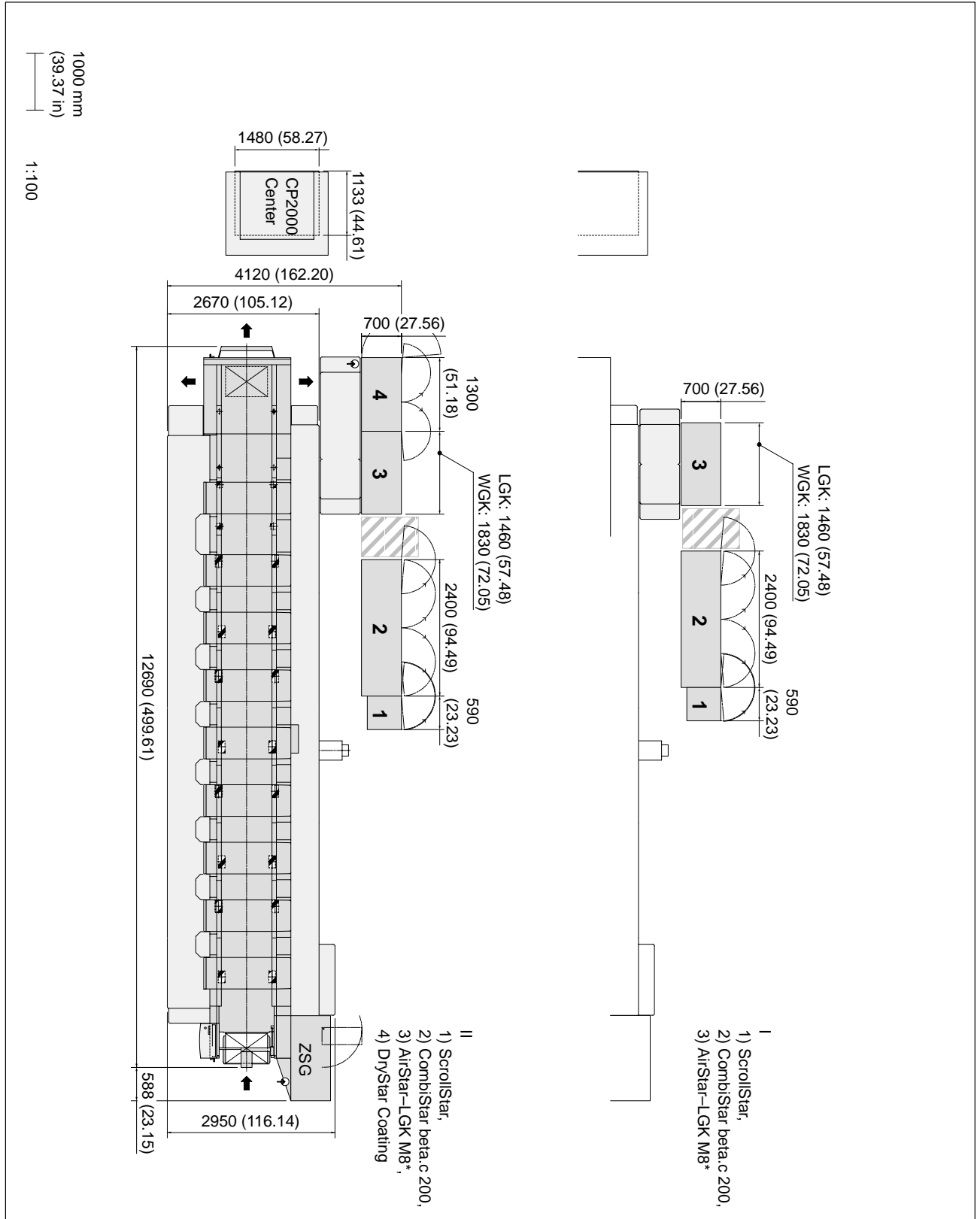
4.21 SM 74-8 (-P)



000100000810306SM/GR

Fig. 25 (\*) : Air-cooled AirStar cabinet.

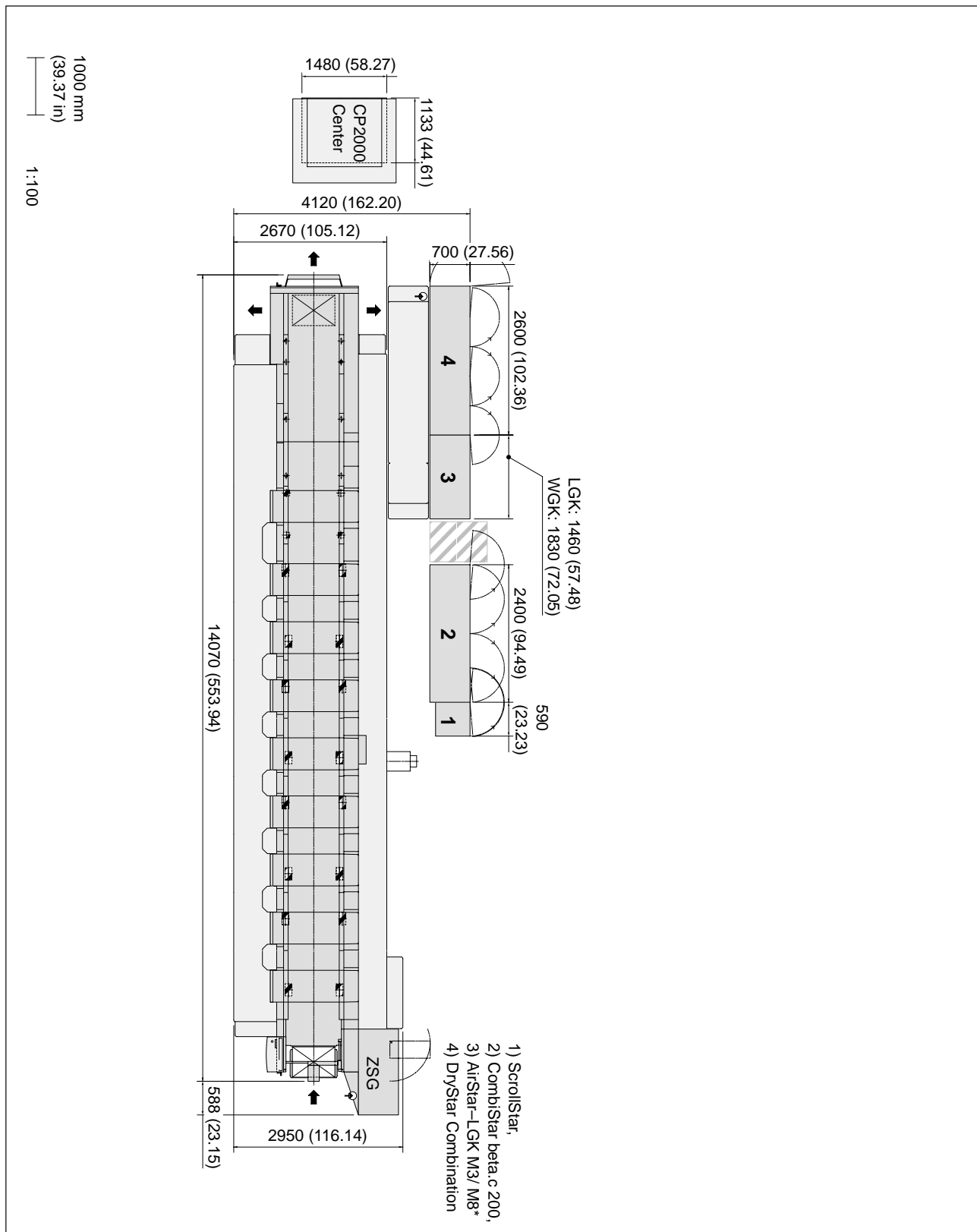
4.22 SM 74-8 (-P) + L



0001000061030906SMN  
GR

Fig. 26 (\*): Air-cooled AirStar cabinet.

4.23 SM 74-8 (-P) + LX



0001000002020306SM/GR

Fig. 27 (\*) : Air-cooled AirStar cabinet.





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