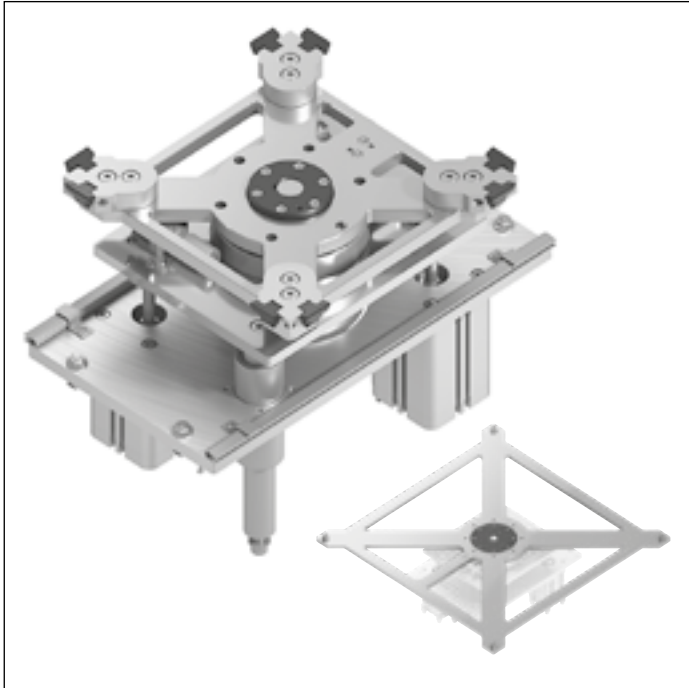


Lift rotary unit HD 2/H...



The lift rotary unit HD 2/H turns workpiece pallets to the required orientation.

Required accessories

- ▶ Housing elements HD 2/H
- ▶ Leg sets for BG 2 over 50 kg
- ▶ Leg sets for BG 3 generally
- ▶ Cylinder switch (R412022863) for the top/center/bottom lift positions
- ▶ Sensor for rotary movement at 0°/180° or 0°/90°

Scope of delivery

- ▶ 2x damper for end positions of the rotary movement
- ▶ Incl. fastening material for assembly on conveyor sections
- ▶ Pneumatic elements such as fittings, throttle check valves, etc. for the top/center/bottom lift positions

- ▶ Lift WT above conveying level, approx. 50 mm
- ▶ Available in 3 sizes (BG) for WT total weights up to 240 kg
 - BG 1 and BG 2 for use with workpiece pallets WT 2, WT 2/F and WT 2/LS (only with version LS)
 - BG 2: WT 2/H and WT 2/F-H (only for heavy duty version)
 - BG 3 for use with workpiece pallets WT 2/H and WT 2/F-H
- ▶ Rotation 90° oder 180°
 - For rotating quadratic workpiece pallets 90° or 180°
 - 90° variant of BG 1, BG 2
Rotation with workpiece pallet above the conveying level;
Reverse rotation of the turnstile below the conveying level
 - 180° variant of BG 1, 2, 3 and 90° BG 3
Rotation and reverse rotation of the turnstile above the conveying level
 - For rotating non-quadratic workpiece pallets 180°

Recommended accessories

- ▶ Stop gate VE 2 or stop gate VE 2/D for damped stopping of a workpiece pallet
- ▶ Recommended accessories for BG3:
Stop gate VE 2/D-100, stop gate VE 2/D-250

Condition on delivery

- ▶ Assembled

Ordering information

Product description	Size BG	Max. total workpiece pallet weight m_g (kg)	Width b (mm)	Length L_T (mm)	Rotation angle DW ⁴⁾ (°)	Installation location AO	LS ⁵⁾	Material number
Lift rotary unit HD 2/H	BG 1 ¹⁾	50	240	240; 320; 400	90; 180	80; 100		3842998760
			320	240; 320; 400; 480	90; 180	80; 100		3842998760
			400	320	180	80; 100		3842998760
Lift rotary unit HD 2/H LS	BG 1 ²⁾	50	240	240; 320; 400	90; 180	80; 100	1	3842999023
			320	240; 320; 400; 480	90; 180	80; 100	1	3842999023
			400	320	90; 180	80; 100	1	3842999023
Lift rotary unit HD 2/H	BG 2 ¹⁾	128	400	400; 480	90; 180	80; 100		3842998761
			480	400; 480; 640; 800	90; 180	80; 100		3842998761
			640	480; 640; 800; 1040	90; 180	80; 100		3842998761
			800	640	180	80; 100		3842998761
Lift rotary unit HD 2/H LS	BG 2 ²⁾	50	400	400; 480; 640	90; 180	80; 100	1	3842999024
Lift rotary unit HD 2/H	BG 2 ³⁾	128	400	400; 480	90; 180	80; 100		3842994229
			480	400; 480; 640; 800	90; 180	80; 100		3842994229
			640	480; 640; 800; 1040	90; 180	80; 100		3842994229
			800	640	180	80; 100		3842994229
Lift rotary unit HD 2/H	BG 3 ³⁾	240	800	800; 1040	90; 180	80; 100		3842998762
			1040	800; 1040; 1200	90; 180	80; 100		3842998762
			1200	1200	90; 180	80; 100		3842998762

1) For use with workpiece pallets WT 2 and WT 2/F only

2) For use with workpiece pallets WT 2/LS only

3) For use with workpiece pallets WT 2/H and WT 2/F-H only

4) Only possible for DW = 90° quadratic workpiece pallets

5) Linear section: 1 = yes

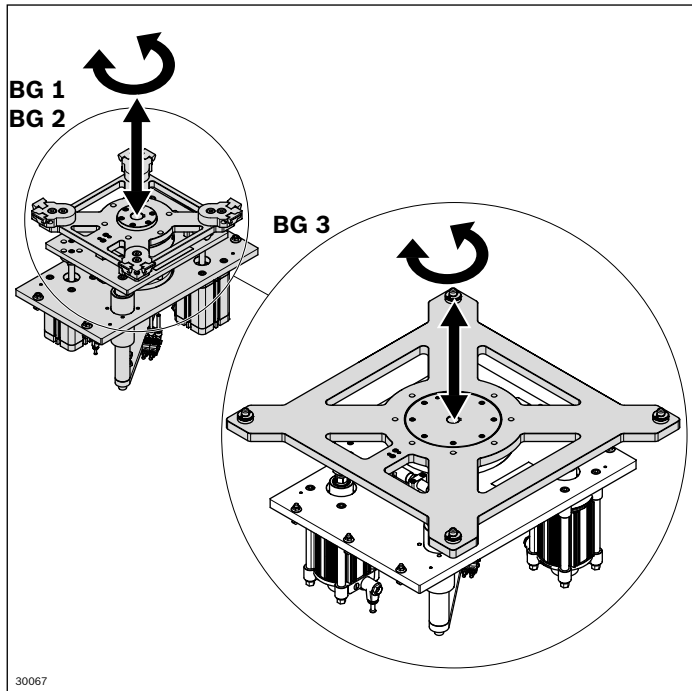
Ordering information

Product description	Material number
Cylinder switch for top/center/bottom position sensing ST6-PN-M12R-030 sensor	R412022863

Product description	Material number
Sensor, short, for rotary movement end position sensing IEC/EN 60947-5-2:-2004	3842549811

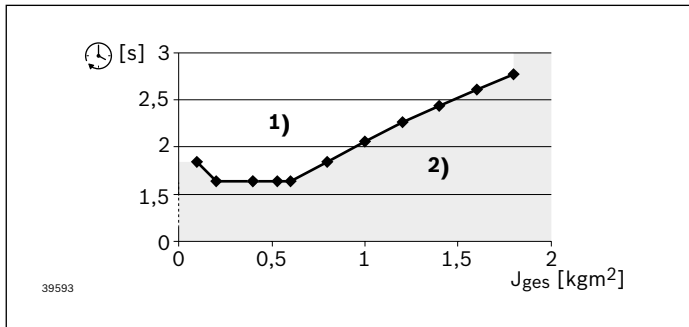
Technical data

Material number	3842998760	3842999023	3842998761	3842999024	3842998762	3842994229
ESD	Yes	Yes	Yes	Yes	Yes	Yes
Lift WT above conveying level	50	50	50	50	50	50



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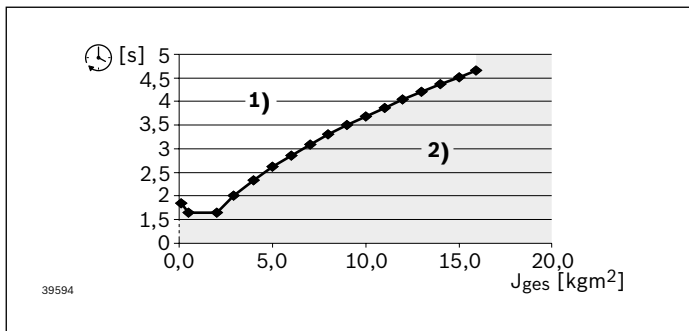
Size 1



⌚ = rotary movement time
J_{ges} = mass moment of inertia

1) Permissible range
2) Impermissible range

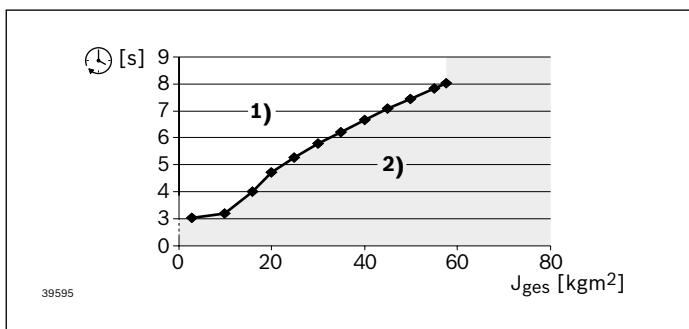
Size 2



⌚ = rotary movement time
J_{ges} = mass moment of inertia

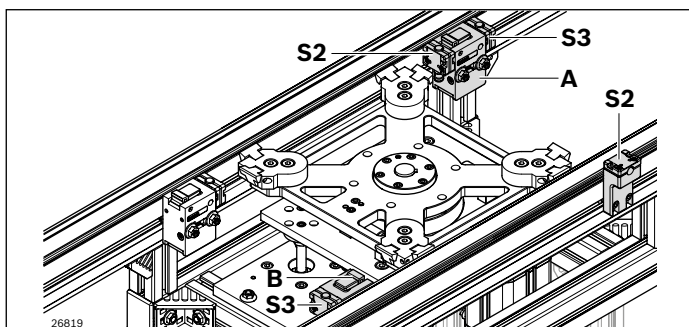
1) Permissible range
2) Impermissible range

Size 3



⌚ = rotary movement time
J_{ges} = mass moment of inertia

1) Permissible range
2) Impermissible range



OPERATING LIMITS OF THE LIFT ROTARY UNIT HD 2/H...

Mass moment of inertia

Notice:

In the arrangement of supports and workpieces on the WT, it must be ensured that the center of gravity of the loaded WT is within 1/3 of the length/width of the WT around the center of the WT.

It must also be ensured that the load center of gravity at height h_s does not exceed 1/2 b_{WT} (with $b_{WT} \leq l_{WT}$).

Size 1: Lift rotary unit HD 2/H, 3842998760

Lift rotary unit HD 2/H LS, 3842999023

Mass moment of inertia max. 1,8 kg m²

Size 2: Lift rotary unit HD 2/H, 3842998761

Lift rotary unit HD 2/H LS, 3842999024

Lift rotary unit HD 2/H, 3842994229

Mass moment of inertia max. 15,9 kg m²

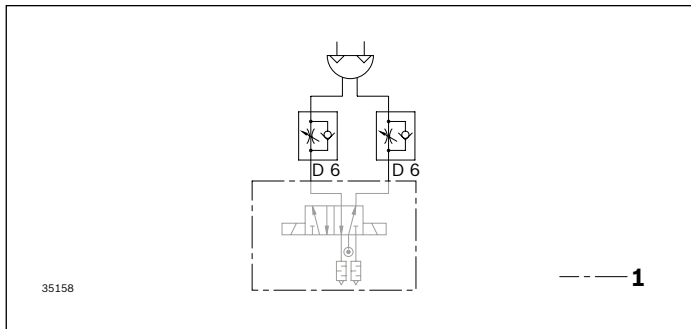
Size 3: Lift rotary unit HD 2/H, 3842998762

Mass moment of inertia max. 57,6 kg m²

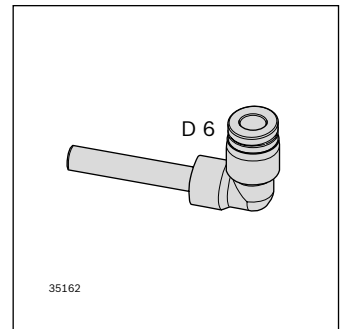
Additional operating limits

- Switch bracket mounting at $b \times l_T$ 240 mm x 240 mm is only possible from outside => see S2
- Reversible operation possible from $b \times l_T$ 320 mm x 320 mm => see A and B

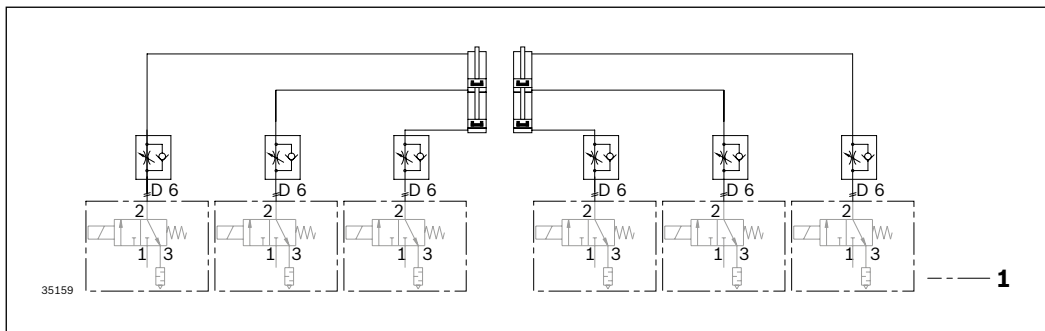
Pneumatic diagram of the lift rotary unit HD 2/H:
Rotary cylinder for Size 1/2/3, rotation angle 90° and 180°



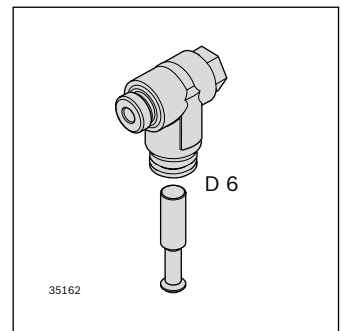
1 Not included in the scope of delivery



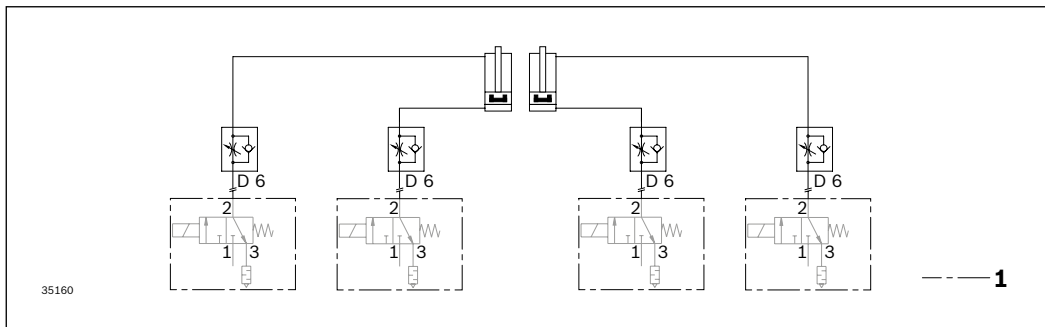
Pneumatic diagram of the lift rotary unit HD 2/H:
Lifting cylinder for Size 1/2, rotation angle 90° (multiple position cylinder)



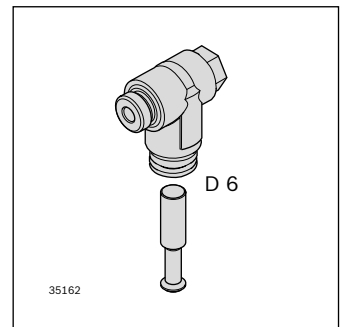
1 Not included in the scope of delivery



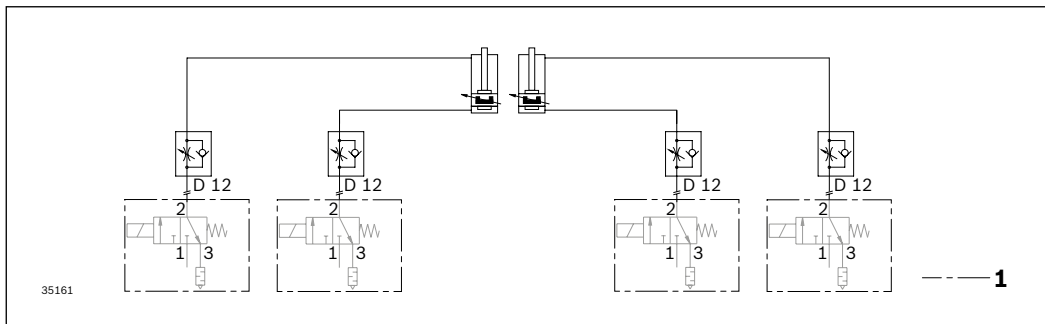
Pneumatic diagram of the lift rotary unit HD 2/H:
Lifting cylinder for Size 1/2, rotation angle 180°



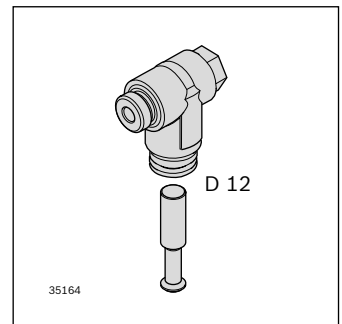
1 Not included in the scope of delivery



Pneumatic diagram of the lift rotary unit HD 2/H:
Lifting cylinder for Size 3, rotation angle 90° and 180°

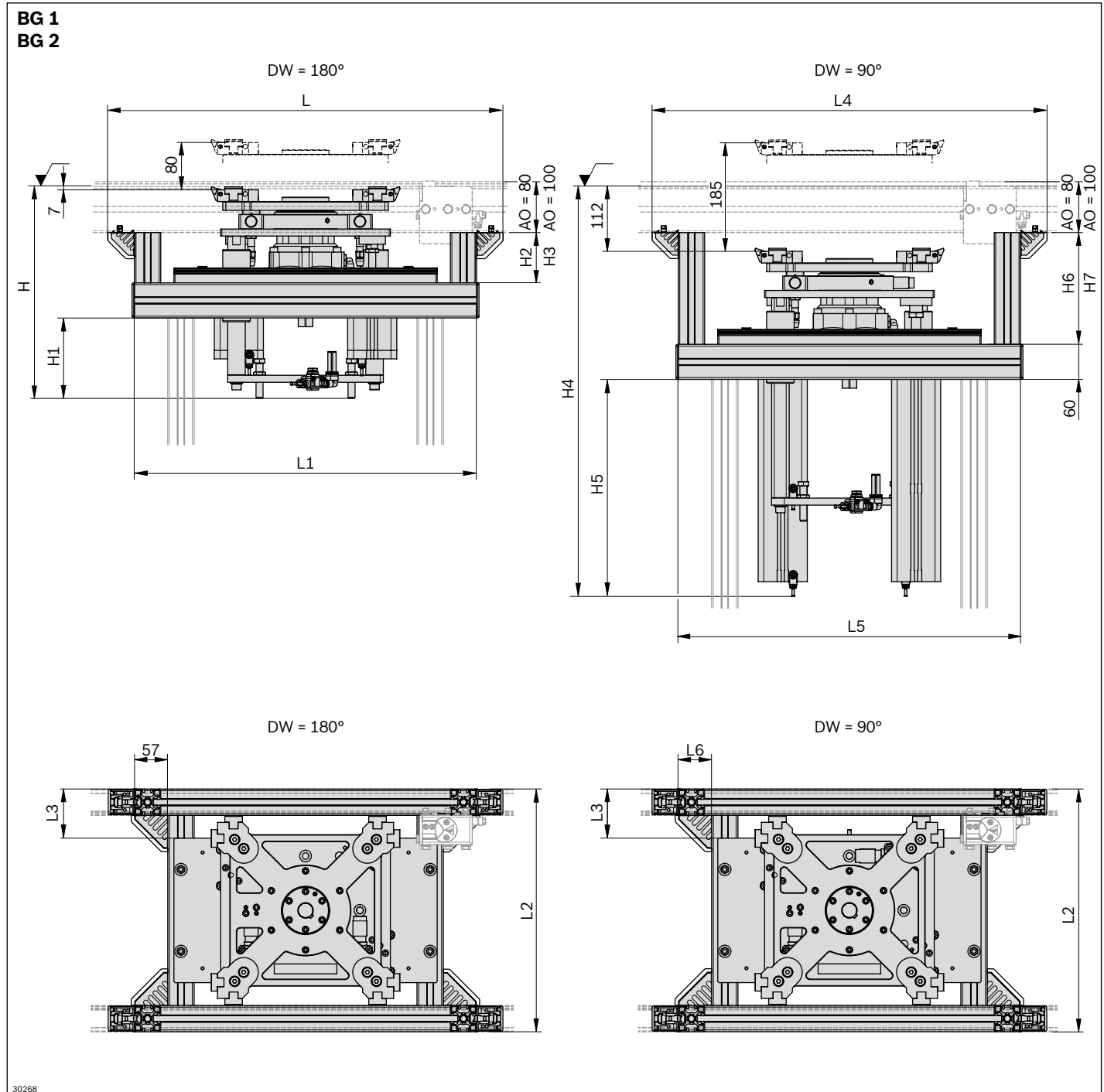


1 Not included in the scope of delivery



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Dimensions for BG 1 (3842998760, 3842999023)/BG 2 (3842998761, 3842999024)



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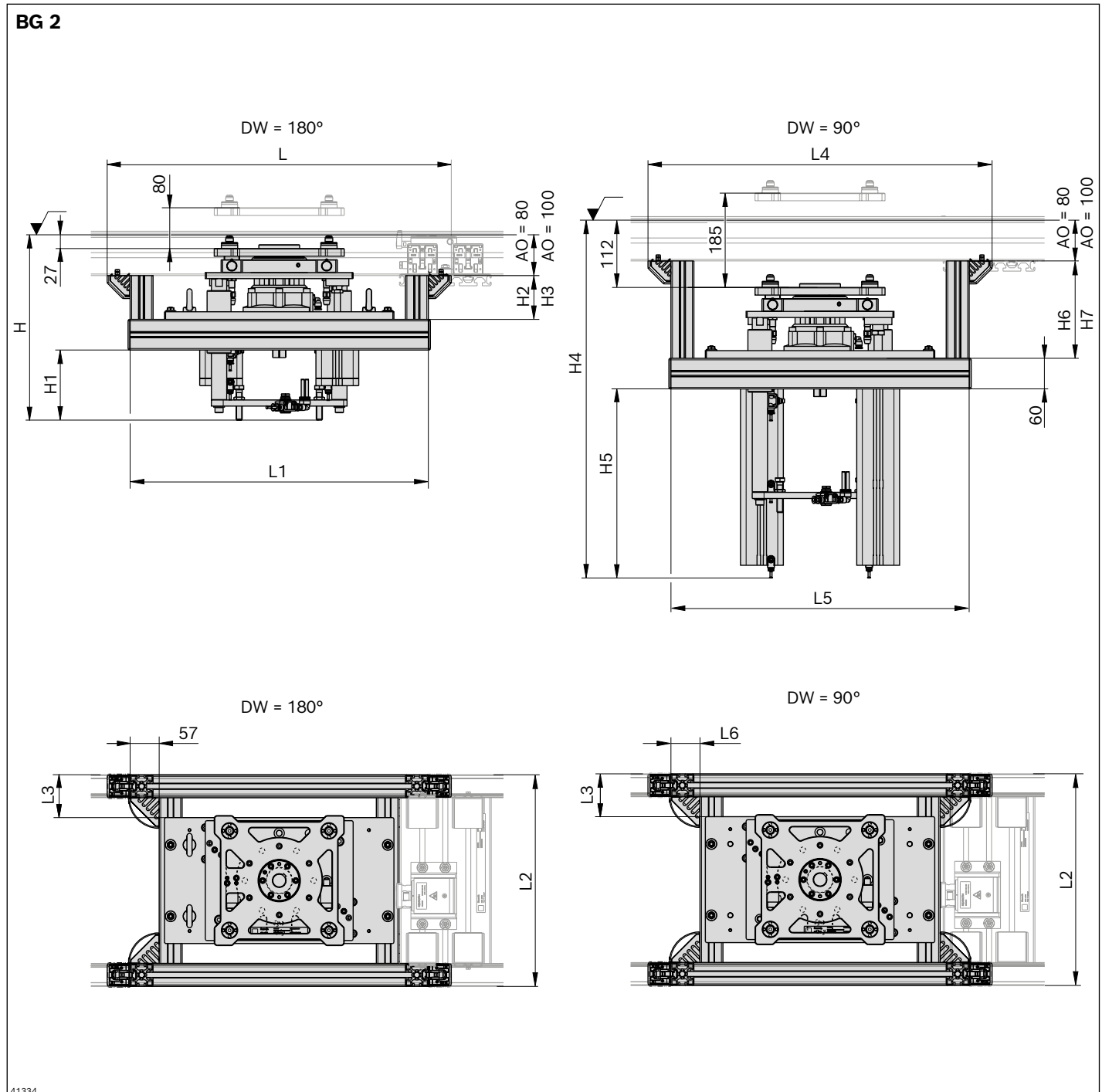
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BG	Width b (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
BG 1	240	336	120	76	56	672	351	181	161	597	507	255	48	597	507	57
BG 1	320	336	120	76	56	672	351	181	161	597	507	335	88	597	507	57
BG 1	400	336	120	76	56	672	351	181	161	597	507	415	128	597	507	57
BG 2	400	364	138	86 ¹⁾ 96 ²⁾	66 ¹⁾ 75 ²⁾	702	371	191 ¹⁾ 200 ²⁾	171 ¹⁾ 180 ²⁾	675	585	415	84	675	585	57
BG 2	480	364	138	86 ¹⁾ 96 ²⁾	66 ¹⁾ 75 ²⁾	702	371	191 ¹⁾ 200 ²⁾	171 ¹⁾ 180 ²⁾	675	585	495	124	675	585	57
BG 2	640	364	138	86 ¹⁾ 96 ²⁾	66 ¹⁾ 75 ²⁾	702	371	191 ¹⁾ 200 ²⁾	171 ¹⁾ 180 ²⁾	675	585	655	204	725	635	82
BG 2	800	364	138	86 ¹⁾ 96 ²⁾	66 ¹⁾ 75 ²⁾	702	371	191 ¹⁾ 200 ²⁾	171 ¹⁾ 180 ²⁾	675	585	815	284	725	635	82

1) Only for Lift rotary unit HD 2/H (3842998761)

2) Only for Lift rotary unit HD 2/H LS (3842999024)

Dimensions for BG 2 (3842994229)

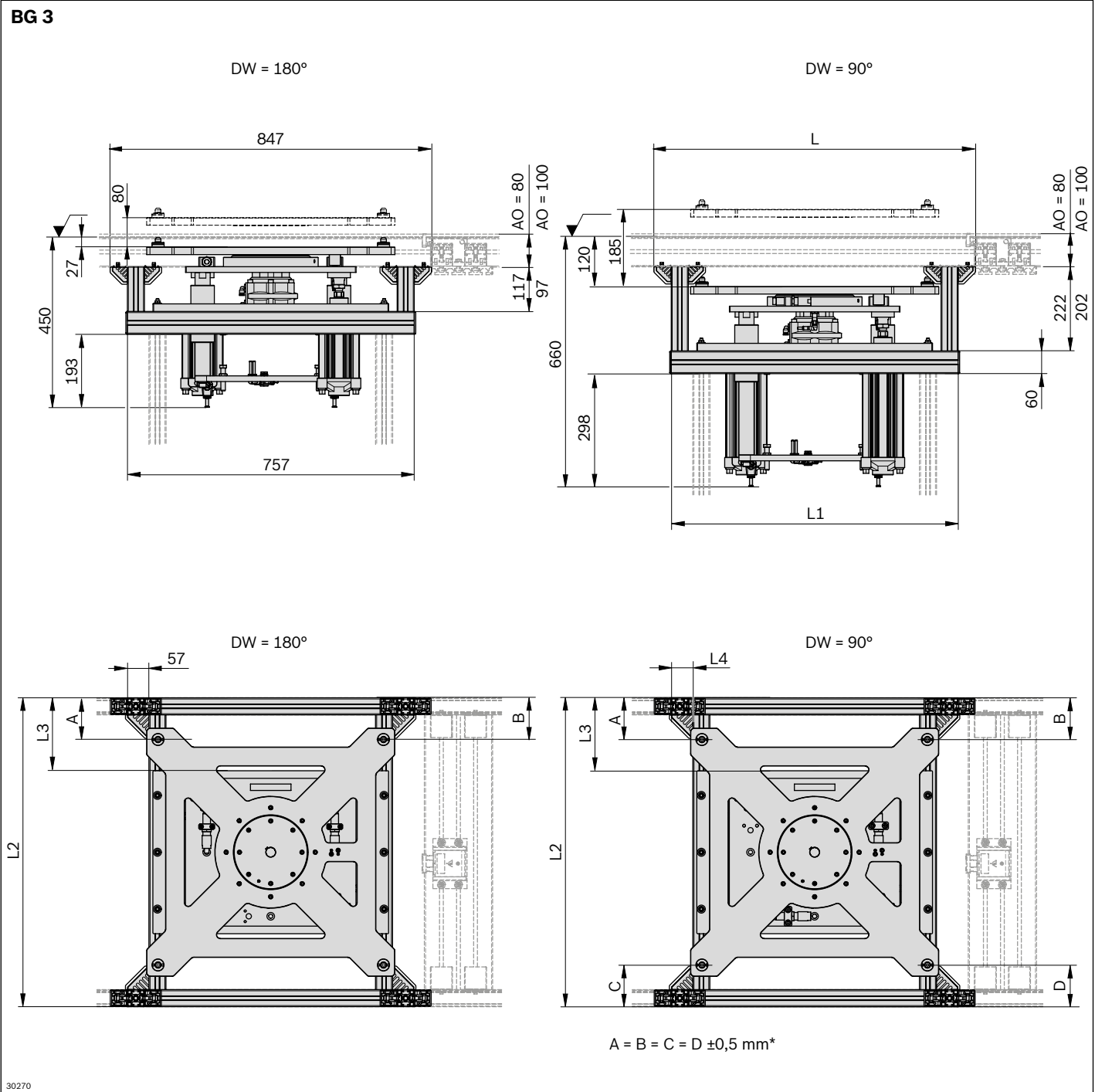


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BG	Width b (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
BG 2	400	364	138	86	66	702	371	191	171	675	585	415	84	675	585	57
BG 2	480	364	138	86	66	702	371	191	171	675	585	495	124	675	585	57
BG 2	640	364	138	86	66	702	371	191	171	675	585	655	204	725	635	82
BG 2	800	364	138	86	66	702	371	191	171	675	585	815	284	725	635	82

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Dimensions for BG3 (3842998762)



* Rotation angle setting

BG	Width b (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
BG 3	800	847	757	815	193	57
BG 3	1040	1040	950	1055	313	154
BG 3	1200	1190	1100	1215	393	229

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