Strain Wave Gear KBG-MC Series Box Unit
Motor shaft closed flexspline

Advantages

- High positioning and rotational accuracy
- High repeatability accuracy
- High torque
- Super compact design
- Backlash free
- Long service life
- High torsional stiffness
- High efficiency
- Simple installation
- Flexible for application design

Main Applications

- Robots
- High Precision Tooling Machine
- High Precision Testing Equipment
- Medical Equipment
- Optical Equipment
- Analytical and Testing Equipment
- Semiconductor Manufacturing Systems
- Packing Machines

Ordering Code

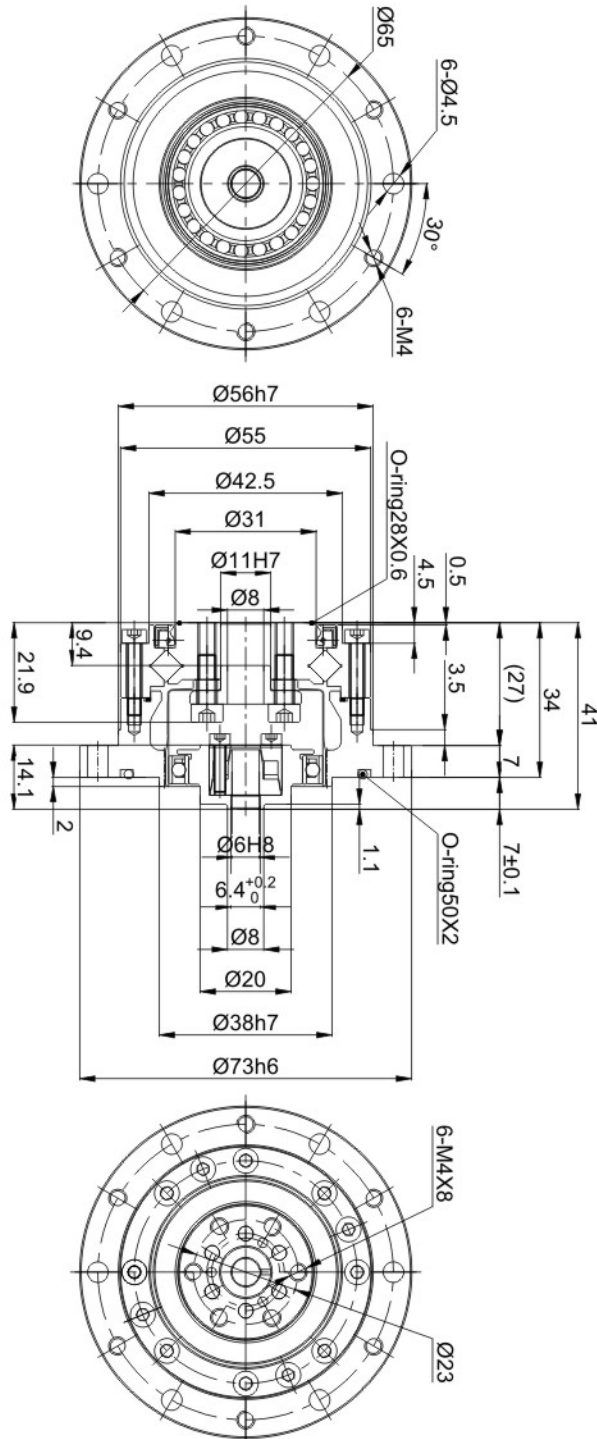| Gear Series	Transmission Type	Gear Size	Ratios					Special Design
		14	50	80	100			
		17	50	80	100	120		
		20	50	80	100	120	160	
KBG	MC	25	50	80	100	120	160	as per customers' special requirements
		32	50	80	100	120	160	
		40	50	80	100	120	160	
		45	50	80	100	120	160	
		50		80	100	120	160	
Ordering Code								
KBG-MC	–	25	–		100		–	SP

Technical Specifications

Series	Size	Ratio	Max Output Torque	Average Output Torque	Rated Output Toruqe at rated speed 2000 rpm	Emergency Stop Torque	Max Input Speed	Average Input Speed	Moment of Inertia	Weight
			Nm	Nm	Nm	Nm	rpm	rpm	kgm²	kg
KBG-MC	14	50	23	9	7	46	8500	3500	0.27×10^{-5}	0.49
		80	30	14	10	58				
		100	36	14	10	58				
	17	50	44	34	21	91	7300	3500	0.66×10^{-5}	0.62
		80	56	35	29	109				
		100	70	51	31	109				
		120	70	51	31	109				
	20	50	73	44	33	127	6500	3500	0.16×10^{-4}	0.89
		80	96	61	44	165				
		100	107	64	52	191				
		120	113	64	52	191				
		160	120	64	52	191				
	25	50	127	72	51	242	5600	3500	0.36×10^{-4}	1.39
		80	178	113	82	332				
		100	204	140	87	369				
		120	217	140	87	395				
		160	229	140	87	408				
	32	50	281	140	99	497	4800	3500	1.35×10^{-4}	3.02
		80	395	217	153	738				
		100	433	281	178	841				
		120	459	281	178	842				
		160	484	281	178	842				
	40	50	523	255	178	892	4000	3000	4.5×10^{-4}	4.95
		80	675	369	268	1270				
		100	738	484	345	1400				
		120	802	586	382	1510				
		160	841	586	382	1510				
	45	50	650	346	229	1235	4500	2500	13.8×10^{-4}	10.1
		80	920	511	410	1652				
		100	980	650	462	2040				
		120	1060	811	520	2255				
		160	1150	811	521	2256				
	50	80	1220	675	485	2420	4500	2500	57.2×10^{-4}	14.5
		100	1301	870	611	2788				
		120	1410	1041	691	2678				
		160	1542	1101	692	3120				

Strain Wave Gear KBG-MC Series Simplicity Box
Motor shaft closed flexspline

Gear Dimensions

Box Unit KBG-MC-14

Box Unit KBG-MC-17

Ø71

6-Ø4.5

30°

6-M4

Ø63h7
Ø62
Ø49.5
Ø38
Ø10H7
Ø7
O-ring34X1
4.5
0.5
9.5
23
(29)
37
45
4
8
15.6
1.5
Ø8H8
Ø9.1 +0.2 0
O-ring55X2
2.6
8±0.1
Ø10
Ø24
Ø48h6
Ø79h6

6-M5X10

Ø27

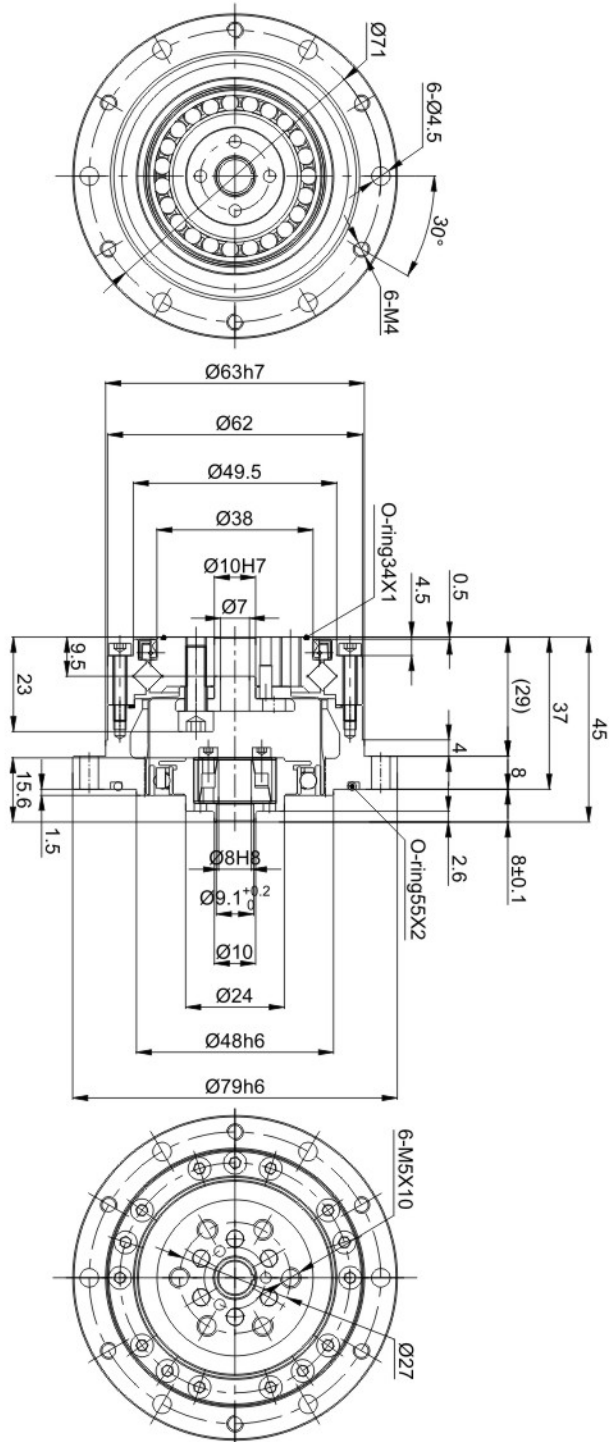# Gear Dimensions

Box Unit KBG-MC-20

Box Unit KBG-MC-25

Gear Dimensions

Box Unit KBG-MC-32

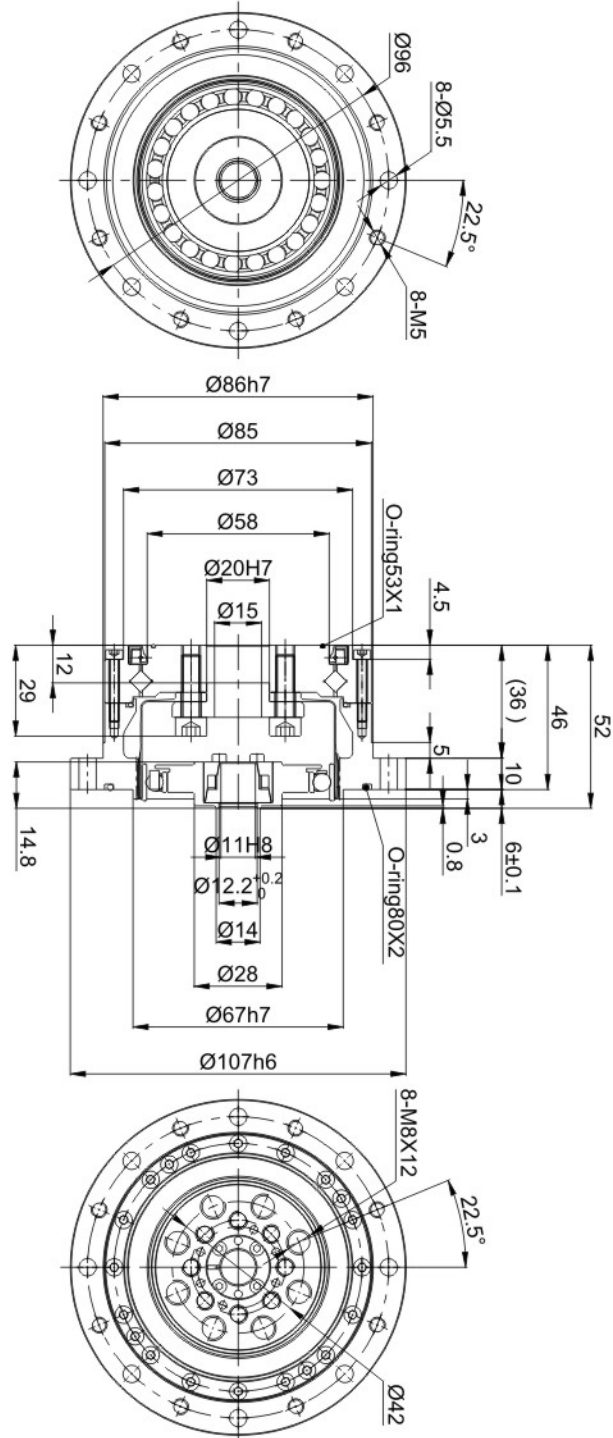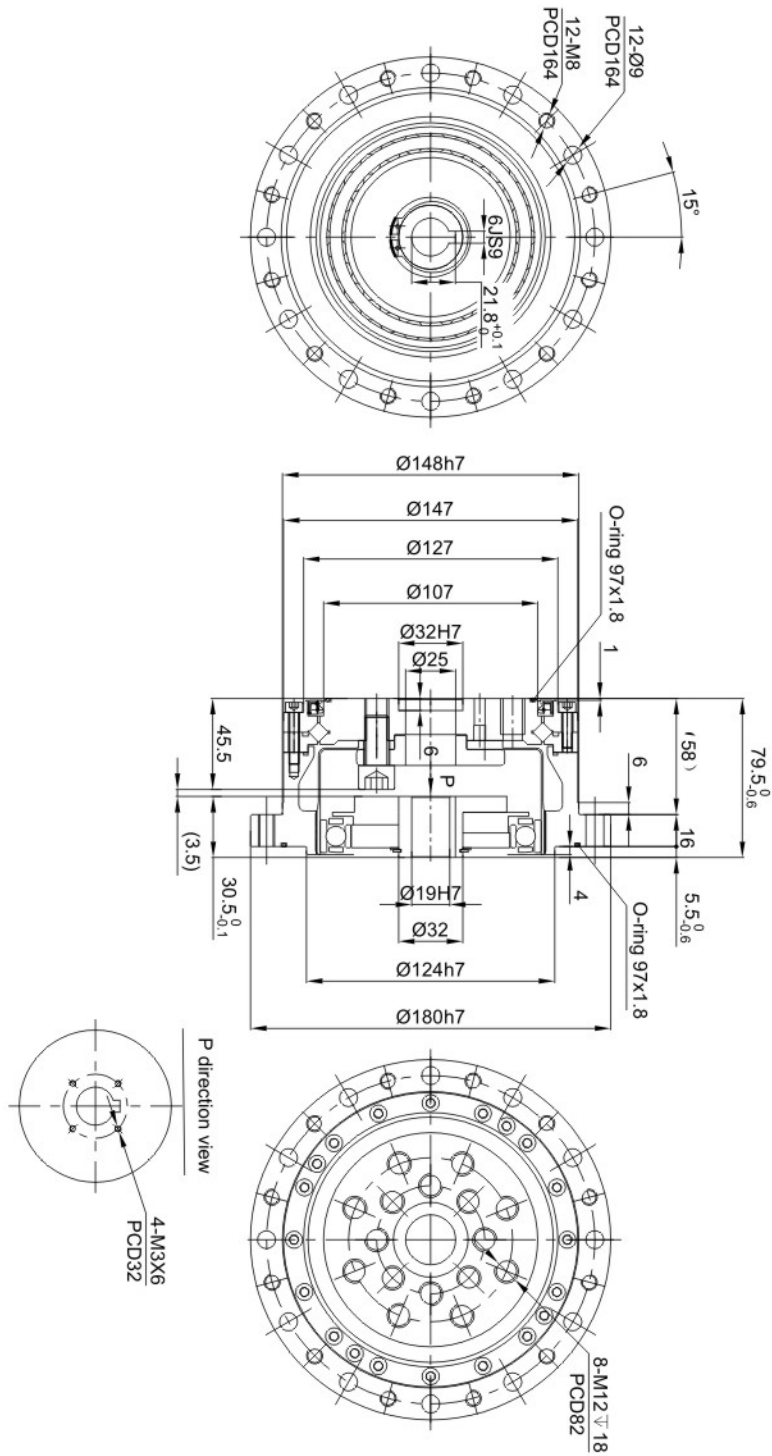Strain Wave Gear KBG-MC Series Simplicity Box
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Box Unit KBG-MC-40

Gear Dimensions

Box Unit KBG-MC-45

105

Box Unit KBG-MC-50

Technical Memo

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Technical Memo

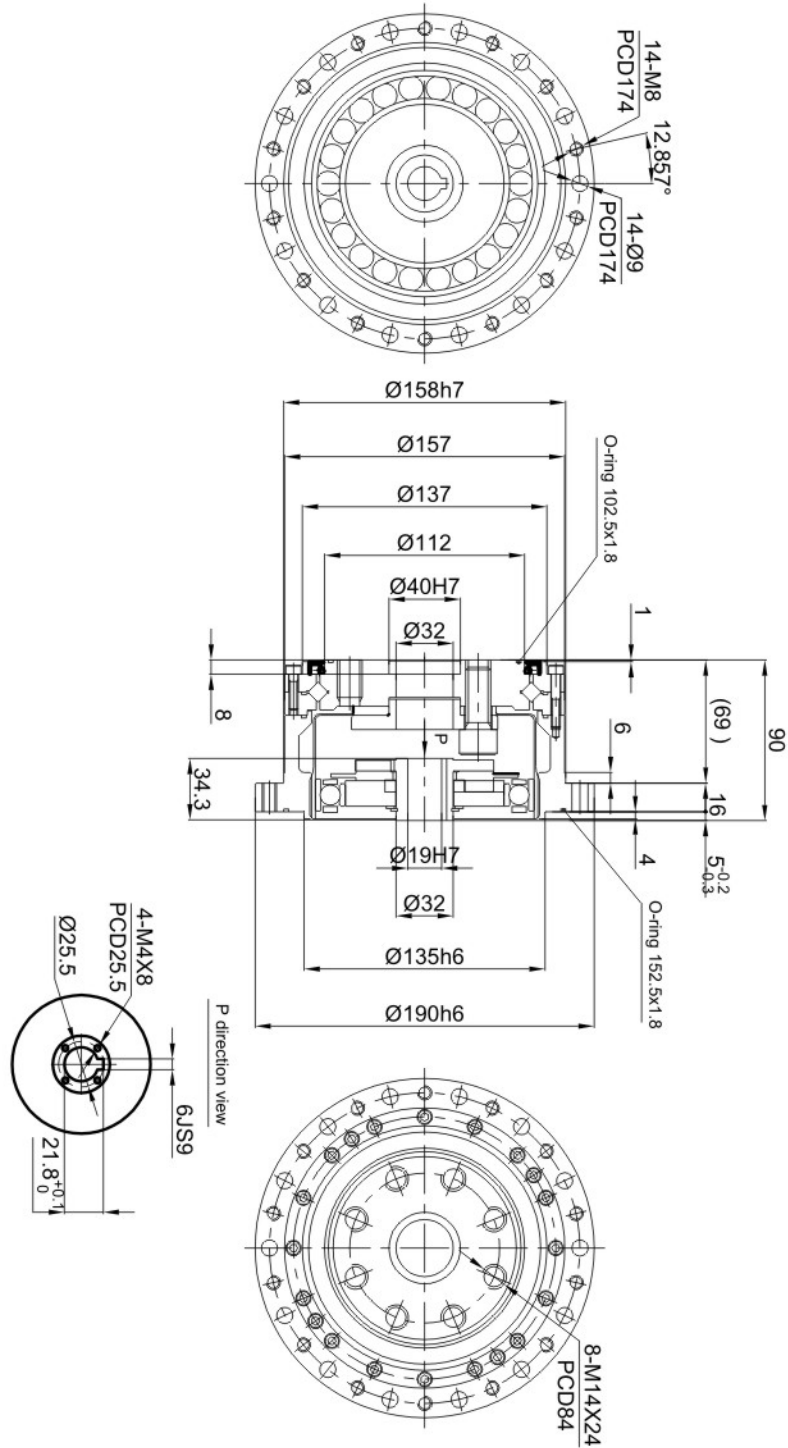Strain Wave Gear KBG-MC Series Simplicity Box
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