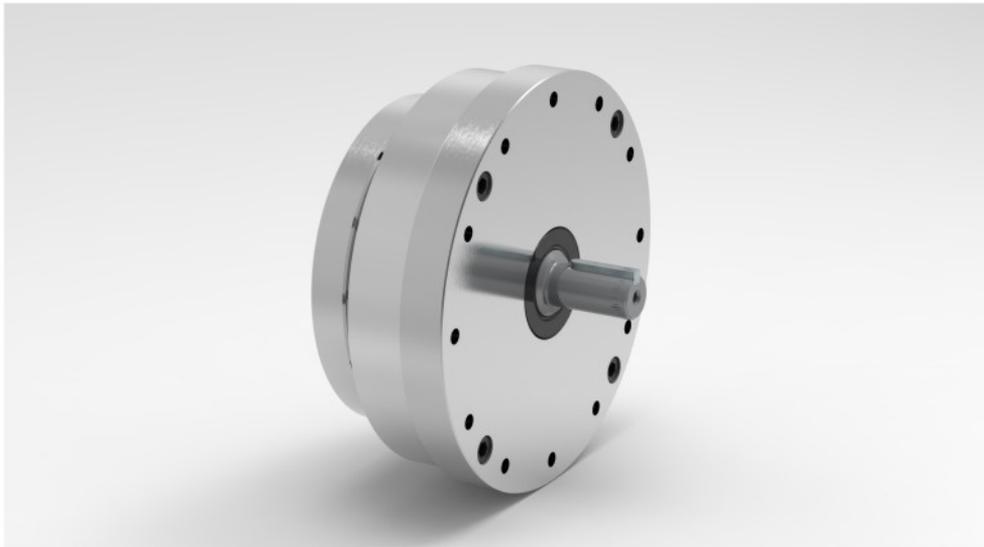


Strain Wave Gear KBG-SO Series Box Unit Solid Shaft Open Flexspline



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
KBG	SO	14	50	80	100			as per customers' special requirements
		17	50	80	100	120		
		20	50	80	100	120	160	
		25	50	80	100	120	160	
		32	50	80	100	120	160	
		40	50	80	100	120	160	
Ordering Code								
KBG-SO		-	25	-	100		-	SP

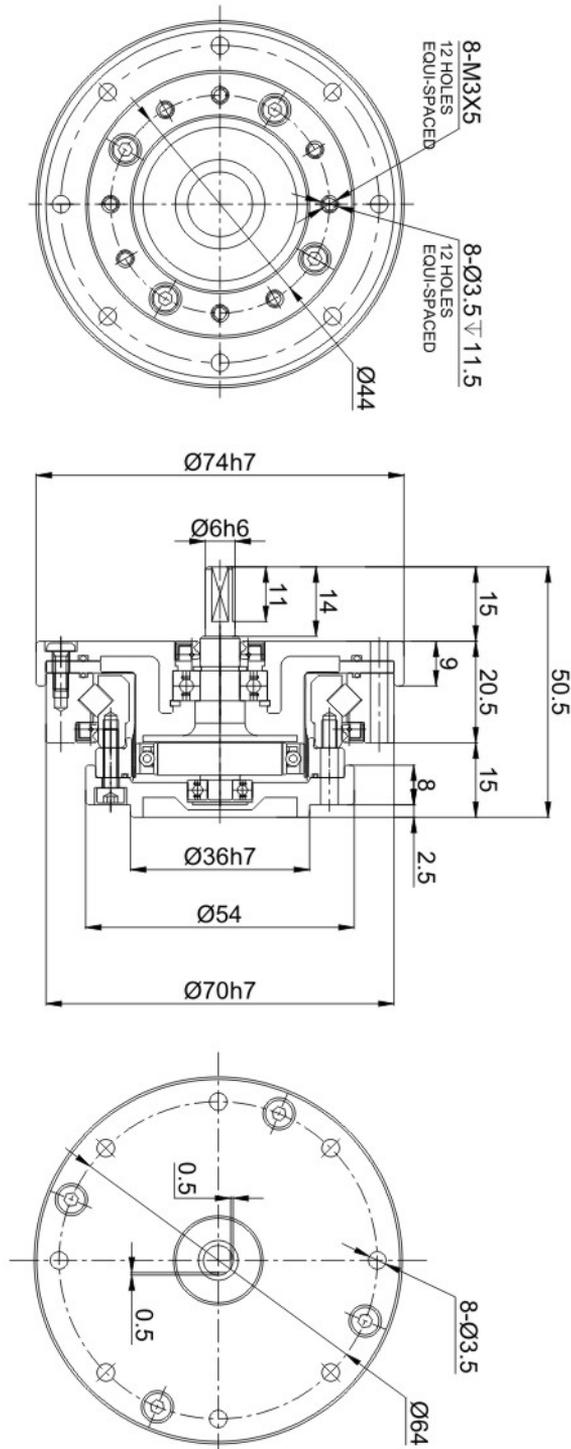
Technical Specifications

Series	Size	Ratio	Max Output Torque	Average Output Torque	Rated Output Torque at rated speed 2000 rpm	Emergency Stop Torque	Max Input Speed	Average Input Speed	Moment of Inertia	Weight
			Nm	Nm	Nm	Nm	rpm	rpm	kgm ²	kg
KBG-SO	14	50	23	9	7	46	8500	3500	0.25x10 ⁻⁵	0.49
		80	30	14	10	61				
		100	36	14	10	70				
	17	50	44	34	21	91	7300	3500	0.59x10 ⁻⁵	0.62
		80	56	35	29	113				
		100	70	51	31	143				
		120	70	51	31	112				
	20	50	73	44	33	127	6500	3500	0.14x10 ⁻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	0.32x10 ⁻⁴	1.39
		80	178	113	82	332				
		100	204	140	87	369				
		120	217	140	87	395				
	32	50	281	140	99	497	4800	3500	1.20x10 ⁻⁴	3.02
		80	395	217	153	738				
		100	433	281	178	841				
		120	459	281	178	892				
		160	484	281	178	892				
	40	50	523	255	178	892	4000	3000	3.41x10 ⁻⁴	4.95
		80	675	369	268	1270				
		100	738	484	345	1400				
120		802	586	382	1530					
160		841	586	382	1530					

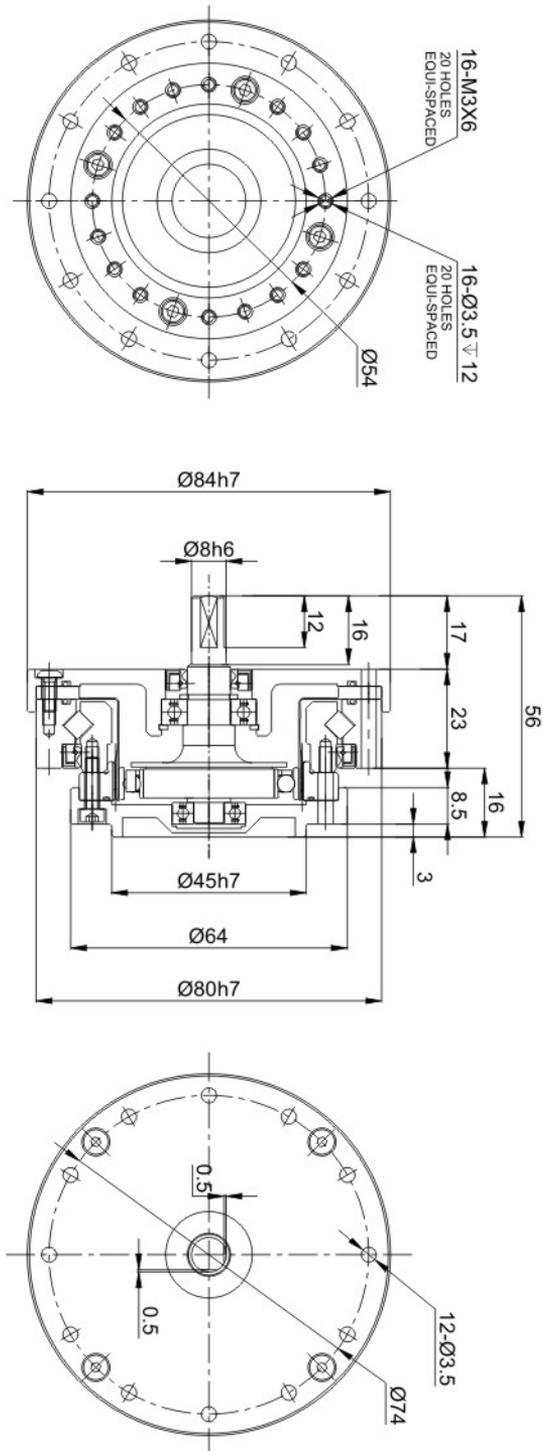
Strain Wave Gear KBG-SO Series Simplicity Box Solid Shaft Open Flexspline

Gear Dimensions

Box Unit KBG-SO-14

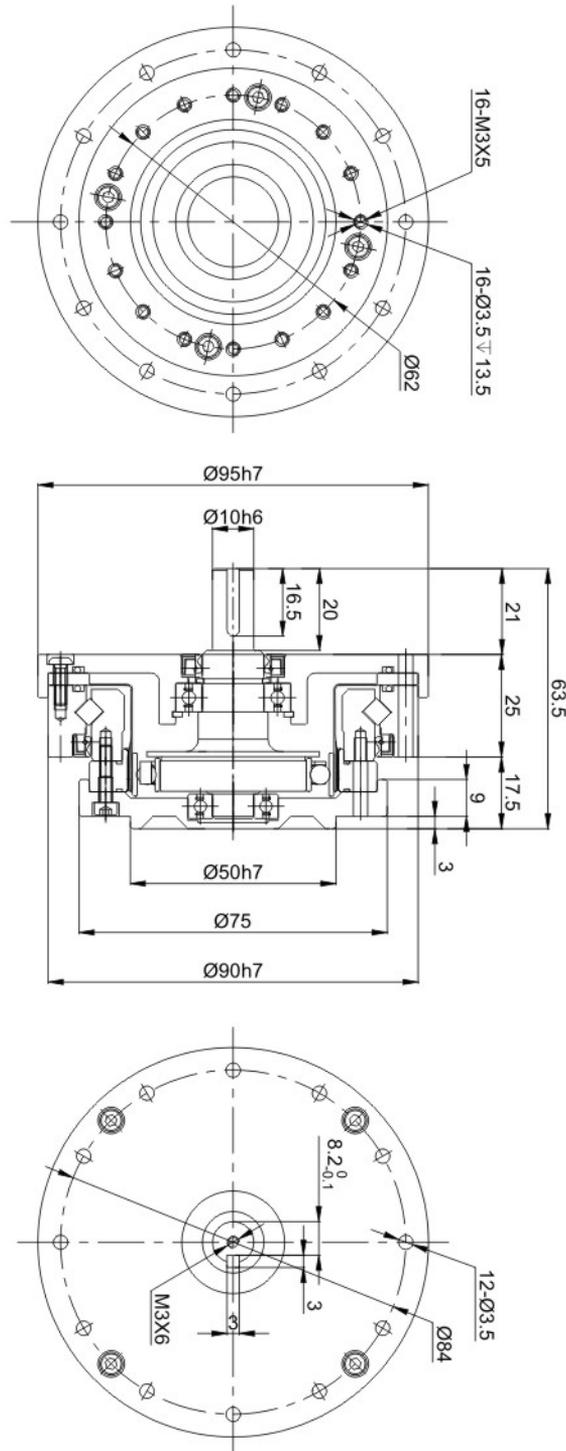


Box Unit KBG-SO-17

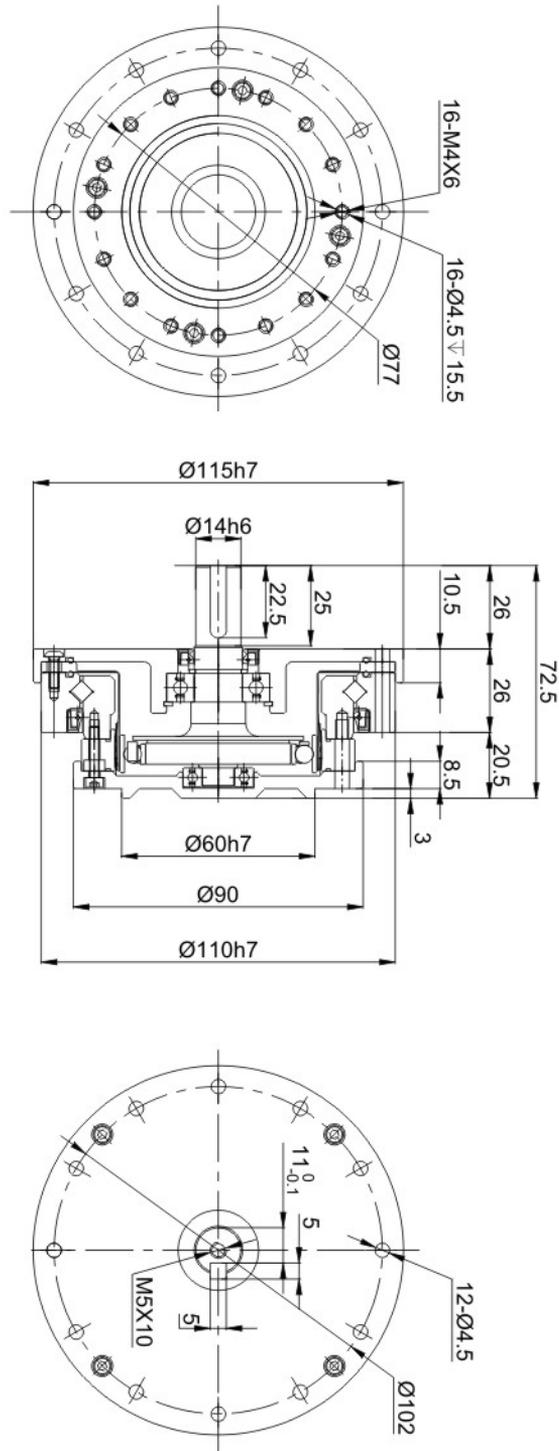


Gear Dimensions

Box Unit KBG-SO-20

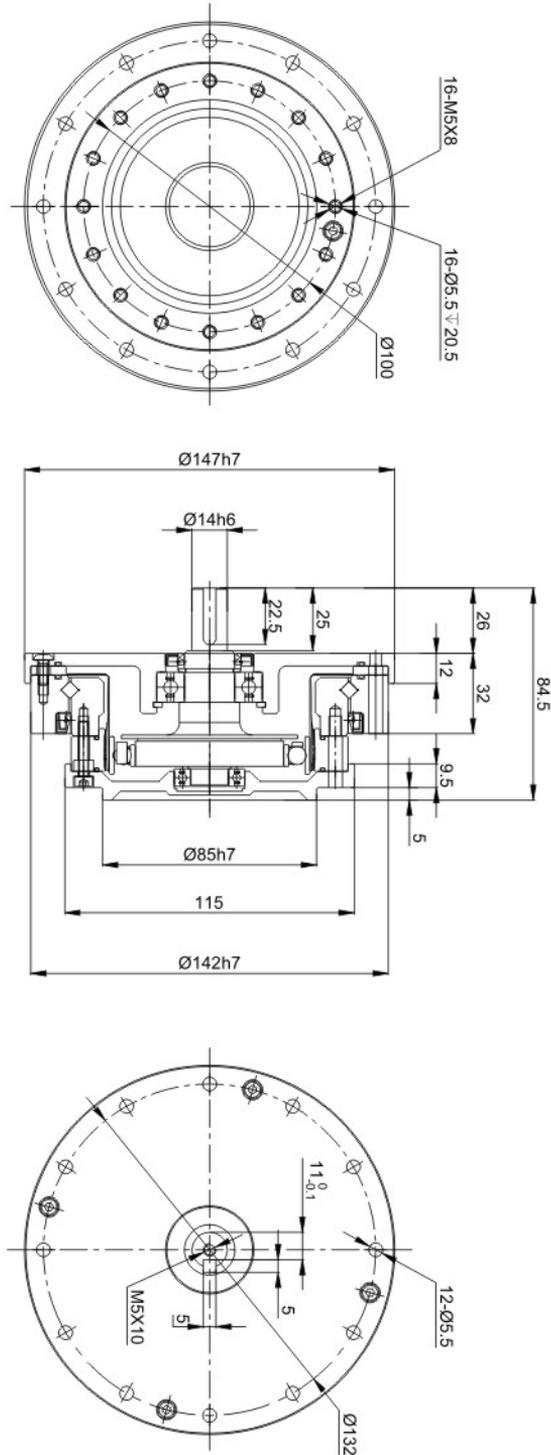


Box Unit KBG-SO-25

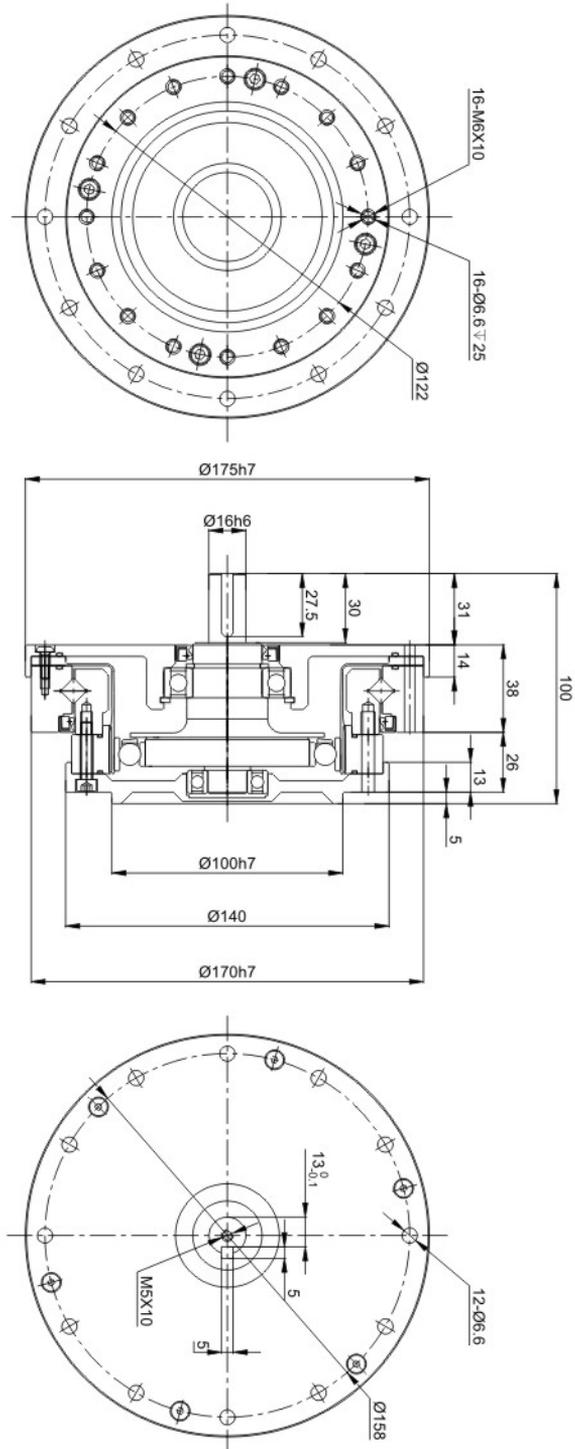


Gear Dimensions

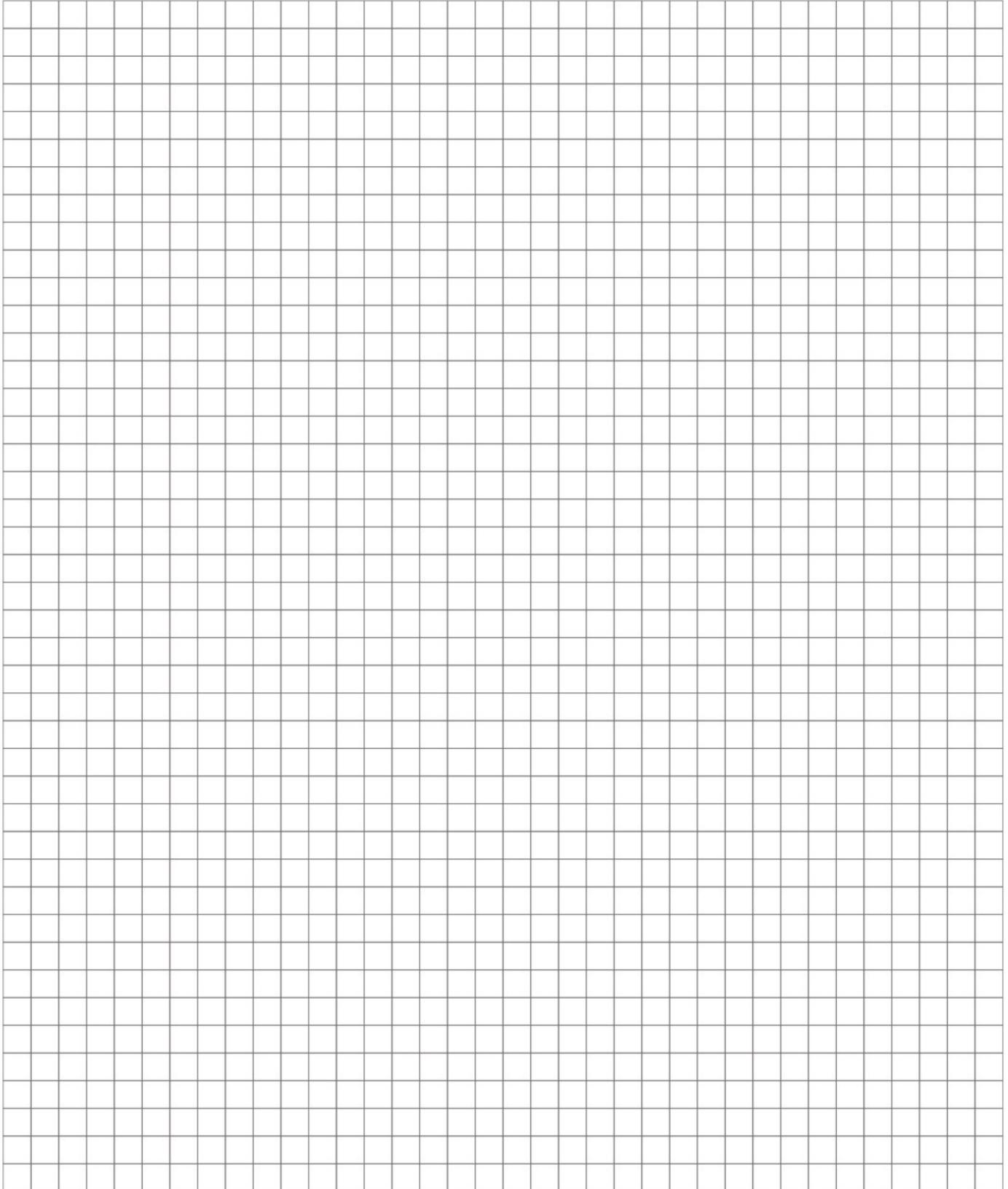
Box Unit KBG-SO-32



Box Unit KBG-SO-40



Technical Memo



Strain Wave Gear KBG-SO Series Simplicity Box
Solid Shaft Open Flexspline