



Professional Linear Motion Solutions Provider



SJV Series Spiral Bevel Gearbox

Selection
Guidance

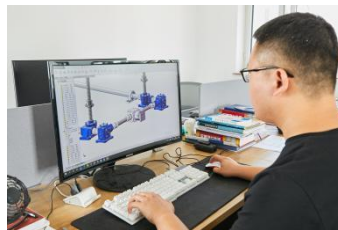


Company Profile

SIJIE is the leading developer and manufacturer of premium, high precision linear motion products in China. Established in 2008, we specialize in screw jack systems, bevel gearboxes and electro-mechanical actuation, lifting and positioning. Our engineers expertly develop bespoke solutions with both flexibility and innovation in mind, enabling us to provide products for the most challenging applications.

Our state-of-the-art factory, boasting 9500m² of floor space, is equipped with a series of advanced processing machines allowing our engineers to develop solutions for both small businesses and multinational organisations. SIJIE'S efficient, skilled team offer technical guidance and quality support, guaranteeing our customers' vision is always achieved.

Our mission is simple. To provide high-quality linear motion products, while consistently offering an unmatched customer service to always exceed customer expectations.



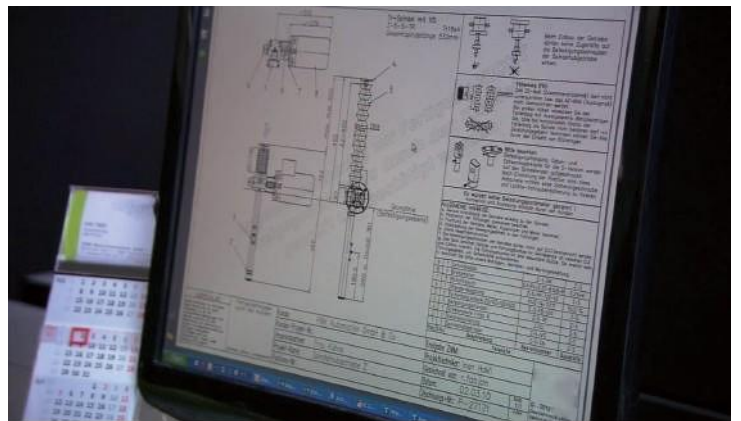
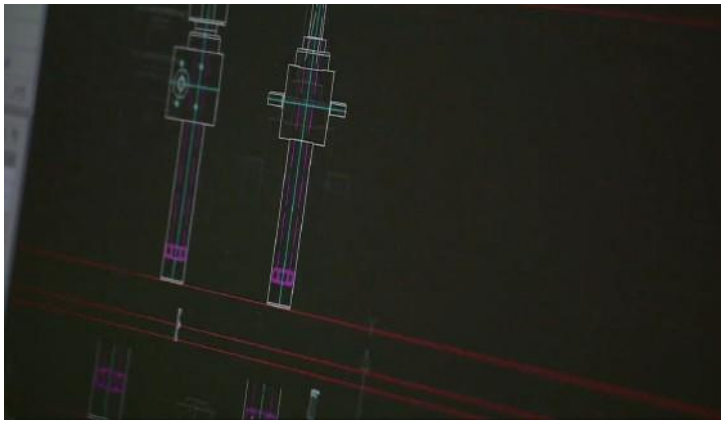
Creating the high-quality product

Focus on details

SIJIE designs spiral bevel gearbox which provides rugged, reliable and high performance.

Our engineers expertly develop bespoke solutions with both flexibility and innovation in mind, enabling us to provide products for the most challenging applications.

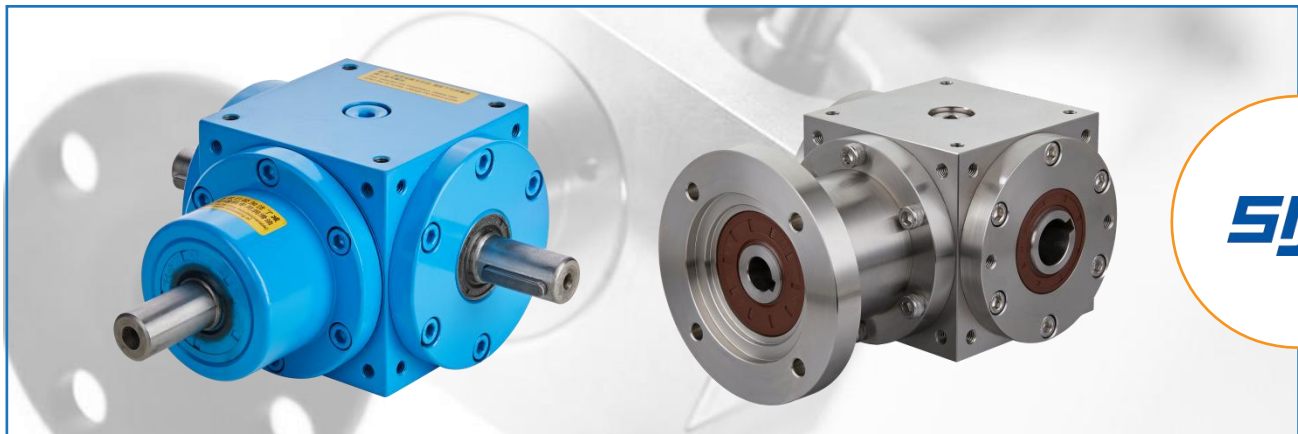
SIJIE offers the perfect balance of service, cost, performance and quality.



Product Introduction

Description

SIJIE SJV series spiral bevel gearboxes are offered in 8 types of housing sizes and 6 types of gear ratios, which can be constructed with lots of shaft configurations and oriented in any direction to easily integrate into your machine design. All the shaft configurations are suitable for Casting iron, stainless steel, and aluminum version bevel gearboxes.



Key Features

Low Backlash: Hardened and lapped matched set gearing provides smooth, reliable, and predictable rotary motion.

Flexible Mounting: This stainless steel right-angle gearbox has machined housing and tapped holes allow mounting on all six sides.

Machined Flanges: Provides alignment for perfect shaft centering. Alloy steel input shafts.

Bearing Options: Ball bearings for quiet operation, tapered bearings for higher radial load capacity.

Special Designs: Standard models can be modified for maximum design versatility, OEM/ODM dimensions are available.

Gear Ratio: 1:1, 2:1, 3:1, 4:1, 5:1. 98% efficiency. Torque capacity up to 1299Nm.

Oil Seal Option: Double Lip, UV-protected oil seal to prevent external contamination.

Speed Options: Standard not more than 2000rpm, special for 3000-3500rpm.

Application Range

SIJIE's SJV series bevel gearbox provides rugged, reliable and high performance, offering tailored solutions to all our customers for many industrial applications.

Our bevel gearboxes are widely used for Food Industry, Transportation Industry, Industrial Automation, Energy Industry. We are happy to work with our customers to explore the application of bevel gearboxes in more industries.



SIJV Series Specifications

Model	Input Speed (rpm)	Gear Ratio 1:1		Gear Ratio 2:1		Gear Ratio 3:1		Gear Ratio 4:1		Gear Ratio 5:1	
		Power	Torque	Power	Torque	Power	Torque	Power	Torque	Power	Torque
		(KW)	(N.m)	(KW)	(N.m)	(KW)	(N.m)	(KW)	(N.m)	(KW)	(N.m)
SIJV090	2000	7.55	33.6	4.2	38.57	2.85	40.39	2.15	39.76	1.4	34.56
	1500	6	38.2	3.35	42.66	2.2	42.02	1.65	42.02	1.1	35.02
	1000	4.3	41.07	2.35	44.89	1.5	43.02	1.15	43.93	0.75	35.81
	750	3.4	43.29	1.8	45.84	1.2	45.84	0.87	44.19	0.58	36.93
SIJV110	2000	13.8	63	7.9	72	5.6	80	3.75	70.1	2.95	71.3
	1500	11	70	6.3	80.2	4.45	85	2.9	73.9	2.35	74.8
	1000	7.87	75	4.45	85	3.1	88.8	2	76.4	1.6	76.4
	750	6.15	78.3	3.45	87.9	2.4	91.7	1.55	78.9	1.25	79.6
SIJV140	2000	29.9	128.6	14.1	133.3	10.1	136.8	6.8	125.3	5.05	115.2
	1500	23.9	152.2	11.1	141.3	7.95	151.8	5.3	135	3.95	125.7
	1000	17.2	164.3	7.85	149.9	5.6	160.4	3.75	143.3	2.75	131.3
	750	13.4	170.6	6.2	157.9	4.4	168.1	2.95	150.3	2.1	133.7
SIJV170	2000	49.2	180.1	26.2	224.7	18.2	235.2	10.5	179.5	8.05	170.9
	1500	39.3	250.2	20.8	264.9	14.4	275	8.4	213.9	6.45	205.3
	1000	28.8	275	14.9	284.6	10.1	289.4	5.9	225.4	4.5	214.9
	750	22.8	290.3	11.6	295.4	7.8	298	4.55	231.7	3.45	219.7
SIJV210	2000	84	336.7	52.4	480.2	34.9	428.3	23.3	417.6	15.9	350.2
	1500	67.5	429.8	43.2	550.1	27.7	529.1	18.5	471.1	12.7	404.3
	1000	50.5	482.3	31.4	599.7	20	573	13.4	511.9	9	429.8
	750	40.8	519.5	25.2	641.8	15.7	599.7	10.4	529.7	6.95	442.5
SIJV240	2000	111	475.8	71.5	643.7	52.4	695.2	37.7	652.3	28.9	643.8
	1500	90.5	576.2	58.5	744.9	41.9	800.3	30.2	769.1	23.4	744.9
	1000	68	649.4	41.9	800.3	30.2	865.2	21.7	828.9	16.4	783.1
	750	54.5	694	33.8	860.8	23.6	901.5	17.1	871	13	827.7
SIJV280	2000	168	837.5	107	961.4	73	957	47.6	870.4	39.4	890.5
	1500	156	993.2	88	1121	58.5	1117	38.5	980.5	31.4	999.6
	1000	115	1098	64.5	1232	42.4	1215	27.5	1051	22.4	1070
	750	94.2	1199	51	1299	33.5	1280	21.7	1105	17.7	1127

Large Stock for fast delivery

We have large stock of 1:1 and 2:1 gears which can ship out in 5-7 working days.

Please check the delivery time when you order 3:1, 4:1, 5:1 gearbox.

SIJIE SJV Series Spiral Bevel Gearboxes Configuration



- Single output shaft
Ratios from 1:1 to 5:1
Frame sizes from 65 to 280 mm



- Double output shaft
Ratios from 1:1 to 5:1
Frame sizes from 65 to 280 mm



- Four-shaft configuration
Ratios from 1:1 to 5:1
Frame sizes from 65 to 280 mm



- Hollow-shaft configuration
Ratios from 1:1 to 5:1
Frame sizes from 65 to 280 mm



- Solid Shaft+Motor Flange
Ratios from 1:1 to 5:1
Frame sizes from 65 to 280 mm



- Hollow Shaft+Motor Flange
Ratios from 1:1 to 5:1
Frame sizes from 65 to 280 mm



Product selection mark

Ordering information

SJV090 – 1:1 – 1500R – 1500R – M1/I-LR – A
1 2 3 4 5 6

1: Gearbox model(SJV090, SJV110, SJV140, SJV170, SJV210, SJV240, SJV28)

Before selecting SJV gearbox model, please check above SJV Series Bevel Gearbox Specifications.

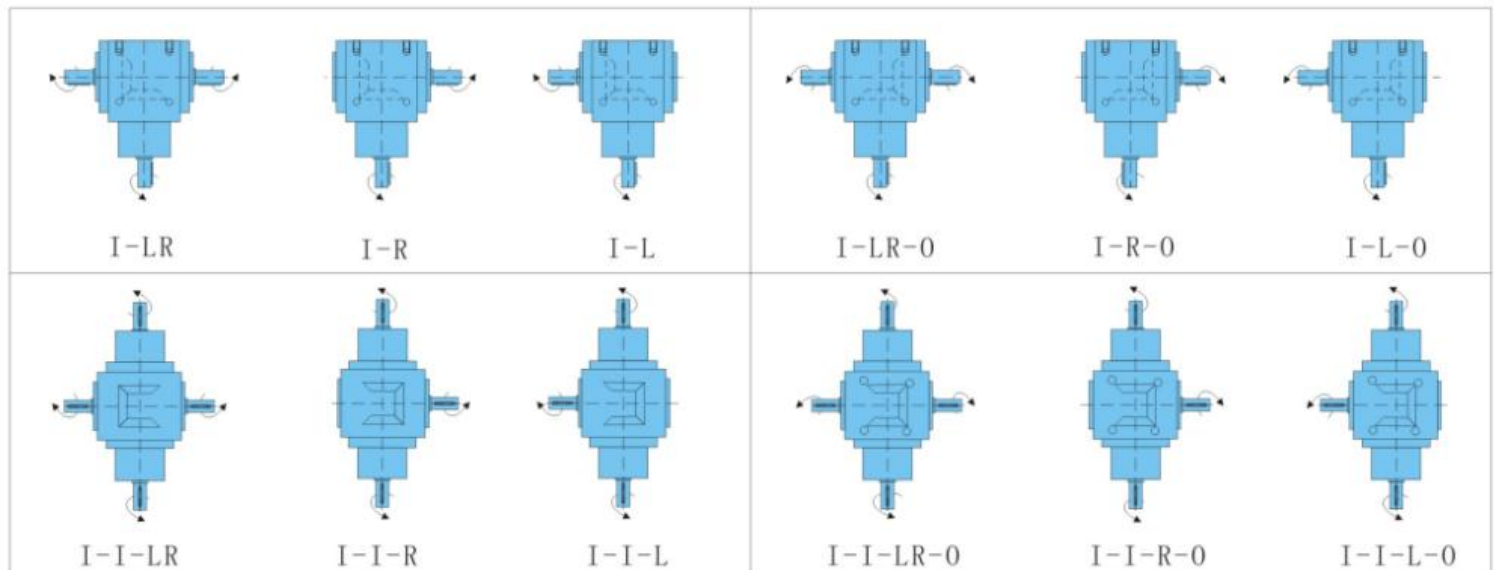
2: Gear Ratio

Gear ratios such as 1:1, 1.5:1, 2:1, 3:1, 4:1, 5:1, custom other gear ratios.

3 & 4: Input & Output RPM

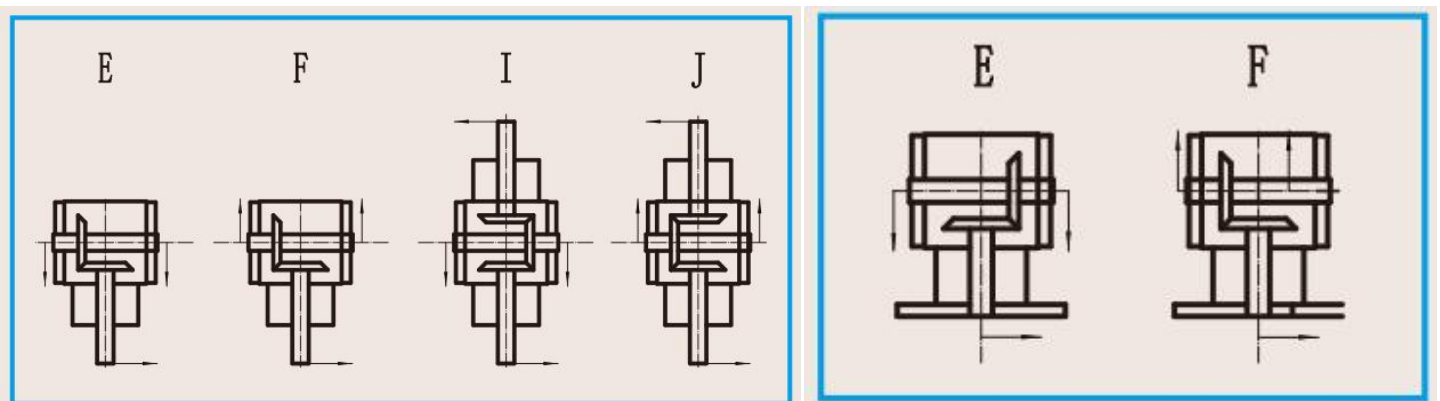
5: Rotate Directions:

Solid Shafts Type: M1

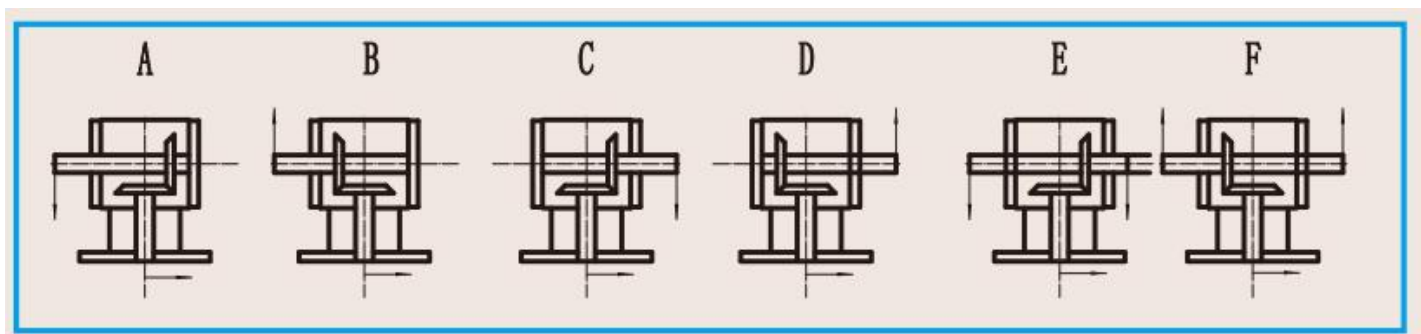


Solid Shaft Input, hollow output: M2

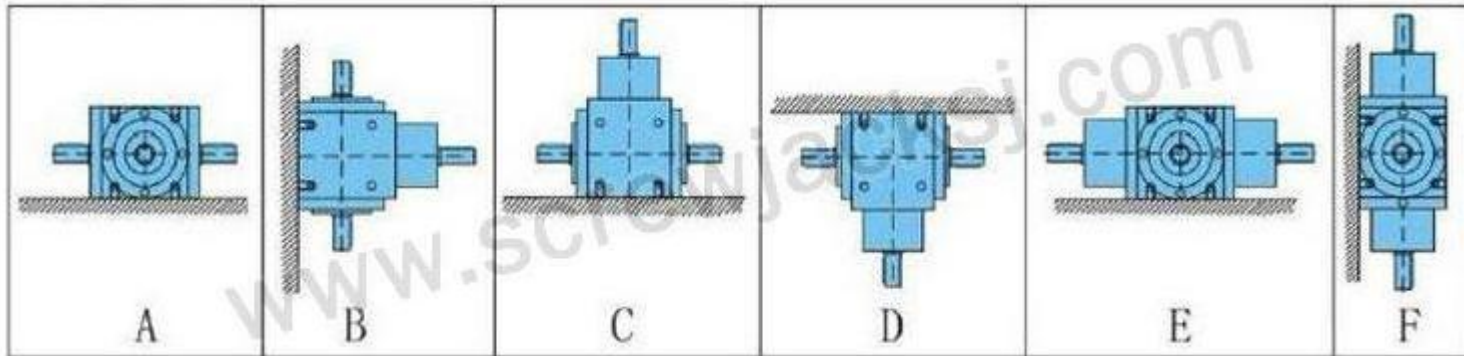
Motor flange Input, hollow output: M3



Motor flange Input, solid output: M4



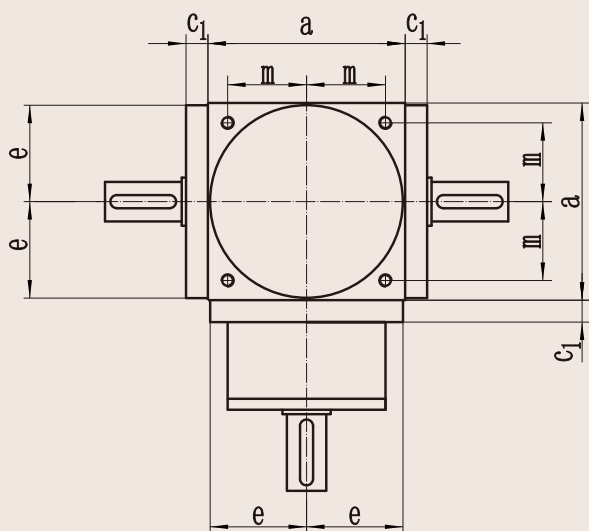
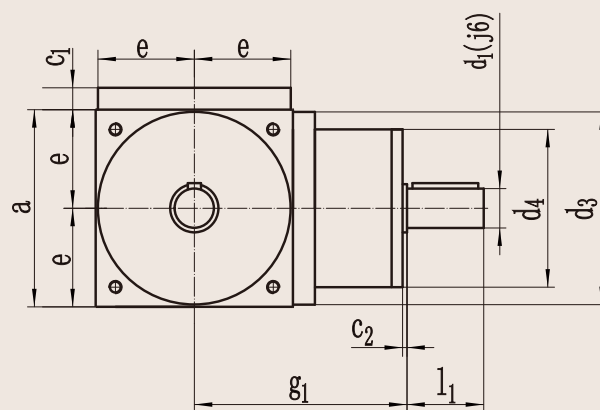
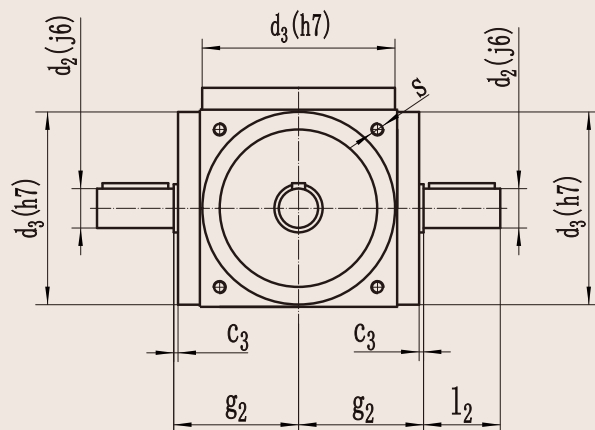
6: Gearbox Installation:



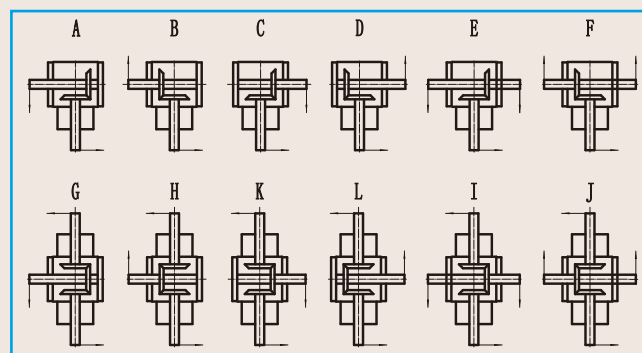
Why SIJIE cubic spiral bevel gearbox?

- 1: High-quality, low Backlash, quiet noise, smooth running, high torque bevel gearbox professional manufacturer since 2008.
- 2: The wide range of bevel gearbox product lines can meet the application needs of customers to the greatest extent.
Gearbox housing size is from 065 to 280. Casting iron, stainless steel, and aluminum version gearboxes can be manufactured according to customers' requirements.
- 3: Strict quality control has been from the beginning to end at SIJIE. All the cubic bevel gearboxes will be tested in our factory according to the more than 30 items checking list before shipping.
- 4: SIJIE cubic type bevel gearbox has 13 months warranty period, during the warranty period, any problem with "SIJIE" products, after we confirmed, we will guide the customer to fix or ship a new one to replace it in 1-3 working days.
- 5: SIJIE kept a large inventory of cubic spiral bevel gearbox parts to make sure all the standard orders can be shipped in 7 working days.
- 6: Our Experienced Engineer Team can design the bevel gearbox drawings to fit all your demands in 2 hours. Small-quantity OEM/ODM orders also can be accepted by SIJIE.



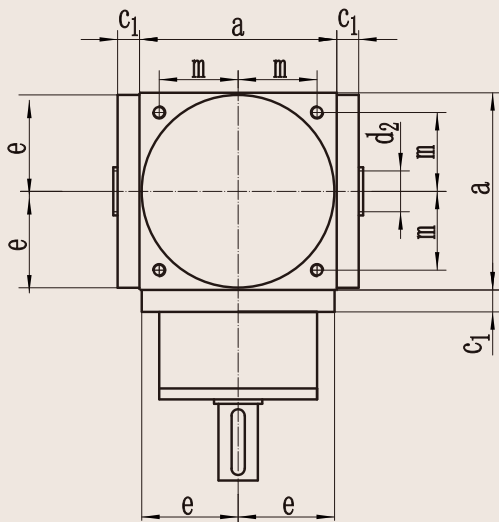
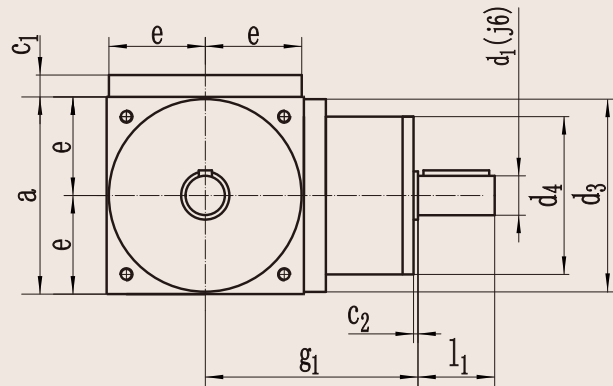
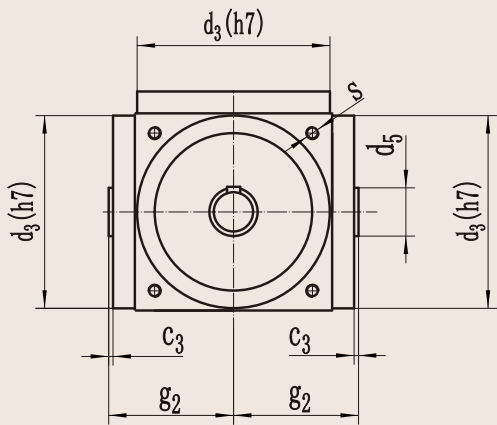
SJV090- SJV280 (i=1~5) Solid Shafts Type


Assembly forms

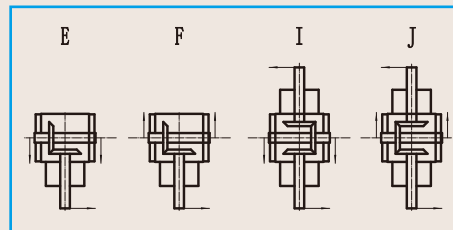


Model	a	c1	c2	c3	d2	l2	d3	e	g1	g2	m	s	i=1		i=1.5		i=2		i=3		i=4		i=5		i=1~3		i=4~5		Weight	Oil
													d1	l1	d1	l1	d1	l1	d1	l1	d1	l1	d1	l1	d4	d4	Kg	L		
09	90	12	2	2	18	35	88	45	97	59	36	M6	18	35	18	35	18	35	16	30	11	23	11	23	72	62	6	0.2		
11	110	12	2	2	22	40	108	55	112	69	44	M8	22	40	22	40	22	40	20	35	16	30	14	25	81	72	10	0.3		
14	140	12	2	2	32	50	135	70	132	84	55	M10	32	50	32	50	32	50	26	45	20	35	16	30	98	81	20	0.4		
17	170	15	2	3	40	60	165	85	158	103	67	M12	40	60	40	60	40	60	32	50	26	45	22	40	118	98	32	1		
21	210	18	2	2	45	70	205	105	195	125	85	M16	45	70	45	70	45	70	38	55	32	50	30	50	128	110	60	2		
24	240	18	2	2	55	85	235	120	220	140	95	M16	55	85	55	85	55	85	45	70	38	55	35	55	138	120	75	2.5		
28	280	18	2	2	60	110	275	140	255	160	100	M16	60	110	60	110	60	110	50	80	45	70	42	70	150	135	115	3		

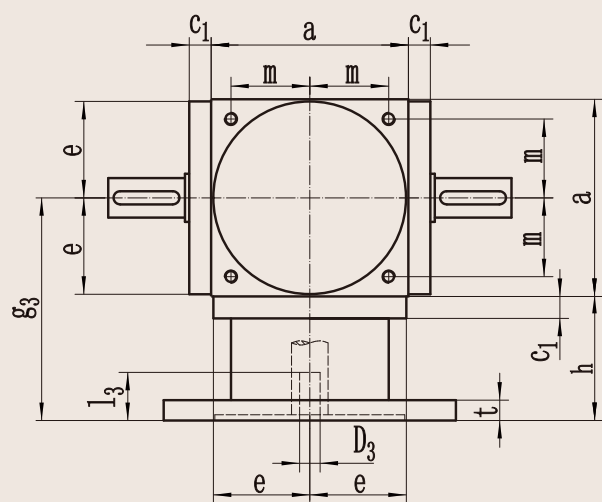
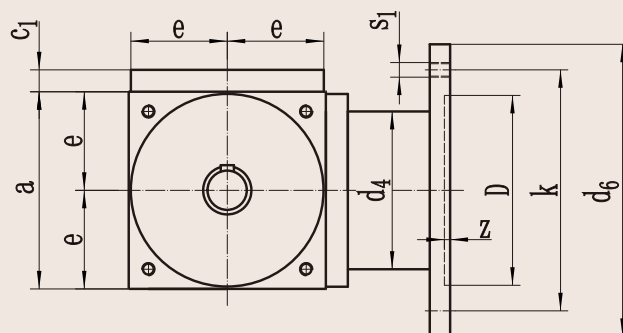
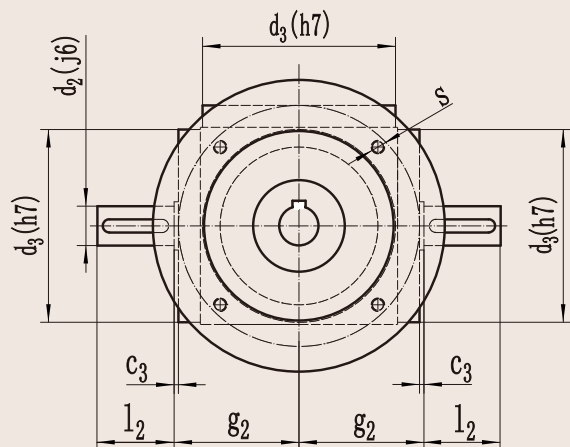
SJV090-SJV280(i=1~5)Input Solid + Output Hollow



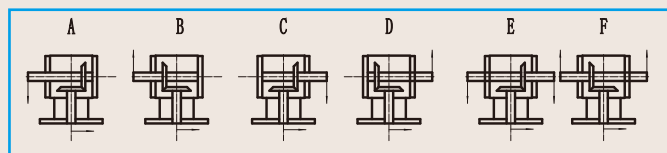
Assembly forms



Model	a	c1	c2	c3	d2	d5	d3	e	g1	g2	m	s	i=1~2		i=3		i=4		i=5		i=1~3		i=4~5		Weight Kg	Oil L
													d1	l1	d1	l1	d1	l1	d1	l1	d4		d4			
09	90	12	2	2	18	25	88	45	97	59	36	M6	18	35	16	30	11	23	11	23	72		36		6	0.2
11	110	12	2	2	22	35	108	55	112	69	44	M8	22	40	20	35	16	30	14	30	81		72		10	0.3
14	140	12	2	2	28	45	135	70	132	84	55	M10	32	50	26	45	20	35	16	35	98		81		20	0.4
17	170	15	2	3	38	55	165	85	165	103	67	M12	40	60	32	50	26	45	22	45	118		98		32	1
21	210	18	2	2	45	65	205	105	205	125	85	M16	45	70	38	55	32	50	30	50	128		110		60	2
24	240	18	2	2	55	75	235	120	235	140	95	M16	55	85	45	70	38	55	35	55	138		120		75	2.5
28	280	18	2	2	60	85	275	140	275	160	100	M16	60	110	50	80	45	70	42	70	150		135		115	3

SJV090-SJV280 (i=1~5) Input Motor Flange+Output Solid Shafts


Assembly forms

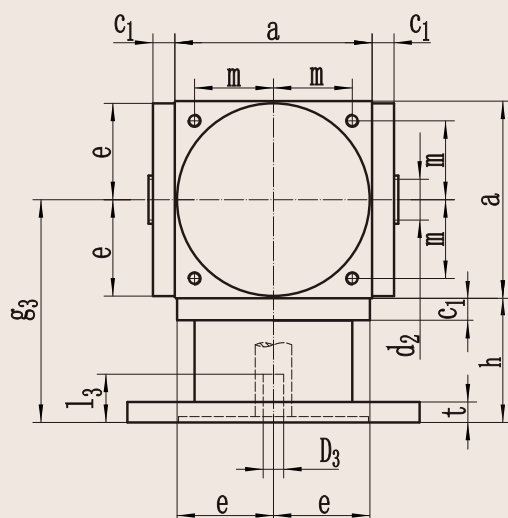
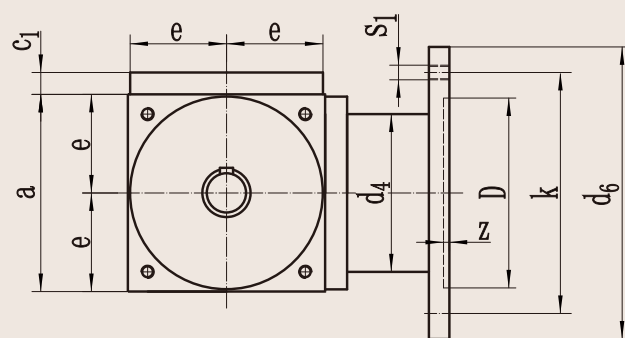
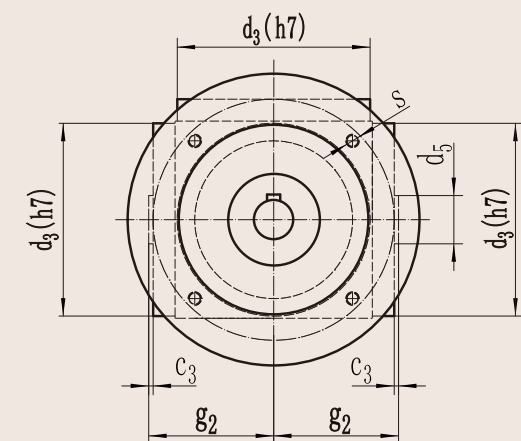


Model	a	c1	c3	d3	d4	d2	l2	i=1~2				i=3~5			
								D3×I3				D3×I3			
09	90	12	2	88	86	18	35	19×43	14×33	11×26	9×23	19×43	14×33	11×26	9×23
11	110	12	2	108	82	22	40	24×53	19×43	14×33	11×26	24×53	19×43	14×33	11×26
14	140	12	2	135	104	32	50	38×83	28×63	24×53	19×43	28×63	24×53	19×43	14×43
17	170	15	3	165	128	40	60	42×115	38×83	28×63	24×53	38×83	28×63	24×53	19×43
21	210	18	2	205	160	45	70	48×115	42×115	38×83	28×63	42×115	38×83	28×63	24×53
24	240	18	2	235	170	55	85	55×115	48×115	42×115	38×83	48×115	42×115	38×83	28×63
28	280	18	2	275	190	60	110	60×115	55×115	48×115	42×115	55×115	48×115	42×115	38×83

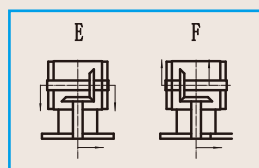
Model	e	g2	g3	h	m	s	i=1~2				i=3~5			
							d6				d6			
09	45	59	110	65	36	M6	200	160	140	120	200	160	140	120
11	55	69	130	75	44	M8	200	160	140	120	200	160	140	120
14	70	84	170	100	55	M10	300	250	200	160	300	250	200	160
17	85	103	215	130	67	M12	350	300	250	200	350	300	250	200
21	105	125	245	140	85	M16	350	300	250	—	350	300	250	200
24	120	140	265	145	95	M16	400	350	300	250	400	350	300	250
28	140	160	315	175	100	M16	450	400	350	300	400	350	300	—

d6	D	k	s1	t	z
120	80	100	4×M6	11	3.5
140	95	115	4×M8	11	3.5
160	110	130	4×M8	11	4
200	130	165	4×M10	14	4
250	180	215	4×M12	16	4.5
300	230	265	4×M12	16	4.5
350	250	300	4×M16	20	6
400	300	350	4×M16	20	6
450	350	400	4×M16	25	6

SJV090-SJV280 (i=1~5) Input Motor Flange+Output Hollow Shafts



Assembly forms



Model	a	c1	c3	d3	d4	d2	l2	i=1~2				i=3~5			
								D3×I3				D3×I3			
09	90	12	2	88	86	16	25	19×43	14×33	11×26	9×23	19×43	14×33	11×26	9×23
11	110	12	2	108	82	22	35	24×53	19×43	14×33	11×26	24×53	19×43	14×33	11×26
14	140	12	2	135	104	28	45	38×83	28×63	24×53	19×43	28×63	24×53	19×43	14×43
17	170	15	3	165	128	38	55	42×115	38×83	28×63	24×53	38×83	28×63	24×53	19×43
21	210	18	2	205	160	45	65	48×115	42×115	38×83	28×63	42×115	38×83	28×63	24×53
24	240	18	2	235	170	55	75	55×115	48×115	42×115	38×83	48×115	42×115	38×83	28×63
28	280	18	2	275	190	60	85	60×115	55×115	48×115	42×115	55×115	48×115	42×115	38×83

Model	e	g2	g3	h	m	s	i=1~2				i=3~5			
							d6							
09	45	59	110	65	36	M6	200	160	140	120	200	160	140	120
11	55	69	130	75	44	M8	200	160	140	120	200	160	140	120
14	70	84	170	100	55	M10	300	250	200	160	300	250	200	160
17	85	103	215	130	67	M12	350	300	250	200	350	300	250	200
21	105	125	245	140	85	M16	350	300	250	—	350	300	250	200
24	120	140	265	145	95	M16	400	350	300	250	400	350	300	250
28	140	160	315	175	100	M16	450	400	350	300	400	350	300	—

d6	d	k	s1	t	z
120	80	100	4×M6	11	3.5
140	95	115	4×M8	11	3.5
160	110	130	4×M8	11	4
200	130	165	4×M10	14	4
250	180	215	4×M12	16	4.5
300	230	265	4×M12	16	4.5
350	250	300	4×M16	20	6
400	300	350	4×M16	20	6
450	350	400	4×M16	25	6