LiCHUAN

BK Series

Backpack-type Stepper All-in-one

Pulse control, nema 11/14/17/23/24/34 series backpack-type integrated machine optionalStable operation, low operating sound, low temperature rise, no missing steps.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

Nema 11/14/17/23/24/34 Series All-in-one

	Series	Model [Pulse]	Step Angle (°)	Motor Length (mm)	Holding Torque (N.m)	Rated Current (A)	Rotor Inertia (g.cm²)	Weight (kg)	Encoder Resolution (PPR)	Shaft Diameter (mm)	Shaft Extension (mm)	Shaft Length (mm)
open loop	28	LC28BK-P-32N009	1.8	51.5	0.09	1.0	20	0.14	None	5	D-cut 0.5x15	26
	28	LC28BK-P-51N018	1.8	70.5	0.18	0.7	30	0.22	None	5	D-cut 0.5x15	26
	35	LC35BK-P-38N028	1.8	54.2	0.28	1.5	20	0.5	None	5	D-cut 0.5x21	24
	35	LC35BK-P-58N056	1.8	74.2	0.56	0.8	40	0.8	None	5	D-cut 0.5x21	24
	42	LC42BK-P-48N048	1.8	60	0.48	1.2	68	0.38	None	5/6	D-cut 0.5x15	24
	42	LC42BK-P-61N080	1.8	82	0.8	1.2	102	0.52	None	5/6	D-cut 0.5x15	24
	57	LC57BK-P-56N100	1.8	75.7	1.0	3.0	300	1.18	None	8	D-cut 0.5x15	21
	57	LC57BK-P-82N220	1.8	101.7	2.2	4.0	520	1.22	None	8	D-cut 0.5x15	21
	57	LC57BK-P-102N300	1.8	121.7	3.0	4.0	720	1.32	None	8	D-cut 0.5x15	21
	57	LC57BK-P-112N350	1.8	131.7	3.5	4.0	800	1.42	None	8	D-cut 0.5x15	21
	60	LC60BK-P-88N300	1.8	107.7	3.0	4.5	620	1.44	None	8/10	D-cut 0.5x15	25/31
	60	LC60BK-P-102N380	1.8	121.7	3.8	5.0	1000	1.48	None	8/10	D-cut 0.5x15	25/31
	60	LC60BK-P-112N430	1.8	131.7	4.3	5.8	1200	1.52	None	8/10	D-cut 0.5x15	25
	86	LC86BK-P-80N450	1.8	116	4.5	6.0	1800	2.22	None	14	Keyway 5x5x25	32
	86	LC86BK-P-114N800	1.8	150	8.0	6.0	2800	3.32	None	14	Keyway 5x5x25	32
	86	LC86BK-P-128N1000	1.8	164	10	7.5	4200	3.82	None	14	Keyway 5x5x25	32
	86	LC86BK-P-150N1200	1.8	186	12	7.5	4300	4.23	None	14	Keyway 5x5x25	32
closed loop	28	LC28BK-PC-32N009	1.8	51.5	0.09	1.0	20	0.14	16384	5	D-cut 0.5x15	26
	28	LC28BK-PC-51N018	1.8	70.5	0.18	0.7	30	0.22	16384	5	D-cut 0.5x15	26
	35	LC35BK-PC-38N028	1.8	54.2	0.28	1.5	20	0.5	16384	5	D-cut 0.5x21	24
	35	LC35BK-PC-58N056	1.8	74.2	0.56	0.8	40	0.8	16384	5	D-cut 0.5x21	24
	42	LC42BK-PC-48N048	1.8	60	0.48	1.2	68	0.38	16384	5/6	D-cut 0.5x15	24
	42	LC42BK-PC-61N080	1.8	82	0.8	1.2	102	0.52	16384	5/6	D-cut 0.5x15	24
	57	LC57BK-PC-56N100	1.8	75.7	1.0	3.0	300	1.18	16384	8	D-cut 0.5x15	21
	57	LC57BK-PC-82N220	1.8	101.7	2.2	4.0	520	1.22	16384	8	D-cut 0.5x15	21
	57	LC57BK-PC-102N300	1.8	121.7	3.0	4.0	720	1.32	16384	8	D-cut 0.5x15	21
	57	LC57BK-PC-112N350	1.8	131.7	3.5	4.0	800	1.42	16384	8	D-cut 0.5x15	21
	60	LC60BK-PC-88N300	1.8	107.7	3.0	4.5	620	1.44	16384	8/10	D-cut 0.5x15	25/31
	60	LC60BK-PC-102N380	1.8	121.7	3.8	5.0	1000	1.48	16384	8/10	D-cut 0.5x15	25/31
	60	LC60BK-PC-112N430	1.8	131.7	4.3	5.8	1200	1.52	16384	8/10	D-cut 0.5x15	25
	86	LC86BK-PC-80N450	1.8	116	4.5	6.0	1800	2.22	16384	14	Keyway 5x5x25	32
	86	LC86BK-PC-114N800	1.8	150	8.0	6.0	2800	3.32	16384	14	Keyway 5x5x25	32
	86	LC86BK-PC-128N1000	1.8	164	10	7.5	4200	3.82	16384	14	Keyway 5x5x25	32
	86	LC86BK-PC-150N1200	1.8	186	12	7.5	4300	4.23	16384	14	Keyway 5x5x25	32

LiCHUAN

BK Series

Backpack-type Stepper All-in-one

RS485 control, nema 11/14/17/23/24/34 series backpack-type integrated machine optionalStable operation, low operating sound, low temperature rise, no missing steps.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

Nema 11/14/17/23/24/34 Series All-in-one

	Series	Model [RS485]	Step Angle (°)	Motor Length (mm)	Holding Torque (N.m)	Rated Current (A)	Rotor Inertia (g.cm²)	Weight (kg)	Encoder Resolution (PPR)	Shaft Diameter (mm)	Shaft Extension (mm)	Shaft Length (mm)
open loop	28	LC28BK-R-32N009	1.8	51.5	0.09	1.0	20	0.14	None	5	D-cut 0.5x15	26
	28	LC28BK-R-51N018	1.8	70.5	0.18	0.7	30	0.22	None	5	D-cut 0.5x15	26
	35	LC35BK-R-38N028	1.8	54.2	0.28	1.5	20	0.5	None	5	D-cut 0.5x21	24
	35	LC35BK-R-58N056	1.8	74.2	0.56	0.8	40	0.8	None	5	D-cut 0.5x21	24
	42	LC42BK-R-48N048	1.8	60	0.48	1.2	68	0.38	None	5/6	D-cut 0.5x15	24
	42	LC42BK-R-61N080	1.8	82	0.8	1.2	102	0.52	None	5/6	D-cut 0.5x15	24
	57	LC57BK-R-56N100	1.8	75.7	1.0	3.0	300	1.18	None	8	D-cut 0.5x15	21
	57	LC57BK-R-82N220	1.8	101.7	2.2	4.0	520	1.22	None	8	D-cut 0.5x15	21
	57	LC57BK-R-102N300	1.8	121.7	3.0	4.0	720	1.32	None	8	D-cut 0.5x15	21
	57	LC57BK-R-112N350	1.8	131.7	3.5	4.0	800	1.42	None	8	D-cut 0.5x15	21
	60	LC60BK-R-88N300	1.8	107.7	3.0	4.5	620	1.44	None	8/10	D-cut 0.5x15	25/31
	60	LC60BK-R-102N380	1.8	121.7	3.8	5.0	1000	1.48	None	8/10	D-cut 0.5x15	25/31
	60	LC60BK-R-112N430	1.8	131.7	4.3	5.8	1200	1.52	None	8/10	D-cut 0.5x15	25
	86	LC86BK-R-80N450	1.8	116	4.5	6.0	1800	2.22	None	14	Keyway 5x5x25	32
	86	LC86BK-R-114N800	1.8	150	8.0	6.0	2800	3.32	None	14	Keyway 5x5x25	32
	86	LC86BK-R-128N1000	1.8	164	10	7.5	4200	3.82	None	14	Keyway 5x5x25	32
	86	LC86BK-R-150N1200	1.8	186	12	7.5	4300	4.23	None	14	Keyway 5x5x25	32
closed loop	28	LC28BK-RC-32N009	1.8	51.5	0.09	1.0	20	0.14	16384	5	D-cut 0.5x15	26
	28	LC28BK-RC-51N018	1.8	70.5	0.18	0.7	30	0.22	16384	5	D-cut 0.5x15	26
	35	LC35BK-RC-38N028	1.8	54.2	0.28	1.5	20	0.5	16384	5	D-cut 0.5x21	24
	35	LC35BK-RC-58N056	1.8	74.2	0.56	0.8	40	0.8	16384	5	D-cut 0.5x21	24
	42	LC42BK-RC-48N048	1.8	60	0.48	1.2	68	0.38	16384	5/6	D-cut 0.5x15	24
	42	LC42BK-RC-61N080	1.8	82	0.8	1.2	102	0.52	16384	5/6	D-cut 0.5x15	24
	57	LC57BK-RC-56N100	1.8	75.7	1.0	3.0	300	1.18	16384	8	D-cut 0.5x15	21
	57	LC57BK-RC-82N220	1.8	101.7	2.2	4.0	520	1.22	16384	8	D-cut 0.5x15	21
	57	LC57BK-RC-102N300	1.8	121.7	3.0	4.0	720	1.32	16384	8	D-cut 0.5x15	21
	57	LC57BK-RC-112N350	1.8	131.7	3.5	4.0	800	1.42	16384	8	D-cut 0.5x15	21
	60	LC60BK-RC-88N300	1.8	107.7	3.0	4.5	620	1.44	16384	8/10	D-cut 0.5x15	25/31
	60	LC60BK-RC-102N380	1.8	121.7	3.8	5.0	1000	1.48	16384	8/10	D-cut 0.5x15	25/31
	60	LC60BK-RC-112N430	1.8	131.7	4.3	5.8	1200	1.52	16384	8/10	D-cut 0.5x15	25
	86	LC86BK-RC-80N450	1.8	116	4.5	6.0	1800	2.22	16384	14	Keyway 5x5x25	32
	86	LC86BK-RC-114N800	1.8	150	8.0	6.0	2800	3.32	16384	14	Keyway 5x5x25	32
	86	LC86BK-RC-128N1000	1.8	164	10	7.5	4200	3.82	16384	14	Keyway 5x5x25	32
	86	LC86BK-RC-150N1200	1.8	186	12	7.5	4300	4.23	16384	14	Keyway 5x5x25	32

LiCHUAN

TL Series

L-Shaped Stepper All-in-one

Full control mode, low motor noise, stable speed, terminal interfaceEasy wiring, nema 17/23/24/34 series integrated machine optional.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

Nema 17/23/24/34 Series Stepper All-in-one

	Series	Model [Pulse]	Step Angle (°)	Motor Length (mm)	Holding Torque (N.m)	Rated Current (A)	Rotor Inertia (g.cm²)	Weight (kg)	Encoder Resolution (PPR)	Shaft Diameter (mm)	Shaft Extension (mm)	Shaft Length (mm)
open loop	42	TLO42P-24V-04	1.8	75	0.4	2.5	68	0.14	None	5	D-cut 0.5x15	24
	42	TLO42P-24V-08	1.8	88	0.8	2.5	102	0.22	None	5	D-cut 0.5x15	24
	57	TLO57P-36V-1	1.8	84.2	1.0	4.0	300	0.5	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57P-36V-2	1.8	110.2	2.0	4.0	480	0.8	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57P-36V-3	1.8	128.2	3.0	4.0	800	0.38	None	10	D-cut 0.5x19.5	21
	60	TLO60P-36V-3	1.8	119.2	3.0	4.0	560	0.52	None	8	D-cut 0.5x20	25
	60	TLO60P-36V-3.5	1.8	131.2	3.5	4.0	620	1.18	None	8	D-cut 0.5x20	25
	60	TLO60P-36V-4	1.8	143.2	4.0	4.0	1000	1.22	None	8	D-cut 0.5x20	25
	86	TLO86P-48V-4.5	1.8	125.2	4.5	6.0	1400	1.32	None	12.7/14	Keyway 5x5x25	32
	86	TLO86P-48V-8.5	1.8	159.2	8.5	6.0	2800	1.42	None	12.7/14	Keyway 5x5x25	32
	86	TLO86P-48V-10	1.8	173.2	10	6.0	3200	1.44	None	12.7/14	Keyway 5x5x25	32
	86	TLO86P-48V-12	1.8	195.2	12	6.0	4000	1.48	None	12.7/14 15.8	Keyway 5x5x25	32
closed loop	42	TLC42P-24V-04	1.8	75	0.4	2.5	68	1.52	1000	5	D-cut 0.5x15	24
	42	TLC42P-24V-08	1.8	88	0.8	2.5	102	2.22	1000	5	D-cut 0.5x15	24
	57	TLC57P-36V-1	1.8	84.2	1.0	4.0	300	3.32	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57P-36V-2	1.8	110.2	2.0	4.0	480	3.82	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57P-36V-3	1.8	128.2	3.0	4.0	800	4.23	1000	10	D-cut 0.5x19.5	21
	60	TLC60P-36V-3	1.8	119.2	3.0	4.0	560	0.14	1000	8	D-cut 0.5x20	25
	60	TLC60P-36V-3.5	1.8	131.2	3.5	4.0	620	0.22	1000	8	D-cut 0.5x20	25
	60	TLC60P-36V-4	1.8	143.2	4.0	4.0	1000	0.5	1000	8	D-cut 0.5x20	25
	86	TLC86P-48V-4.5	1.8	125.2	4.5	6.0	1400	0.8	1000	5	Keyway 5x5x25	32
	86	TLC86P-48V-8.5	1.8	159.2	8.5	6.0	2800	0.38	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86P-48V-10	1.8	173.2	10	6.0	3200	0.52	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86P-48V-12	1.8	195.2	12	6.0	4000	1.18	1000	12.7/14 15.8	Keyway 5x5x25	32

LiCHUAN

TL Series

L-Shaped Stepper All-in-one

Full control mode, low motor noise, stable speed, terminal interfaceEasy wiring, nema 17/23/24/34 series integrated machine optional.

Shenzhen Xinlichuan Electric Co., Ltd.

Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

Nema 17/23/24/34 Series Stepper All-in-one

	Series	Model [RS485]	Step Angle (°)	Motor Length (mm)	Holding Torque (N.m)	Rated Current (A)	Rotor Inertia (g.cm²)	Weight (kg)	Encoder Resolution (PPR)	Shaft Diameter (mm)	Shaft Extension (mm)	Shaft Length (mm)
open loop	42	TLO42R-24V-04	1.8	75	0.4	2.5	68	0.14	None	5	D-cut 0.5x15	24
	42	TLO42R-24V-08	1.8	88	0.8	2.5	102	0.22	None	5	D-cut 0.5x15	24
	57	TLO57R-36V-1	1.8	84.2	1.0	4.0	300	0.5	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57R-36V-2	1.8	110.2	2.0	4.0	480	0.8	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57R-36V-3	1.8	128.2	3.0	4.0	800	0.38	None	10	D-cut 0.5x19.5	21
	60	TLO60R-36V-3	1.8	119.2	3.0	4.0	560	0.52	None	8	D-cut 0.5x20	25
	60	TLO60R-36V-3.5	1.8	131.2	3.5	4.0	620	1.18	None	8	D-cut 0.5x20	25
	60	TLO60R-36V-4	1.8	143.2	4.0	4.0	1000	1.22	None	8	D-cut 0.5x20	25
	86	TLO86R-48V-4.5	1.8	125.2	4.5	6.0	1400	1.32	None	12.7/14	Keyway 5x5x25	32
	86	TLO86R-48V-8.5	1.8	159.2	8.5	6.0	2800	1.42	None	12.7/14	Keyway 5x5x25	32
	86	TLO86R-48V-10	1.8	173.2	10	6.0	3200	1.44	None	12.7/14	Keyway 5x5x25	32
	86	TLO86R-48V-12	1.8	195.2	12	6.0	4000	1.48	None	12.7/14 15.8	Keyway 5x5x25	32
closed loop	42	TLC42R-24V-04	1.8	75	0.4	2.5	68	1.52	1000	5	D-cut 0.5x15	24
	42	TLC42R-24V-08	1.8	88	0.8	2.5	102	2.22	1000	5	D-cut 0.5x15	24
	57	TLC57R-36V-1	1.8	84.2	1.0	4.0	300	3.32	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57R-36V-2	1.8	110.2	2.0	4.0	480	3.82	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57R-36V-3	1.8	128.2	3.0	4.0	800	4.23	1000	10	D-cut 0.5x19.5	21
	60	TLC60R-36V-3	1.8	119.2	3.0	4.0	560	0.14	1000	8	D-cut 0.5x20	25
	60	TLC60R-36V-3.5	1.8	131.2	3.5	4.0	620	0.22	1000	8	D-cut 0.5x20	25
	60	TLC60R-36V-4	1.8	143.2	4.0	4.0	1000	0.5	1000	8	D-cut 0.5x20	25
	86	TLC86R-48V-4.5	1.8	125.2	4.5	6.0	1400	0.8	1000	5	Keyway 5x5x25	32
	86	TLC86R-48V-8.5	1.8	159.2	8.5	6.0	2800	0.38	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86R-48V-10	1.8	173.2	10	6.0	3200	0.52	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86R-48V-12	1.8	195.2	12	6.0	4000	1.18	1000	12.7/14 15.8	Keyway 5x5x25	32

LiCHUAN

TL Series

L-Shaped Stepper All-in-one

Full control mode, low motor noise, stable speed, terminal interfaceEasy wiring, nema 17/23/24/34 series integrated machine optional.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

Nema 17/23/24/34 Series Stepper All-in-one

	Series	Model [CANopen]	Step Angle (°)	Motor Length (mm)	Holding Torque (N.m)	Rated Current (A)	Rotor Inertia (g.cm²)	Weight (kg)	Encoder Resolution (PPR)	Shaft Diameter (mm)	Shaft Extension (mm)	Shaft Length (mm)
open loop	42	TLO42C-24V-04	1.8	75	0.4	2.5	68	0.14	None	5	D-cut 0.5x15	24
	42	TLO42C-24V-08	1.8	88	0.8	2.5	102	0.22	None	5	D-cut 0.5x15	24
	57	TLO57C-36V-1	1.8	84.2	1.0	4.0	300	0.5	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57C-36V-2	1.8	110.2	2.0	4.0	480	0.8	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57C-36V-3	1.8	128.2	3.0	4.0	800	0.38	None	10	D-cut 0.5x19.5	21
	60	TLO60C-36V-3	1.8	119.2	3.0	4.0	560	0.52	None	8	D-cut 0.5x20	25
	60	TLO60C-36V-3.5	1.8	131.2	3.5	4.0	620	1.18	None	8	D-cut 0.5x20	25
	60	TLO60C-36V-4	1.8	143.2	4.0	4.0	1000	1.22	None	8	D-cut 0.5x20	25
	86	TLO86C-48V-4.5	1.8	125.2	4.5	6.0	1400	1.32	None	12.7/14	Keyway 5x5x25	32
	86	TLO86C-48V-8.5	1.8	159.2	8.5	6.0	2800	1.42	None	12.7/14	Keyway 5x5x25	32
	86	TLO86C-48V-10	1.8	173.2	10	6.0	3200	1.44	None	12.7/14	Keyway 5x5x25	32
	86	TLO86C-48V-12	1.8	195.2	12	6.0	4000	1.48	None	12.7/14 15.8	Keyway 5x5x25	32
closed loop	42	TLC42C-24V-04	1.8	75	0.4	2.5	68	1.52	1000	5	D-cut 0.5x15	24
	42	TLC42C-24V-08	1.8	88	0.8	2.5	102	2.22	1000	5	D-cut 0.5x15	24
	57	TLC57C-36V-1	1.8	84.2	1.0	4.0	300	3.32	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57C-36V-2	1.8	110.2	2.0	4.0	480	3.82	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57C-36V-3	1.8	128.2	3.0	4.0	800	4.23	1000	10	D-cut 0.5x19.5	21
	60	TLC60C-36V-3	1.8	119.2	3.0	4.0	560	0.14	1000	8	D-cut 0.5x20	25
	60	TLC60C-36V-3.5	1.8	131.2	3.5	4.0	620	0.22	1000	8	D-cut 0.5x20	25
	60	TLC60C-36V-4	1.8	143.2	4.0	4.0	1000	0.5	1000	8	D-cut 0.5x20	25
	86	TLC86C-48V-4.5	1.8	125.2	4.5	6.0	1400	0.8	1000	5	Keyway 5x5x25	32
	86	TLC86C-48V-8.5	1.8	159.2	8.5	6.0	2800	0.38	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86C-48V-10	1.8	173.2	10	6.0	3200	0.52	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86C-48V-12	1.8	195.2	12	6.0	4000	1.18	1000	12.7/14 15.8	Keyway 5x5x25	32

LiCHUAN

TL Series

L-Shaped Stepper All-in-one

Full control mode, low motor noise, stable speed, terminal interfaceEasy wiring, nema 17/23/24/34 series integrated machine optional.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

Nema 17/23/24/34 Series Stepper All-in-one

	Series	Model [EtherCAT]	Step Angle (°)	Motor Length (mm)	Holding Torque (N.m)	Rated Current (A)	Rotor Inertia (g.cm²)	Weight (kg)	Encoder Resolution (PPR)	Shaft Diameter (mm)	Shaft Extension (mm)	Shaft Length (mm)
open loop	57	TLO57E-36V-1	1.8	84.2	1.0	4.0	300	0.5	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57E-36V-2	1.8	110.2	2.0	4.0	480	0.8	None	6.35/8	D-cut 0.5x19.5	21
	57	TLO57E-36V-3	1.8	128.2	3.0	4.0	800	0.38	None	10	D-cut 0.5x19.5	21
	60	TLO60E-36V-3	1.8	119.2	3.0	4.0	560	0.52	None	8	D-cut 0.5x20	25
	60	TLO60E-36V-3.5	1.8	131.2	3.5	4.0	620	1.18	None	8	D-cut 0.5x20	25
	60	TLO60E-36V-4	1.8	143.2	4.0	4.0	1000	1.22	None	8	D-cut 0.5x20	25
	86	TLO86E-48V-4.5	1.8	125.2	4.5	6.0	1400	1.32	None	12.7/14	Keyway 5x5x25	32
	86	TLO86E-48V-8.5	1.8	159.2	8.5	6.0	2800	1.42	None	12.7/14	Keyway 5x5x25	32
	86	TLO86E-48V-10	1.8	173.2	10	6.0	3200	1.44	None	12.7/14	Keyway 5x5x25	32
	86	TLO86E-48V-12	1.8	195.2	12	6.0	4000	1.48	None	12.7/14 15.8	Keyway 5x5x25	32
closed loop	57	TLC57E-36V-1	1.8	84.2	1.0	4.0	300	3.32	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57E-36V-2	1.8	110.2	2.0	4.0	480	3.82	1000	6.35/8	D-cut 0.5x19.5	21
	57	TLC57E-36V-3	1.8	128.2	3.0	4.0	800	4.23	1000	10	D-cut 0.5x19.5	21
	60	TLC60E-36V-3	1.8	119.2	3.0	4.0	560	0.14	1000	8	D-cut 0.5x20	25
	60	TLC60E-36V-3.5	1.8	131.2	3.5	4.0	620	0.22	1000	8	D-cut 0.5x20	25
	60	TLC60E-36V-4	1.8	143.2	4.0	4.0	1000	0.5	1000	8	D-cut 0.5x20	25
	86	TLC86E-48V-4.5	1.8	125.2	4.5	6.0	1400	0.8	1000	5	Keyway 5x5x25	32
	86	TLC86E-48V-8.5	1.8	159.2	8.5	6.0	2800	0.38	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86E-48V-10	1.8	173.2	10	6.0	3200	0.52	1000	12.7/14	Keyway 5x5x25	32
	86	TLC86E-48V-12	1.8	195.2	12	6.0	4000	1.18	1000	12.7/14 15.8	Keyway 5x5x25	32

LiCHUAN

IBL Series

Backpack-type Servo All-in-one

Pulse+RS485 control, support control/position/torque/speed mode, adapt to 17-bit encoder, power from 200W to 1000W can be selected.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

60/80 Series DC Servo All-in-one

	60 Series				80 Series	
Motor model	IBL60-PR-200W -24V-□17	IBL60-PR-200W -48V-□17	IBL60-PR-400W -48V-□17	IBL60-PR-600W -48V-□17	IBL80-PR-750W -48V-□17	IBL80-PR-1000W -48V-C17
Rated power(KW)	0.2	0.2	0.4	0.6	0.75	1.0
Rated voltage(V)	24	48	48	48	48	48
Rated current(A)	12	6.0	10	15	20	25
Rated speed(rpm)	3000	3000	3000	3000	3000	3000
Holding torque (N.m)	0.637	0.637	1.27	1.91	2.4	3.2
Peak torque (N.m)	1.91	1.91	3.81	3.81	7.2	6.4
Voltage constant (V/1000r/min)	3.85	7.7	8.0	8.5	8.0	8.0
Torque coefficient (N.m/A)	0.053	0.106	0.127	0.127	0.13	0.13
Rotor inertia ($Kg.m^2$)	$0.29x10^{-4}$	$0.29x10^{-4}$	$0.53x10^{-4}$	$0.68x10^{-4}$	$1.62x10^{-4}$	$2.1x10^{-4}$
Resistance (Ω)	0.17	0.63	0.39	0.25	0.08	0.05
Inductance (mH)	0.27	1.12	0.72	0.43	0.27	0.17
Mechanical time-constant (Ms)	1.58	1.77	1.8	1.7	3.4	3.4
Weight(Kg)	0.81	0.81	1.12	1.5	2.22	2.66
Fuselage length (mm)	81	81	97.5	117	121.4	135.4
Motor Length (mm)	14	14	14	14	19	19
Shaft extension (mm)	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 6x6x25	Keyway 6x6x25
Shaft length (mm)	30	30	30	30	35	35
Encoder line number(PPR)	17-bit incremental/17-bit absolute encoder					
Binary logarithm	5					
Insulation class	CLASSF					

LiCHUAN

IBL Series

Backpack-type Servo All-in-one

CANopen control, support control/position/torque/speed mode, adapt to 17-bit encoder, power from 200W to 1000W can be selected.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

60/80 Series DC Servo All-in-one

	60 Series				80 Series	
Motor model	IBL60-C-200W -24V-□17	IBL60-C-200W -48V-□17	IBL60-C-400W -48V-□17	IBL60-C-600W -48V-□17	IBL80-C-750W -48V-□17	IBL80-C-1000W -48V-C17
Rated power(KW)	0.2	0.2	0.4	0.6	0.75	1.0
Rated voltage(V)	24	48	48	48	48	48
Rated current(A)	12	6.0	10	15	20	25
Rated speed(rpm)	3000	3000	3000	3000	3000	3000
Holding torque (N.m)	0.637	0.637	1.27	1.91	2.4	3.2
Peak torque (N.m)	1.91	1.91	3.81	3.81	7.2	6.4
Voltage constant (V/1000r/min)	3.85	7.7	8.0	8.5	8.0	8.0
Torque coefficient (N.m/A)	0.053	0.106	0.127	0.127	0.13	0.13
Rotor inertia ($Kg.m^2$)	$0.29x10^{-4}$	$0.29x10^{-4}$	$0.53x10^{-4}$	$0.68x10^{-4}$	$1.62x10^{-4}$	$2.1x10^{-4}$
Resistance (Ω)	0.17	0.63	0.39	0.25	0.08	0.05
Inductance (mH)	0.27	1.12	0.72	0.43	0.27	0.17
Mechanical time-constant(Ms)	1.58	1.77	1.8	1.7	3.4	3.4
Weight(Kg)	0.81	0.81	1.12	1.5	2.22	2.66
Fuselage length (mm)	81	81	97.5	117	121.4	135.4
Motor Length (mm)	14	14	14	14	19	19
Shaft extension (mm)	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 6x6x25	Keyway 6x6x25
Shaft length (mm)	30	30	30	30	35	35
Encoder line number(PPR)	17-bit incremental/17-bit absolute encoder					
Binary logarithm	5					
Insulation class	CLASSF					

LiCHUAN

ISL Series

L-Shaped Servo All-in-one

Pulse+RS485 control, support control/position/torque/speed mode, adapt to 17-bit encoder, power from 200W to 750W can be selected.

Pulse/RS485

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

60/80 Series DC Servo All-in-one

	60 Series				80 Series
Motor model	ISL60-PR-200W -24V-□17	ISL60-PR-200W -48V-□17	ISL60-PR-400W -48V-□17	ISL60-PR-600W -48V-□17	ISL80-PR-750W -48V-□17
Rated power(KW)	0.2	0.2	0.4	0.6	0.75
Rated voltage(V)	24	48	48	48	48
Rated current(A)	12	6.0	10	15	20
Rated speed(rpm)	3000	3000	3000	3000	3000
Holding torque (N.m)	0.637	0.637	1.27	1.91	2.4
Peak torque (N.m)	1.91	1.91	3.81	3.81	7.2
Voltage constant (V/1000r/min)	3.85	7.7	8.0	8.5	8.0
Torque coefficient (N.m/A)	0.053	0.106	0.127	0.127	0.13
Rotor inertia ($Kg.m^2$)	$0.29x10^{-4}$	$0.29x10^{-4}$	$0.53x10^{-4}$	$0.68x10^{-4}$	$1.62x10^{-4}$
Resistance (Ω)	0.17	0.63	0.39	0.25	0.08
Inductance (mH)	0.27	1.12	0.72	0.43	0.27
Mechanical time-constant (Ms)	1.58	1.77	1.8	1.7	3.4
Weight(Kg)	1.0	1.0	1.4	1.8	2.36
Fuselage length (mm)	87.1	87.1	103.6	135.2	121.5
Motor Length (mm)	14	14	14	14	19
Shaft extension (mm)	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 6x6x25
Shaft length (mm)	30	30	30	30	35
Encoder line number(PPR)	17-bit incremental/17-bit absolute encoder				
Binary logarithm	5				
Insulation class	CLASSF				

LiCHUAN

ISL Series

L-Shaped Servo All-in-one

CANopen control, support control/position/torque/speed mode, adapt to 17-bit encoder, power from 200W to 750W can be selected.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

60/80 Series DC Servo All-in-one

	60 Series				80 Series
Motor model	ISL60-C-200W -24V-□17	ISL60-C-200W -48V-□17	ISL60-C-400W -48V-□17	ISL60-C-600W -48V-□17	ISL80-C-750W -48V-□17
Rated power(KW)	0.2	0.2	0.4	0.6	0.75
Rated voltage(V)	24	48	48	48	48
Rated current(A)	12	6.0	10	15	20
Rated speed(rpm)	3000	3000	3000	3000	3000
Holding torque (N.m)	0.637	0.637	1.27	1.91	2.4
Peak torque (N.m)	1.91	1.91	3.81	3.81	7.2
Voltage constant (V/1000r/min)	3.85	7.7	8.0	8.5	8.0
Torque coefficient (N.m/A)	0.053	0.106	0.127	0.127	0.13
Rotor inertia (Kg.m^2)	0.29×10^{-4}	0.29×10^{-4}	0.53×10^{-4}	0.68×10^{-4}	1.62×10^{-4}
Resistance (Ω)	0.17	0.63	0.39	0.25	0.08
Inductance (mH)	0.27	1.12	0.72	0.43	0.27
Mechanical time-constant (Ms)	1.58	1.77	1.8	1.7	3.4
Weight(Kg)	1.0	1.0	1.4	1.8	2.36
Motor Length (mm)	87.1	87.1	103.6	135.2	121.5
Shaft diameter (mm)	14	14	14	14	19
Shaft extension (mm)	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 6x6x25
Shaft length (mm)	30	30	30	30	35
Encoder line number(PPR)	17-bit incremental/17-bit absolute encoder				
Binary logarithm	5				
Insulation class	CLASSF				

LiCHUAN

ISL Series

L-Shaped Servo All-in-one

EtherCAT control, support control/position/torque/speed mode, adapt to 17-bit encoder, power from 200W to 750W can be selected.

Shenzhen Xinlichuan Electric Co., Ltd.
Address: F/10, Building S8, Tian'an Digital Park, Yantian, Fenggang Town, Dongguan

60/80 Series DC Servo All-in-one

	60 Series				80 Series
Motor model	ISL60-E-200W -24V-□17	ISL60-E-200W -48V-□17	ISL60-E-400W -48V-□17	ISL60-E-600W -48V-□17	ISL80-E-750W -48V-□17
Rated power(KW)	0.2	0.2	0.4	0.6	0.75
Rated voltage(V)	24	48	48	48	48
Rated current(A)	12	6.0	10	15	20
Rated speed(rpm)	3000	3000	3000	3000	3000
Holding torque (N.m)	0.637	0.637	1.27	1.91	2.4
Peak torque (N.m)	1.91	1.91	3.81	3.81	7.2
Voltage constant (V/1000r/min)	3.85	7.7	8.0	8.5	8.0
Torque coefficient (N.m/A)	0.053	0.106	0.127	0.127	0.13
Rotor inertia (Kg.m^2)	0.29×10^{-4}	0.29×10^{-4}	0.53×10^{-4}	0.68×10^{-4}	1.62×10^{-4}
Resistance (Ω)	0.17	0.63	0.39	0.25	0.08
Inductance (mH)	0.27	1.12	0.72	0.43	0.27
Mechanical time-constant (Ms)	1.58	1.77	1.8	1.7	3.4
Weight(Kg)	1.0	1.0	1.4	1.8	2.36
Motor Length (mm)	87.1	87.1	103.6	135.2	121.5
Shaft diameter (mm)	14	14	14	14	19
Shaft extension (mm)	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 5x5x20.5	Keyway 6x6x25
Shaft length (mm)	30	30	30	30	35
Encoder line number(PPR)	17-bit incremental/17-bit absolute encoder				
Binary logarithm	5				
Insulation class	CLASSF				