

Making Efficient Motion

PLANETARY GEARBOXES FOR STEPPER MOTORS



OPTIMIZE MOTOR CONTROL



SHANGHAI, CHINA

Since
2005

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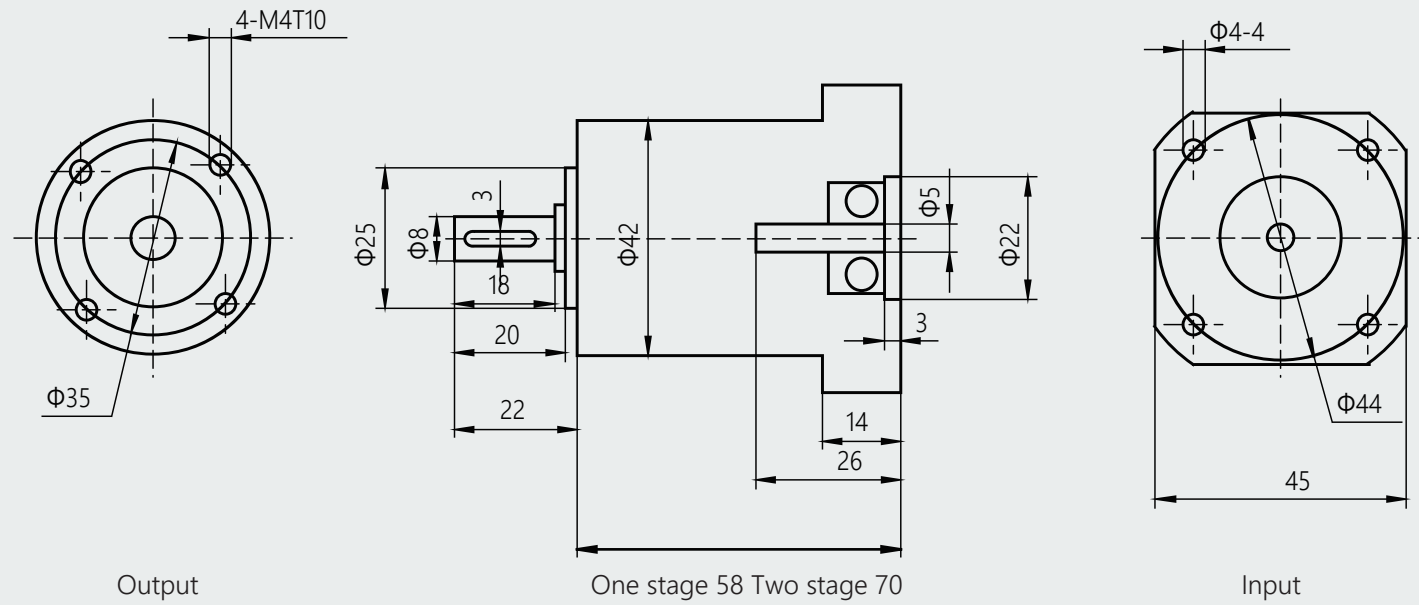
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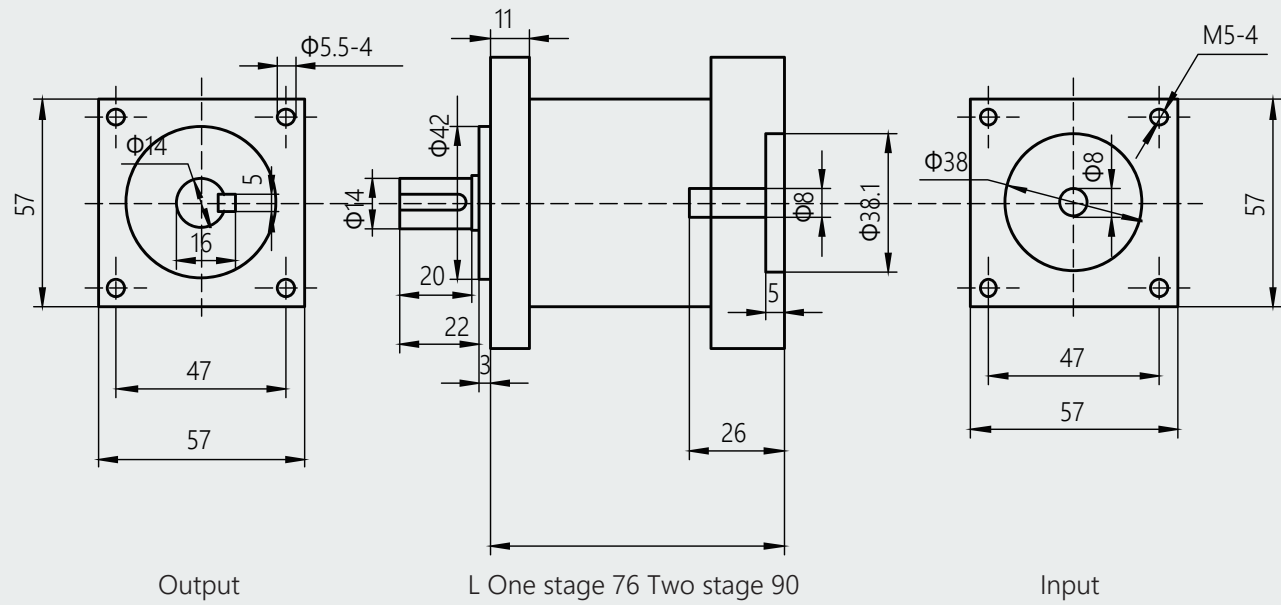
PX42 Series

DIMENSION (mm)



PX57 Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

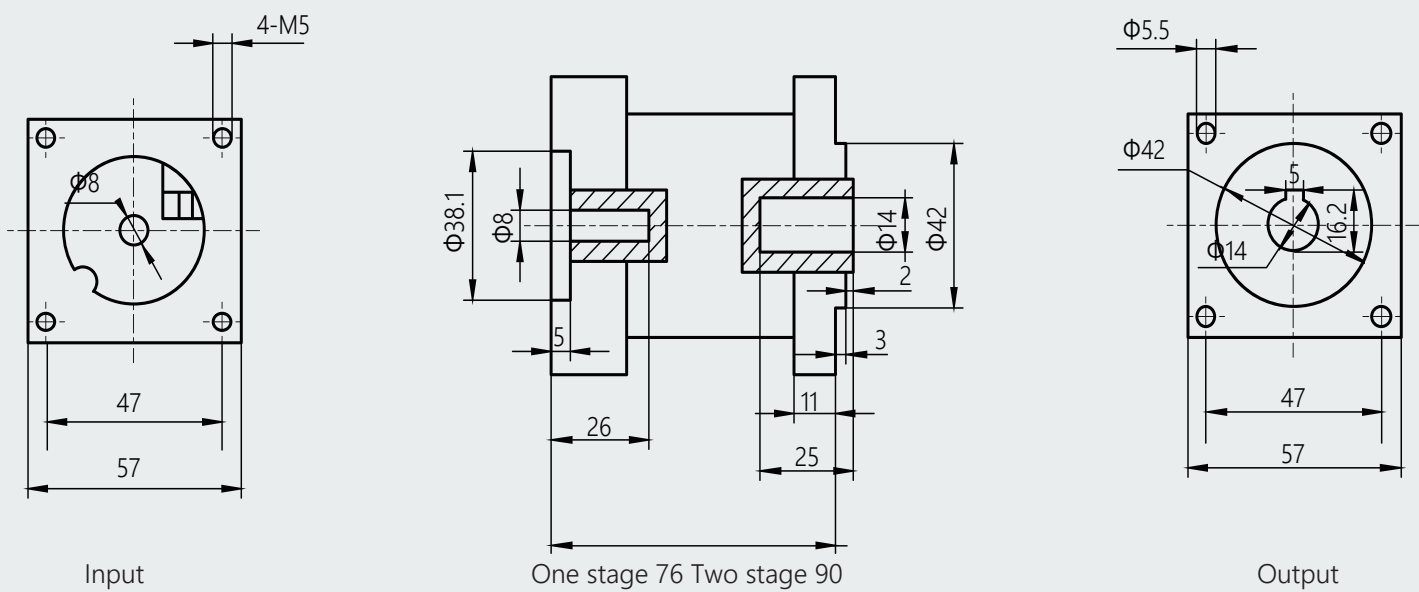
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	4/5/6/8	16/20/24/36	64/96/144/216
Length(MM)	58	70	82
Rated load (N.M)	6	25	30
Maximum load (N.M)	12	40	40
Full load efficiency(%)	90	86	80
Return Gap(Arcmin)	≤ 20	≤ 30	≤ 45
Rated input speed(RPM)	≤ 3000	≤ 3000	≤ 3000
Level of protection(IP)	65	65	65
Weight(KG)	0.8	1.1	1.4
Noise(DB)	≤ 60	≤ 60	≤ 60
Service life(H)	≈ 20000	≈ 20000	≈ 20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	4/5/6/10	16/20/24/30/36	64/96/144/216
Length(MM)	76	90	104
Rated load (N.M)	15	30	40
Maximum load (N.M)	25	40	50
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤ 15	≤ 30	≤ 50
Rated input speed(RPM)	≤ 3000	≤ 3000	≤ 3000
Level of protection(IP)	65	65	65
Weight(KG)	0.9	1.1	1.4
Noise(DB)	≤ 60	≤ 60	≤ 60
Service life(H)	≈ 20000	≈ 20000	≈ 20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

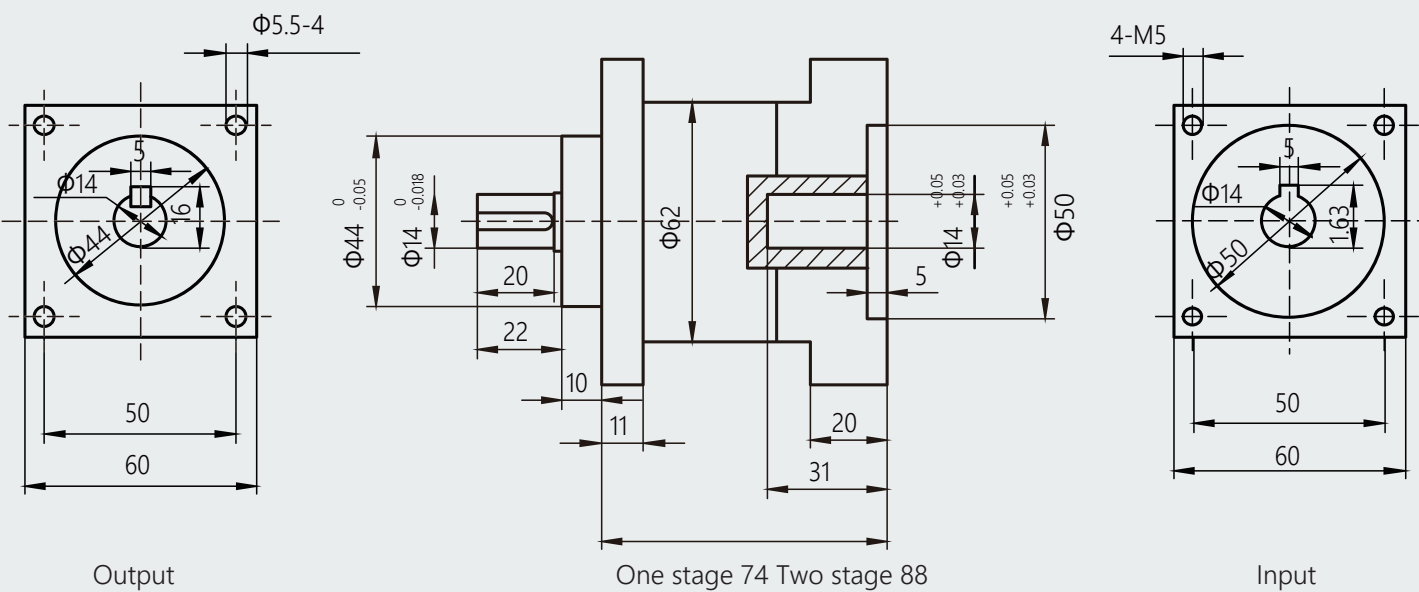
PX57 Hole Output Series

DIMENSION (mm)



PX60 Servo Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

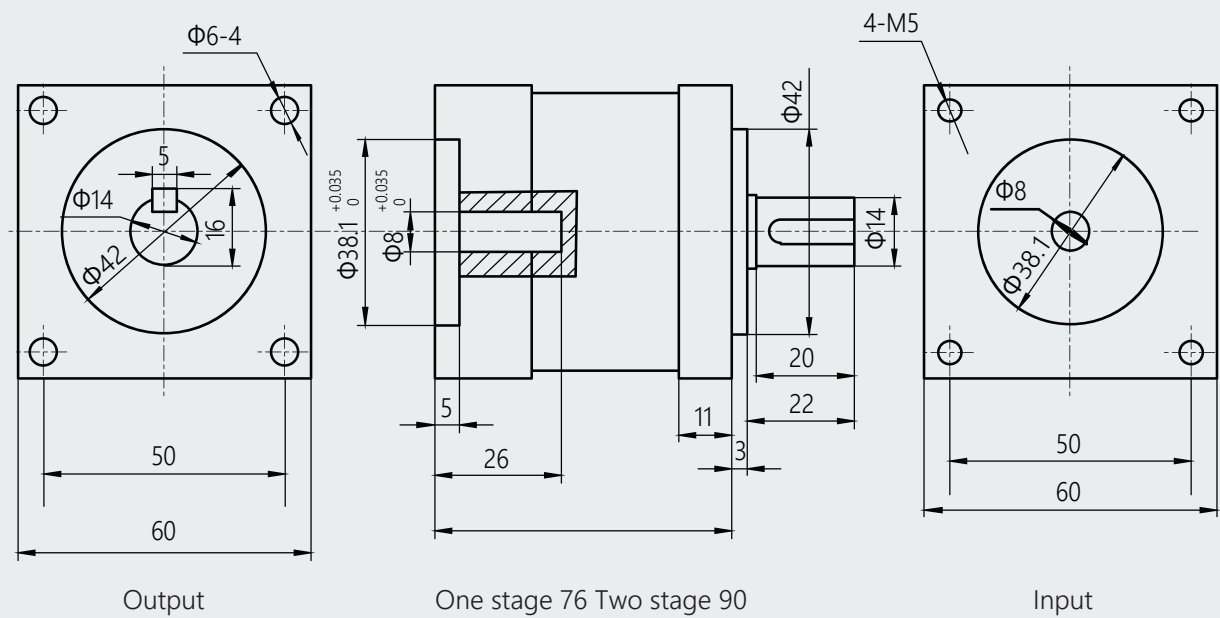
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	4/5/6/10	16/20/24/30/36	64/96/144/216
Length(MM)	76	90	104
Rated load (N.M)	15	30	40
Maximum load (N.M)	25	40	50
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤15	≤30	≤50
Rated input speed(RPM)	≤3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	0.9	1.1	1.4
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/6	10/16/24/36	64/96/144/216
Length(MM)	74	88	102
Rated load (N.M)	15	30	40
Maximum load (N.M)	25	40	50
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤15	≤30	≤50
Rated input speed(RPM)	≤3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	0.9	1.1	1.5
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

PX60 Brushless Series

DIMENSION (mm)

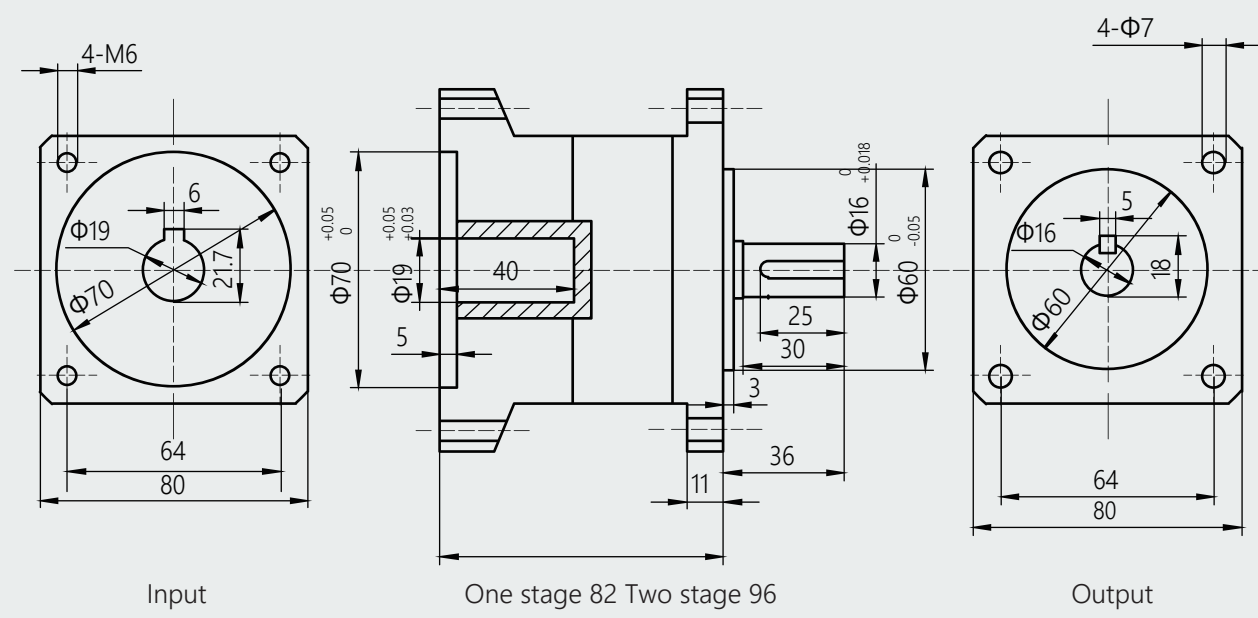


MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/6	10/16/24/36	64/96/144/216
Length(MM)	76	90	104
Rated load (N.M)	15	30	40
Maximum load (N.M)	25	40	50
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤15	≤30	≤50
Rated input speed(RPM)	≤3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	0.9	1.1	1.5
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

PX80 Servo Series

DIMENSION (mm)

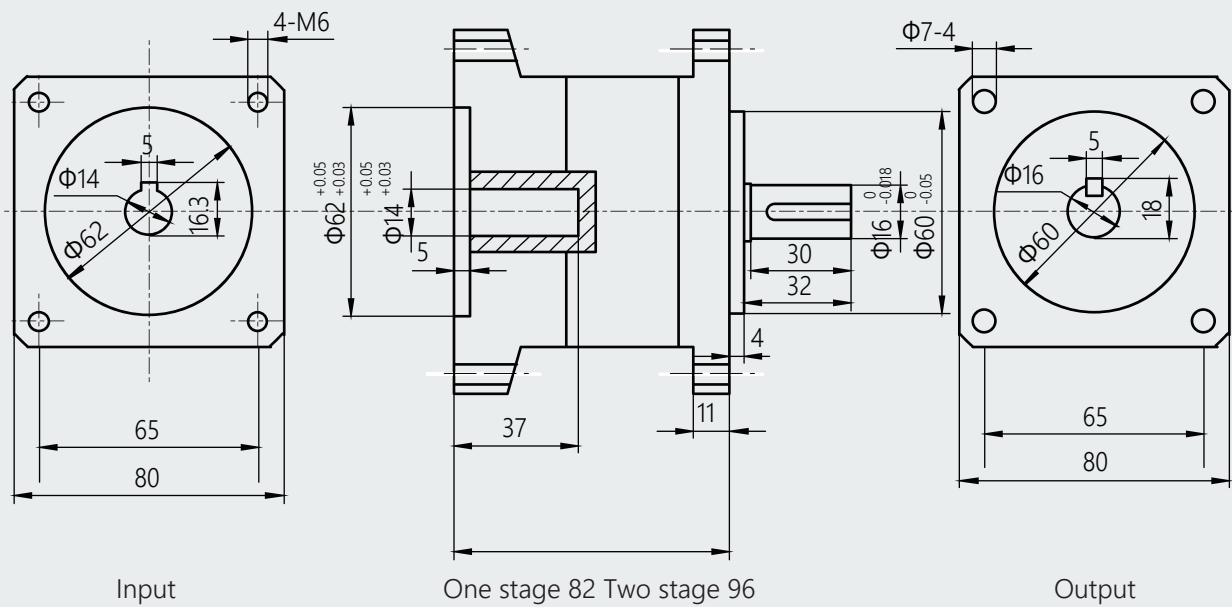


MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	82	96	110
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤18	≤25	≤35
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	1.7	2.3	3
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

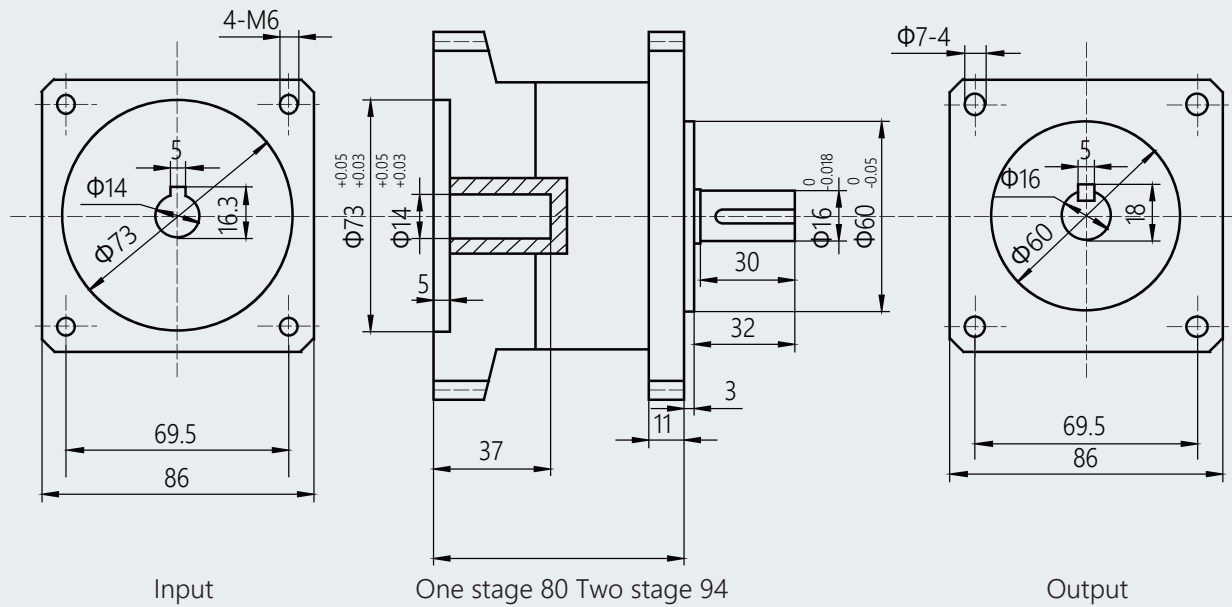
PX80 Brushless Series

DIMENSION (mm)



PX86 Stepper Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

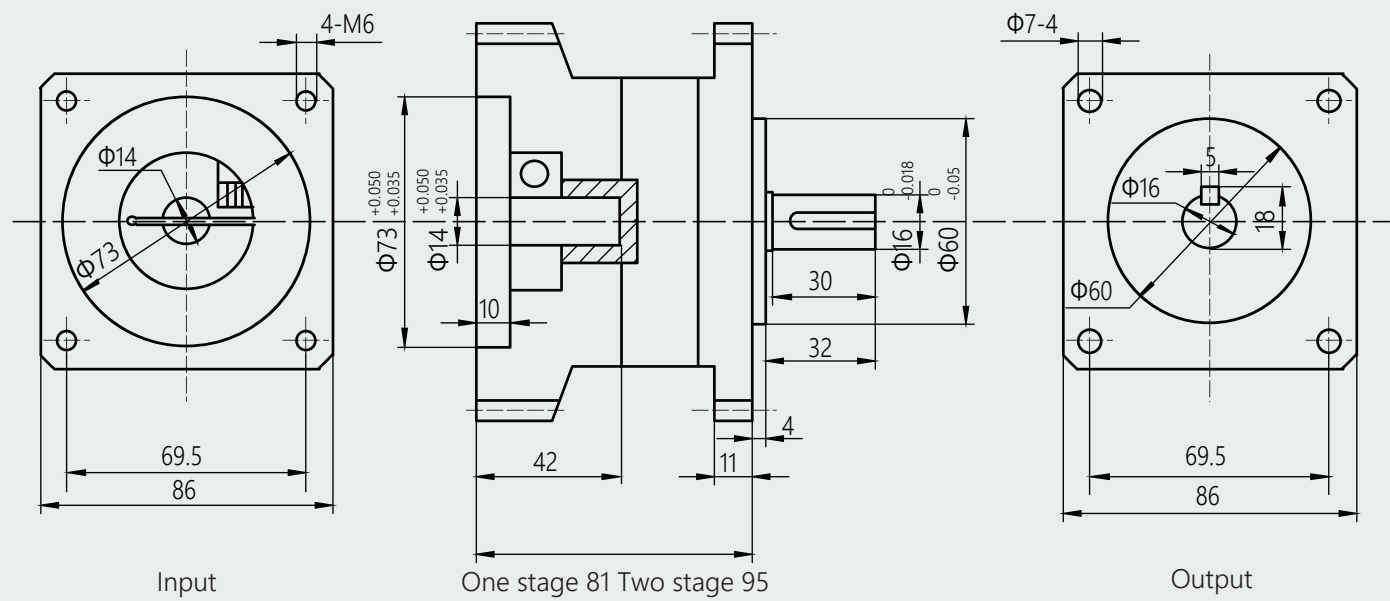
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	82	96	110
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤ 18	≤ 25	≤ 35
Rated input speed(RPM)	3000	≤ 3000	≤ 3000
Level of protection(IP)	65	65	65
Weight(KG)	1.7	2.3	3
Noise(DB)	≤ 60	≤ 60	≤ 60
Service life(H)	≈ 20000	≈ 20000	≈ 20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	80	94	108
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤ 18	≤ 25	≤ 35
Rated input speed(RPM)	3000	≤ 3000	≤ 3000
Level of protection(IP)	65	65	65
Weight(KG)	1.8	2.4	3
Noise(DB)	≤ 60	≤ 60	≤ 60
Service life(H)	≈ 20000	≈ 20000	≈ 20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

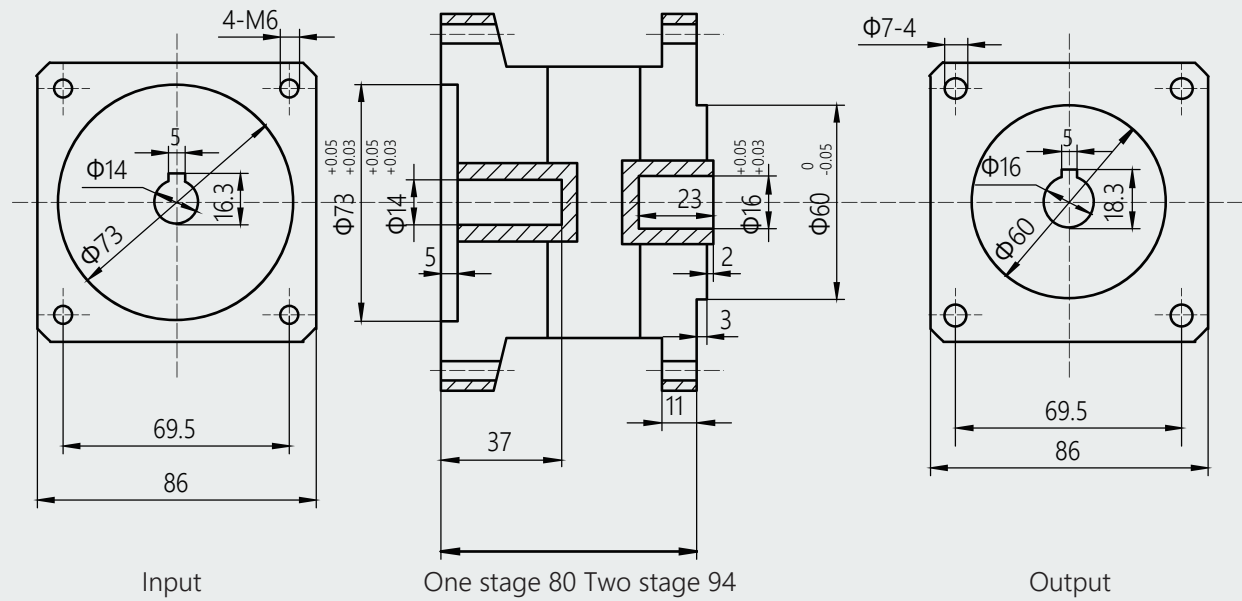
PX86 Locking Series

DIMENSION (mm)



PX86 Hole Output Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

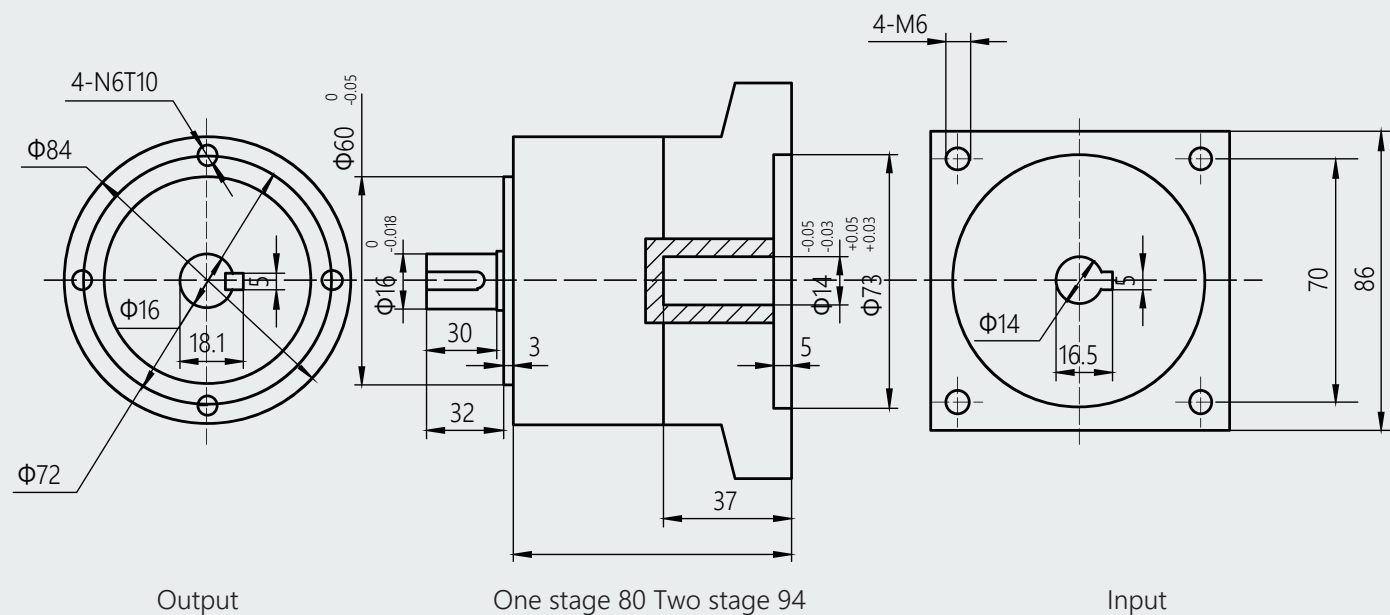
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	81	95	109
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤ 18	≤ 25	≤ 35
Rated input speed(RPM)	3000	≤ 3000	≤ 3000
Level of protection(IP)	65	65	65
Weight(KG)	1.8	2.4	3
Noise(DB)	≤ 60	≤ 60	≤ 60
Service life(H)	≈ 20000	≈ 20000	≈ 20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	80	94	108
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤ 18	≤ 25	≤ 35
Rated input speed(RPM)	3000	≤ 3000	≤ 3000
Level of protection(IP)	65	65	65
Weight(KG)	1.5	2.1	2.7
Noise(DB)	≤ 60	≤ 60	≤ 60
Service life(H)	≈ 20000	≈ 20000	≈ 20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

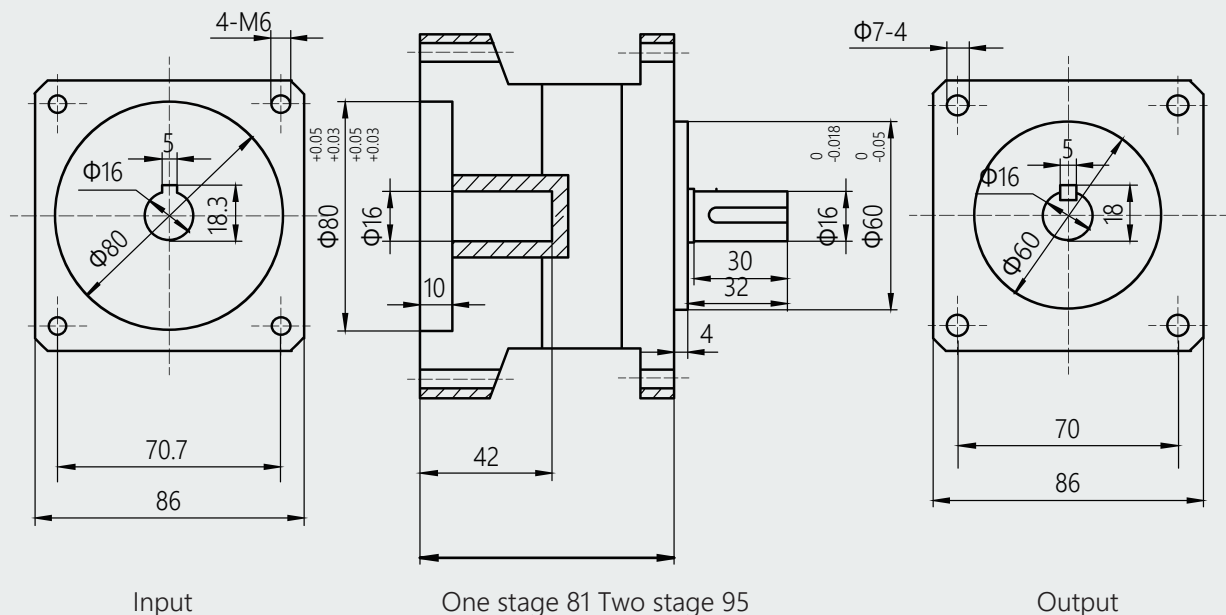
PX86 Round flange Series

DIMENSION (mm)



PX90 Servo Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

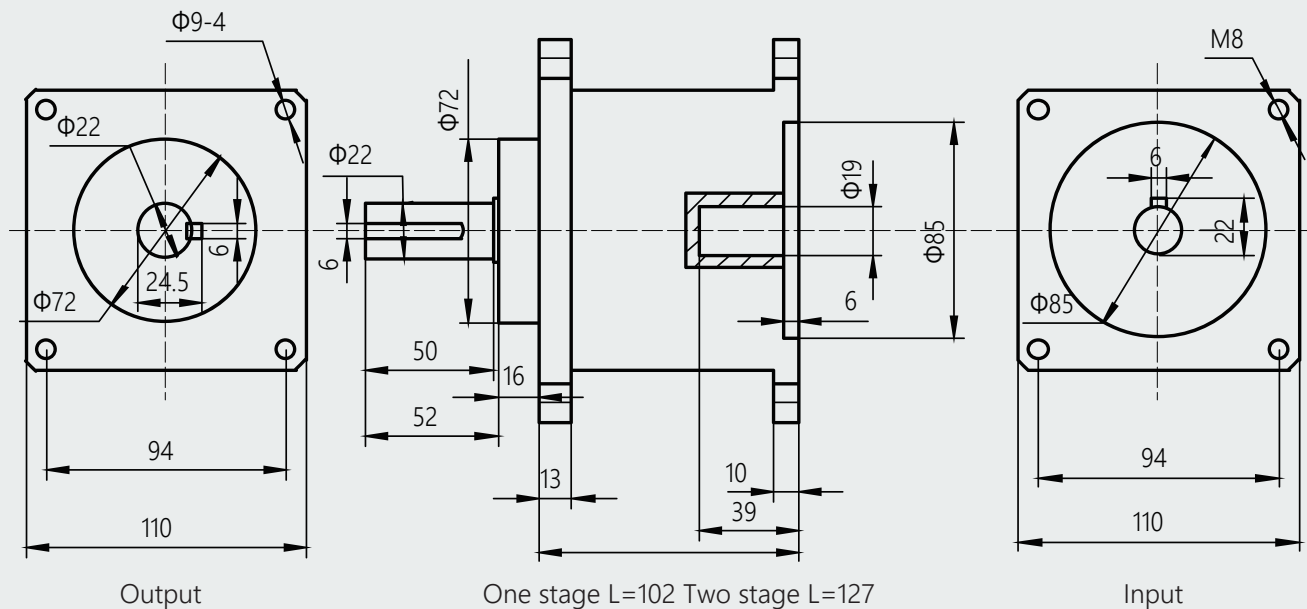
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	80	94	108
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤18	≤25	≤35
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	1.8	2.4	3
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	81	95	109
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤18	≤25	≤35
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	1.8	2.4	3
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

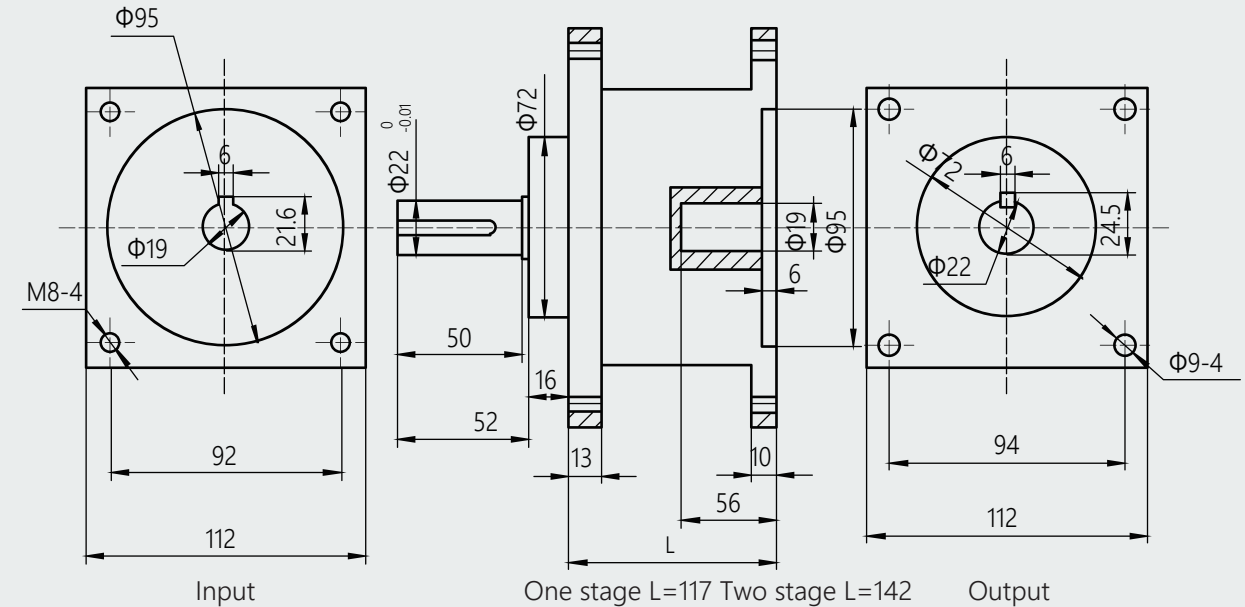
PX110 Stepper Series

DIMENSION (mm)



PX110 Servo Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

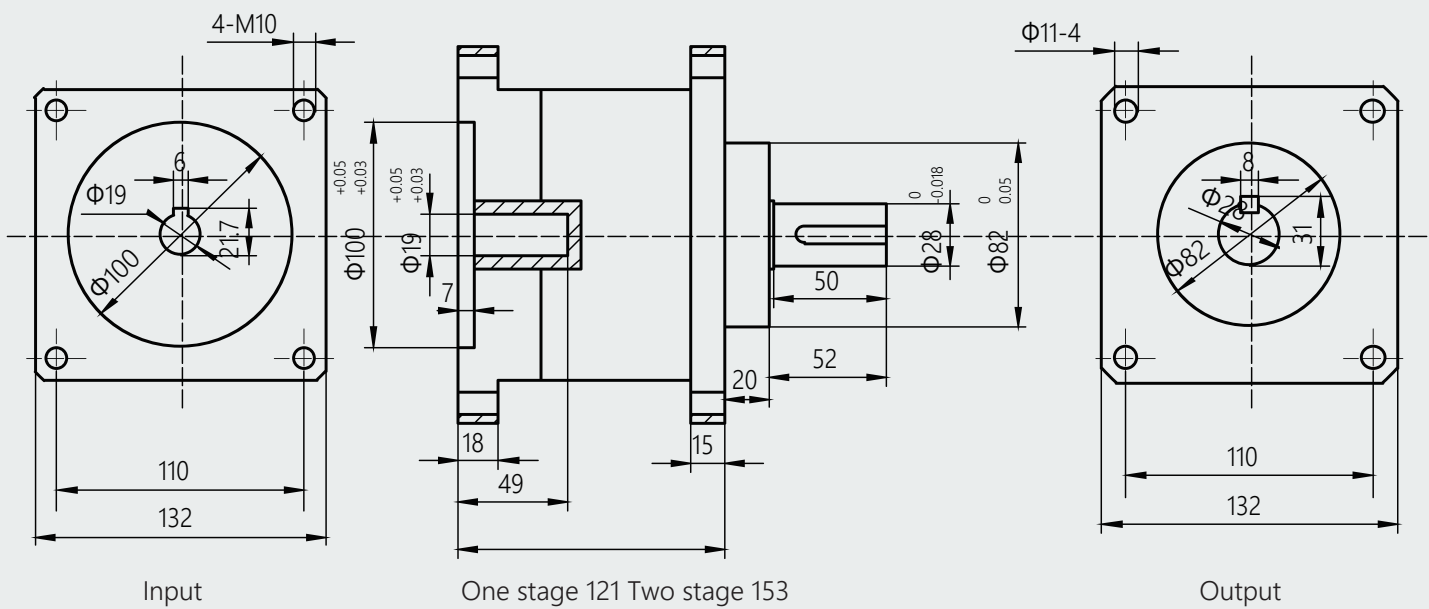
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	64/96/144/216
Length(MM)	102	127	152
Rated load (N.M)	70	140	160
Maximum load (N.M)	100	170	180
Full load efficiency(%)	90	86	80
Return Gap(Arcmin)	≤20	≤30	≤45
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	5.2	6.5	7.8
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	64/96/144/216
Length(MM)	117	142	167
Rated load (N.M)	70	140	160
Maximum load (N.M)	100	170	180
Full load efficiency(%)	90	86	80
Return Gap(Arcmin)	≤20	≤30	≤45
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	5.2	6.5	7.8
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

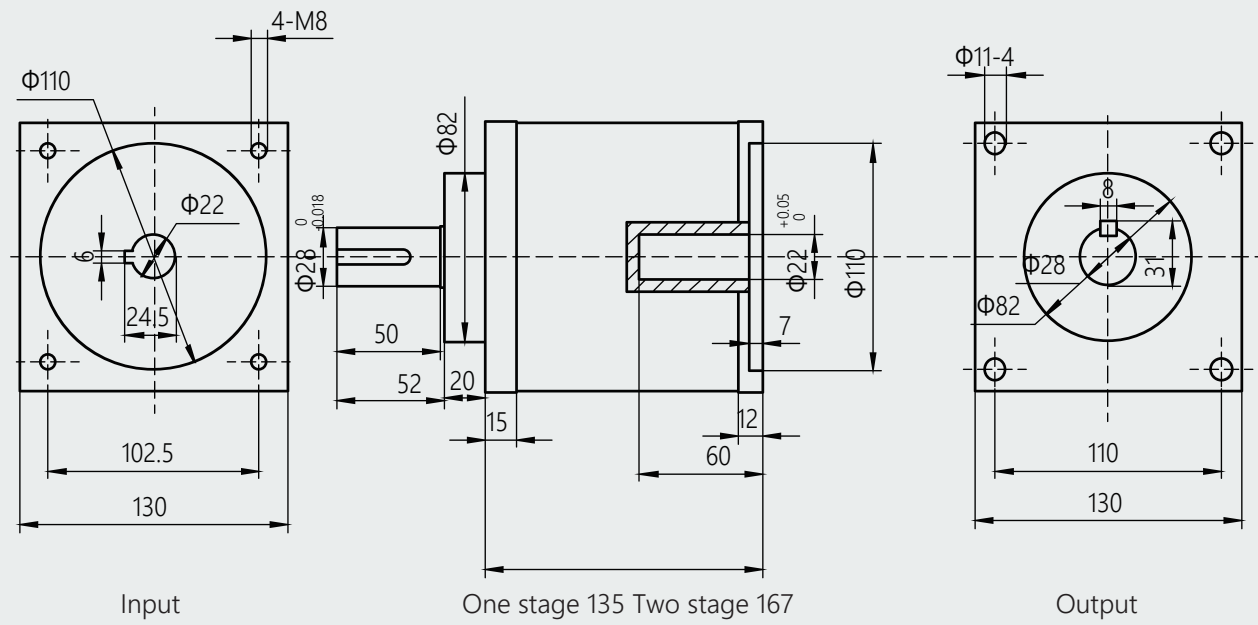
PX130 Stepper Series

DIMENSION (mm)



PX130 Servo-Old

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

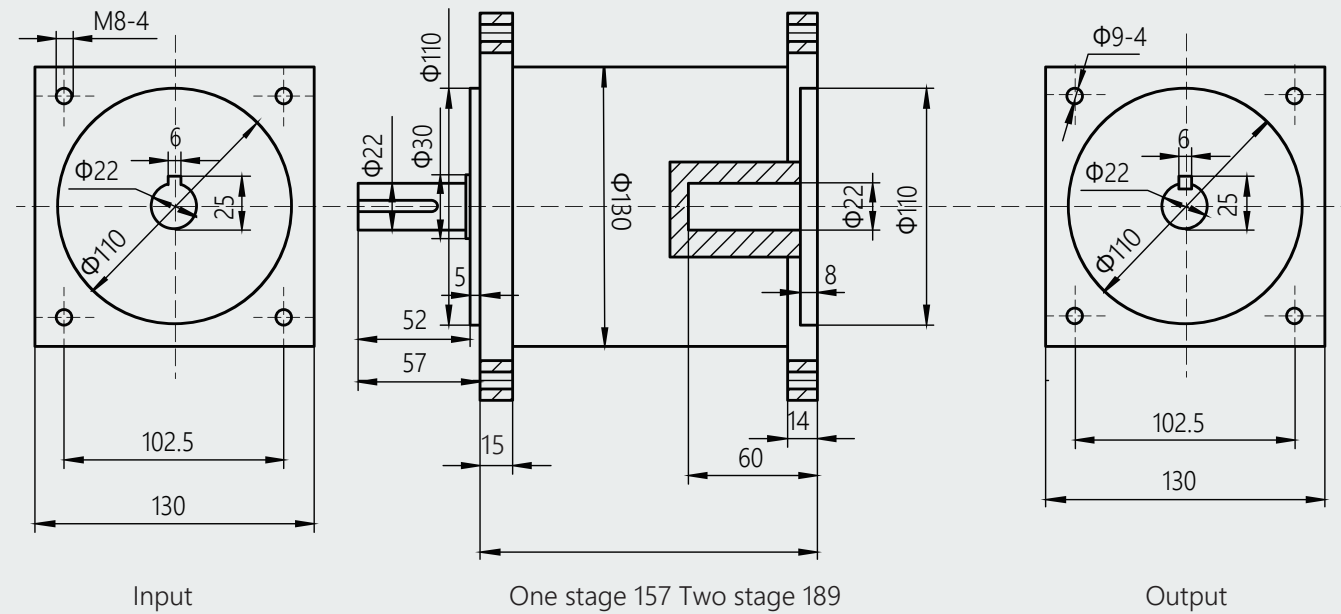
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	64/96/144/216
Length(MM)	121	153	185
Rated load (N.M)	90	150	200
Maximum load (N.M)	150	200	240
Full load efficiency(%)	90	86	85
Return Gap(Arcmin)	≤20	≤30	≤45
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	9	12	15
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	64/96/144/216
Length(MM)	135	167	199
Rated load (N.M)	90	150	200
Maximum load (N.M)	150	200	240
Full load efficiency(%)	90	86	85
Return Gap(Arcmin)	≤20	≤30	≤45
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	9	12	15
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

PX130 Servo-New

DIMENSION (mm)

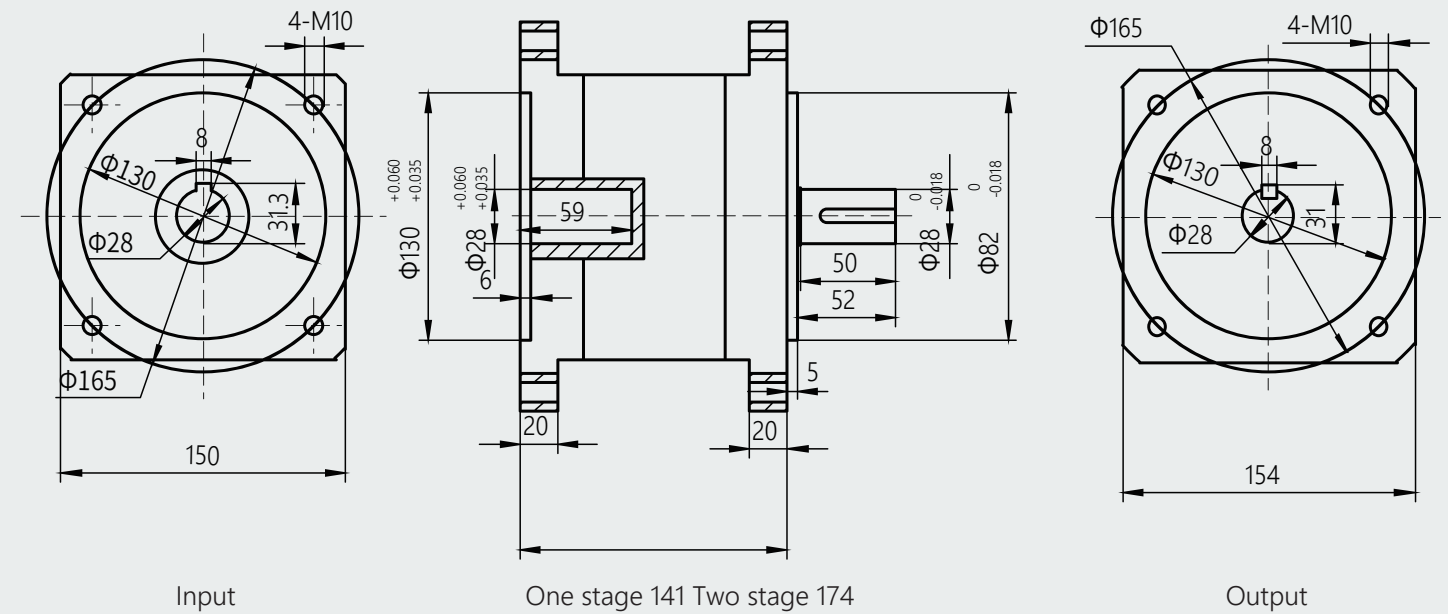


MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	9/12/16/20/24/30/36	64/96/144/216
Length(MM)	157	189	221
Rated load (N.M)	90	150	200
Maximum load (N.M)	150	200	240
Full load efficiency(%)	90	86	85
Return Gap(Arcmin)	≤20	≤30	≤45
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	9	12	15
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

PX150 Series

DIMENSION (mm)

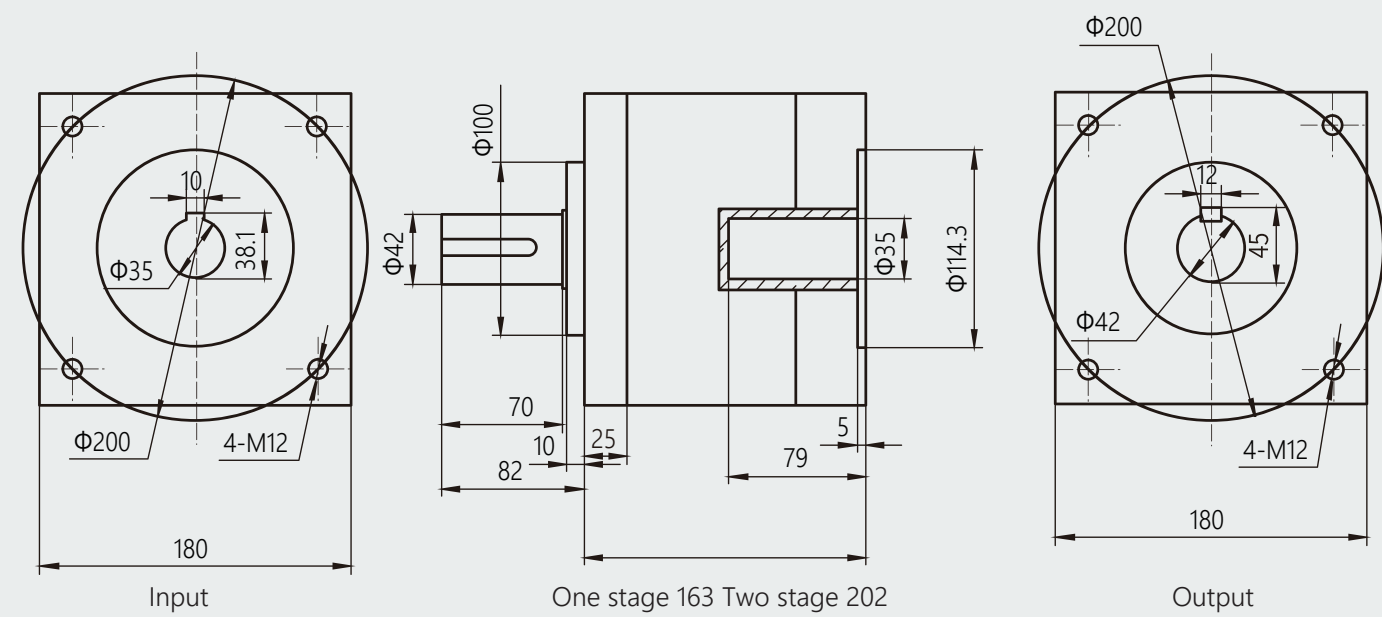


MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	9/12/16/20/24/30/36	45/48/54/64/96/144
Length(MM)	141	174	207
Rated load (N.M)	130	200	260
Maximum load (N.M)	160	240	300
Full load efficiency(%)	85	80	72
Return Gap(Arcmin)	≤25	≤50	≤75
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	10.05	13.45	16.85
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

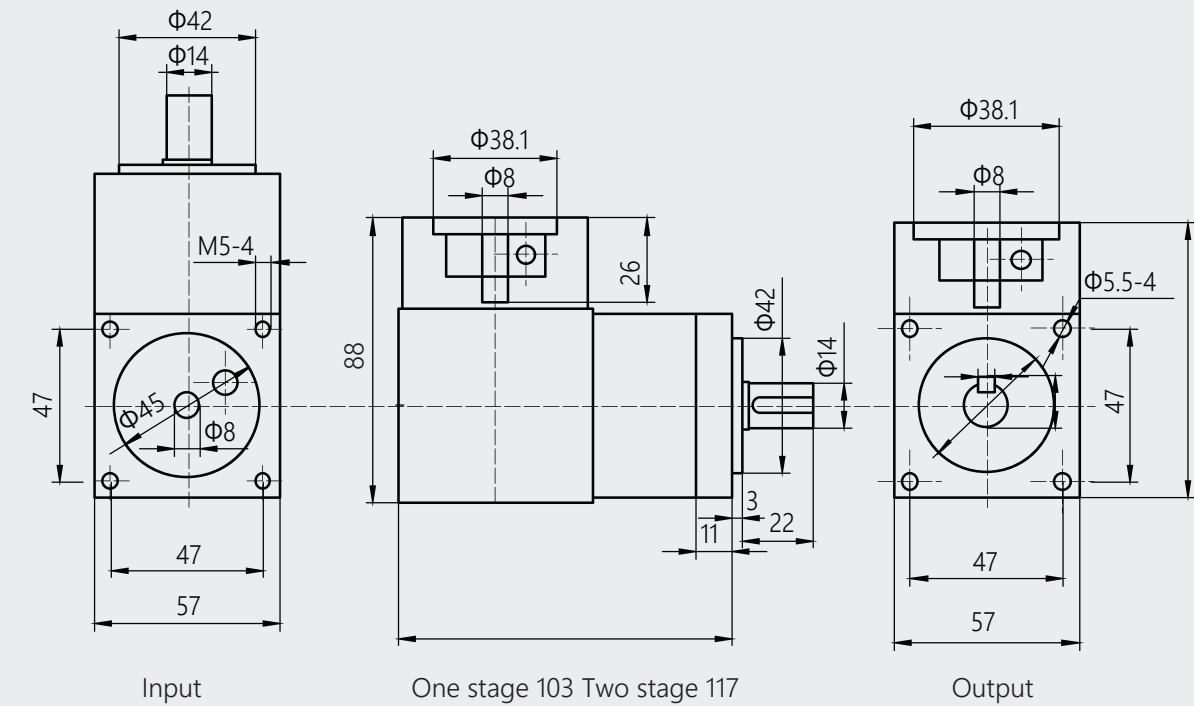
PX180 Series

DIMENSION (mm)



PX57 Right angle Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

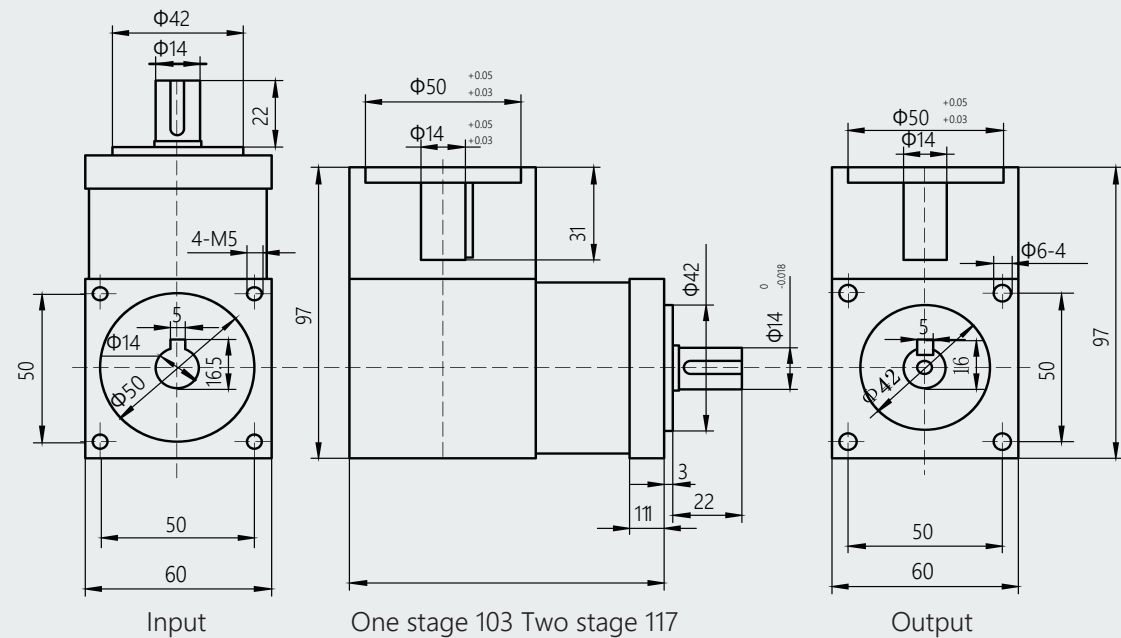
Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	4/6	16/24/36	64/96/144/216
Length(MM)	163	202	241
Rated load (N.M)	200	260	320
Maximum load (N.M)	260	320	360
Full load efficiency(%)	80	75	70
Return Gap(Arcmin)	≤35	≤70	≤100
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	22	28	34
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	4/5/6/10	16/20/24/36	64/96/144/216
Length(MM)	103	117	131
Rated load (N.M)	15	30	40
Maximum load (N.M)	25	40	50
Full load efficiency(%)	90	86	80
Return Gap(Arcmin)	≤20	≤30	≤45
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	0.8	1.1	1.1
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

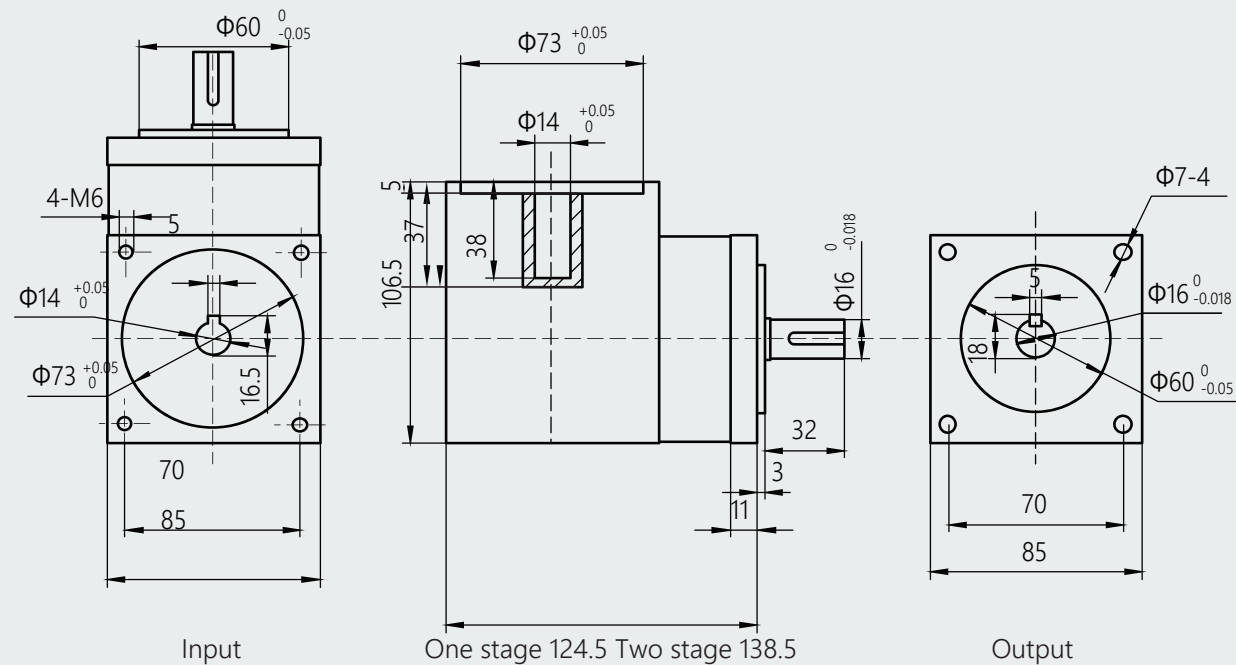
PX60 Right angle Series

DIMENSION (mm)



PX86 Right angle Series

DIMENSION (mm)



MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	4/5/6/10	16/20/24/36	64/96/144/216
Length(MM)	103	117	131
Rated load (N.M)	15	30	40
Maximum load (N.M)	25	40	50
Full load efficiency(%)	90	86	80
Return Gap(Arcmin)	≤20	≤30	≤45
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	0.8	1.1	1.1
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange

MAIN TECHNICAL SPECIFICATION

Stage	Stage 1	Stage 2	Stage 3
Gear Ratio	3/4/5/6	10/12/16/20/24/30/36	52.8/64/96/144/216
Length(MM)	124.5	138.5	152.5
Rated load (N.M)	30	50	60
Maximum load (N.M)	50	80	100
Full load efficiency(%)	95	90	85
Return Gap(Arcmin)	≤18	≤25	≤35
Rated input speed(RPM)	3000	≤3000	≤3000
Level of protection(IP)	65	65	65
Weight(KG)	1.8	2.4	3
Noise(DB)	≤60	≤60	≤60
Service life(H)	≈20000	≈20000	≈20000
Lubrication	Grease(Long term lubrication)	Grease(Long term lubrication)	Grease(Long term lubrication)
Method of installation	Flange	Flange	Flange