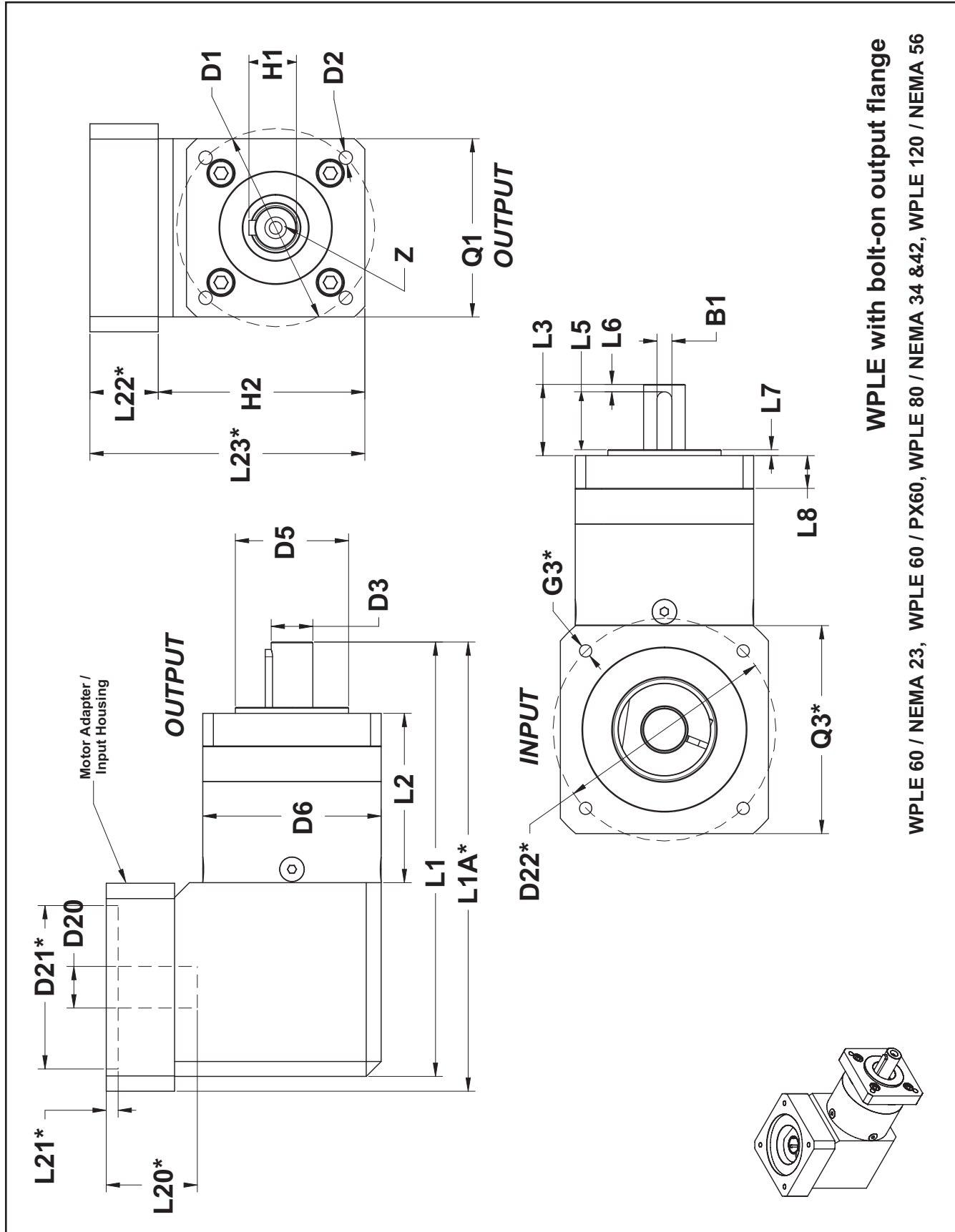




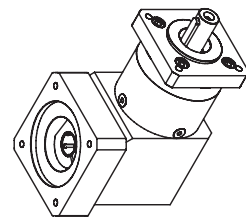
WPLE

Right-Angle Bevel-Planetary Servo Gearhead
With Bolt-On Square Output Flange



WPLE with bolt-on output flange

WPLE 60 / NEMA 23, WPLE 60 / PX60, WPLE 80 / NEMA 34 & 42, WPLE 120 / NEMA 56





WPLE

Right-Angle Bevel-Planetary Servo Gearhead With Bolt-On Square Output Flange



DIMENSIONS mm (in.)	Tol. / #	WPLE 60 NEMA 23	WPLE 60 PX60	WPLE 80 NEMA 34	WPLE 80 NEMA 42	WPLE 120 NEMA 56
D1 Output flange bolt circle		66.7 (2.625)	70 (2.756)	98.4 (3.874)	125.7 (4.950)	177.8 (7.0) ⁽²⁾
D2 Flange mounting hole diameter	4	4.5 (0.177)	5.5 (0.277)	5.5 (0.216)	7.3 (0.287)	10 (0.394)
D3 Output shaft diameter	k6	14 (0.551)	14 (0.551)	20 (0.787)	20 (0.787)	25 (0.984)
D5 Output flange pilot diameter	h7	38.1 (1.5)	50 (1.969)	73 (2.874)	56 (2.204)	114.3 (4.500)
D6 Gearhead body diameter		60 (2.362)	60 (2.362)	80 (3.150)	80 (3.150)	115 (4.528)
Q1 Output Flange - square		60 (2.362)	60 (2.362)	83 (3.267)	110 (4.330)	145 (5.709)
L1 Minimum overall unit length		Refer to Page 19	Refer to Page 19	Refer to Page 19	Refer to Page 19	Refer to Page 19
L2 Main housing length	1-Stage	58 (2.283)	58 (2.283)	72.5 (2.854)	73.9 (2.909)	90 (3.543)
	2-Stage	70 (2.755)	70 (2.755)	89.5 (3.523)	90.9 (3.579)	117 (4.606)
	3-Stage	83 (3.267)	83 (3.267)	107 (4.212)	108.4 (4.268)	144 (5.669)
L3 Shaft length (to mounting face)		24 (0.944)	25 (0.984)	28 (1.102)	26.6 (1.047)	39 (1.496)
L5 Key length (to pilot face)		19.5 (0.768)	21 (0.827)	21 (0.827)	21 (0.827)	29 (1.142)
L6 Key location from shaft end		2.5 (0.098)	2.5 (0.098)	4 (0.157)	4 (0.157)	5 (0.197)
L7 Output pilot length		2 (0.078)	1.5 (0.059)	3 (0.118)	1.6 (0.062)	5 (0.197)
L8 Flange thickness		11 (0.433)	10 (0.394)	12 (0.472)	13.4 (0.527)	16 (0.630)
B1 Key width (DIN 6885)		5 (0.196)	5 (0.196)	6 (0.236)	6 (0.236)	8 (0.314)
H1 Shaft + key height		16 (0.629)	16 (0.629)	22.5 (0.885)	22.5 (0.885)	28 (1.102)
H2 Right-angle housing height		69.5 (2.763)	69.5 (2.763)	88.3 (3.476)	88.3 (3.476)	123.7 (4.870)
Z Output shaft tapped hole (DIN 332)		M5 x 12	M5 x 12	M6 x 16	M6 x 16	M10 x 22
D20 Maximum input pinion bore ⁽²⁾		14 (0.551)	14 (0.551)	19 (0.748)	19 (0.748)	24 (0.945)
Available standard bushings⁽¹⁾ mm		6; 6.35; 7; 8; 9; 9.525; 10; 11; 12; 12.7		9.525; 10; 11; 12; 12.7; 14; 15.87; 16		11; 12.7; 14; 15.87; 16; 19; 19.05; 22; 22.22
	inch	.236; .250; .276; .315; .354; .375; .394; .433; .472; .500		.375; .394; .433; .472; .500; .551; .625; .630		.433; .500; .551; .625; .630; .748; .750; .866; .875
Motor-dependent dimensions: D21*, D22*, L20*, L21*, L1A*, L22*, L23*, G3*, Q3*		Adapter / Input Housing dimensions and unit overall length depend on motor output geometry. A motor-specific adapter / input housing is supplied with every gearhead.				
		⁽²⁾ NEMA 56 has more than one bolt circle size.				
L22* - dimension calculation		Determine L22* calc = motor shaft length + Δ L , if L22* calc < or = L22* minimum → L22* = L22* minimum + Tolerance if L22* calc > L22* minimum → L22* = L22* calc + Tolerance				
L22* Tolerance: + 5 / - 0.0 (+ 0.196 / - 0.0)						
Δ L		7 (0.276)		8.8 (0.346)		18.2 (0.741)
L22* minimum		16 (0.63)		21.2 (0.835)		21.8 (0.858)