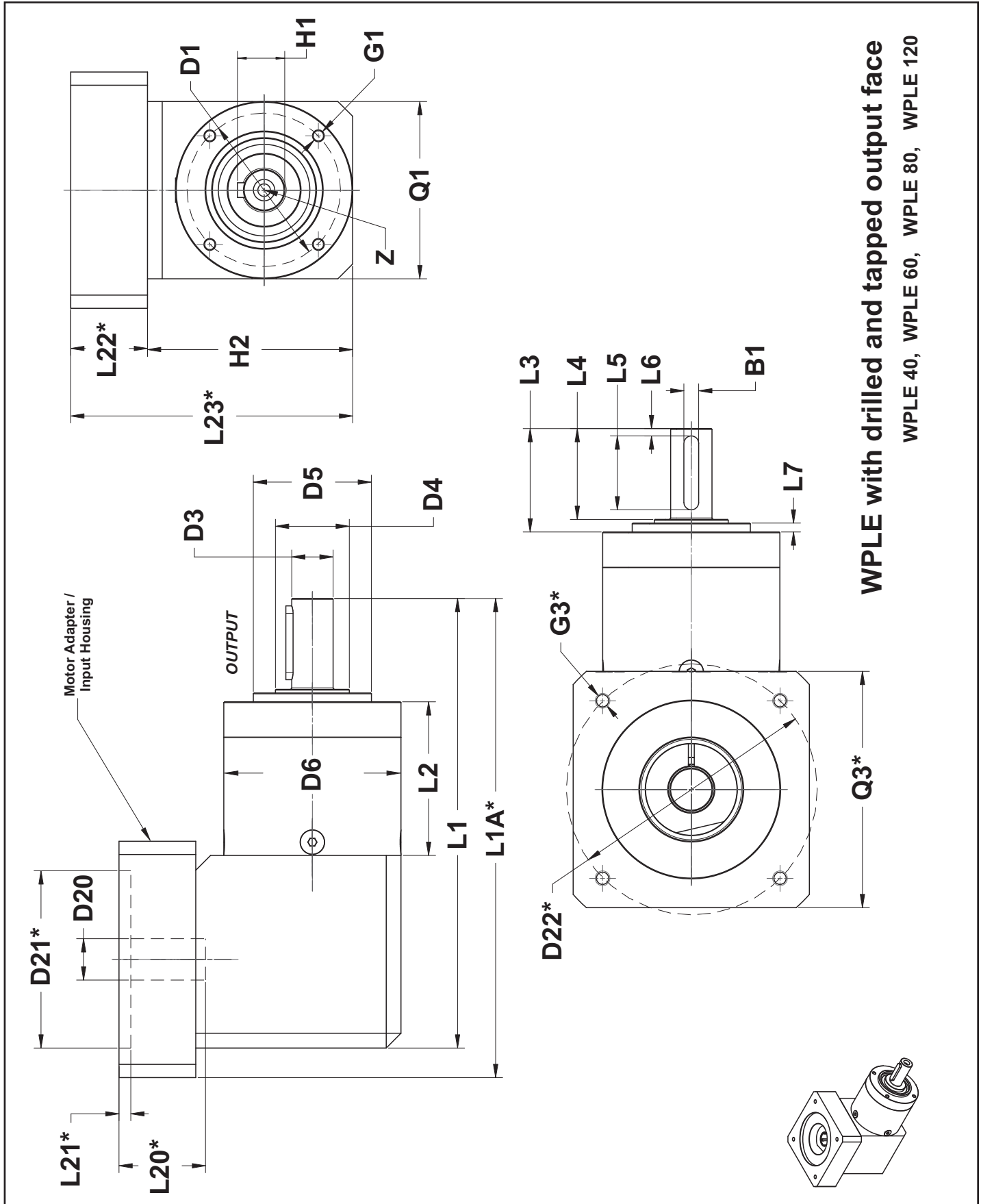




# WPLE

Right-Angle Bevel-Planetary Servo Gearhead  
With Tapped Mounting Holes



WPLE with drilled and tapped output face

WPLE 40, WPLE 60, WPLE 80, WPLE 120



# WPLE

## Right-Angle Bevel-Planetary Servo Gearhead

With Tapped Mounting Holes



DIMENSIONS mm (in.)		Tol. / #	WPLE 40	WPLE 60	WPLE 80	WPLE 120
<b>D1</b>	Output flange bolt circle		34 (1.338)	52 (2.047)	70 (2.755)	100 (3.937)
<b>D3</b>	Shaft diameter	h7	10 (0.393)	14 (0.551)	20 (0.787)	25 (0.984)
<b>D4</b>	Shaft collar diameter		12 (0.472)	17 (0.669)	25 (0.984)	35 (1.377)
<b>D5</b>	Pilot diameter	h7	26 (1.023)	40 (1.574)	60 (2.362)	80 (3.149)
<b>D6</b>	Planetary housing diameter		40 (1.574)	60 (2.362)	80 (3.149)	115 (4.527)
<b>G1</b>	Output flange M thread x depth	4	M4 x 6	M5 x 8	M6 x 10	M10 x 16
<b>L1</b>	Unit min. overall length	1-Stage	110 (4.330)	147.5 (5.807)	184 (7.244)	249.5 (9.822)
		2-Stage	123 (4.842)	159.5 (6.279)	201.5 (7.933)	276.5 (10.885)
		3-Stage	135 (5.315)	172.5 (6.791)	219 (8.622)	303.5 (11.948)
<b>L2</b>	Planetary housing length.	1-Stage	39 (1.535)	47 (1.850)	60.5 (2.381)	74 (2.913)
		2-Stage	52 (2.040)	59 (2.322)	77.5 (3.051)	101 (3.976)
		3-Stage	64 (2.519)	72 (2.834)	95 (3.740)	128 (5.039)
<b>L3</b>	Shaft length (from mounting face)		26 (1.023)	35 (1.377)	40 (1.574)	55 (2.165)
<b>L4</b>	Shaft length (from the collar)		23 (0.905)	30 (1.181)	36 (1.417)	50 (1.968)
<b>L5</b>	Key length		18 (0.708)	25 (0.984)	28 (1.102)	40 (1.574)
<b>L6</b>	Key location (from shaft end)		2.5 (0.098)	2.5 (0.098)	4 (0.157)	5 (0.196)
<b>L7</b>	Pilot length		2 (0.078)	3 (0.118)	3 (0.118)	4 (0.157)
<b>B1</b>	Key width		3 (0.118)	5 (0.196)	6 (0.236)	8 (0.314)
<b>H1</b>	Shaft + key height		11.2 (20.440)	16 (0.629)	22.5 (0.885)	28 (1.102)
<b>H2</b>	Right-angle housing height		49 (1.929)	69.5 (2.736)	88.3 (3.476)	123.7 (4.870)
<b>Q1</b>	Right-angle housing width		40 (1.574)	60 (2.362)	80 (3.149)	115 (4.527)
<b>D20</b>	Maximum input pinion bore <sup>(1)</sup>		8 (0.314)	14 (0.551)	19 (0.748)	24 (0.944)
<b>Available standard bushings <sup>(1)</sup></b>		mm	4; 5; 6; 6.35	6; 6.35; 7; 8; 9; 9.525; 10; 11; 12; 12.7	9.525; 10; 11; 12; 12.7; 14; 15.875; 16	11; 12.7; 14; 15.875; 16; 19; 19.05; 22; 22.22
<sup>(1)</sup> For motor shaft smaller than D20, a precision standard bushing is supplied.		Inch	.157; .196; .236; .250	.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
<b>Motor-dependent dimensions: D21*, D22*, L1A*, L20*, L21*, L22*, L23*, G3*, Q3*</b>			<b>Adapter / Input housing dimensions and unit overall length depend on motor output geometry. A motor-specific adapter / Input housing is supplied with every gearhead.</b>			
<b>L22* - dimension calculation</b>			Determine L22* calc = motor shaft length + Δ L , if L22* calc ≤ 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			6 (0.236)	7 (0.276)	8.8 (0.346)	18.2 (0.741)
L22* minimum			19 (0.748)	16 (0.63)	21.2 (0.835)	21.8 (0.858)