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INTEGRATED SOLUTION

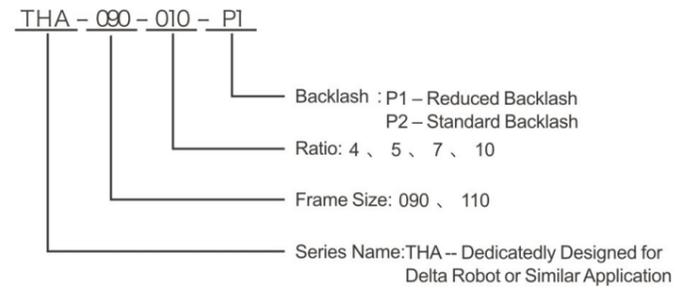


LEADER PRECISION TRANSMISSION

THA Series - Planetary Reducer



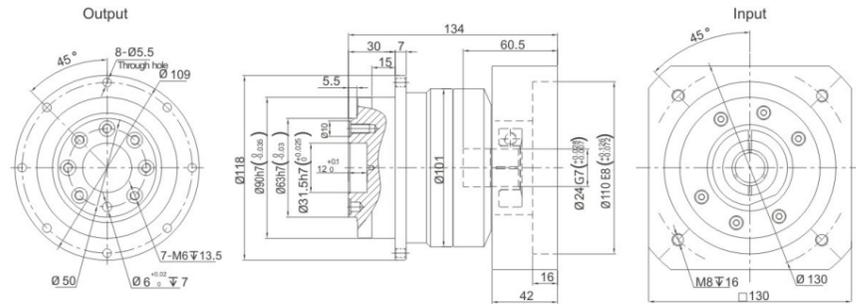
Ordering Code Example:



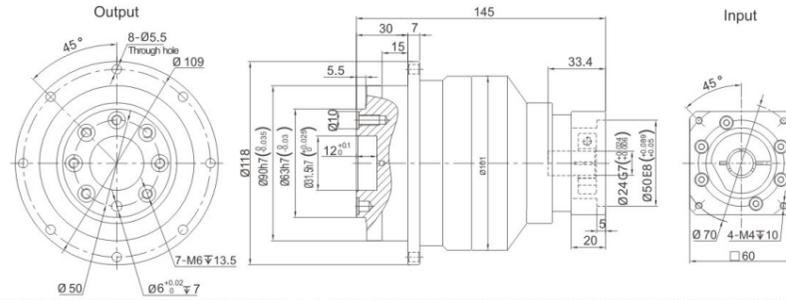
Technical Features:

- ☑ High Output Torque
- ☑ Low Backlash
- ☑ Low Noise
- ☑ Enhanced Output Rigidity and Inertia Moment
- ☑ Extremely High Durability and Precision
- ☑ Flexible Installation

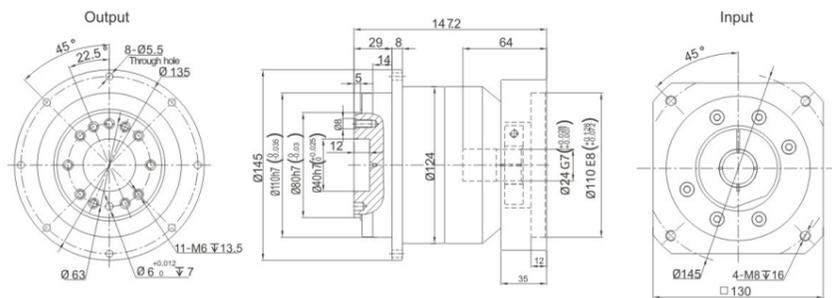
THA090-L1



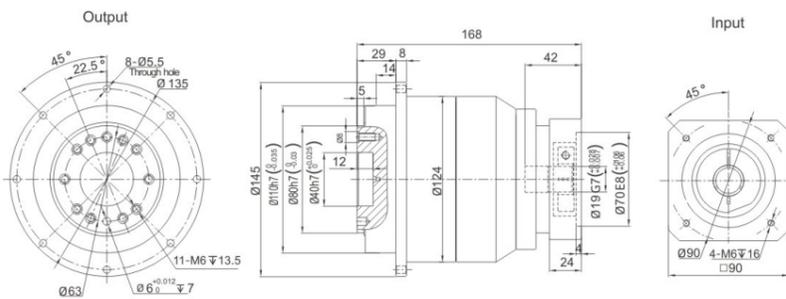
THA090-L2



THA110-L1



THA110-L2



	THA090										THA110													
	One Stage					Two Stage					One Stage					Two Stage								
Speed Ratio	i	4	5	7	10	20	25	35	40	50	70	100	4	5	7	10	20	25	35	40	50	70	100	
Normal Output Torque	T ₁	Nm	135	160	140	105	135	160	140	125	160	140	105	295	335	310	240	295	335	310	270	335	310	240
Emergency Stop Torque	T ₂	Nm	T ₁ × 3					T ₁ × 3					T ₁ × 3					T ₁ × 3						
Normal Input Speed	S ₁	rpm	3700					4500					3700					4500						
Maximum Input Speed	S ₂	rpm	6000					7000					6000					7000						
Maximum Output Torque	T ₄	Nm	T ₁ × 3 × 60%					T ₁ × 3 × 60%					T ₁ × 3 × 60%					T ₁ × 3 × 60%						
Maximum Bending Moment	M _s	Nm	280					280					480					480						
Maximum Axial Force	F _b	N	3700					3700					5800					5800						
Torsional Rigidity	-	Nm/arcmin	40					40					92					92						
Efficiency	η	%	≥97					≥94					≥97					≥94						
Service Life	-	h	30000					30000					30000					30000						
Noise	-	dB	≤59					≤59					≤60					≤60						
Weight	-	kg	4.8					4.5					7					9						
Backlash	-	arcmin	≤3					≤3					≤3					≤3						
Operating Temperature	-	°C	-20~90																					
Lubrication	-		Synthetic Grease																					
Protection Class	-		IP65																					
Mounting Position	-		Any Direction																					
Moment of Inertia	J	kg.cm ²	0.51	0.47	0.45	0.44	0.13	2.87	2.71	2.62	2.57	0.47	0.44											

Notes:

- ⚙️ Speed ratio (i=S₁/S₂)
- ⚙️ When the output speed is 100rpm, it acts on the center position of the output shaft.
- ⚙️ Continuous operating life is 10,000 hours.
- ⚙️ The noise value is based on the input speed 3000rpm, i=10.