

PARAMAX® 9000 Series	Engineering Data
Input Speed and Lubrication	9P3-001E
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<p>1. Input Speed</p> <p>This manual shows the standard lubrication system when the input speed is within the standard input speed range (Refer to the next page). When the input speed exceeds the standard input speed range, consult factory after checking the operating condition in detail. The lubrication system is determined according to the operating condition.</p> <p>2. Gearbox</p> <p>This manual is applied to the standard gearbox. Lubrication system for specially designed gearboxes may be completely different from the standard lubrication system. Consult the factory for the lubrication system of upright mounted gearboxes (W).</p>	
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Input Speed and Lubrication

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Mounting	Shaft Position	Number of gear stages	Gearbox Size	Lubrication	Input Speed (r/min)					
					200	500	1000	1500	1800	
Horizontal Mounting	Parallel Shaft	Double Reduction	9015 ~ 9055	Oilbath						
			9060 ~ 9085	Splash lubrication	■					
			9090 , 9095							
			9100 , 9105							
		9110 , 9115								
		Triple Reduction	9015 ~ 9055	Oilbath						
			9060 ~ 9085	Splash lubrication	■					
			9090 ~ 9115							
	Quadruple Reduction	9030 ~ 9055	Oilbath							
		9060 ~ 9085	Splash lubrication	■						
		9090 ~ 9115								
	Right Angle Shaft	Double Reduction	9015 ~ 9055	Oilbath						
			9060 ~ 9075	Splash lubrication	■					
			9080 , 9085							
			9095		Forced lubrication (Electric pump)					
		9105 , 9115								
Triple Reduction		9030 ~ 9055	Oilbath							
		9060 ~ 9085	Splash lubrication	■						
		9090 , 9095								
		9100 ~ 9115								
Quadruple Reduction		9040 ~ 9115	Oilbath							
Vertical Mounting	Parallel Shaft	Double Reduction	9015 ~ 9085	Forced lubrication (Shaft driven pump)	■					
			9090 , 9095	Forced lubrication (Electric pump)						
			9100 , 9105							
		9110 , 9115								
		Triple Reduction	9015 ~ 9085	Forced lubrication (Shaft driven pump)	■					
			9090 ~ 9115	Forced lubrication (Electric pump)						
	Quadruple Reduction	9030 ~ 9105	Forced lubrication (Shaft driven pump)	■						
		9110 , 9115	Forced lubrication (Electric pump)							
	Right Angle Shaft	Double Reduction	9015 ~ 9055	Forced lubrication (Shaft driven pump)	■					
			9060 ~ 9075			(Note4)				
			9080 , 9085			(Note4)				
		Triple Reduction	9030 ~ 9085							
			9090 , 9095							
			9100 ~ 9115		Forced lubrication (Electric pump)					
Quadruple Reduction	9040 ~ 9115	Forced lubrication (Shaft driven pump)	■							

Notes)

- Standard input speed range is shown in the white region.
- Consult factory for non-standard lubrication or input speed per the above chart.
- Lubrication may be changed when heat capacity, noise Level, etc. are not within the limits of this table.
- Depending on the reduction ratio and rotation speed, external piping may be necessary. Consult factory for details.