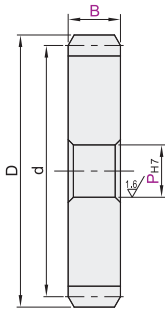


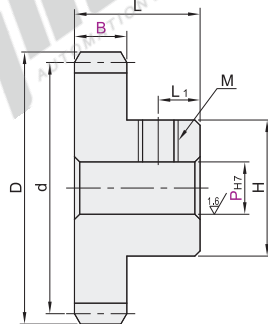


Gear Shape

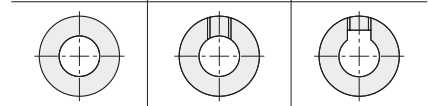
A Shape



B Shape

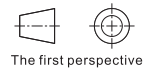


Shaft Bore Specifications P Shape Selection



- ① The Straight Bore+Tap is only suitable for B-shape.
- ① If the Keyway+Tap is A-shaped, there are no screw holes and set screws.
- ① For Keyway dimensions, please refer to the product introduction.

Unhardened gear accuracy JIS B 1702-1 Class 8
Hardened gear accuracy JIS B 1702-1 Class 9



Part Number	Code	Module	Number of Teeth	B	Gears Shape	Shaft Bore Dia. P _{H7} 1 mm Inc.		d	D	H	L	L ₁	M
						Straight Bore	Keyway+Tap						
Straight Bore VNP02 VNP03			12	2.5	A	8~13	8N	30	35	23	38	6.5	M5
			14			8~15	8N~12N	35	40	25			
			15			8~20	8N~15N	37.5	42.5	30			
			16			8~22	8N~17N	40	45	32			
			17			8~24	8N~19N	42.5	47.5	35			
			18			8~26	8N~22N	45	50	38			
			19			8~27	8N~22N	47.5	52.5	39			
			20			8~28	8N~23N	50	55	40			
			21			8~29	8N~25N	52.5	57.5	42			
			22			8~30	8N~27N	55	60	44			
			23			8~32	8N~28N	57.5	62.5	46			
			24			8~33	8N~30N	60	65	48			
			25			8~35	8N~31N	62.5	67.5	50			
			26			8~38	8N~35N	65	70	55			
			27			8~42	8N~38N	67.5	72.5	60			
			28			8~43	8N~39N	70	75				
			29			8~45	8N~41N	72.5	77.5	62			
			30			8~49	8N~45N	75	80	65			
			32					80	85				
			34					85	90	70			
Straight Bore + Tap VNP12 VNP13			35		B	10~49	10N~45N	87.5	92.5				
			36			10~52	10N~48N	90	95	75	42	8.5	
			38					95	100				
			40					100	105				
Keyway+Tap VNP22 VNP23			42		B			105	110				
			44			10~56	10N~50N	110	115	80			
			45					112.5	117.5				
			46					115	120				
			48			10~59		120	125				M6
			50			12~59	12N~50N	125	130				
			52					130	135				
			54					135	140				
			55			15~59	15N~50N	137.5	142.5				
			56					140	145				
			58					145	150				
			60					150	155				
			62					155	160				
			64					160	165				
			65					162.5	167.5				
			68			25~59	25N~50N	170	175				
			70					175	180				
			72					180	185				
			75					187.5	192.5				
			80					200	205				

Code	Spec.						
HC90	Adds another set screw at 90° position ① Adds another set screw at 90° position. ① Not applicable to Shape A.						
HC120	Adds another set screw at 120° position ① Adds another set screw at 120° position. ① Not applicable to Shape A.						
MC()	Change Tapped Hole Dimensions ① Tapped hole designation table <table border="1"> <thead> <tr> <th>Number of Teeth</th><th>MC</th></tr> </thead> <tbody> <tr> <td>12~24</td><td>M4 M6</td></tr> <tr> <td>25~80</td><td>M5 M8</td></tr> </tbody> </table> ① Not applicable to Shape A.	Number of Teeth	MC	12~24	M4 M6	25~80	M5 M8
Number of Teeth	MC						
12~24	M4 M6						
25~80	M5 M8						

Part Number	Code	Module	Number of Teeth	B	Gears Shape	Shaft Bore Dia. P _{H7}	Optional Processing
VNP02	2.5	12	25	A	8~13	8N	
VNP02	2.5	14	25	B	8~15	8N~12N	
VNP02	2.5	15	25	B	8~20	8N~15N	

VNP02-2.5-15-B-25-B-P8

Part Number	Code	Module	Number of Teeth	B	Gears Shape	Shaft Bore Dia. P _{H7}	Optional Processing
VNP22	2.5	14	25	A	8~13	8N	HC90 HC120 MC()
VNP22	2.5	15	25	B	8~15	8N~12N	
VNP22	2.5	15	25	B	8~20	8N~15N	

VNP22-2.5-15-B-25-B-P10N-HC90

Discount price	Delivery
Per 1~4 5~	12
Price 100% Additional quotation	