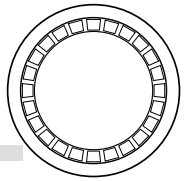


# Hirth Coupling



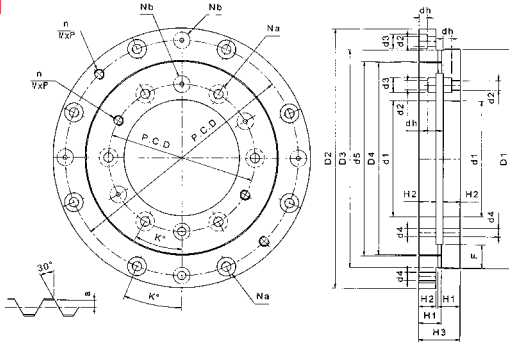
3 PCS HIRTH COUPLING

- ◎ We offer all kinds of specifications which including 24T, 36T, 40T, 48T, 60T, 72T, 360T, besides special orders also acceptable.
- ◎ Use SCM21 material, after heat treating it has high rigidity & durable impact force.
- ◎ High accuracy, interchangeable.
- ◎ Indexing accuracy:  $\pm 3$  sec, repeatability:  $\pm 1$  sec.
- ◎ High QC inspection, accuracy remains the same after long term use.

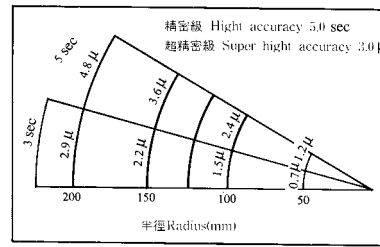
Reference Chart of Roatry Table DIA. & Hirth Coupling O.D.

Rotary Table DIA	Ø300	Ø400	Ø500	Ø630	Ø800	Ø1000
Coupling O.D.	Ø250	Ø320	Ø400	Ø450	Ø600	Ø800

## DIMENSION



## COMPARISON CHART BETWEEN ANGLE ACCURACY & LINEAR TOLERANCE



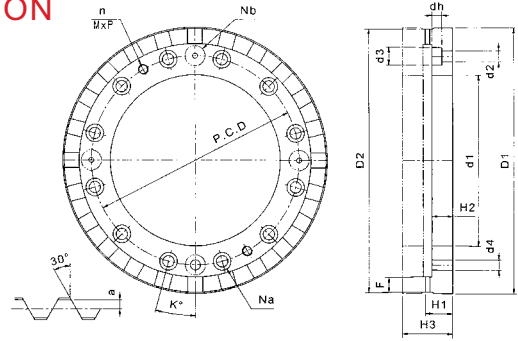
NO.	Model NO.	Outside DIA. D1	Outside DIA. D2	Inside DIA. d1	Number of teeth N	Teeth profile F	Topend thickness of teeth H1	Inside thickness H2	Total thickness H3	Fixed bolt hole				Positioning pin hole			Withdraw bolt hole			Pitch of top end a	Allowance of pitch top end $\pm A$		
										Number of holes Na	P · C · D · d2	Hole DIA. d3	Top DIA. d4	Depth of hole Nb	P · C · D · K'	Angle of hole d4	Hole DIA. n	Number of teeth hole P · C · D · Mxp	Spec. of teeth a				
1	024135-060 X, V1	135	-	60	24	18	18.75	13.5	34	6	80	6.6	11	6.0	3	80	30°	8	2	80	M8x1.25	1.75	1.55
	vo	-	175	-	24	-	18.75	13.5	34	8	150	M10	14	8.5	3	150	22.5°	8	2	150	M8x1.25	1.75	1.55
2	024200-120 X, V1	200	-	120	24	20	21.75	16.5	40	8	140	9.0	14	8.0	3	140	22.5°	8	2	140	M8x1.25	1.75	1.55
	vo	-	255	-	24	-	21.75	16.5	40	10	224	M12	17.5	10.5	3	224	18°	10	2	224	M10x1.50	1.75	1.55
3	030200-120 X, V1	200	-	120	30	20	21.75	16.5	40	8	140	9.0	14	8.0	3	140	22.5°	8	2	140	M8x1.25	1.75	1.55
	vo	-	255	-	30	-	21.75	16.5	40	10	224	M12	17.5	10.5	3	224	18°	10	2	224	M10x1.50	1.75	1.55
4	0360250-180 X, V1	250	-	180	360	8	20.2	18	40	12	205	11.0	17.5	10.0	3	205	15°	10	2	205	M10x1.5	0.2	0.17
	vo	-	300	-	360	8	20.2	18	40	12	270	M12	17.5	10.5	3	270	15°	12	4	270	M12x1.75	0.2	0.17
5	024270-160 X, V1	270	-	160	24	24	21.75	16.5	40	8	195	11.0	17.5	10.0	3	195	22.5°	10	2	195	M10x1.50	1.75	1.55
	vo	-	330	-	24	-	21.75	16.5	40	12	300	M14	20	12.5	3	300	15°	12	4	300	M12x1.75	1.75	1.55
6	030270-160 X, V1	270	-	160	30	24	21.75	16.5	40	8	195	11.0	17.5	10.0	3	195	22.5°	10	2	195	M10x1.50	1.75	1.55
	vo	-	330	-	30	-	21.75	16.5	40	12	300	M14	20	12.5	3	300	15°	12	4	300	M12x1.75	1.75	1.55
7	0360270-160 X, V1	270	-	160	360	10	20.2	18	40	8	220	11.0	17.5	10.0	3	220	22.5°	10	2	220	M10x1.5	0.2	0.17
	vo	-	300	-	360	10	20.2	18	40	12	300	M14	20	12.5	3	300	15°	12	4	300	M12x1.75	0.2	0.17
8	048335-220 X, V1	335	-	220	48	24	25.75	20.5	48	12	258	13.0	20	12.0	3	258	15°	12	4	258	M12x1.75	1.75	1.55
	vo	-	400	-	48	-	25.75	20.5	48	12	360	13.0	20	12.5	3	360	15°	12	4	360	M12x1.75	1.75	1.55
9	048425-300 X, V1	425	-	300	48	28	26.75	21.5	50	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12x1.75	1.75	1.56
	vo	-	482	-	48	-	26.75	21.5	50	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12x1.75	1.75	1.55
10	060425-3000 X, V1	425	-	300	60	28	26.75	21.5	50	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12x1.75	1.75	1.55
	vo	-	482	-	60	-	26.75	21.5	50	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12x1.75	1.75	1.55
11	072425-300 X, V1	425	-	300	72	28	26.75	21.5	50	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12x1.75	1.75	1.55
	vo	-	482	-	72	-	26.75	21.5	50	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12x1.75	1.75	1.55
12	0360425-300 X, V1	425	-	300	360	20	26	21.5	50	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12x1.75	1	0.9
	vo	-	482	-	360	-	26	21.5	50	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12x1.75	1	0.9
13	048540-415 X, V1	540	-	415	48	32	29.25	24.0	55	12	450	13.0	20	12.0	3	450	15°	12	4	450	M12x1.75	1.75	1.55
	vo	-	604	-	48	-	29.25	24.0	55	12	570	17.0	26	16.5	3	570	15°	12	4	570	M12x1.75	1.75	1.55
14	060540-415 X, V1	540	-	415	60	32	29.25	24.0	55	12	450	13.0	20	12.0	3	450	15°	12	4	450	M12x1.75	1.75	1.55
	vo	-	604	-	60	-	29.25	24.0	55	12	570	17.0	26	16.5	3	570	15°	12	4	570	M12x1.75	1.75	1.55
15	072540-415 X, V1	540	-	415	72	32	29.25	24.0	55	12	450	13.0	20	12.0	3	450	15°	12	4	450	M12x1.75	1.75	1.55
	vo	-	604	-	72	-	29.25	24.0	55	12	570	17.0	26	16.5	3	570	15°	12	4	570	M12x1.75	1.75	1.55
16	0360540-415 X, V1	540	-	415	360	24	29	24.0	55	12	450	13.0	20	12.0	3	450	15°	12	2	450	M12x1.75	1.5	1.4
	vo	-	604	-	360	-	29	24.0	55	12	570	17.0	26	16.5	3	570	15°	12	2	570	M12x1.75	1.5	1.4

Coupling



2 PCS HIRTH COUPLING

### DIMENSION



NO.	Model NO.	Outside DIA. D <sub>1</sub>	Outside DIA. D <sub>2</sub>	Inside DIA. d <sub>1</sub>	Number of teeth N	Teeth profile F	Topend thickness of teeth			Total thickness H <sub>3</sub>	Fixed bolt hole				Positioning pin hole			Withdraw bolt hole					
							H <sub>1</sub>	H <sub>2</sub>			Number of holes N <sub>a</sub>	P . C . D . d <sub>2</sub>	Hole DIA. d <sub>3</sub>	Top DIA. d <sub>h</sub>	Depth of hole d <sub>h</sub>	Number of pin hole N <sub>b</sub>	P . C . D . K°	Angle of hole K°	Hole DIA. d <sub>4</sub>	Number of teeth hole n			P . C . D .
1	24080-44XV	80	79	44	24	8	15.30	12.0	29	6	60	M8	11.0	8.8	4	55	30°	Ø2	6	60	M8x1.25	2	1.8
2	20100-40XV	100	98	40	20	9	18.37	14.0	34	6	60	6.6	11.0	6.0	3	60	30°	8	2	60	M8x1.25	1.37	1.22
3	24100-40XV	100	98	40	24	8	18.30	14.0	34	6	60	6.6	11.0	6.0	3	60	30°	8	2	60	M8x1.25	1.3	1.15
4	24120-60XV	120	118	60	24	8	18.30	14.0	34	6	80	6.6	11.0	6.0	4	80	30°	8	2	80	M8x1.25	1.3	1.15
5	30120-60XV	120	118	60	30	7	19.3	14.0	34	6	80	6.6	11.0	6.0	4	80	30°	8	2	80	M8x1.25	2.3	2
6	36140-80XV	140	138	80	36	11	18.52	14.0	34	6	100	6.6	11.0	6.0	3	100	30°	8	2	100	M8x1.25	2.5	2.2
7	24160-100XV	160	158	100	24	9	21.73	16.5	40	8	118	9.0	14.0	8.0	4	118	22.5°	10	2	118	M8x1.25	2.5	2.3
8	24180-120XV	180	178	120	24	9	21.61	16.5	40	8	140	9.0	14.0	8.0	3	140	22.5°	8	2	140	M8x1.25	1.61	1.44
9	36180-120XV	180	178	120	36	9	21.37	16.5	40	8	140	9.0	14.0	8.0	3	140	22.5°	8	2	140	M8x1.25	1.37	1.22
10	40180-120XV	180	178	120	40	9	21.76	16.5	40	8	140	9.0	14.0	8.0	3	140	22.5°	8	2	140	M8x1.25	1.76	1.57
11	24200-120XV	200	198	120	24	9	21.63	16.5	40	8	150	9.0	14.0	8.0	4	150	22.5°	8	2	150	M8x1.25	1.63	1.45
12	36200-120XV	200	198	120	36	11	21.52	16.5	40	8	150	9.0	14.0	8.0	3	150	22.5°	8	2	150	M8x1.25	1.52	1.36
13	72200-120XV	200	198	120	72	9	20.99	16.5	40	8	150	9.0	14.0	8.0	3	150	22.5°	8	2	150	M8x1.25	0.99	0.89
14	48210-135XV	210	208	135	48	13	21.71	16.5	40	12	165	9.0	14.0	8.0	3	158	15°	10	2	165	M8x1.25	1.71	1.53
15	60250-160XV	250	248	160	60	9	21.63	16.5	40	8	195	11.0	17.5	10.0	3	195	22.5°	10	2	195	M10x1.50	1.63	1.45
16	72250-160XV	250	248	160	72	11	21.42	16.5	40	8	195	11.0	17.5	10.0	3	195	22.5°	10	2	195	M10x1.50	1.42	1.27
17	360250-160XV	250	248	160	360	7	20.5	16.5	40	8	195	11.0	17.5	10.0	3	195	22.5°	10	2	195	M10x1.5	0.5	0.4
18	72280-190XV	280	278	190	72	11	21.42	16.5	40	8	222	13.0	20.2	12.0	3	222	22.5°	10	2	222	M10x1.50	1.42	1.27
19	360280-190XV	280	278	190	360	8	20.6	16.5	40	8	222	13.0	20.2	12.0	4	222	22.5°	10	2	222	M10x1.5	0.6	0.5
20	60320-210XV	320	318	210	60	11	30.46	25.5	58	10	258	13.0	20.2	12.0	4	258	18°	12	4	258	M12x1.75	1.46	1.30
21	72320-210XV	320	318	210	72	11	30.74	25.5	58	12	258	13.0	20.2	12.0	3	258	15°	12	4	258	M12x1.75	1.74	1.55
22	360320-210XV	320	318	210	360	9	29.6	25.5	58	12	258	13.0	20.2	12.0	3	258	15°	12	4	258	M12x1.75	0.6	0.5
23	48400-280XV	400	398	280	48	13	31.52	26.0	60	12	335	13.0	20.2	12.0	3	335	15°	12	4	335	M12x1.75	1.52	1.36
24	60400-280XV	400	398	280	60	15	31.82	26.0	60	12	335	13.0	20.2	12.0	3	335	15°	12	4	335	M12x1.75	1.82	1.62
25	72400-280XV	400	398	280	72	13	31.52	26.0	60	12	335	13.0	20.2	12.0	3	335	15°	12	4	335	M12x1.75	1.52	1.36
26	360400-280XV	400	398	280	360	13	30.6	26.0	60	12	335	13.0	20.0	12.0	3	335	15°	12	4	335	M12x1.75	0.6	0.5
27	48520-415XV	520	518	415	48	15	31.97	26.0	60	12	450	13.0	20.2	12.0	3	450	15°	12	4	450	M12x1.75	1.97	1.76
28	72520-415XV	520	518	415	72	15	31.97	26.0	60	12	450	13.0	20.2	12.0	3	450	15°	12	4	450	M12x1.75	1.97	1.76
29	360520-415XV	520	518	415	360	15	30.8	26.0	60	12	450	13.0	20.2	12.0	3	450	15°	12	4	450	M12x1.75	0.8	0.7
30	60600-480XV	600	598	480	60	15	36.95	29.0	70	12	530	17.0	26.0	16.0	4	530	15°	12	4	530	M12x1.75	1.95	1.74
31	72600-480XV	600	598	480	72	19	37.28	29.0	70	12	530	17.0	26.0	16.0	3	530	15°	12	4	530	M12x1.75	2.28	2.04
32	360600-480XV	600	598	480	360	15	36	29.0	70	12	530	17.0	26.0	16.0	3	530	15°	12	4	530	M12x1.75	1	0.9
33	72700-560XV	700	698	560	72	19	36.70	29.0	70	12	610	17.0	26.0	16.0	3	610	15°	14	4	610	M12x1.75	1.70	1.50
34	360700-560XV	700	698	560	360	19	36	29.0	70	12	610	17.0	26.0	16.0	3	610	15°	14	4	610	M12x1.75	1	0.9
35	721000-830XV	1000	998	830	72	22	61.70	54.5	120	18	900	17.0	26.0	16.0	4	900	10°	-	4	900	M12x1.75	1.70	1.50
36	3601000-830XV	1000	998	830	360	22	61.5	54.5	120	18	900	17.0	26.0	16.0	4	900	10°	-	4	900	M12x1.75	1.75	1.4
37	721200-1000XV	1200	1198	1000	72	22	71.70	64.5	140	20	1080	21.0	32.0	20.0	4	1080	9°	-	4	1080	M16x2.00	1.70	1.50
38	3601200-1000XV	1200	1198	1000	360	22	71.6	64.5	140	20	1080	21.0	32.0	20.0	4	1080	9°	-	4	1080	M16x2.00	1.6	1.5