

Hirth Coupling - 2pcs / 3pcs



**Hirth Coupling**

**Features**

- 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.

**3 PCS**      **2 PCS**

**Specification**

No.	MODEL NO.		Outside DIA	Outside DIA	Inside DIA	Number of teeth	Teeth profile	Topend thickness of teeth	Inside thickness	Total thickness	Pitchof top end	Allowance of pitch top end
			D1	D2	d1	N	F	H1	H2	H3	a	$\pm A$
1	024135-060	x.v1	135	-	60	24	18	18.75	13.5	34	1.75	1.55
		v 0	-	175	-	24	-	18.75	13.5	34	1.75	1.55
2	024200-120	x.v1	200	-	120	24	20	21.75	16.5	40	1.75	1.55
		v 0	-	255	-	24	-	21.75	16.5	40	1.75	1.55
3	030200-120	x.v1	200	-	120	30	20	21.75	16.5	40	1.75	1.55
		v 0	-	255	-	30	-	21.75	16.5	40	1.75	1.55
4	0360250-180	x.v1	250	-	180	360	8	20.2	18	40	0.2	0.17
		v 0	-	300	-	360	-	20.2	18	40	0.2	0.17
5	024270-160	x.v1	270	-	160	24	24	21.75	16.5	40	1.75	1.55
		v 0	-	330	-	24	-	21.75	16.5	40	1.75	1.55
6	030270-160	x.v1	270	-	160	30	24	21.75	16.5	40	1.75	1.55
		v 0	-	330	-	30	-	21.75	16.5	40	1.75	1.55
7	0360270-160	x.v1	270	-	160	360	10	20.2	18.18	40	0.2	0.17
		v 0	-	300	-	360	10	20.2	20.5	40	0.2	0.17
8	048335-220	x.v1	335	-	220	48	24	25.75	20.5	48	1.75	1.55
		v 0	-	400	-	48	-	25.75	21.5	48	1.75	1.55
9	048425-300	x.v1	425	-	300	48	28	26.75	21.5	50	1.75	1.55
		v 0	-	482	-	48	-	26.75	21.5	50	1.75	1.55
10	060425-3000	x.v1	425	-	300	60	28	26.75	21.5	50	1.75	1.55
		v 0	-	482	-	60	-	26.75	21.5	50	1.75	1.55
11	072425-300	x.v1	425	-	300	72	28	26.75	21.5	50	1.75	1.55
		v 0	-	482	-	72	-	26.75	21.5	50	1.75	1.55
12	0360425-300	x.v1	425	-	300	360	20	26	21.5	50	1	0.9
		v 0	-	482	-	360	-	26	21.5	50	1	0.9
13	048540-415	x.v1	540	-	415	48	32	29.25	24	55	1.75	1.55
		v 0	-	604	-	48	-	29.25	24	55	1.75	1.55
14	060540-415	x.v1	540	-	415	60	32	29.25	24	55	1.75	1.55
		v 0	-	604	-	60	-	29.25	24	55	1.75	1.55
15	072540-415	x.v1	540	-	415	72	32	29.25	24	55	1.75	1.55
		v 0	-	604	-	72	-	29.25	24	55	1.75	1.55
16	0360540-415	x.v1	540	-	415	360	24	29	24	55	1.5	1.4
		v 0	-	604	-	360	-	29	24	55	1.5	1.4

No.	MODEL NO.		Fixed bolt hole				Positioning pin hole				Withdraw bolt hole			
			Number of holes	P.C.D .	Hole DIA	Top DIA	Depth of hole	Number of pin hole	P.C.D .	Angle of hole	Hole DIA	Number of teeth hole	P.C.D .	Spec. of teeth
1	024135-060	x.v1	6	80	6.6	11	6.0	3	80	30°	8	2	80	M8 x 1.25
		v 0	8	150	M10	14	8.5	3	150	22.5°	8	2	150	M8 x 1.25
2	024200-120	x.v1	8	140	9.0	14	8.0	3	140	22.5°	8	2	140	M8 x 1.25

3	030200-120	v 0	10	224	M12	17.5	10.5	3	224	18°	10	2	224	M10 x 1.5
		x.v 1	8	140	9.0	14	8.0	3	140	22.5°	8	2	140	M8 x 1.25
		v 0	10	224	M12	17.5	10.5	3	224	18°	10	2	224	M10 x 1.5
4	0360250-180	x.v 1	12	205	11.0	17.5	10.0	3	205	15°	10	2	205	M8 x 1.5
		v 0	12	270	M12	17.5	10.5	3	270	15°	12	4	270	M12 x 1.75
5	024270-160	x.v 1	8	195	11.0	17.5	10.0	3	195	22.5°	10	2	195	M10 x 1.5
		v 0	12	300	M14	20	12.5	3	300	15°	12	4	300	M12 x 1.75
6	030270-160	x.v 1	8	195	11.0	17.5	10.0	3	195	22.5°	10	2	195	M10 x 1.5
		v 0	12	300	M14	20	12.5	3	300	15°	12	4	300	M12 x 1.75
7	0360270-160	x.v 1	8	220	11.0	17.5	10.0	3	220	22.5°	10	2	220	M10 x 1.5
		v 0	12	300	M14	20	12.5	3	300	15°	12	4	300	M12 x 1.75
8	048335-220	x.v 1	12	258	13.0	20	12.0	3	258	15°	12	4	258	M12 x 1.75
		v 0	12	360	13.0	20	12.5	3	360	15°	12	4	360	M12 x 1.75
9	048425-300	x.v 1	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12 x 1.75
		v 0	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12 x 1.75
10	060425-3000	x.v 1	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12 x 1.75
		v 0	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12 x 1.75
11	072425-300	x.v 1	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12 x 1.75
		v 0	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12 x 1.75
12	0360425-300	x.v 1	12	335	13.0	20	12.0	3	335	15°	12	4	335	M12 x 1.75
		v 0	12	450	13.0	20	12.5	3	450	15°	12	4	450	M12 x 1.75
13	048540-415	x.v 1	12	450	13.0	20	12.0	3	450	15°	12	4	450	M12 x 1.75
		v 0	12	570	17.0	26	16.5	3	570	15°	12	4	570	M12 x 1.75
14	060540-415	x.v 1	12	450	13.0	20	12.0	3	450	15°	12	4	450	M12 x 1.75
		v 0	12	570	17.0	26	16.5	3	570	15°	12	4	570	M12 x 1.75
15	072540-415	x.v 1	12	450	13.0	20	12.0	3	450	15°	12	4	450	M12 x 1.75
		v 0	12	570	17.0	26	16.5	3	570	15°	12	4	570	M12 x 1.75
16	0360540-415	x.v 1	12	450	13.0	20	12.0	3	450	15°	12	2	450	M12 x 1.75
		v 0	12	570	17.0	26	16.5	3	570	15°	12	2	570	M12 x 1.75

## 2 PCS Hirth Coupling Dimension

No	MODEL NO.	Outside DIA	Outside DIA	Inside DIA	Number of teeth	Teeth profile	Topend thickness of teeth	Inside thickness	Total thickness	Pitch of top end	Allowance of pitch top end
.		D1	D2	d1	N	F	H1	H2	H3	a	± A
1	24080-44XV	80	79	44	24	8	15.3	12.0	29	2	1.8
2	20100-40XV	100	98	40	20	9	18.37	14.0	34	1.37	1.22
3	24100-40XV	100	98	40	24	9	18.3	14.0	34	1.3	1.15
4	24120-60XV	120	118	60	24	8	18.3	14.0	34	1.3	1.15
5	30120-60XV	120	118	60	30	7	19.3	14.0	34	2.3	2
6	36140-80XV	140	138	80	36	11	18.52	14.0	34	2.5	2.2
7	24160-100XV	160	158	100	24	9	21.73	16.5	40	2.5	2.3
8	24180-120XV	180	178	120	24	9	21.61	16.5	40	1.61	1.44
9	36180-120XV	180	178	120	36	9	21.37	16.5	40	1.37	1.22
10	40180-120XV	180	178	120	40	9	21.76	16.5	40	1.76	1.57
11	24200-120XV	200	198	120	24	9	21.63	16.5	40	1.63	1.45
12	36200-120XV	200	198	120	36	11	21.52	16.5	40	1.52	1.36
13	72200-120XV	200	198	120	72	9	20.99	16.5	40	0.99	0.89
14	48210-135XV	210	208	135	48	13	21.71	16.5	40	1.71	1.53
15	60250-160XV	250	248	160	60	9	21.63	16.5	40	1.63	1.45
16	72250-160XV	250	248	160	72	11	21.42	16.5	40	1.42	1.27
17	360250-160XV	250	248	160	360	7	20.5	16.5	40	0.5	0.4
18	72280-190XV	280	278	190	72	11	21.42	16.5	40	1.42	1.27
19	360280-190XV	280	278	190	360	8	20.6	16.5	40	.6	0.5
20	60320-210XV	320	318	210	60	11	30.46	25.5	58	1.46	1.3
21	72320-210XV	320	318	210	72	11	30.74	25.5	58	1.74	1.55
22	360320-210XV	320	318	210	360	9	29.6	25.5	58	0.6	0.5
23	48400-280XV	400	398	280	48	13	31.52	26.0	60	1.52	1.36
24	60400-280XV	400	398	280	60	15	31.82	26.0	60	1.82	1.62
25	72400-280XV	400	398	280	72	13	31.52	26.0	60	1.52	1.36
26	360400-280XV	400	398	280	360	13	30.6	26.0	60	0.6	0.5
27	48520-415XV	520	518	415	48	15	31.97	26.0	60	1.97	1.76
28	72520-415XV	520	518	415	72	15	31.97	26.0	60	1.97	1.76
29	360520-415XV	520	518	415	360	15	30.8	26.0	60	0.8	0.7
30	60600-480XV	600	598	480	60	15	36.95	29.0	70	1.95	1.74
31	72600-480XV	600	598	480	72	19	37.28	29.0	70	2.28	2.04



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