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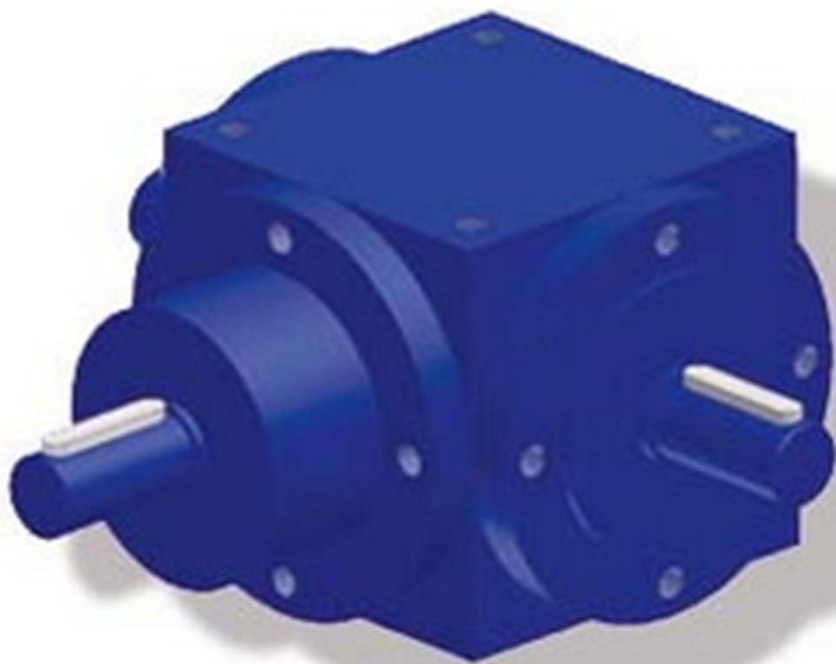
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# GROB

ANTRIEBSTECHNIK

## 锥齿轮变速箱

## Bevel Gearboxes



### 选择标准

- 材料, 配置, 规格, 速比
- 效率、低游隙型号, 安装面
- 首选的旋转方向, 润滑
- 润滑表
- **功率和扭矩表**

### 型号 V

- 输出轴, 低速运行
- 速比:  $i = 1:1$  至  $6:1$
- 最大输出扭矩  $T_{2max} = 2.300 \text{ Nm}$
- 从 065 到 260 mm 7种方形齿轮箱尺寸

### Selection criteria

- Material, configuration, size, ratio
- Efficiency, low-backlash version, mounting side
- Preferred direction of rotation, lubrication, lubrication table
- **Power and torque tables**

### Type V

- *Output shaft, slow running*
- *Ratios:  $i = 1:1$  to  $6:1$*
- *Max. output torque up to  $T_{2max} = 2.300 \text{ Nm}$*
- *7 gearbox sizes from 065 to 260 mm square*

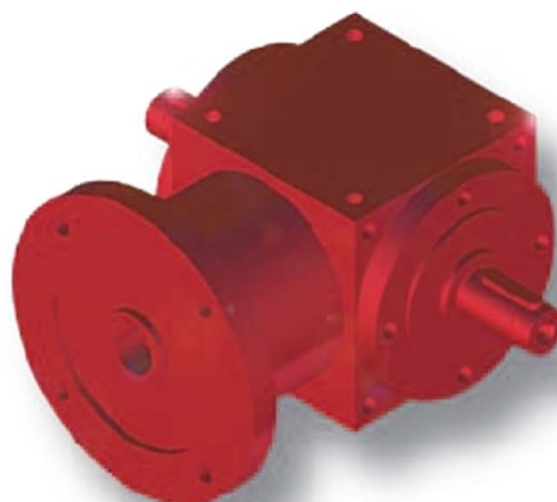


### Typ VL (询价时可提供尺寸)

- 输入侧电机法兰和空心轴
- 适合IEC标准电机安装
- 输出轴, 低速运行
- 速比, 扭矩和规格与型号V相同

### Type VL (dimensions available up on enquiry)

- *Input side with motor flange and hollow shaft*
- *Suitable for mounting to IEC standard motors*
- *Output shaft, slow running*
- *Ratios, torques and sizes same as Type V*



### 轴公差:

轴公差= J6;轴中心螺纹孔符合DIN 332第2页标准; 键槽符合 DIN 6885 第1页标准。在A, B和C侧的安装孔是标准的。D, E和F侧如需要可以增加螺纹孔。请咨询我们。  
安装孔深度=2X螺旋直径或法兰厚度

### V065, V090, V160, V200, V260

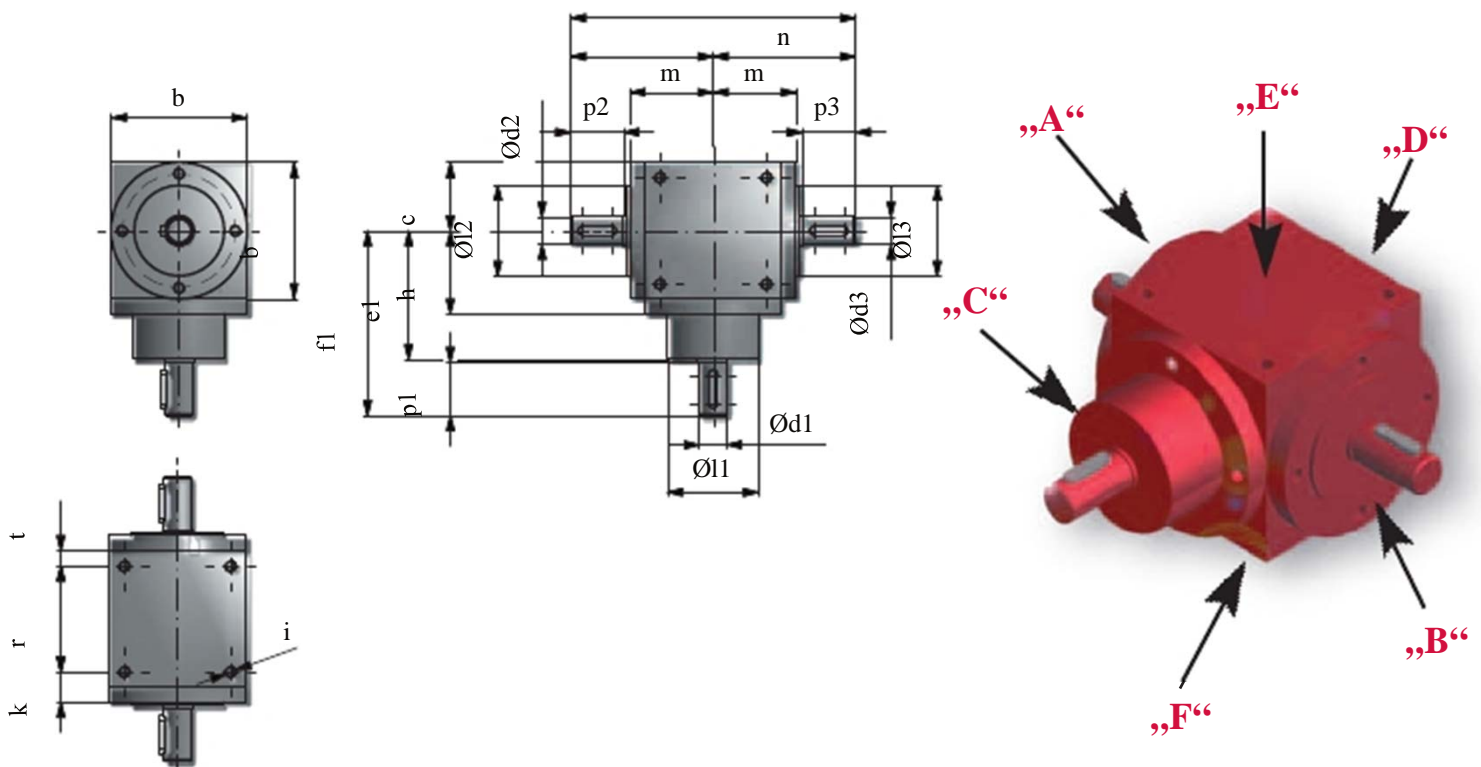
锥齿轮箱一般位于低速转轴的输出轴。

### Shaft tolerances:

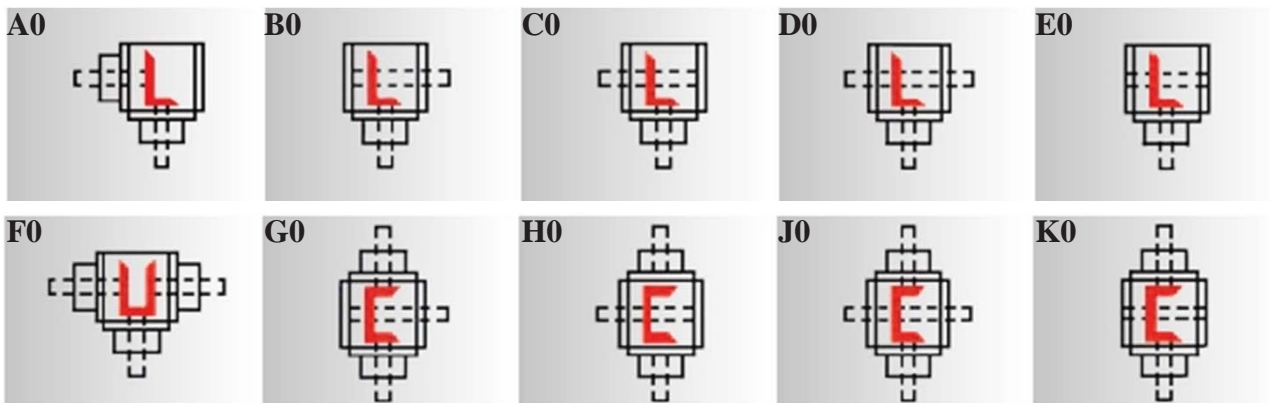
All shafts are toleranced to J6. Shaft centre tapped hole to DIN 332 Page 2. Keyways to DIN 6885 Page 1. Mounting holes on side A, B and C are standard. Additional tapped holes can be provided on side D, E and F or as required, please enquire. Depth of mounting holes = 2 x thread diameter or flange thickness.

### V065, V090, V160, V200, V260

The bevel gear is normally located on the output shaft which is the slow running shaft.



### 配置 Type V/K / Configurations V/K



Index	a		b	c	d1 j <sub>6</sub>			d2 j <sub>6</sub>			d3 j <sub>6</sub>	e1			
	1:1	bis/ up to			1:1	3:1	4:1	5:1	1:1	bis/ up to		bis/ up to	1:1	3:1	4:1
	5:1				5:1				5:1				5:1		
V065	144	65	32,5	12	–	–	–	12	12	72	–	–			
V090	190	90	45	18	12	12	12	18	18	85	85	95			
V120	244	120	60	25	20	20	15	25	25	115	115	125			
V160	320	160	80	35	28	24	24	35	35	150	150	170			
V200	406	200	100	42	35	35	28	42	42	190	190	190			
V260	530	260	130	60	45	45	45	60	60	265	265	265			

Index	f1		h	i	k	l1 r <sub>7</sub>			l2 r <sub>7</sub>	l3 r <sub>7</sub>	m	n		
	1:1	3:1				4:1	5:1	1:1					3:1	5:1
	1,5:1							1,5:1						
V065	100	–	–	–	42	M6	19,5	44	–	–	44	44	–	–
V090	122	122	132	132	55	M8	20	60	60	60	60	60	55	95
V120	162	162	172	162	75	M10	22	80	80	70	80	80	72	122
V160	212	212	232	232	95	M12	35	110	100	100	110	110	95	160
V200	273	261	261	261	120	M12	37	120	120	110	120	120	117	203
V260	380	380	380	380	150	M16	40	160	160	160	160	180	150	285

Index	p1		p2	p3	r	s	t		
	1:1	3:1						1:1	1:1
	1,5:1							4:1	5:1
V065	26	–	–	26	26	45	54	10	
V090	35	35	35	35	35	70	75	10	
V120	45	45	35	45	45	100	100	10	
V160	60	60	60	60	60	120	135	20	
V200	80	68	68	80	80	160	175	20	
V260	110	110	110	110	110	210	230	20	

Index	Paßfedergröße bei d1				Paßfedergröße bei d2 und d3	
	Size of key d1				Size of key d2 and d3	
	1:1	1,5:1	2:1	3:1	4:1	5:1
V065	–	–	–	–	–	–
V090	4 x 20	–	–	4 x 25	–	–
V120	6 x 25	–	–	6 x 36	4 x 25	–
V160	8 x 36	–	–	8 x 45	5 x 25	–
V200	10 x 45	–	–	10 x 45	8 x 45	–
V260	12 x 60	–	–	14 x 70	8 x 45	–
	18 x 90	–	–		14 x 70	–

锥齿轮箱的选型与最大输入功率有关系

最大输入功率P1适用于减速传动比

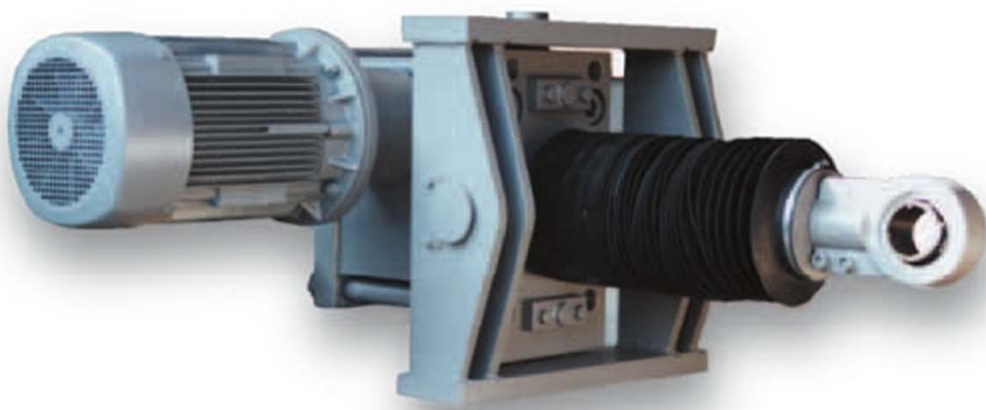
*Selection of bevel gearbox inline with  
maximum input power*

*Max inputpower P1 for reducingratios*

Index	Übersetzungsverhältnis Ratio	Drehzahl				Speed			
		max. P1 in kW bei n <sub>1</sub> in U/min				/ max. P1 in kW by n <sub>1</sub> in rpm			
		50	250	500	750	1000	1500	2400	3000
V 065	1:1	0,10	0,47	0,83	1,07	1,32	1,82	2,65	3,31
	1,5:1	0,07	0,31	0,55	0,72	0,88	1,21	1,76	2,20
	2:1	0,05	0,23	0,41	0,54	0,66	0,91	1,32	1,65
	3:1	–	–	–	–	–	–	–	–
	4:1	–	–	–	–	–	–	–	–
	5:1	–	–	–	–	–	–	–	–
V 090	1:1	0,28	1,21	2,20	3,06	3,75	5,29	7,41	8,93
	1,5:1	0,16	0,74	1,36	1,93	2,35	3,20	4,59	5,51
	2:1	0,10	0,50	0,94	1,32	1,71	2,23	3,17	3,80
	3:1	0,07	0,33	0,63	0,88	1,14	1,49	2,12	2,54
	4:1	0,05	0,25	0,47	0,66	0,85	1,12	1,65	1,90
	5:1	0,04	0,20	0,37	0,53	0,68	0,89	1,32	1,52
V 120	1:1	0,72	3,39	6,34	8,51	10,14	13,56	18,52	21,82
	1,5:1	0,41	1,99	3,85	5,18	6,32	8,60	11,46	13,45
	2:1	0,29	1,35	2,54	3,55	4,46	6,03	8,07	9,26
	3:1	0,21	0,87	1,66	2,40	3,01	4,08	5,56	6,39
	4:1	0,12	0,60	1,16	1,69	2,18	3,06	4,43	4,96
	5:1	0,10	0,51	0,98	1,42	1,76	2,38	3,44	3,97
V 160	1:1	2,09	9,64	18,19	25,63	31,96	42,99	57,67	–
	1,5:1	1,29	6,07	11,56	16,26	20,59	27,78	36,15	40,78
	2:1	0,98	4,41	8,27	11,57	14,88	20,25	25,53	28,11
	3:1	0,57	2,56	4,79	6,89	8,99	12,68	17,81	20,94
	4:1	0,39	1,86	3,58	5,17	6,61	9,09	13,23	14,88
	5:1	0,32	1,49	2,76	3,97	4,96	7,11	10,48	11,90
V 200	1:1	4,13	19,56	34,17	45,88	56,21	74,40	–	–
	1,5:1	2,73	12,70	22,57	30,31	37,13	48,17	63,49	72,75
	2:1	2,07	9,37	16,81	22,32	27,56	35,13	45,24	51,25
	3:1	1,29	5,76	11,04	15,98	20,37	28,38	39,24	46,29
	4:1	0,80	3,79	7,23	10,54	13,36	18,81	26,45	28,93
	5:1	0,58	2,78	5,18	7,27	9,26	12,57	17,99	19,84
V 260	1:1	9,64	42,44	72,75	96,72	115,73	157,07	–	–
	1,5:1	6,18	27,43	47,72	64,48	77,19	104,71	158,72	189,58
	2:1	4,55	20,12	35,27	48,36	57,87	78,53	112,43	133,92
	3:1	2,55	11,16	20,43	28,93	36,34	49,60	72,39	85,97
	4:1	1,82	8,61	16,26	22,73	28,93	37,20	51,58	57,87
	5:1	1,47	7,11	13,23	18,19	21,82	29,10	40,21	46,29

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