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Find the *Wittenstein / Alpha CP 080-M01-10-111-000* at our website: *Click HERE*

Order information

Gearhead type	Type code	Gearhead variations	Gearhead model	Number of stages
TP+ 004 – TP+ 4000 SP+ 060 – SP+ 240	S = Standard A = Optimized mass moment of inertia [b] E = Version in ATEX [b] F = Food-grade lubrication [b] G = Grease [b] L = Low friction (SP+ 100 - 240 HIGH SPEED) W = Corrosion resistant [b]	M = Motor attachment gearhead S = Separate version	F = Standard A = HIGH TORQUE (only TP+) C = HIGH SPEED (only SP+)	1 = 1-stage 2 = 2-stage 3 = 3-stage

[a] Order shrink discs separately, see section accessories, shrink discs on page 410
[b] Reduced specification available on request

Gearhead type	Type code	Gearhead variations	Gearhead model	Number of stages
TK+ 004 – TK+ 110 TPK+ 010 – TPK+ 500 SK+ 060 – SK+ 180 SPK+ 075 – SPK+ 240 HG+ 060 – HG+ 180 SC+ 060 – SC+ 180 SPC+ 060 – SPC+ 180 TPC+ 004 – TPC+ 110	S = Standard B = Modular output combination (SK+, SPK+, TK+, TPK+, HG+) [c] E = Version in ATEX [b] [d] F = Food-grade lubrication [b] W = Corrosion resistant [b]	M = Motor attachment gearhead	F = Standard A = HIGH TORQUE (only TPK+)	1 = 1-stage 2 = 2-stage 3 = 3-stage 4 = 4-stage

[a] Order shrink discs separately, see section accessories, shrink discs on page 410
[b] Reduced specification available on request
[c] See modular system matrix, page 424
[d] SK+/TK+/HG+ only

Gearhead type	Type code	Gearhead variations	Gearhead model	Number of stages
LP+ 050 – LP+ 155 LPB+ 070 – LPB+ 120	S = Standard F = Food lubrication	M = Motor attachment gearhead	F = Standard	1 = 1-stage 2 = 2-stage

Gearhead type	Gearhead variations	Gearhead model	Number of stages	Ratios
LK 050 – LK 155 LPK 050 – LPK 155 LPBK 070 – LPBK 120 CP 040 – CP 115 (alphira®)	M = Motor attachment gearhead	O = Standard L = Food-grade grease	1 = 1-stage 2 = 2-stage 3 = 3-stage (LPK+)	See technical data sheets.

Gearhead type	Gearhead version	Distance between axes	Gearhead variations	Gearhead model	Number of stages
VDT = TP flange VDH = hollow shaft VDS = shaft	e = economy (only for VDH and VDS, size 040, 050 and 063)	040, 050, 063, 080, 100	M = Motor attachment gearhead	F = Standard L = Food-grade lubrication W = Corrosion resistant	1 = 1-stage

** See section accessories, shrink discs on page 410

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Ratios
See technical data sheets.

Output shape
0 = smooth shaft/flange
1 = shaft with key
2 = involute to DIN 5480
3 = system output
4 = other
5 = Shaft mounted (SP+) a)

Clamping hub bore hole diameter
(see technical data sheets and clamping hub diameter table)

Backlash
1 = Standard
0 = Reduced
(see technical data sheets)

Installation on motor side
S = Push-on sleeve
K = Coupling

X = Special model

Ratios
See technical data sheets.

Output shape
0 = smooth shaft/flange (no hollow shaft)
1 = shaft with key
2 = involute to DIN 5480
3 = system output
4 = other
5 = Hollow shaft interface / Flanged hollow shaft (TK+) a)
Shaft mounted (SPK+/SPC+) a)
6 = 2 hollow shaft interfaces (HG+) a)
(see technical data sheets)

Clamping hub bore hole diameter
(see technical data sheets and clamping hub diameter table)

Backlash
1 = Standard
0 = Reduced
(see technical data sheets)

Installation on motor side
S = Push-on sleeve
K = Coupling

X = Special model

Ratios
See technical data sheets.

Output shape
0 = Smooth shaft/flange
1 = Shaft with key

Clamping hub bore hole diameter
(see technical data sheets and clamping hub diameter table)

Backlash
1 = Standard
(see technical data sheets)

Installation on motor side
S = Push-on sleeve
K = Coupling

Output shape
0 = Smooth shaft (for LP+ only)
1 = Shaft with key
LPBK+
1 = Centering on output side

Clamping hub bore hole diameter
1 = Standard
(see technical data sheets)

Backlash
1 = Standard

X = Special model

Ratios
4 (not for economy sizes 050 and 063)
7
10
16
28
40

Output shape
0 = smooth shaft/flange
1 = shaft with key
2 = involute to DIN 5480 (VDS+)
4 = other (see technical data sheets)
8 = Dual-shaft output, smooth (VDS+, VDSe)
9 = Dual-shaft output with key (VDS+, VDSe)

Clamping hub bore hole diameter
2 = 14 mm (040)
3 = 19 mm (040, 050)
4 = 28 mm (063)
5 = 35 mm (080)
7 = 48 mm (100)

Backlash
1 = Standard
0 = Reduced

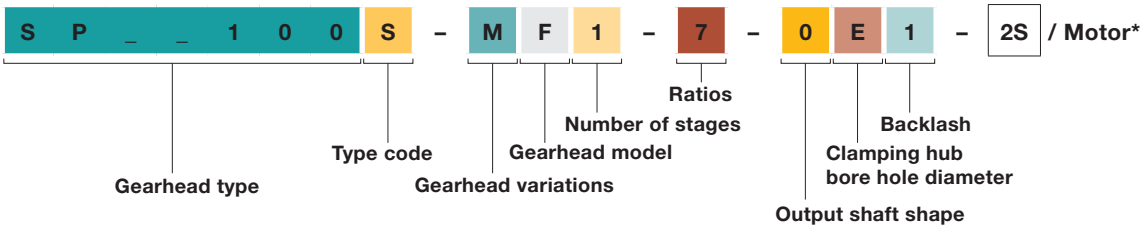
VDH – number of shrink discs**
0 = no shrink disc
1 = one shrink disc
2 = two shrink discs

X = Special model

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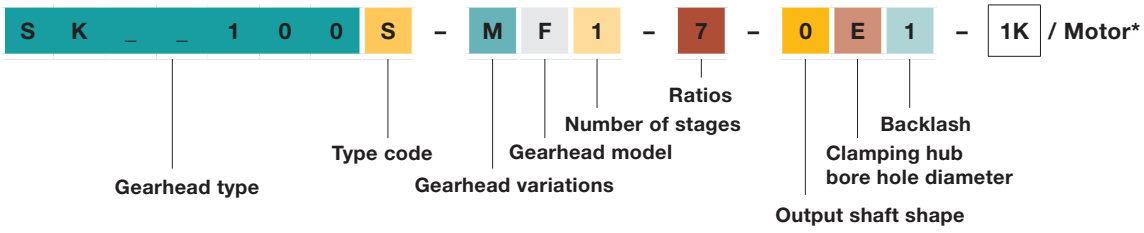
Order codes

TP+/SP+



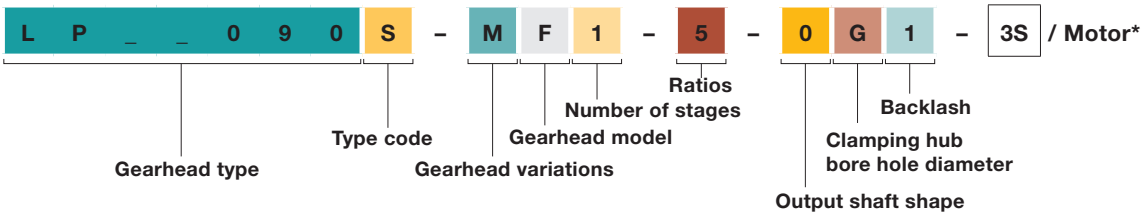
* Full motor designation only required for determining gearhead attached components!

TK+/TPK+/SK+/SPK+/HG+/SC+/SPC+/TPC+

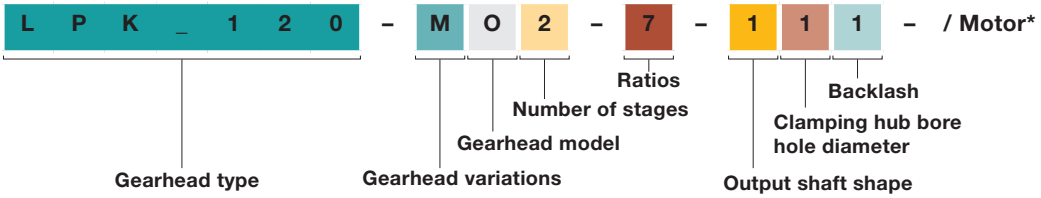


* Full motor designation only required for determining gearhead attached components!

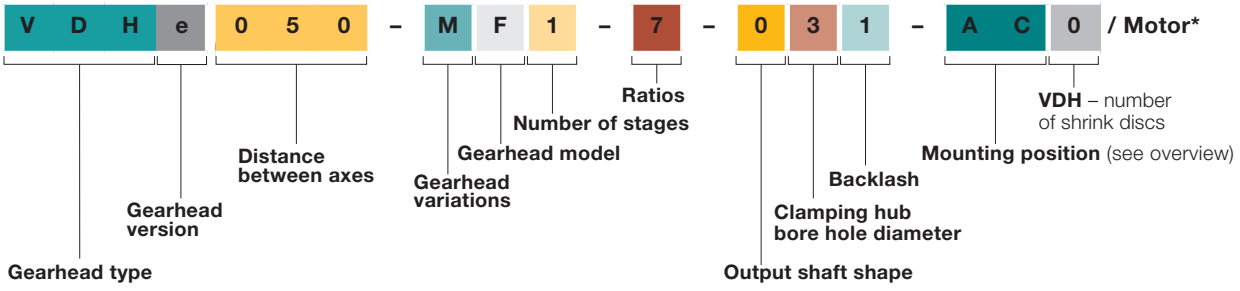
LP+/LPB+ Generation 3



LK+/LPK+/LPBK+/CP (alphira®)



V-Drive



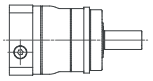
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Mounting positions and clamping hub diameters

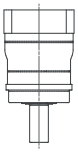
Coaxial gearheads

TP⁺ 2000/4000: Please contact WITTENSTEIN alpha

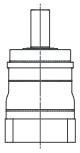
B5 – horizontal



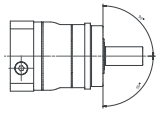
V1 – vertical
Output shaft downwards



V3 – vertical
Output shaft upwards



S – can be tilted
±90° from a horizontal position



Clamping hub diameter

(the technical data sheet contains all diameters available for TP⁺, SP⁺, TK⁺,TPK⁺, SK⁺, SPK⁺, SC⁺, SPC⁺, TPC⁺, HG⁺ and LP⁺ models)

Code letter	mm	Code letter	mm
B	11	I	32
C	14	K	38
D	16	L	42
E	19	M	48
G	24	N	55
H	28	O	60

Intermediate diameters possible in combination with a bushing with a minimum thickness of 1 mm.

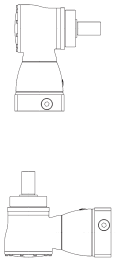
Right-angle gearheads

For information purposes only – not required when placing orders!

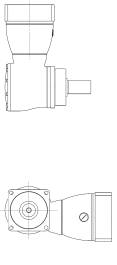
Permitted standard mounting positions for right-angle gearheads (see illustrations)

If the mounting position is different, contact WITTENSTEIN alpha

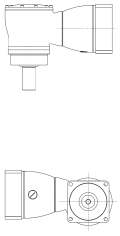
B5/V3
Output shaft, horizontal
Motor shaft upwards



B5/V1
Output shaft, horizontal
Motor shaft downwards



V1/B5
Output shaft, vertical
Motor shaft, horizontal



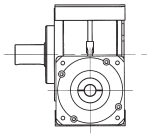
V3/B5
Output shaft, vertical, upwards
Motor shaft, horizontal

B5/B5
Output shaft, horizontal
Motor shaft, horizontal

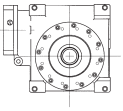
Worm gearheads

Mounting position (only relevant for oil volume)

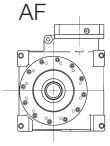
Output side A:
View of motor interface
Only valid for VDS⁺, VDSe and VDT⁺



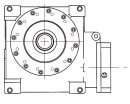
AC



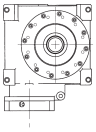
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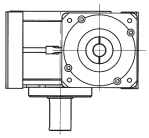
AD



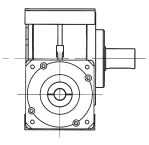
AG



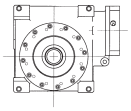
AE



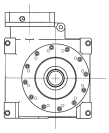
Output side B:
View of motor interface
Only valid for VDS⁺, VDSe und VDT⁺



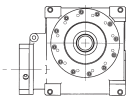
BC



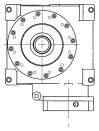
BF



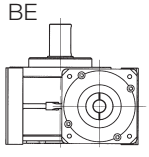
BD



BG



BE



For VDH⁺, VDHe and VDS⁺/VDSe with Dual-shaft output, A and B must be replaced with 0 (zero).

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Order information

Rack and assembly jig

Rack type
ZST = Rack
ZMT = Assembly jig

Module
200 = 2.00
300 = 3.00
400 = 4.00
500 = 5.00
600 = 6.00

Version
PA5 = Premium Class
HE6 = Performance Class
VB6 = Value Class
PD5 = Assembly jig

Length
100 = Assembly jig (module 2 – 3)
156 = Assembly jig (module 4 – 6)
480 = Smart Class (module 2 – 4)
167/333 = Premium Class (module 2)
250 = Premium Class (module 3)
500 = Premium Class (module 2 – 6)
1000 = Value Class (module 2 – 6)

Premium Class+ and Value Class pinion

Designation
RMT = Pinion mounted ex works
RMX = Pinion mounted offset 180°
(for VC pinions only)

Module
200 = 2.00
300 = 3.00
400 = 4.00
500 = 5.00
600 = 6.00

Version
PC5 = Premium Class
VC6 = Value Class

Number of teeth
(see technical data sheet)

Premium Class RTP and Standard Class RSP pinions

Designation
RSP = Standard Class RSP pinion for SP
Involute output as per DIN 5480
RTP = Premium Class RTP pinion for TP output
RTPA = Premium Class RTP pinion for TP High Torque output

Gearhead size
For SP output:
060, 075, 100, 140, 180, 210, 240
For TP output:
004, 010, 025, 050, 110, 300, 500
(see technical data sheets)

Module
A02 = 2.00
A03 = 3.00
A04 = 4.00
A05 = 5.00
A06 = 6.00

Tolerance class
5e24 = Premium Class RTP/ RTPA
6e25 = Standard Class RSP

Number of teeth
(see technical data sheet)

Torque limiter, bellows coupling and elastomer coupling

Model
Torque limiter
TL1 / TL 2 / TL3
Metal bellows coupling
BCT / BCH / BC2 / BC3 / EC2
Elastomer coupling
ELC / EL6

Series
(see technical data sheets)

Length option
A = First length
B = Second length
Elastomer ring option
A = 98 Sh A
B = 64 Sh D
C = 80 Sh A

Torque limiter (TL) function
W = Single position (360°)
D = Multi-position (60°)
G = Load holding
F = Full disengagement
Metal bellows coupling function (BC, EC)
A = Standard
B = incl. self-opening clamp system (EC2)
Elastomer coupling function (EL)
A = Standard

Internal diameter D_1 (drive side)
TL1: $D_1 = D_2$
BCT: D_1 = Output side

Bore version D_1
0 = Smooth
1 = Key shape A DIN 6885
2 = Involute DIN 5480 (on request)
3 = Key shape A ANSI B17.1

Internal diameter D_2 (output side)
TL1: $D_1 = D_2$
BCT: D_2 = TP+ flange hole circle

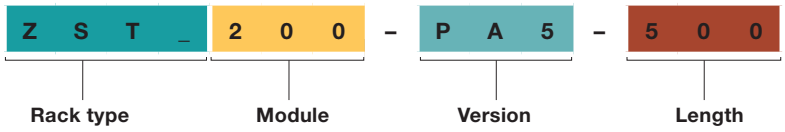
Bore version D_2
0 = Smooth
1 = Key shape A DIN 6885
2 = Involute DIN 5480 (on request)
3 = Key shape A ANSI B17.1
A = Hole circle BCT HIGH TORQUE

Torque limiter (TL) adjustment range
A = First series
B = Second series
C = Third series
D = Fourth series (for TL1 only)

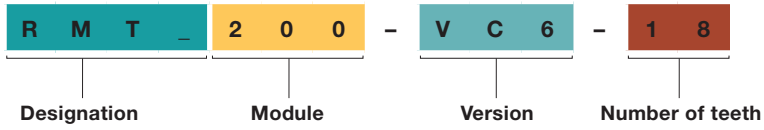
Disengagement torque Torque limiter T_{Dis} [Nm]
(see technical data sheets for torque limiter)

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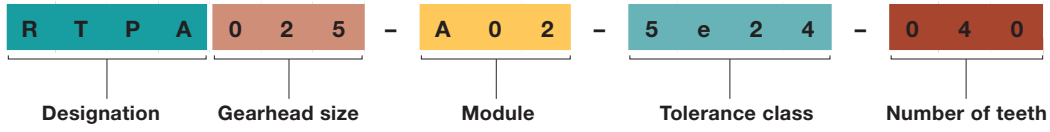
Order codes



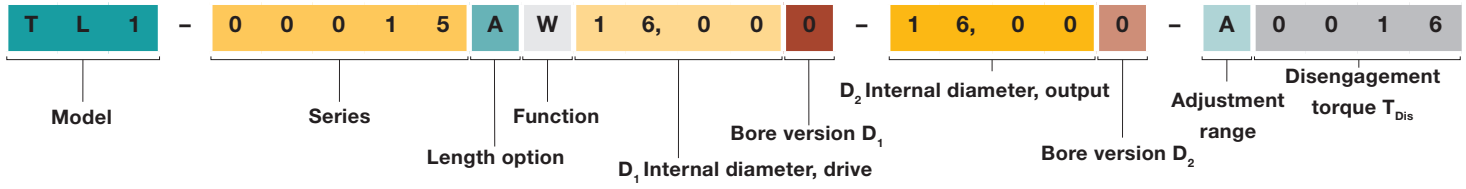
Premium Class+ and Value Class pinion



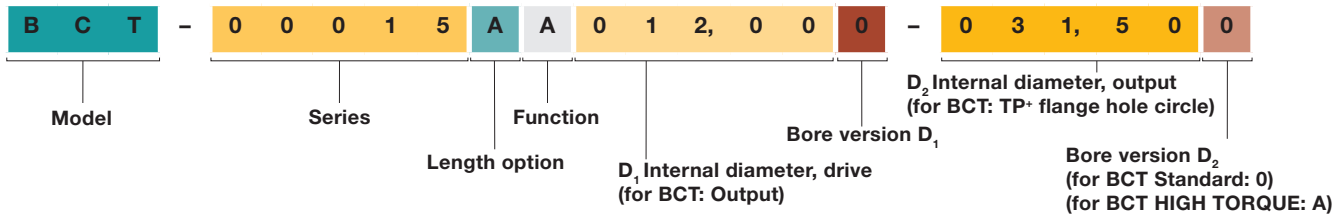
Premium Class RTP and Standard Class RSP pinions



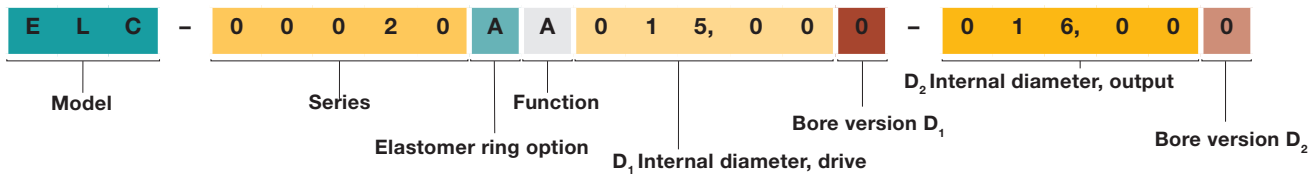
Torque limiter



Bellows coupling



Elastomer coupling



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