Worm and wheel set

Module 0.4

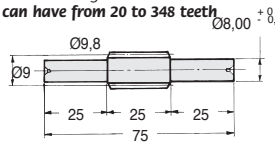
Worm in steel or machined plastic

- **Pitch 1.257mm**
- ***Machined parts***
- *Pressure angle 20°*
- *Right handed lead angle*
- *Materials:*
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: Bronze CuAl10NiFe4
  or Delrin plastic
- *Delrin: Working temp. -50°C to +80°C*

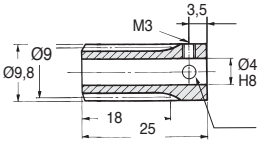


Options

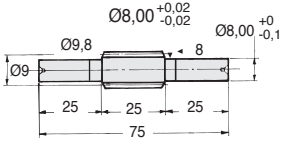
- *Left handed lead angle*
- ***Wheel can have from 20 to 348 teeth***



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT STEEL

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT DELRIN

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W0.4-1	SW0.4-1	1	2°32'	38,02 €	69,59 €
W0.4-2	SW0.4-2	2	5°04'	38,57 €	74,51 €
W0.4-3	SW0.4-3	3	7°35'	40,52 €	78,73 €
W0.4-4	SW0.4-4	4	10°40'	43,63 €	81,15 €
Hardened steel					
WH0.4-1	SWH0.4-1	1	2°32'	52,89 €	98,98 €
WH0.4-2	SWH0.4-2	2	5°04'	54,84 €	105,92 €
WH0.4-3	SWH0.4-3	3	7°35'	56,73 €	111,81 €
WH0.4-4	SWH0.4-4	4	10°40'	61,97 €	115,39 €
Plastic					
ZW0.4-1	ZSW0.4-1	1	2°32'	26,12 €	49,16 €
ZW0.4-2	ZSW0.4-2	2	5°04'	27,25 €	52,53 €
ZW0.4-3	ZSW0.4-3	3	7°35'	28,49 €	55,55 €
ZW0.4-4	ZSW0.4-4	4	10°40'	30,67 €	57,30 €

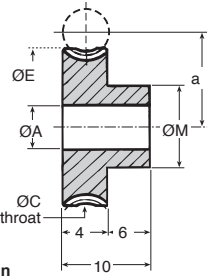
Dimensions in mm

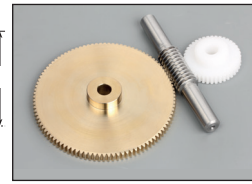
Wheel in bronze or machined plastic

Module 0.4

Info.

- **Pitch 1.257mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W0.4-1.** wheel **M0.4-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrinworm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze Nm	(kW)	Delrin Nm	(kW)
Steel	**0.57**	(0.0012)	**0.36**	(0.00075)
Hardened steel	**1.00**	(0.0021)	-	
Delrin	-		**0.14**	(0.00030)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Delrin	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M0.4-28/1	ZM0.4-28/1	28	11,20	10,10	12,00	12,40	10,40	3	34,23 €	17,15 €
M0.4-30/1	ZM0.4-30/1	30	12,00	10,50	12,80	13,20	8,00	3	34,95 €	17,49 €
M0.4-34/1	ZM0.4-34/1	34	13,60	11,30	14,40	14,80	8,00	3	35,68 €	17,94 €
M0.4-36/1	ZM0.4-36/1	36	14,40	11,70	15,20	15,60	8,00	3	37,21 €	18,50 €
M0.4-40/1	ZM0.4-40/1	40	16,00	12,50	16,80	17,20	12,00	4	38,49 €	19,28 €
M0.4-45/1	ZM0.4-45/1	45	18,00	13,50	18,80	19,20	12,00	4	38,97 €	19,57 €
M0.4-48/1	ZM0.4-48/1	48	19,20	14,10	20,00	20,40	12,00	4	38,97 €	19,72 €
M0.4-50/1	ZM0.4-50/1	50	20,00	14,50	20,80	21,20	12,00	4	38,97 €	19,89 €
M0.4-62/1	ZM0.4-62/1	62	24,80	16,90	25,60	26,00	12,00	4	39,23 €	20,67 €
M0.4-72/1	ZM0.4-72/1	72	28,80	18,90	29,60	30,00	12,00	5	42,25 €	21,15 €
M0.4-75/1	ZM0.4-75/1	75	30,00	19,50	30,80	31,20	12,00	5	42,45 €	23,46 €
M0.4-84/1	ZM0.4-84/1	84	33,60	21,30	34,40	34,80	12,00	5	44,67 €	24,80 €
M0.4-100/1	ZM0.4-100/1	100	40,00	24,50	40,80	41,20	12,00	5	54,98 €	29,39 €
M0.4-120/1	ZM0.4-120/1	120	48,00	28,50	48,80	49,20	12,00	5	61,99 €	34,05 €
M0.4-130/1	ZM0.4-130/1	130	52,00	30,50	52,80	53,20	12,00	5	71,19 €	37,15 €
M0.4-140/1	ZM0.4-140/1	140	56,00	32,50	56,80	57,20	12,00	5	81,15 €	40,86 €
M0.4-200/1	ZM0.4-200/1	200	80,00	44,50	80,80	81,20	20,00	6	153,51 €	77,23 €
M0.4-300/1	ZM0.4-300/1	300	120,00	64,50	120,80	121,20	20,00	6	357,71 €	130,30 €
↓	↓	**Wheels available up to this size**							↓	↓
M0.4-348	**ZM0,4-348**	**348**			**Dimensions : contact us**				On request	On request

Dimensions in mm

Worm and wheel set

Module 0.5

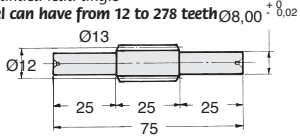
Worm in steel or machined plastic

- **Pitch 1.571mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

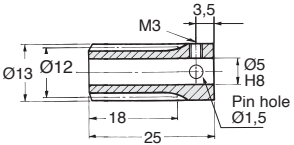


Options

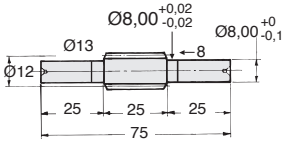
- Left handed lead angle
- **Wheel can have from 12 to 278 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

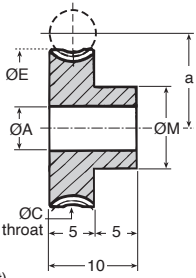
Qty	1+	6+	30+
Disc.	List	-22%	On request

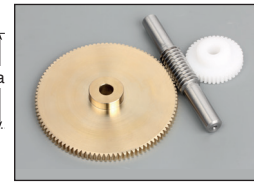
Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W0.5-1	SW0.5-1	1	2°23'	37,21 €	73,28 €
W0.5-2	SW0.5-2	2	4°45'	38,57 €	76,52 €
W0.5-3	SW0.5-3	3	7°07'	40,52 €	80,74 €
W0.5-4	SW0.5-4	4	9°27'	43,63 €	84,43 €
Hardened steel					
WH0.5-1	SWH0.5-1	1	2°23'	52,89 €	104,16 €
WH0.5-2	SWH0.5-2	2	4°45'	54,84 €	108,68 €
WH0.5-3	SWH0.5-3	3	7°07'	57,64 €	114,72 €
WH0.5-4	SWH0.5-4	4	9°27'	61,97 €	120,17 €
Delrin					
ZW0.5-1	ZSW0.5-1	1	2°23'	26,12 €	51,70 €
ZW0.5-2	ZSW0.5-2	2	4°45'	27,25 €	53,94 €
ZW0.5-3	ZSW0.5-3	3	7°07'	28,49 €	56,88 €
ZW0.5-4	ZSW0.5-4	4	9°27'	30,67 €	59,71 €

Dimensions in mm

Info.

- **Pitch 1.571mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W0.5-1.** wheel **M0.5-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (imput)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**1.01** (0.0060)	**0.65** (0.0040)
Hardened steel	**1.86** (0.0039)	-
Delrin	-	**0.25** (0.0005)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M0.5-20	ZM0.5-20	20	10,00	11,00	11,00	11,50	8,50	4	33,77 €	16,95 €
M0.5-25	ZM0.5-25	25	12,50	12,25	13,50	14,00	10,00	4	36,07 €	18,12 €
M0.5-28	ZM0.5-28	28	14,00	13,00	15,00	15,50	10,00	4	36,70 €	18,38 €
M0.5-30	ZM0.5-30	30	15,00	13,50	16,00	16,50	13,00	6	36,84 €	18,42 €
M0.5-32	ZM0.5-32	32	16,00	14,00	17,00	17,50	13,00	6	38,45 €	19,28 €
M0.5-40	ZM0.5-40	40	20,00	16,00	21,00	21,50	13,00	6	44,85 €	22,56 €
M0.5-42	ZM0.5-42	42	21,00	16,50	22,00	22,50	13,00	6	45,54 €	22,80 €
M0.5-48	ZM0.5-48	48	24,00	18,00	25,00	25,50	13,00	6	47,84 €	23,97 €
M0.5-50	ZM0.5-50	50	25,00	18,50	26,00	26,50	13,00	6	48,50 €	24,33 €
M0.5-60	ZM0.5-60	60	30,00	21,00	31,00	31,50	13,00	6	57,18 €	31,63 €
M0.5-78	ZM0.5-78	78	39,00	25,50	40,00	40,50	13,00	6	72,61 €	40,21 €
M0.5-80	ZM0.5-80	80	40,00	26,00	41,00	41,50	13,00	6	74,93 €	47,17 €
M0.5-90	ZM0.5-90	90	45,00	28,50	46,00	46,50	13,00	6	100,57 €	63,27 €
M0.5-100	ZM0.5-100	100	50,00	31,00	51,00	51,50	13,00	6	119,53 €	75,33 €
M0.5-110	ZM0.5-110	110	55,00	33,50	56,00	56,50	13,00	6	124,45 €	78,38 €
M0.5-150	ZM0.5-150	150	75,00	43,50	76,00	76,50	13,00	6	134,14 €	84,31 €
M0.5-160	ZM0.5-160	160	80,00	46,00	81,00	81,50	13,00	6	153,01 €	96,42 €
M0.5-200	ZM0.5-200	200	100,00	56,00	101,00	101,50	13,00	6	290,42 €	105,84 €
↓	↓	Wheels available up to this size							↓	↓
M0,5-278	**ZM0,5-278**	**278**	Dimensions : contact us						On request	On request

Dimensions in mm

Worm and wheel set

Module 0.8

Worm in steel or machined plastic

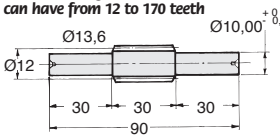
- **Pitch 2.513mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

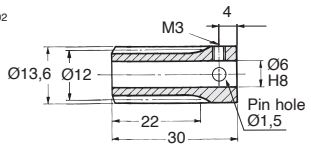


Options

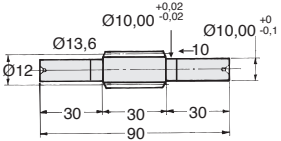
- Left handed lead angle
- **Wheel can have from 12 to 170 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of	Lead	Price each 1 to 5	
Bored type	Shaft type	starts	angle	Bored type	Shaft type
Non hardened steel					
W0.8-1	SW0.8-1	1	3°48'	42,54 €	73,27 €
W0.8-2	SW0.8-2	2	7°35'	44,41 €	77,05 €
W0.8-3	SW0.8-3	3	11°18'	48,13 €	80,74 €
W0.8-4	SW0.8-4	4	14°55'	52,16 €	84,43 €
Hardened steel					
WH0.8-1	SWH0.8-1	1	3°48'	60,52 €	104,15 €
WH0.8-2	SWH0.8-2	2	7°35'	63,13 €	109,51 €
WH0.8-3	SWH0.8-3	3	11°18'	68,62 €	114,73 €
WH0.8-4	SWH0.8-4	4	14°55'	75,59 €	120,17 €
Delrin					
ZW0.8-1	ZSW0.8-1	1	3°48'	29,98 €	On request
ZW0.8-2	ZSW0.8-2	2	7°35'	31,23 €	54,16 €
ZW0.8-3	ZSW0.8-3	3	11°18'	33,86 €	56,73 €
ZW0.8-4	ZSW0.8-4	4	14°55'	36,70 €	59,42 €

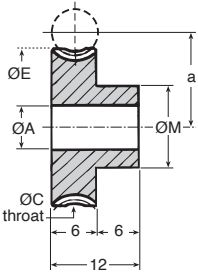
Dimensions in mm

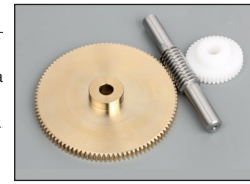
Wheel in bronze or machined plastic

Module 0.8

Info.

- **Pitch 2.513mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W0.8-1.** wheel **M0.8-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**2.82** (0.006)	**1.84** (0.0039)
Hardened steel	**5.26** (0.011)	-
Delrin	-	**0.70** (0.0015)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M0.8-15	ZM0.8-15	15	12,00	12,00	13,60	14,40	10	5	34,03 €	17,01 €
M0.8-18	ZM0.8-18	18	14,40	13,20	16,00	16,80	10	5	38,02 €	19,09 €
M0.8-20	ZM0.8-20	20	16,00	14,00	17,60	18,40	12	5	38,72 €	19,39 €
M0.8-24	ZM0.8-24	24	19,20	15,60	20,80	21,60	12	5	41,95 €	20,98 €
M0.8-25	ZM0.8-25	25	20,00	16,00	21,60	22,40	16	8	44,15 €	22,16 €
M0.8-28	ZM0.8-28	28	22,40	17,20	24,00	24,80	16	8	45,77 €	22,96 €
M0.8-30	ZM0.8-30	30	24,00	18,00	25,60	26,40	16	8	47,60 €	23,91 €
M0.8-32	ZM0.8-32	32	25,60	18,80	27,20	28,00	16	8	49,30 €	24,80 €
M0.8-40	ZM0.8-40	40	32,00	22,00	33,60	34,40	20	8	58,88 €	49,89 €
M0.8-42	ZM0.8-42	42	33,60	22,80	35,20	36,00	20	8	63,11 €	34,92 €
M0.8-48	ZM0.8-48	48	38,40	25,20	40,00	40,80	20	8	73,54 €	40,59 €
M0.8-50	ZM0.8-50	50	40,00	26,00	41,60	42,40	20	8	79,32 €	49,90 €
M0.8-60	ZM0.8-60	60	48,00	30,00	49,60	50,40	20	8	121,40 €	76,43 €
M0.8-78	ZM0.8-78	78	62,40	37,20	64,00	64,80	20	8	130,53 €	82,20 €
M0.8-80	ZM0.8-80	80	64,00	38,00	65,60	66,40	20	8	131,69 €	82,98 €
M0.8-90	ZM0.8-90	90	72,00	42,00	73,60	74,40	20	8	150,02 €	94,46 €
M0.8-100	ZM0.8-100	100	80,00	46,00	81,60	82,40	20	8	164,65 €	103,64 €
M0.8-110	ZM0.8-110	110	88,00	50,00	89,60	90,40	20	8	202,68 €	127,71 €
M0.8-150	ZM0.8-150	150	120,00	66,00	121,60	122,40	20	8	402,45 €	146,60 €
↓	↓	Wheels available up to this size							↓	↓
M0,8-170	ZM0,8-170	170	Dimensions : contact us						On request	On request

Dimensions in mm

Worm and wheel set

Module 1.0

Worm in steel or machined plastic

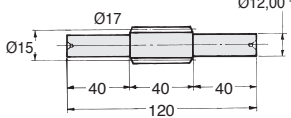
- **Pitch 3.142mm**
- ***Machined parts***
- *Pressure angle 20°*
- *Right handed lead angle*
- *Materials:*
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or delrin plastic
- *Delrin: Working temp. -50°C to +80°C*

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

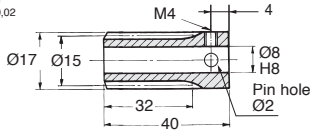


Options

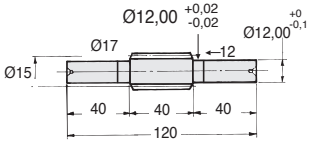
- *Left handed lead angle*
- ***Wheel can have from 12 to 138 teeth***



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W1-1	SW1-1	1	3°48'	48,99 €	90,48 €
W1-2	SW1-2	2	7°35'	51,86 €	92,95 €
W1-3	SW1-3	3	11°18'	56,88 €	99,22 €
W1-4	SW1-4	4	14°56'	59,40 €	100,68 €
Hardened steel					
WH1-1	SWH1-1	1	3°48'	69,81 €	128,58 €
WH1-2	SWH1-2	2	7°35'	73,67 €	132,12 €
WH1-3	SWH1-3	3	11°18'	80,78 €	140,90 €
WH1-4	SWH1-4	4	14°56"	84,43 €	143,03 €
Delrin					
ZW1-1	ZSW1-1	1	3°48'	34,61 €	63,87 €
ZW1-2	ZSW1-2	2	7°35'	36,53 €	65,51 €
ZW1-3	ZSW1-3	3	11°18'	40,11 €	69,93 €
ZW1-4	ZSW1-4	4	14°56'	41,81 €	71,02 €

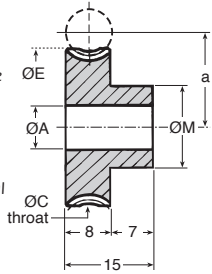
Dimensions in mm

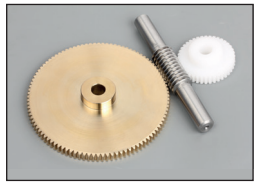
Wheel in bronze or machined plastic

Module 1.0

Info.

- **Pitch 3.142mm**
- *To order. add the number of starts on the worm to the wheel's part number. E.g: worm* **W1-1.** *wheel* **M1-20/1**
- *The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.*





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**5.87** (0.012)	**3.42** (0.0072)
Hardened steel	**10.06** (0.021)	-
Delrin	-	**1.32** (0.0027)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M1-12	ZM1-12	12	12	13,50	14	15	14	6	49,30 €	24,80 €
M1-15	ZM1-15	15	15	15,00	17	18	15	6	51,03 €	25,59 €
M1-18	ZM1-18	18	18	16,50	20	21	15	6	53,16 €	26,64 €
M1-20	ZM1-20	20	20	17,50	22	23	15	6	53,68 €	26,93 €
M1-24	ZM1-24	24	24	19,50	26	27	20	8	56,48 €	28,49 €
M1-25	ZM1-25	25	25	20,00	27	28	20	8	59,00 €	29,57 €
M1-28	ZM1-28	28	28	21,50	30	31	20	8	61,18 €	30,67 €
M1-30	ZM1-30	30	30	22,50	32	33	25	8	63,13 €	34,97 €
M1-32	ZM1-32	32	32	23,50	34	35	25	8	66,36 €	36,81 €
M1-40	ZM1-40	40	40	27,50	42	43	25	8	89,63 €	56,38 €
M1-42	ZM1-42	42	42	28,50	44	45	25	8	91,63 €	57,64 €
M1-48	ZM1-48	48	48	31,50	50	51	25	10	111,11 €	69,93 €
M1-50	ZM1-50	50	50	32,50	52	53	25	10	119,60 €	75,33 €
M1-60	ZM1-60	60	60	37,50	62	63	25	10	131,76 €	82,98 €
M1-78	ZM1-78	78	78	46,50	80	81	25	10	171,89 €	108,26 €
M1-80	ZM1-80	80	80	47,50	82	83	25	10	195,56 €	123,16 €
M1-90	ZM1-90	90	90	52,50	92	93	25	10	243,10 €	153,14 €
M1-100	ZM1-100	100	100	57,50	102	103	25	10	381,21 €	138,97 €
M1-110	ZM1-110	110	110	62,50	112	113	30	10	381,21 €	138,97 €
↓	↓	**Wheels available up to this size**							↓	↓
M1-138	ZM1-138	138		**Dimensions : contact us**					On request	On request

Dimensions in mm

Worm and wheel set

Module 1.25

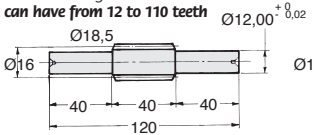
Worm in steel or machined plastic

- **Pitch 3.927mm**
- ***Machined parts***
- *Pressure angle 20°*
- *Right handed lead angle*
- *Materials:*
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- *Delrin: Working temp. -50°C to +80°C*

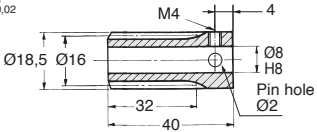


Options

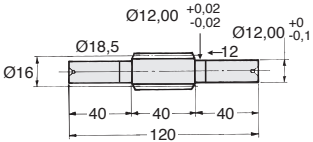
- *Left handed lead angle*
- ***Wheel can have from 12 to 110 teeth***



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

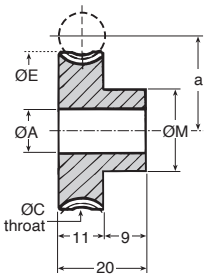
Qty	1+	6+	30+
Disc.	List	-22%	On request

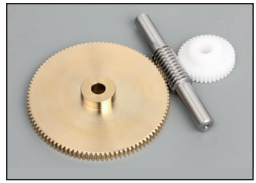
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W1.25-1	SW1.25-1	1	4°28'	48,99 €	90,48 €
W1.25-2	SW1.25-2	2	8°53'	51,85 €	92,95 €
W1.25-3	SW1.25-3	3	13°11'	56,88 €	99,22 €
W1.25-4	SW1.25-4	4	17°21'	59,40 €	100,68 €
Hardened steel					
WH1.25-1	SWH1.25-1	1	4°28'	69,81 €	128,58 €
WH1.25-2	SWH1.25-2	2	8°53'	73,67 €	132,12 €
WH1.25-3	SWH1.25-3	3	13°11'	80,79 €	140,90 €
WH1.25-4	SWH1.25-4	4	17°21'	84,43 €	143,03 €
Delrin					
ZW1.25-1	ZSW1.25-1	1	4°28'	34,61 €	63,71 €
ZW1.25-2	ZSW1.25-2	2	8°53'	36,41 €	65,36 €
ZW1.25-3	ZSW1.25-3	3	13°11'	40,01 €	69,84 €
ZW1.25-4	ZSW1.25-4	4	17°21'	41,77 €	64,43 €

Dimensions in mm

Info.

- **Pitch 3.927mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W1.25-1.** wheel **M1.25-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**11.41** (0.024)	**7.02** (0.015)
Hardened steel	**20.25** (0.042)	-
Delrin	-	**2.75** (0.006)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M1.25-12	ZM1.25-12	12	15,00	15,50	17,50	18,75	14,00	8	53,58 €	26,93 €
M1.25-15	ZM1.25-15	15	18,75	17,38	21,25	22,50	14,00	8	56,33 €	28,26 €
M1.25-20	ZM1.25-20	20	25,00	20,50	27,50	28,75	20,00	10	54,67 €	31,63 €
M1.25-38	ZM1.25-38	38	47,50	31,75	50,00	51,25	25,00	10	99,87 €	62,83 €
M1.25-45	ZM1.25-45	45	56,25	36,13	58,75	60,00	25,00	10	127,92 €	80,64 €
M1.25-60	ZM1.25-60	60	75,00	45,50	77,50	78,75	32,00	12	212,57 €	133,83 €
↓	↓	**Wheels available up to this size**							↓	↓
M1,25-110	**ZM1,25-110**	110	**Dimensions : contact us**						On request	On request

Dimensions in mm

Worm and wheel set

Module 1.5

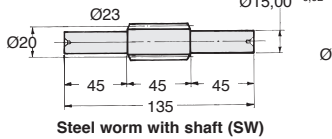
Worm in steel or machined plastic

- **Pitch 4.712mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

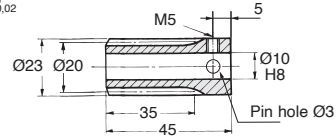


Options

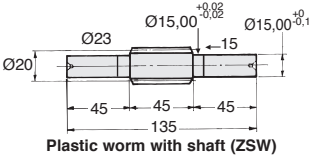
- Left handed lead angle
- **Wheel can have from 12 to 90 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W1.5-1	SW1.5-1	1	4°17'	56,78 €	106,40 €
W1.5-2	SW1.5-2	2	8°31'	65,99 €	112,06 €
W1.5-3	SW1.5-3	3	12°40'	69,25 €	115,60 €
W1.5-4	SW1.5-4	4	16°42'	75,09 €	116,85 €
Hardened steel					
WH1.5-1	SWH1.5-1	1	4°17'	80,74 €	151,19 €
WH1.5-2	SWH1.5-2	2	8°31'	93,68 €	159,18 €
WH1.5-3	SWH1.5-3	3	12°40'	98,37 €	164,06 €
WH1.5-4	SWH1.5-4	4	16°42'	106,61 €	166,01 €
Delrin					
ZW1.5-1	ZSW1.5-1	1	4°17'	39,99 €	75,20 €
ZW1.5-2	ZSW1.5-2	2	8°31'	46,30 €	79,18 €
ZW1.5-3	ZSW1.5-3	3	12°40'	48,68 €	81,57 €
ZW1.5-4	ZSW1.5-4	4	16°42'	52,79 €	82,45 €

Dimensions in mm

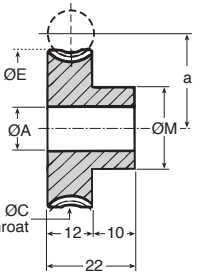
Worm and wheel set

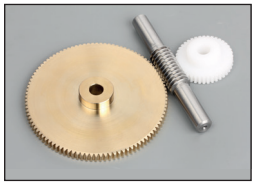
Wheel in bronze or machined plastic

Module 1.5

Info.

- **Pitch 4.712mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W1.5-1.** wheel **M1.5-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**16.80** (0.035)	**10.05** (0.021)
Hardened steel	**30.00** (0.063)	-
Delrin	-	**3.97** (0.008)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	Centres ØC	Centres ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M1.5-12	ZM1.5-12	12	18,00	19,00	21,00	22,50	15	8	59,13 €	29,71 €
M1.5-15	ZM1.5-15	15	22,50	21,25	25,50	27,00	18	8	72,96 €	36,60 €
M1.5-18	ZM1.5-18	18	27,00	23,50	30,00	31,50	18	8	77,97 €	39,23 €
M1.5-20	ZM1.5-20	20	30,00	25,00	33,00	34,50	20	10	80,44 €	44,42 €
M1.5-22	ZM1.5-22	22	33,00	26,50	36,00	37,50	20	10	82,98 €	45,98 €
M1.5-24	ZM1.5-24	24	36,00	28,00	39,00	40,50	20	10	85,74 €	47,41 €
M1.5-25	ZM1.5-25	25	37,50	28,75	40,50	42,00	25	10	88,30 €	48,94 €
M1.5-28	ZM1.5-28	28	42,00	31,00	45,00	46,50	25	10	92,75 €	58,33 €
M1.5-30	ZM1.5-30	30	45,00	32,50	48,00	49,50	30	15	97,18 €	61,25 €
M1.5-32	ZM1.5-32	32	48,00	34,00	51,00	52,50	30	15	100,48 €	63,27 €
M1.5-34	ZM1.5-34	34	51,00	35,50	54,00	55,50	30	15	112,05 €	70,57 €
M1.5-40	ZM1.5-40	40	60,00	40,00	63,00	64,50	30	15	150,67 €	94,93 €
M1.5-42	ZM1.5-42	42	63,00	41,50	66,00	67,50	30	15	166,50 €	104,87 €
M1.5-48	ZM1.5-48	48	72,00	46,00	75,00	76,50	30	15	211,60 €	133,28 €
M1.5-50	ZM1.5-50	50	75,00	47,50	78,00	79,50	30	15	227,69 €	143,43 €
M1.5-60	ZM1.5-60	60	90,00	55,00	93,00	94,50	30	15	317,62 €	200,02 €
M1.5-78	ZM1.5-78	78	117,00	68,50	120,00	121,50	30	15	626,08 €	228,06 €
M1.5-80	ZM1.5-80	80	120,00	70,00	123,00	124,50	30	15	626,08 €	228,06 €
↓	Wheels available up to this size								↓	↓
M1,5-90	ZM1,5-90	Dimensions: contact us							805,90 €	270,87 €

Dimensions in mm

Worm and wheel set

Module 2.0

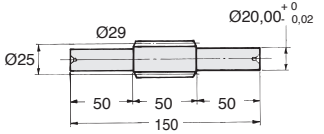
Worm in steel or machined plastic

- **Pitch 6.283mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

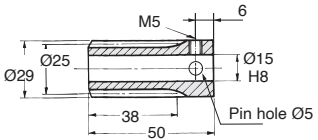


Options

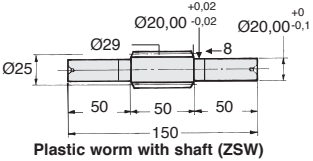
- Left handed lead angle
- **Wheel can have from 12 to 285 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of	Lead	Price each 1 to 5	
Bored type	Shaft type	starts	angle	Bored type	Shaft type
Non hardened steel					
W2-1	SW2-1	1	4°34'	98,91 €	149,96 €
W2-2	SW2-2	2	9°05'	106,02 €	159,13 €
W2-3	SW2-3	3	13°29'	113,80 €	162,50 €
W2-4	SW2-4	4	17°45'	125,44 €	170,72 €
Hardened steel					
WH2-1	SWH2-1	1	4°34'	140,53 €	213,18 €
WH2-2	SWH2-2	2	9°05'	150,67 €	226,08 €
WH2-3	SWH2-3	3	13°29'	161,62 €	231,04 €
WH2-4	SWH2-4	4	17°45'	178,16 €	242,44 €
Delrin					
ZW2-1	ZSW2-1	1	4°34'	69,49 €	105,58 €
ZW2-2	ZSW2-2	2	9°05'	74,57 €	112,06 €
ZW2-3	ZSW2-3	3	13°29'	80,02 €	114,47 €
ZW2-4	ZSW2-4	4	17°45'	88,22 €	120,06 €

Dimensions in mm

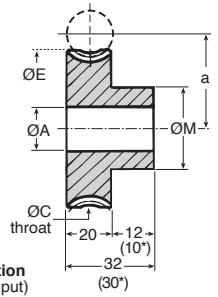
Worm and wheel set

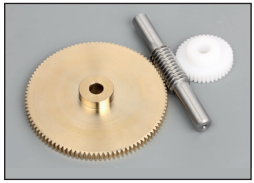
Wheel in bronze or machined plastic

Module 2.0

Info.

- **Pitch 6.283mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W2-1.** wheel **M2-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**45** (0.094)	**28.3** (0.059)
Hardened steel	**79** (0.166)	-
Delrin	-	**11.0** (0.023)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M2-12	ZM2-12	12	24	24,50	28	30	20	12	121,97 €	61,31 €
M2-15	ZM2-15	15	30	27,50	34	36	25	15	148,78 €	82,40 €
M2-18	ZM2-18	18	36	30,50	40	42	30	15	163,19 €	89,23 €
M2-20	ZM2-20	20	40	32,50	44	46	30	15	169,31 €	106,52 €
M2-22	ZM2-22	22	44	34,50	48	50	30	15	189,50 €	112,95 €
M2-24	ZM2-24	24	48	36,50	52	54	30	15	199,64 €	119,31 €
M2-25	ZM2-25	25	50	37,50	54	56	40	20	204,82 €	125,72 €
M2-28	ZM2-28	28	56	40,50	60	62	40	20	214,98 €	137,21 €
M2-30	ZM2-30	30	60	42,50	64	66	50	20	220,07 €	138,52 €
M2-32	ZM2-32	32	64	44,50	68	70	50	20	228,59 €	142,60 €
M2-34	ZM2-34	34	68	46,50	72	74	50	20	254,63 €	160,45 €
M2-40	ZM2-40	40	80	52,50	84	86	50	20	341,43 €	215,16 €
M2-42	ZM2-42	42	84	54,50	88	90	50	20	373,17 €	235,03 €
M2-45	ZM2-45	45	90	57,50	94	96	50	20	423,44 €	266,88 €
M2-48	ZM2-48	48	96	60,50	100	102	50	20	689,85 €	238,22 €
M2-50	ZM2-50	50	100	62,50	104	106	50	20	689,85 €	238,22 €
M2-60	ZM2-60	60	120	72,50	124	126	50	20	849,72 €	293,28 €
M2-65	ZM2-65	65	130	77,50	134	136	50	20	1 093,71 €	348,23 €
↓	↓	**Wheels available up to this size**							↓	↓
M2-72	**ZM2-72**	72	**Dimensions: contact us**						On request	On request

Dimensions in mm

Worm and wheel set

Module 2.5

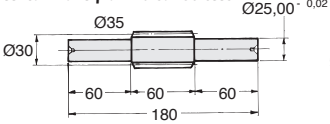
Worm in steel or machined plastic

- **Pitch 7.854mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

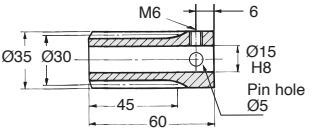


Options

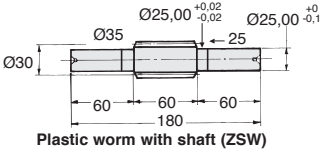
- Left handed lead angle
- **Wheel can have from 15 to 230 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) shaft with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W2.5-1	SW2.5-1	1	4°34'	149,11 €	219,23 €
W2.5-2	SW2.5-2	2	9°50'	159,18 €	228,46 €
W2.5-3	SW2.5-3	3	13°29'	165,63 €	237,42 €
W2.5-4	SW2.5-4	4	17°45'	171,27 €	248,36 €
Hardened steel					
WH2.5-1	SWH2.5-1	1	4°34'	201,61 €	316,40 €
WH2.5-2	SWH2.5-2	2	9°50'	213,37 €	327,53 €
WH2.5-3	SWH2.5-3	3	13°29'	216,64 €	334,56 €
WH2.5-4	SWH2.5-4	4	17°45'	222,34 €	342,71 €
Delrin					
ZW2.5-1	ZSW2.5-1	1	4°34'	98,47 €	148,78 €
ZW2.5-2	ZSW2.5-2	2	9°50'	105,58 €	155,33 €
ZW2.5-3	ZSW2.5-3	3	13°29'	110,27 €	161,73 €
ZW2.5-4	ZSW2.5-4	4	17°45'	114,25 €	169,60 €

Dimensions in mm

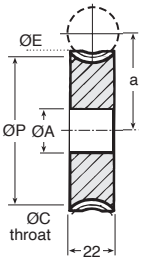
Worm and wheel set

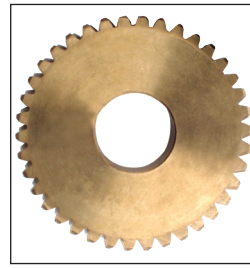
Wheel in bronze or machined plastic

Module 2.5

Info.

- **Pitch 7.854mm**
- *To order. add the number of starts on the worm to the wheel's part number. E.g: worm* **W2.5-1.** *wheel* **M2.5-20/1**
- *The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.*





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze Nm (kW)	Delrin Nm (kW)
Steel	**81** (0.169)	**40** (0.085)
Hardened steel	**124** (0.258)	-
Delrin	-	**18** (0.034)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	Centres ØC	Centres ØE	Centres ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
PM2.5-15	ZPM2.5-15	15	37,50	33,75	42,50	45,00	15	115,01 €	82,73 €
PM2.5-20	ZPM2.5-20	20	50,00	40,00	55,00	57,50	20	140,99 €	101,43 €
PM2.5-25	ZPM2.5-25	25	62,50	46,25	67,50	70,00	20	157,03 €	112,95 €
PM2.5-30	ZPM2.5-30	30	75,00	52,50	80,00	82,50	20	164,01 €	117,96 €
PM2.5-40	ZPM2.5-40	40	100,00	65,00	105,00	107,50	20	508,30 €	185,27 €
PM2.5-50	ZPM2.5-50	50	125,00	77,50	130,00	132,50	20	805,90 €	270,87 €
↓	↓	Wheels available up to this size						↓	↓
PM2.5-55	**ZPM2.5-55**	**55**	**137,50**	**83,75**	**142,50**	**145,00**	**20**	**967,08 €**	**333,58 €**

Dimensions in mm

Worm and wheel set

Module 3.0

Worm in steel or machined plastic

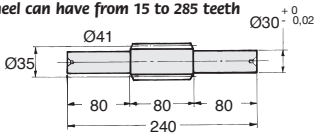
- **Pitch 9.425mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

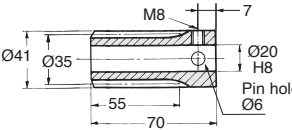


Options

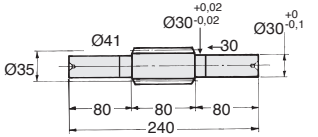
- Left handed lead angle
- **Wheel can have from 15 to 285 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

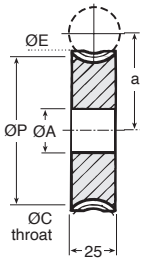
Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W3-1	SW3-1	1	4°54'	178,00 €	254,69 €
W3-2	SW3-2	2	9°44'	183,88 €	270,37 €
W3-3	SW3-3	3	14°25'	189,34 €	281,70 €
W3-4	SW3-4	4	18°55'	196,81 €	292,84 €
Hardened steel					
WH3-1	SWH3-1	1	4°54'	228,47 €	348,66 €
WH3-2	SWH3-2	2	9°44'	234,53 €	338,86 €
WH3-3	SWH3-3	3	14°25'	246,33 €	344,36 €
WH3-4	SWH3-4	4	18°55'	256,19 €	361,53 €
Delrin					
ZW3-1	ZSW3-1	1	4°54'	140,99 €	195,96 €
ZW3-2	ZSW3-2	2	9°44'	145,09 €	203,22 €
ZW3-3	ZSW3-3	3	14°25'	149,07 €	211,47 €
ZW3-4	ZSW3-4	4	18°55'	154,41 €	219,54 €

Dimensions in mm

Info.

- **Pitch 9.425mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W3-1.** wheel **M3-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**139** (0.291)	**69** (0.145)
Hardened steel	**200** (0.422)	-
Delrin	-	**27** (0.058)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	Centres ØC	ØE	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
PM3-15	ZPM3-15	15	45	40,00	51	54	25	123,16 €	88,57 €
PM3-20	ZPM3-20	20	60	47,50	66	69	25	155,66 €	111,99 €
PM3-25	ZPM3-25	25	75	55,00	81	84	25	187,44 €	134,82 €
PM3-30	ZPM3-30	30	90	62,50	96	99	25	270,01 €	194,32 €
PM3-40	ZPM3-40	40	120	77,50	126	129	25	693,19 €	252,49 €
↓	↓	Wheels available up to this size						↓	↓
PM3-48	ZPM3-48	48	Dimensions: contact us					On request	On request

Dimensions in mm

Worm and wheel set

Module 4.0

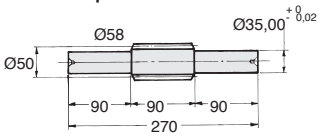
Worm in steel or machined plastic

- **Pitch 12.566mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

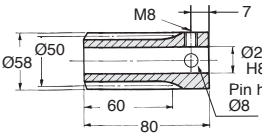


Options

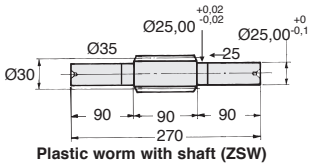
- Left handed lead angle
- **Wheel can have from 15 to 140 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic* (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Shaft type
Non hardened steel					
W4-1	SW4-1	1	4°34'	277,31 €	372,95 €
W4-2	SW4-2	2	9°50'	291,44 €	392,56 €
W4-3	SW4-3	3	13°30'	306,56 €	414,52 €
W4-4	SW4-4	4	17°45'	325,69 €	442,39 €
Hardened steel					
WH4-1	SWH4-1	1	4°34'	347,17 €	517,24 €
WH4-2	SWH4-2	2	9°50'	366,35 €	527,20 €
WH4-3	SWH4-3	3	13°30'	378,88 €	548,24 €
WH4-4	SWH4-4	4	17°45'	402,79 €	563,73 €
Delrin					
ZW4-1	ZSW4-1	1	4°34'	187,99 €	263,77 €
ZW4-2	ZSW4-2	2	9°50'	197,09 €	277,11 €
ZW4-3	ZSW4-3	3	13°30'	209,13 €	293,77 €
ZW4-4	ZSW4-4	4	17°45'	222,57 €	309,00 €

Dimensions in mm

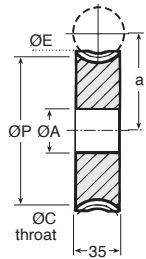
Worm and wheel set

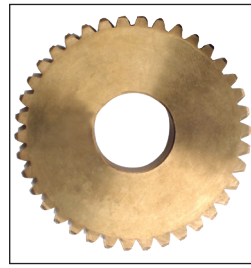
Wheel in bronze or machined plastic

Module 4.0

Info.

- **Pitch 12.566mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: **worm W4-1.** wheel **M4-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WORM material \ WHEEL material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**309** (0.647)	**61** (0.129)
Hardened steel	**417** (0.873)	-
Delrin	-	**154** (0.324)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z Teeth	ØP	Centres a	ØC	ØE	ØA	Price each 1 to 5 Bronze	Plastic
PM4-15	ZPM4-15	15	60	55	68	72	25	293,22 €	189,67 €
PM4-20	ZPM4-20	20	80	65	88	92	25	341,29 €	220,71 €
PM4-25	ZPM4-25	25	100	75	108	112	35	744,33 €	271,37 €
PM4-30	ZPM4-30	30	120	85	128	132	35	1 180,08 €	396,63 €
↓	↓	Wheels available up to this size							↓
PM4-36	ZPM4-36	36	Dimensions: contact us					On request	On request

Dimensions in mm