

# Worm and wheel set



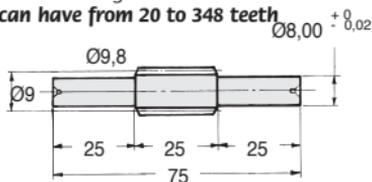
## Module 0.4 Worm in steel or machined plastic

- 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

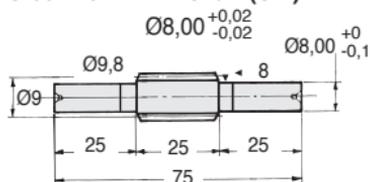


### Options

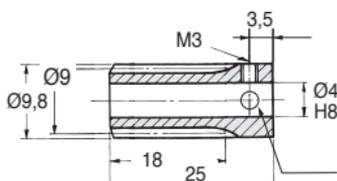
- Left handed lead angle
- **Wheel can have from 20 to 348 teeth**



Steel worm with shaft (SW)



Plastic worm with shaft (ZSW)



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

### DISCOUNT STEEL

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

### DISCOUNT DELRIN

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

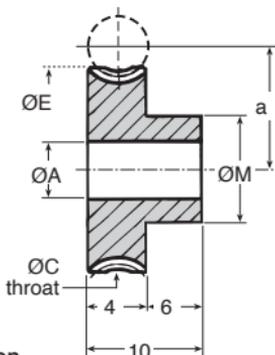
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
W0.4-1	SW0.4-1	1	2°32'	38,02 €	69,59 €
W0.4-2	SW0.4-2	2	5°04'	38,57 €	74,51 €
W0.4-3	SW0.4-3	3	7°35'	40,52 €	78,73 €
W0.4-4	SW0.4-4	4	10°40'	43,63 €	81,15 €
<b>Hardened steel</b>					
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 €
<b>Plastic</b>					
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 delrin worm with a steel wheel is preferred.



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

WHEEL material	Bronze	Delrin
WORM material	Nm (kW)	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		Z	Centres				Price each 1 to 5			
Bronze	Delrin	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	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 €

M0.4-348		ZM0.4-348	348	Dimensions : contact us	On request	On request
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Dimensions in mm

# Worm and wheel set



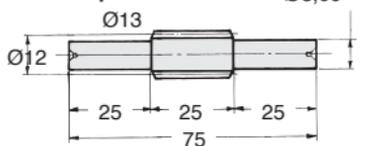
## Module 0.5 Worm in steel or machined plastic

- 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

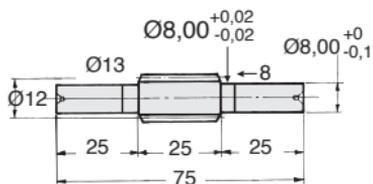


### Options

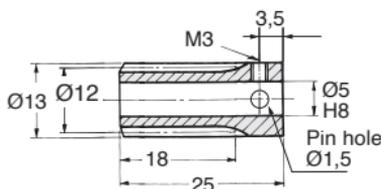
- Left handed lead angle
- Wheel can have from 12 to 278 teeth  $\varnothing 8,00^{+0,02}$



Steel worm with shaft (SW)



Plastic worm with shaft (ZSW)



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

### DISCOUNT Steel

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

### DISCOUNT Delrin

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

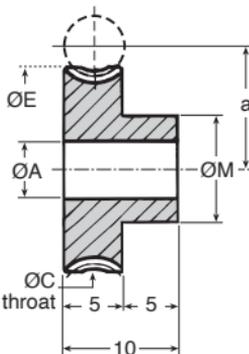
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
W0.5-1	SW0.5-1	1	2°23'	37,21 €	73,28 €
W0.5-2	SW0.5-2	2	4°45'	38,57 €	76,52 €
W0.5-3	SW0.5-3	3	7°07'	40,52 €	80,74 €
W0.5-4	SW0.5-4	4	9°27'	43,63 €	84,43 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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

## Wheel in bronze or machined plastic Module 0.5

### 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 (input)

WHEEL material	Bronze Nm (kW)	Delrin Nm (kW)
WORM material		
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		Z	Centres						Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	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 €

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**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



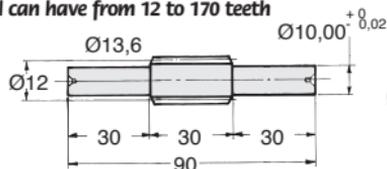
## Module 0.8 Worm in steel or machined plastic

- 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

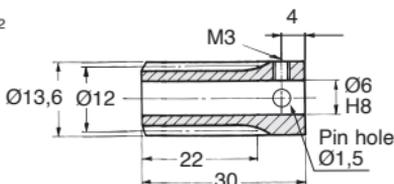


### Options

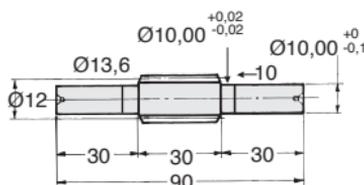
- Left handed lead angle
- Wheel can have from 12 to 170 teeth



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	

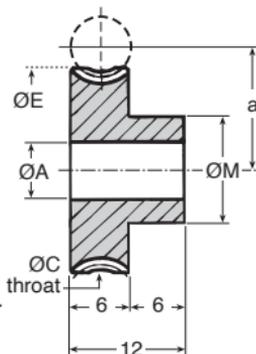
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
W0.8-1	SW0.8-1	1	3°48'	42,54 €	73,27 €
W0.8-2	SW0.8-2	2	7°35'	44,41 €	77,05 €
W0.8-3	SW0.8-3	3	11°18'	48,13 €	80,74 €
W0.8-4	SW0.8-4	4	14°55'	52,16 €	84,43 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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 **WO.8-1**, wheel **MO.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	Bronze	Delrin
WORM material	Nm (kW)	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		Z	Centres					Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	Plastic
MO.8-15	ZMO.8-15	15	12,00	12,00	13,60	14,40	10	5	34,03 €	17,01 €
MO.8-18	ZMO.8-18	18	14,40	13,20	16,00	16,80	10	5	38,02 €	19,09 €
MO.8-20	ZMO.8-20	20	16,00	14,00	17,60	18,40	12	5	38,72 €	19,39 €
MO.8-24	ZMO.8-24	24	19,20	15,60	20,80	21,60	12	5	41,95 €	20,98 €
MO.8-25	ZMO.8-25	25	20,00	16,00	21,60	22,40	16	8	44,15 €	22,16 €
MO.8-28	ZMO.8-28	28	22,40	17,20	24,00	24,80	16	8	45,77 €	22,96 €
MO.8-30	ZMO.8-30	30	24,00	18,00	25,60	26,40	16	8	47,60 €	23,91 €
MO.8-32	ZMO.8-32	32	25,60	18,80	27,20	28,00	16	8	49,30 €	24,80 €
MO.8-40	ZMO.8-40	40	32,00	22,00	33,60	34,40	20	8	58,88 €	49,89 €
MO.8-42	ZMO.8-42	42	33,60	22,80	35,20	36,00	20	8	63,11 €	34,92 €
MO.8-48	ZMO.8-48	48	38,40	25,20	40,00	40,80	20	8	73,54 €	40,59 €
MO.8-50	ZMO.8-50	50	40,00	26,00	41,60	42,40	20	8	79,32 €	49,90 €
MO.8-60	ZMO.8-60	60	48,00	30,00	49,60	50,40	20	8	121,40 €	76,43 €
MO.8-78	ZMO.8-78	78	62,40	37,20	64,00	64,80	20	8	130,53 €	82,20 €
MO.8-80	ZMO.8-80	80	64,00	38,00	65,60	66,40	20	8	131,69 €	82,98 €
MO.8-90	ZMO.8-90	90	72,00	42,00	73,60	74,40	20	8	150,02 €	94,46 €
MO.8-100	ZMO.8-100	100	80,00	46,00	81,60	82,40	20	8	164,65 €	103,64 €
MO.8-110	ZMO.8-110	110	88,00	50,00	89,60	90,40	20	8	202,68 €	127,71 €
MO.8-150	ZMO.8-150	150	120,00	66,00	121,60	122,40	20	8	402,45 €	146,60 €

Wheels available up to this size		Dimensions : contact us	
MO.8-170	ZMO.8-170	170	On request On request

Dimensions in mm

# Worm and wheel set



## Module Worm in steel or **machined** plastic

# 1.0

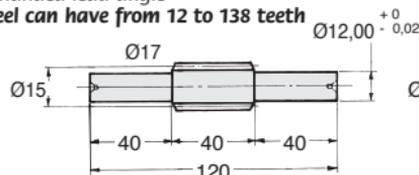


- Pitch 3.142mm
- **Machined parts**
- Pressure angle 20°
- Right handed lead angle
- Materials:  
Worm: Steel 20NCD2 or Delrin plastic  
Wheel: bronze CuAl10NiFe4  
or delrin plastic
- Delrin: Working temp. -50°C to +80°C

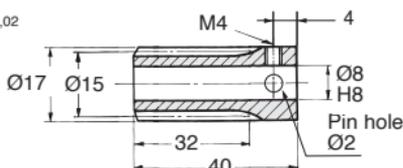


### Options

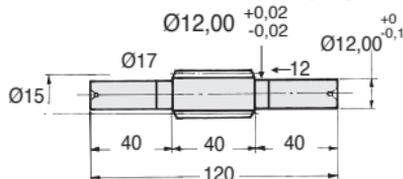
- Left handed lead angle
- **Wheel can have from 12 to 138 teeth**



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

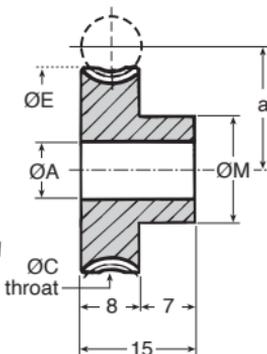
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
W1-1	SW1-1	1	3°48'	48,99 €	90,48 €
W1-2	SW1-2	2	7°35'	51,86 €	92,95 €
W1-3	SW1-3	3	11°18'	56,88 €	99,22 €
W1-4	SW1-4	4	14°56'	59,40 €	100,68 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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	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		Z	Centres				Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	ØC	ØE	ØM	ØA	Bronze	Plastic
M1-12	ZM1-12	12	12	13,50	14	15	15	49,30 €	24,80 €
M1-15	ZM1-15	15	15	15,00	17	18	15	51,03 €	25,59 €
M1-18	ZM1-18	18	18	16,50	20	21	15	53,16 €	26,64 €
M1-20	ZM1-20	20	20	17,50	22	23	15	53,68 €	26,93 €
M1-24	ZM1-24	24	24	19,50	26	27	20	56,48 €	28,49 €
M1-25	ZM1-25	25	25	20,00	27	28	20	59,00 €	29,57 €
M1-28	ZM1-28	28	28	21,50	30	31	20	61,18 €	30,67 €
M1-30	ZM1-30	30	30	22,50	32	33	25	63,13 €	34,97 €
M1-32	ZM1-32	32	32	23,50	34	35	25	66,36 €	36,81 €
M1-40	ZM1-40	40	40	27,50	42	43	25	89,63 €	56,38 €
M1-42	ZM1-42	42	42	28,50	44	45	25	91,63 €	57,64 €
M1-48	ZM1-48	48	48	31,50	50	51	25	111,11 €	69,93 €
M1-50	ZM1-50	50	50	32,50	52	53	25	119,60 €	75,33 €
M1-60	ZM1-60	60	60	37,50	62	63	25	131,76 €	82,98 €
M1-78	ZM1-78	78	78	46,50	80	81	25	171,89 €	108,26 €
M1-80	ZM1-80	80	80	47,50	82	83	25	195,56 €	123,16 €
M1-90	ZM1-90	90	90	52,50	92	93	25	243,10 €	153,14 €
M1-100	ZM1-100	100	100	57,50	102	103	25	381,21 €	138,97 €
M1-110	ZM1-110	110	110	62,50	112	113	30	381,21 €	138,97 €

**Wheels available up to this size**

M1-138	M1-138	138	Dimensions : contact us	On request	On request
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Dimensions in mm

# Worm and wheel set



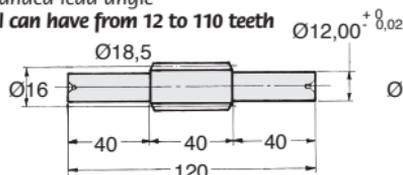
## Module 1.25 Worm in steel or machined plastic

- 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

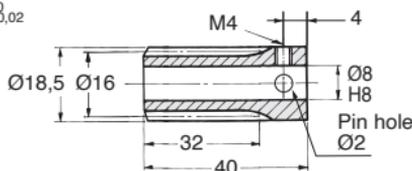


### Options

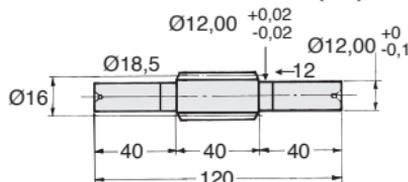
- Left handed lead angle
- Wheel can have from 12 to 110 teeth



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	

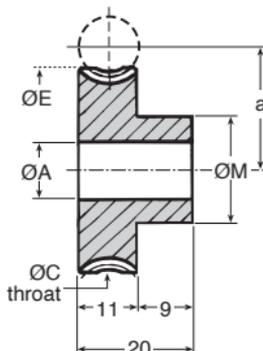
Part number	No. of starts		Lead angle	Price each 1 to 5	
	Bored type	Shaft type		Bored type	Shaft type
<b>Non hardened steel</b>					
W1.25-1	SW1.25-1	1	4°28'	48,99 €	90,48 €
W1.25-2	SW1.25-2	2	8°53'	51,85 €	92,95 €
W1.25-3	SW1.25-3	3	13°11'	56,88 €	99,22 €
W1.25-4	SW1.25-4	4	17°21'	59,40 €	100,68 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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

## Wheel in bronze or machined plastic Module 1.25

### 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	Bronze Nm (kW)	Delrin Nm (kW)
WORM material		
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		Z	Centres					Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	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 €

↓ ↓		<b>Wheels available up to this size</b>					↓ ↓		
M1.25-110	ZM1.25-110	110	Dimensions : contact us					On request	On request

Dimensions in mm

# Worm and wheel set



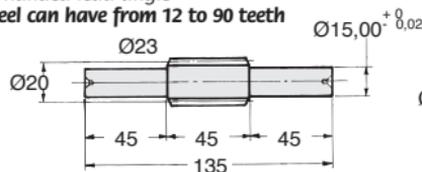
## Module 1.5 Worm in steel or machined plastic

- 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

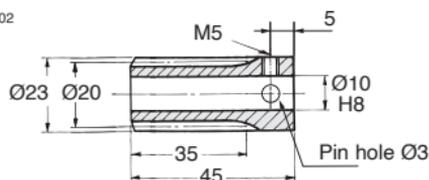


### Options

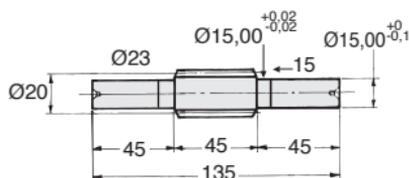
- Left handed lead angle
- Wheel can have from 12 to 90 teeth



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

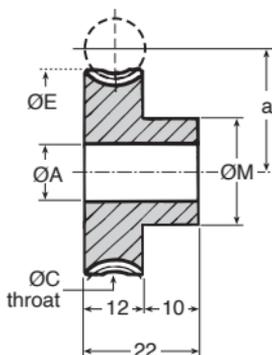
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
W1.5-1	SW1.5-1	1	4°17'	56,78 €	106,40 €
W1.5-2	SW1.5-2	2	8°31'	65,99 €	112,06 €
W1.5-3	SW1.5-3	3	12°40'	69,25 €	115,60 €
W1.5-4	SW1.5-4	4	16°42'	75,09 €	116,85 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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

## 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	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		Z	Centres					Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	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 €
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Dimensions in mm

# Worm and wheel set



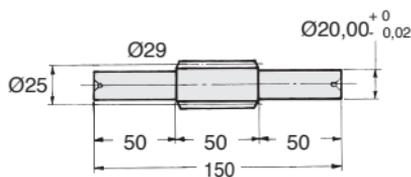
## Module 2.0 Worm in steel or machined plastic

- 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

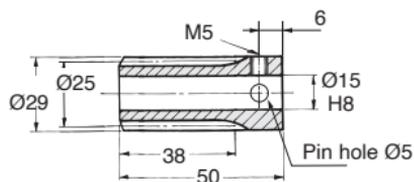


### Options

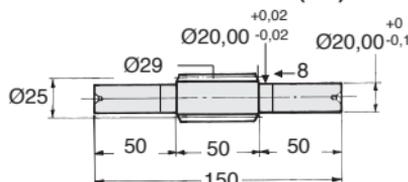
- Left handed lead angle
- Wheel can have from 12 to 285 teeth



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

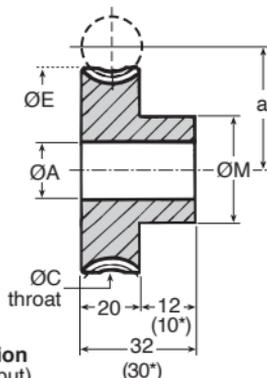
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
W2-1	SW2-1	1	4°34'	98,91 €	149,96 €
W2-2	SW2-2	2	9°05'	106,02 €	159,13 €
W2-3	SW2-3	3	13°29'	113,80 €	162,50 €
W2-4	SW2-4	4	17°45'	125,44 €	170,72 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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

## 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	Bronze	Delrin
WORM material		
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		Z	Centres				Price each 1 to 5			
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	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 €

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**Wheels available up to this size**
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M2-72	ZM2-72	72	Dimensions: contact us	On request	On request
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Dimensions in mm

# Worm and wheel set



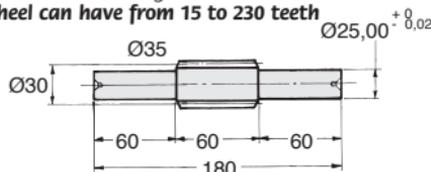
## Module 2.5 Worm in steel or machined plastic

- 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

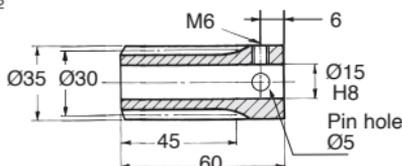


### Options

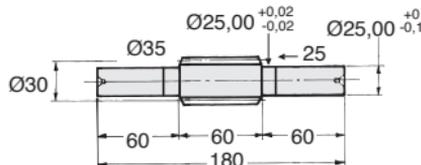
- Left handed lead angle
- Wheel can have from 15 to 230 teeth



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

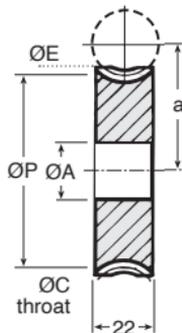
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
W2.5-1	SW2.5-1	1	4°34'	149,11 €	219,23 €
W2.5-2	SW2.5-2	2	9°50'	159,18 €	228,46 €
W2.5-3	SW2.5-3	3	13°29'	165,63 €	237,42 €
W2.5-4	SW2.5-4	4	17°45'	171,27 €	248,36 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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

## 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		Z	Centres					Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØA	Bronze	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 €
<b>Wheels available up to this size</b>									
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

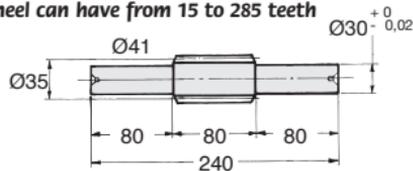


- Pitch 9.425mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:  
Worm: Steel 20NCD2 or Delrin plastic  
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

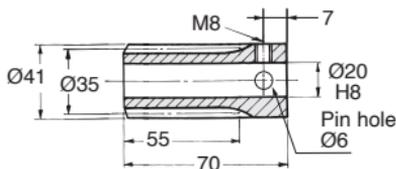


### Options

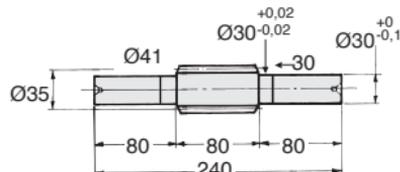
- Left handed lead angle
- **Wheel can have from 15 to 285 teeth**



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

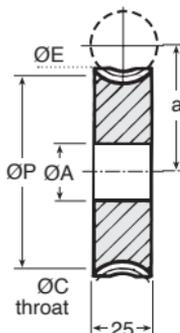
Part number	Bored type	Shaft type	No. of starts	Lead angle	Price each 1 to 5	
					Bored type	Shaft type
<b>Non hardened steel</b>						
W3-1	SW3-1		1	4°54'	178,00 €	254,69 €
W3-2	SW3-2		2	9°44'	183,88 €	270,37 €
W3-3	SW3-3		3	14°25'	189,34 €	281,70 €
W3-4	SW3-4		4	18°55'	196,81 €	292,84 €
<b>Hardened steel</b>						
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 €
<b>Delrin</b>						
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

## Wheel in bronze or **machined** plastic **Module 3.0**

### 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		Z	Centres			Price each 1 to 5			
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØA	Bronze	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
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Dimensions in mm

# Worm and wheel set



## Module 4.0 Worm in steel or **machined plastic**

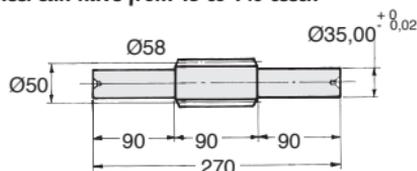
# 4.0

- 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

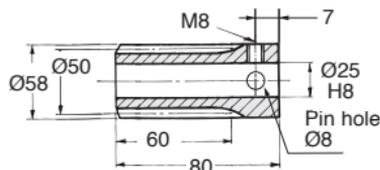


### Options

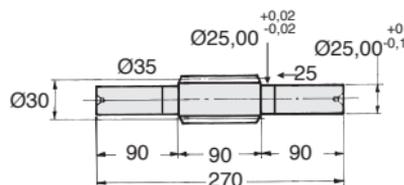
- Left handed lead angle
- **Wheel can have from 15 to 140 teeth**



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

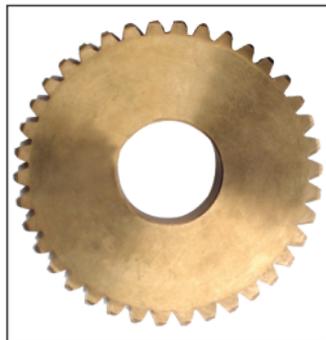
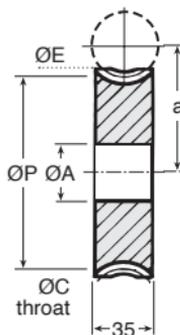
Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
<b>Non hardened steel</b>					
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 €
<b>Hardened steel</b>					
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 €
<b>Delrin</b>					
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

### 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)

WHEEL material \ WORM 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	Centres a	ØP	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
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Dimensions in mm