

Worm and wheel set



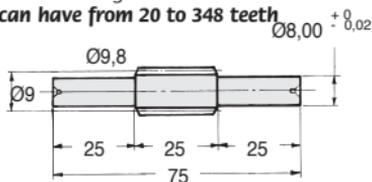
Module 0.4 Worm in steel or machined plastic

- 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

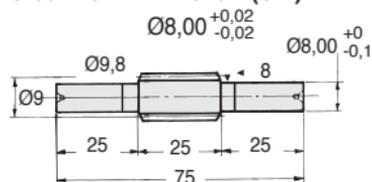


Options

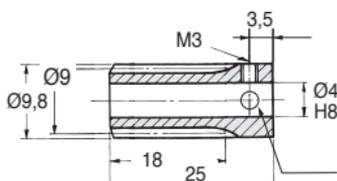
- Left handed lead angle
- **Wheel can have from 20 to 348 teeth**



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 |

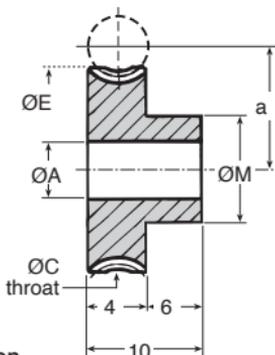
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W0.4-1 | SW0.4-1 | 1 | 2°32' | 38,02 € | 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 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 € |

| Wheels available up to this size | | Dimensions : contact us | |
|----------------------------------|-----------|-------------------------|------------|
| M0.4-348 | ZM0.4-348 | 348 | On request |

Worm and wheel set



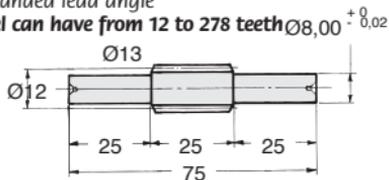
Module 0.5 Worm in steel or machined plastic

- 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

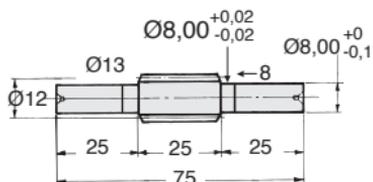


Options

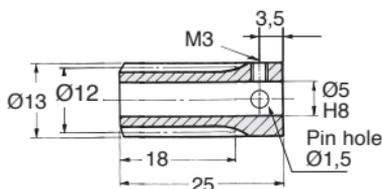
- Left handed lead angle
- Wheel can have from 12 to 278 teeth $\varnothing 8,00^{+0,02}$



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 | |

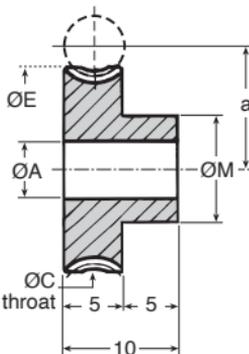
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W0.5-1 | SW0.5-1 | 1 | 2°23' | 37,21 € | 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

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 € | 41,17 € |
| 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



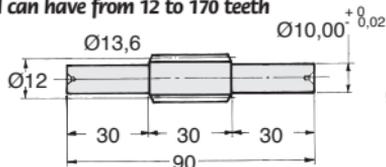
Module 0.8 Worm in steel or machined plastic

- 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

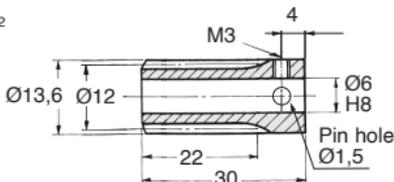


Options

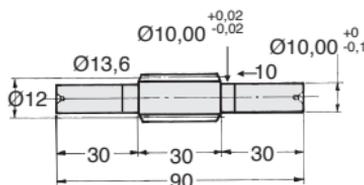
- Left handed lead angle
- Wheel can have from 12 to 170 teeth



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 | |

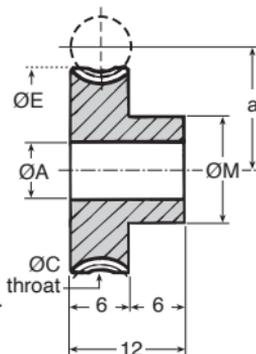
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W0.8-1 | SW0.8-1 | 1 | 3°48' | 42,54 € | 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 **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 |
| 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 | | Dimensions : contact us | |
|----------------------------------|-----------|-------------------------|-----------------------|
| M0.8-170 | ZM0.8-170 | 170 | On request On request |

Dimensions in mm

Worm and wheel set



Module Worm in steel or machined plastic

1.0

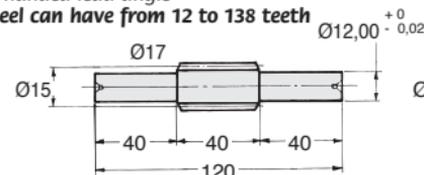


- Pitch 3.142mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4
or delrin plastic
- Delrin: Working temp. -50°C to +80°C

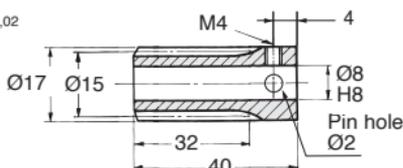


Options

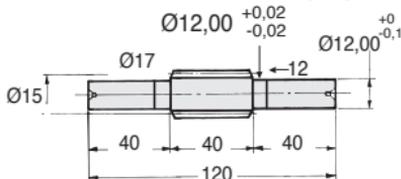
- Left handed lead angle
- Wheel can have from 12 to 138 teeth



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 |

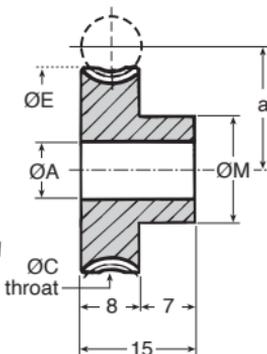
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W1-1 | SW1-1 | 1 | 3°48' | 48,99 € | 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 | 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 | 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



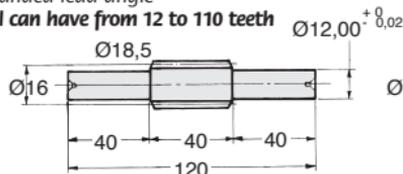
Module 1.25 Worm in steel or machined plastic

- 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

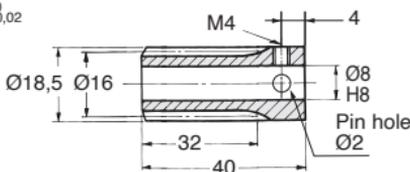


Options

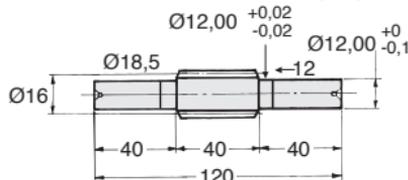
- Left handed lead angle
- Wheel can have from 12 to 110 teeth



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 | |

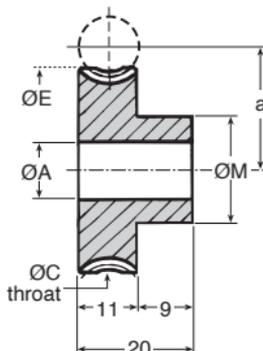
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W1.25-1 | SW1.25-1 | 1 | 4°28' | 48,99 € | 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

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 € |

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



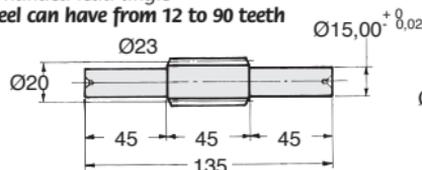
Module 1.5 Worm in steel or machined plastic

- 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

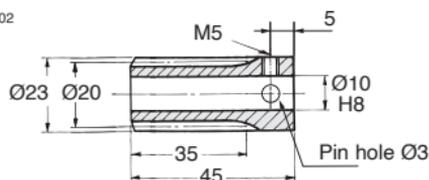


Options

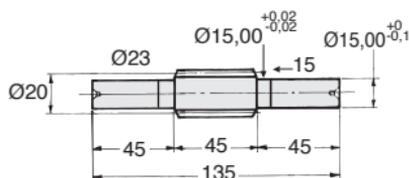
- Left handed lead angle
- Wheel can have from 12 to 90 teeth



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 |

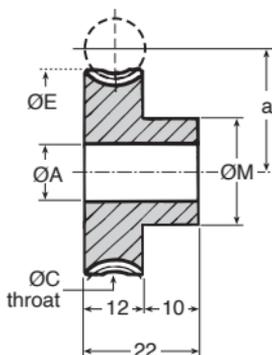
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W1.5-1 | SW1.5-1 | 1 | 4°17' | 56,78 € | 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

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% | List -25% | On request | On request |

DISCOUNT Delrin

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

Dimensions in mm

Worm and wheel set



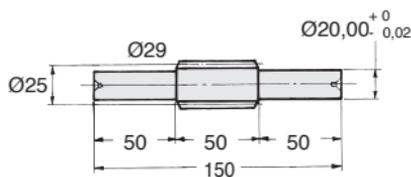
Module 2.0 Worm in steel or machined plastic

- 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

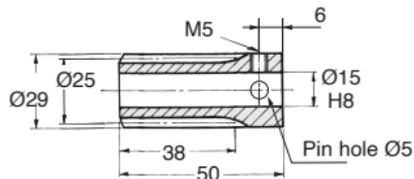


Options

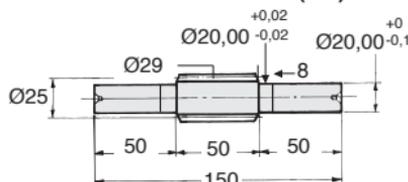
- Left handed lead angle
- Wheel can have from 12 to 285 teeth



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 |

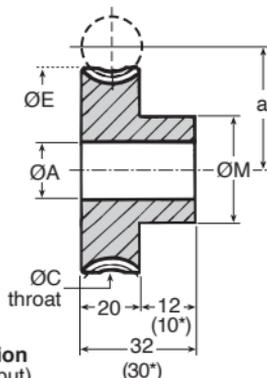
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W2-1 | SW2-1 | 1 | 4°34' | 98,91 € | 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

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 | OP | a | OC | OE | OM | OA | 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 € |

↓
↓
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



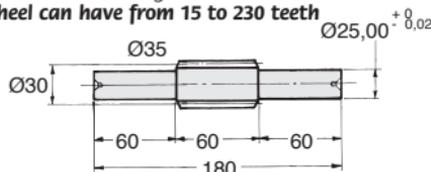
Module 2.5 Worm in steel or machined plastic

- 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

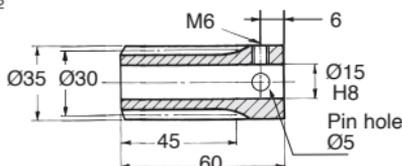


Options

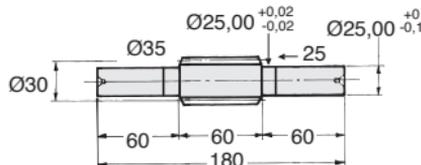
- Left handed lead angle
- Wheel can have from 15 to 230 teeth



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 |

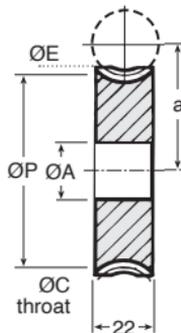
| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| Non hardened steel | | | | | |
| W2.5-1 | SW2.5-1 | 1 | 4°34' | 149,11 € | 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

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 € |
| 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

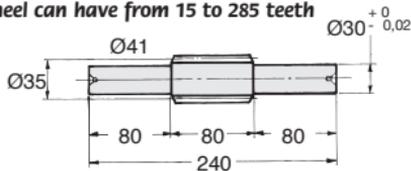


- Pitch 9.425mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

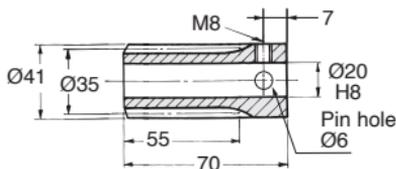


Options

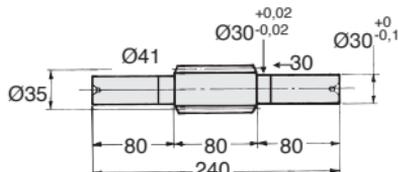
- Left handed lead angle
- Wheel can have from 15 to 285 teeth



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 |

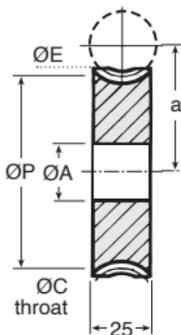
| Part number | Bored type | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|--|---------------|------------|-------------------|------------|
| | Shaft type | | | | Bored type | Shaft type |
| Non hardened steel | | | | | | |
| W3-1 | SW3-1 | | 1 | 4°54' | 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

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 |
|--------|---------|----|------------------------|--|--|--|------------|------------|

Dimensions in mm

Worm and wheel set



Module 4.0 Worm in steel or machined plastic

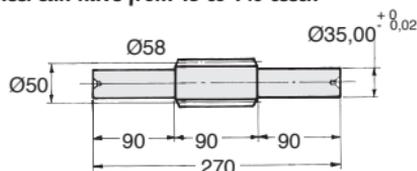
4.0

- 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

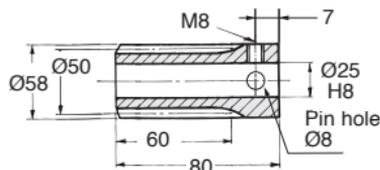


Options

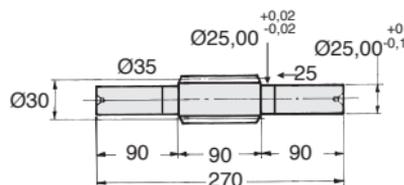
- Left handed lead angle
- Wheel can have from 15 to 140 teeth



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

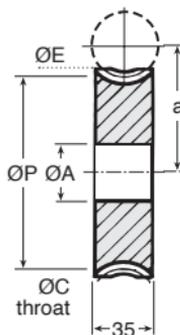
| | | | |
|-------|------|------|------------|
| Qty | 1+ | 6+ | 30+ |
| Disc. | List | -22% | On request |

| Part number | | No. of starts | Lead angle | Price each 1 to 5 | |
|---------------------------|------------|---------------|------------|-------------------|------------|
| Bored type | Shaft type | | | Bored type | Shaft type |
| 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

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 | 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 |
|--------|---------|----|------------------------|--|--|--|------------|------------|

Dimensions in mm