

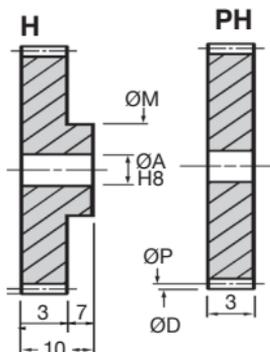
## Steel

## Module 0.4

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2

### Info.

**Important:** A helical gear with a 45°RH angle meshes with a second identically angled gear



### Torque and power indication

For 50 teeth at 1000 rpm

|    | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened |
|----|-----------------------|--------------------|
| Nm | 0,056                 | 0,375              |
| kW | 0,006                 | 0,039              |

### DISCOUNTS

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

| Part number | Z<br>Teeth | ØP<br>PCD | ØD<br>External | ØM<br>Boss | ØA<br>Bore | Price each 1 to 5<br>H | PH         |
|-------------|------------|-----------|----------------|------------|------------|------------------------|------------|
| H0.4-20     | 20         | 11,31     | 12,11          | 8,00       | 3          | 25,13 €                | On request |
| H0.4-25     | 25         | 14,14     | 14,94          | 8,00       | 3          | 25,79 €                |            |
| H0.4-26     | 26         | 14,71     | 15,51          | 8,00       | 3          | 25,96 €                |            |
| H0.4-30     | 30         | 16,97     | 17,77          | 12,00      | 3          | 27,01 €                |            |
| H0.4-35     | 35         | 19,80     | 20,60          | 12,00      | 3          | 28,26 €                |            |
| H0.4-36     | 36         | 20,36     | 21,16          | 12,00      | 3          | 28,44 €                |            |
| H0.4-40     | 40         | 22,63     | 23,43          | 12,00      | 4          | 29,57 €                |            |
| H0.4-46     | 46         | 26,02     | 26,82          | 12,00      | 4          | 32,01 €                |            |
| H0.4-50     | 50         | 28,28     | 29,08          | 12,00      | 4          | 32,39 €                |            |
| H0.4-55     | 55         | 31,11     | 31,91          | 12,00      | 4          | 32,85 €                |            |
| H0.4-56     | 56         | 31,68     | 32,48          | 12,00      | 4          | 32,85 €                |            |
| H0.4-60     | 60         | 33,94     | 34,74          | 12,00      | 4          | 33,66 €                |            |
| H0.4-65     | 65         | 36,77     | 37,57          | 12,00      | 4          | 35,36 €                |            |
| H0.4-68     | 68         | 38,47     | 39,27          | 12,00      | 4          | 35,93 €                |            |
| H0.4-70     | 70         | 39,60     | 40,40          | 12,00      | 4          | 36,70 €                |            |
| H0.4-75     | 75         | 42,43     | 43,23          | 12,00      | 4          | 38,45 €                |            |
| H0.4-80     | 80         | 45,25     | 46,05          | 12,00      | 5          | 38,72 €                |            |
| H0.4-86     | 86         | 48,65     | 49,45          | 12,00      | 5          | 40,16 €                |            |
| H0.4-90     | 90         | 50,91     | 51,71          | 12,00      | 5          | 45,40 €                |            |
| H0.4-100    | 100        | 56,57     | 57,37          | 12,00      | 5          | 49,45 €                |            |
| H0.4-120    | 120        | 67,88     | 68,68          | 12,00      | 5          | 57,80 €                |            |



**Gears available up to this size**

H0.4-246 246

Dimensions: contact us

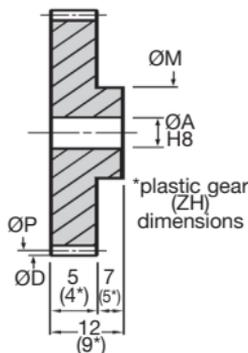
Dimensions in mm

# 90° crossed axis helical gear DelSte 90°

## Module 0,5 Steel or machined Delrin

| Torque and power indication |                       |                    |        |
|-----------------------------|-----------------------|--------------------|--------|
| For 50 teeth at 1000 rpm    |                       |                    |        |
|                             | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened | delrin |
| Nm                          | 0,127                 | 0,705              | 0,03   |
| kW                          | 0,011                 | 0,074              | -      |

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or delrin plastic



### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

| Part number | Z         | ØP    | ØD     | ØM       | Boss  | ØA | Bore | Price each | 1 to 5   |
|-------------|-----------|-------|--------|----------|-------|----|------|------------|----------|
| Steel       | Delrin    | Teeth | PCD    | External | ZH    | H  | ZH   | H          | ZH       |
| H0.5-14     | ZH0.5-14  | 14    | 9,90   | 10,90    | 8,50  | 10 | 4    | 3          | 28,44 €  |
| H0.5-15     | ZH0.5-15  | 15    | 10,61  | 11,61    | 8,50  | 10 | 4    | 3          | 29,03 €  |
| H0.5-20     | ZH0.5-20  | 20    | 14,14  | 15,14    | 10,00 | 10 | 5    | 3          | 31,31 €  |
| H0.5-25     | ZH0.5-25  | 25    | 17,68  | 18,68    | 10,00 | 14 | 5    | 4          | 33,66 €  |
| H0.5-26     | ZH0.5-26  | 26    | 18,38  | 19,38    | 10,00 | 14 | 5    | 4          | 34,03 €  |
| H0.5-30     | ZH0.5-30  | 30    | 21,21  | 22,21    | 10,00 | 14 | 5    | 4          | 36,07 €  |
| H0.5-35     | ZH0.5-35  | 35    | 24,75  | 25,75    | 10,00 | 14 | 5    | 4          | 38,72 €  |
| H0.5-36     | ZH0.5-36  | 36    | 25,46  | 26,46    | 10,00 | 14 | 5    | 4          | 38,94 €  |
| H0.5-40     | ZH0.5-40  | 40    | 28,28  | 29,28    | 10,00 | 14 | 5    | 4          | 40,52 €  |
| H0.5-46     | ZH0.5-46  | 46    | 35,53  | 33,53    | 10,00 | 16 | 5    | 4          | 42,94 €  |
| H0.5-50     | ZH0.5-50  | 50    | 35,36  | 36,36    | 12,00 | 16 | 6    | 5          | 43,93 €  |
| H0.5-56     | ZH0.5-56  | 56    | 39,60  | 40,60    | 12,00 | 16 | 6    | 5          | 45,18 €  |
| H0.5-60     | ZH0.5-60  | 60    | 42,43  | 43,43    | 12,00 | 16 | 6    | 5          | 46,13 €  |
| H0.5-64     | ZH0.5-64  | 64    | 45,25  | 46,25    | 12,00 | 16 | 6    | 5          | 47,45 €  |
| H0.5-70     | ZH0.5-70  | 70    | 49,50  | 50,50    | 12,00 | 16 | 6    | 5          | 47,60 €  |
| H0.5-75     | ZH0.5-75  | 75    | 53,03  | 54,03    | 12,00 | 16 | 6    | 5          | 57,64 €  |
| H0.5-80     | ZH0.5-80  | 80    | 56,57  | 57,57    | 12,00 | 16 | 6    | 5          | 57,64 €  |
| H0.5-90     | ZH0.5-90  | 90    | 63,64  | 64,64    | 12,00 | 18 | 6    | 6          | 68,90 €  |
| H0.5-100    | ZH0.5-100 | 100   | 70,71  | 71,71    | 16,00 | 18 | 6    | 6          | 76,14 €  |
| H0.5-120    | ZH0.5-120 | 120   | 84,85  | 85,85    | 20,00 | 18 | 8    | 8          | 84,73 €  |
| H0.5-140    | -         | 140   | 98,99  | 99,99    | 20,00 | -  | 8    | -          | 92,55 €  |
| H0.5-150    | -         | 150   | 106,07 | 107,07   | 20,00 | -  | 10   | -          | 100,90 € |
| H0.5-180    | -         | 180   | 127,26 | 128,28   | 20,00 | -  | 10   | -          | 113,14 € |

On request

|                  |           |     |                                 |  |  |  |  |  |  |
|------------------|-----------|-----|---------------------------------|--|--|--|--|--|--|
| H0.5-196         | ZH0.5-196 | 196 | Gears available up to this size |  |  |  |  |  |  |
| Dimensions in mm |           |     | Dimensions: contact us          |  |  |  |  |  |  |

## Steel

## Module 0,7

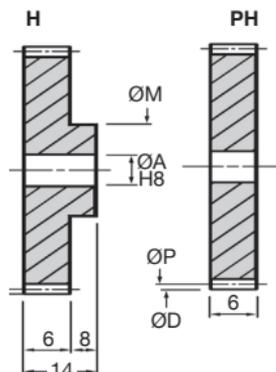
| Torque and power indication |                       |                    |
|-----------------------------|-----------------------|--------------------|
| For 50 teeth at 1000 rpm    |                       |                    |
|                             | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened |
| Nm                          | <b>0,272</b>          | 1,791              |
| kW                          | <b>0,028</b>          | 0,188              |

### - Power transferred through 90°

- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear



### DISCOUNTS

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

| Part number                       | Z<br>Teeth | ØP<br>PCD | ØD<br>External | ØM<br>Boss | ØA<br>Bore | Price each 1 to 5 | H | PH |
|-----------------------------------|------------|-----------|----------------|------------|------------|-------------------|---|----|
| H0.7-9                            | 9          | 8,91      | 10,31          | 10,31      | 4          | 29,70 €           |   |    |
| H0.7-10                           | 10         | 9,90      | 11,30          | 11,30      | 4          | 31,01 €           |   |    |
| H0.7-15                           | 15         | 14,85     | 16,25          | 12,00      | 5          | 34,92 €           |   |    |
| H0.7-16                           | 16         | 15,84     | 17,24          | 12,00      | 5          | 35,32 €           |   |    |
| H0.7-18                           | 18         | 17,82     | 19,22          | 12,00      | 5          | 36,32 €           |   |    |
| H0.7-20                           | 20         | 19,80     | 21,20          | 12,00      | 5          | 37,09 €           |   |    |
| H0.7-25                           | 25         | 24,75     | 26,15          | 12,00      | 5          | 37,83 €           |   |    |
| H0.7-26                           | 26         | 25,74     | 27,14          | 12,00      | 5          | 37,90 €           |   |    |
| H0.7-30                           | 30         | 29,70     | 31,10          | 16,00      | 6          | 38,49 €           |   |    |
| H0.7-35                           | 35         | 34,65     | 36,05          | 16,00      | 6          | 39,54 €           |   |    |
| H0.7-36                           | 36         | 35,64     | 37,04          | 16,00      | 6          | 39,65 €           |   |    |
| H0.7-40                           | 40         | 39,60     | 41,00          | 16,00      | 6          | 40,63 €           |   |    |
| H0.7-46                           | 46         | 45,54     | 46,94          | 16,00      | 6          | 42,42 €           |   |    |
| H0.7-50                           | 50         | 49,50     | 50,90          | 16,00      | 6          | 44,41 €           |   |    |
| H0.7-55                           | 55         | 54,45     | 55,85          | 16,00      | 6          | 45,95 €           |   |    |
| H0.7-56                           | 56         | 55,44     | 56,84          | 16,00      | 6          | 45,95 €           |   |    |
| H0.7-60                           | 60         | 59,40     | 60,80          | 16,00      | 6          | 48,92 €           |   |    |
| H0.7-66                           | 66         | 65,34     | 66,74          | 16,00      | 6          | 58,04 €           |   |    |
| H0.7-70                           | 70         | 69,30     | 70,70          | 20,00      | 8          | 61,53 €           |   |    |
| H0.7-75                           | 75         | 74,25     | 75,65          | 20,00      | 8          | 70,07 €           |   |    |
| H0.7-80                           | 80         | 79,20     | 80,60          | 20,00      | 8          | 84,14 €           |   |    |
| H0.7-90                           | 90         | 89,10     | 90,50          | 20,00      | 8          | 88,01 €           |   |    |
| H0.7-100                          | 100        | 98,99     | 100,39         | 20,00      | 10         | 103,96 €          |   |    |
| H0.7-120                          | 120        | 118,97    | 120,19         | 20,00      | 10         | 119,68 €          |   |    |
| ↓ Gears available up to this size |            |           |                |            |            |                   |   |    |
| H0.7-140                          | 140        | 138,59    | 139,99         | 30,00      | 12         |                   |   |    |

Dimensions in mm

On request

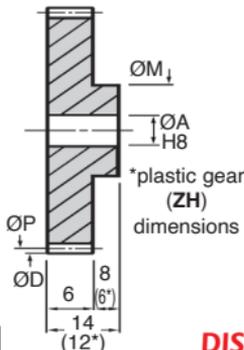
## Module Steel or machined Delrin

# 0.8

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



| Torque and power indication |                       |                    |        |
|-----------------------------|-----------------------|--------------------|--------|
| For 50 teeth at 1000 rpm    |                       |                    |        |
|                             | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened | Delrin |
| Nm                          | <b>0.395</b>          | 2.596              | 0.10   |
| kW                          | <b>0.041</b>          | 0.272              | -      |

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

| Part number                            | Z         |           | ØP<br>PCD              | ØD<br>External | ØM<br>H | Boss<br>ZH | ØA Bore |    | Price each 1 to 5 |          |         |   |
|--|-----------|-----------|------------------------|----------------|---------|------------|---------|----|-------------------|----------|---------|---|
|  | Steel     | Delrin    |                        |                |         |            | Teeth   | H  | ZH                | H        | ZH      | H |
| H0.8-9                                 | -         |           | 9                      | 11,31          | 12,91   | 9          | -       | 5  | -                 | 29,70 €  | -       |   |
| H0.8-10                                | -         |           | 10                     | 11,31          | 12,91   | 9          | -       | 5  | -                 | 31,01 €  | -       |   |
| H0.8-15                                |           | ZH0.8-15  | 15                     | 16,97          | 18,57   | 12         | 14      | 5  | 4                 | 34,92 €  | 17,15 € |   |
| H0.8-16                                |           | ZH0.8-16  | 16                     | 18,10          | 19,70   | 12         | 14      | 5  | 4                 | 35,32 €  | 17,15 € |   |
| H0.8-20                                |           | ZH0.8-20  | 20                     | 22,63          | 24,23   | 12         | 14      | 5  | 4                 | 37,08 €  | 17,94 € |   |
| H0.8-25                                |           | ZH0.8-25  | 25                     | 28,28          | 29,88   | 16         | 16      | 6  | 5                 | 37,83 €  | 18,80 € |   |
| H0.8-26                                |           | ZH0.8-26  | 26                     | 29,42          | 31,02   | 16         | 16      | 6  | 5                 | 37,90 €  | 18,80 € |   |
| H0.8-30                                |           | ZH0.8-30  | 30                     | 33,94          | 35,44   | 16         | 16      | 6  | 5                 | 38,49 €  | 21,15 € |   |
| H0.8-35                                |           | ZH0.8-35  | 35                     | 39,60          | 41,20   | 16         | 16      | 6  | 5                 | 39,23 €  | 21,56 € |   |
| H0.8-36                                |           | ZH0.8-36  | 36                     | 40,73          | 42,33   | 16         | 16      | 6  | 5                 | 39,53 €  | 21,73 € |   |
| H0.8-40                                |           | ZH0.8-40  | 40                     | 45,25          | 46,85   | 16         | 16      | 6  | 5                 | 40,52 €  | 25,13 € |   |
| H0.8-45                                |           | ZH0.8-45  | 45                     | 50,91          | 52,51   | 16         | 16      | 6  | 5                 | 41,71 €  | 31,15 € |   |
| H0.8-50                                |           | ZH0.8-50  | 50                     | 56,57          | 58,17   | 16         | 16      | 6  | 5                 | 44,96 €  | 31,81 € |   |
| H0.8-56                                |           | ZH0.8-56  | 56                     | 63,36          | 64,96   | 16         | 16      | 6  | 5                 | 49,33 €  | 38,72 € |   |
| H0.8-60                                |           | ZH0.8-60  | 60                     | 67,88          | 69,48   | 20         | 18      | 8  | 6                 | 51,18 €  | 39,25 € |   |
| H0.8-66                                |           | ZH0.8-66  | 66                     | 74,67          | 76,27   | 20         | 18      | 8  | 6                 | 55,04 €  | 41,49 € |   |
| H0.8-70                                |           | ZH0.8-70  | 70                     | 79,20          | 80,80   | 20         | 18      | 8  | 8                 | 57,53 €  | 46,15 € |   |
| H0.8-76                                |           | ZH0.8-76  | 76                     | 75,24          | 76,64   | 20         | 18      | 8  | 8                 | 61,53 €  | 65,15 € |   |
| H0.8-80                                |           | ZH0.8-80  | 80                     | 90,51          | 92,11   | 20         | 18      | 8  | 8                 | 70,07 €  | 71,67 € |   |
| H0.8-86                                |           | ZH0.8-86  | 86                     | 97,30          | 98,90   | 20         | 18      | 8  | 6                 | 84,14 €  | 55,93 € |   |
| H0.8-90                                |           | ZH0.8-90  | 90                     | 101,82         | 103,42  | 20         | 20      | 10 | 10                | 86,82 €  | 95,25 € |   |
| H0.8-100                               |           | ZH0.8-100 | 100                    | 113,14         | 114,74  | 20         | 20      | 10 | 10                | 106,07 € | 95,25 € |   |
| H0.8-112                               | -         |           | 112                    | 126,71         | 128,31  | 30         | -       | 12 | -                 | 134,75 € | -       |   |
| H0.8-120                               | -         |           | 120                    | 135,76         | 137,36  | 30         | -       | 12 | -                 | 134,75 € | -       |   |
| <b>Gears available up to this size</b> |           |           |                        |                |         |            |         |    |                   |          |         |   |
| H0.8-122                               | ZH0.8-122 | 122       | Dimensions: contact us |                |         |            |         |    |                   |          |         |   |

Dimensions in mm

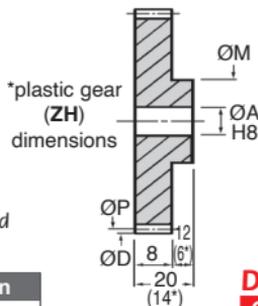
Steel or machined Delrin

# Module 1.0

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



| Torque and power indication |                    |                 |        |
|-----------------------------|--------------------|-----------------|--------|
| For 50 teeth at 1000 rpm    |                    |                 |        |
|                             | 20NCD2 Z10CNF18.09 | 20NCD2 hardened | Delrin |
| Nm                          | <b>0.747</b>       | 4.908           | 0.18   |
| kW                          | <b>0.078</b>       | 0.518           | -      |

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

| Part number |         | Z                                      | ØP                     | ØD       | ØM | Bore | ØA | Bore | Price each 1 to 5 |          |
|-------------|---------|--|------------------------|----------|----|------|----|------|-------------------|----------|
| Steel       | Delrin  | Teeth                                  | PCD                    | External | H  | ZH   | H  | ZH   | H                 | ZH       |
| H1-9        | ZH1-9   | 9                                      | 14,14                  | 16,14    | 11 | 12   | 6  | 4    | 138,48 €          | 13,14 €  |
| H1-10       | ZH1-10  | 10                                     | 14,14                  | 16,14    | 11 | 12   | 6  | 4    | 27,17 €           | 13,53 €  |
| H1-15       | ZH1-15  | 15                                     | 21,21                  | 23,21    | 15 | 18   | 6  | 6    | 30,67 €           | 15,37 €  |
| H1-16       | ZH1-16  | 16                                     | 22,63                  | 24,63    | 15 | 18   | 6  | 6    | 30,87 €           | 15,37 €  |
| H1-20       | ZH1-20  | 20                                     | 28,28                  | 30,28    | 15 | 18   | 6  | 6    | 35,87 €           | 19,71 €  |
| H1-25       | ZH1-25  | 25                                     | 35,36                  | 37,36    | 20 | 18   | 8  | 6    | 39,10 €           | 21,56 €  |
| H1-26       | ZH1-26  | 26                                     | 36,77                  | 38,77    | 20 | 18   | 8  | 6    | 39,59 €           | 21,80 €  |
| H1-30       | ZH1-30  | 30                                     | 42,43                  | 44,43    | 20 | 18   | 8  | 6    | 42,25 €           | 26,64 €  |
| H1-35       | ZH1-35  | 35                                     | 49,50                  | 51,50    | 20 | 18   | 8  | 6    | 47,45 €           | 35,78 €  |
| H1-36       | ZH1-36  | 36                                     | 50,91                  | 52,91    | 20 | 22   | 8  | 8    | 48,08 €           | 36,21 €  |
| H1-40       | ZH1-40  | 40                                     | 56,57                  | 58,57    | 20 | 22   | 8  | 8    | 51,76 €           | 39,13 €  |
| H1-46       | ZH1-46  | 46                                     | 65,05                  | 67,05    | 20 | 22   | 8  | 8    | 60,56 €           | 51,93 €  |
| H1-50       | ZH1-50  | 50                                     | 70,71                  | 72,71    | 25 | 22   | 10 | 8    | 65,03 €           | 55,77 €  |
| H1-56       | ZH1-56  | 56                                     | 79,20                  | 81,20    | 25 | 22   | 10 | 8    | 71,93 €           | 65,23 €  |
| H1-60       | ZH1-60  | 60                                     | 84,85                  | 86,85    | 25 | 22   | 10 | 8    | 74,57 €           | 67,68 €  |
| H1-66       | ZH1-66  | 66                                     | 93,34                  | 95,34    | 25 | 26   | 10 | 8    | 85,09 €           | 85,87 €  |
| H1-70       | ZH1-70  | 70                                     | 98,99                  | 100,99   | 25 | 26   | 10 | 10   | 86,29 €           | 95,91 €  |
| H1-76       | ZH1-76  | 76                                     | 107,48                 | 109,45   | 25 | 26   | 10 | 10   | 107,93 €          | 105,84 € |
| H1-80       | ZH1-80  | 80                                     | 113,14                 | 115,14   | 25 | 26   | 10 | 10   | 122,04 €          | 130,30 € |
| H1-84       | ZH1-84  | 84                                     | 118,79                 | 120,79   | 25 | 26   | 10 | 12   | 122,04 €          | 130,30 € |
| H1-90       | ZH1-90  | 90                                     | 127,28                 | 129,28   | 30 | 30   | 12 | 12   | 138,48 €          | 130,30 € |
| H1-100      | ZH1-100 | 100                                    | 141,42                 | 143,42   | 30 | 30   | 12 | 12   | 162,46 €          | 190,57 € |
| H1-120      | -       | 120                                    | 169,71                 | 171,71   | 40 | -    | 15 | -    | 186,39 €          | -        |
| H1-130      | -       | 130                                    | 183,85                 | 185,85   | 50 | -    | 20 | -    | 204,39 €          | -        |
| H1-150      | -       | 150                                    | 212,13                 | 214,13   | 50 | -    | 20 | -    | 234,53 €          | -        |
| ↓ ↓         |         | <b>Gears available up to this size</b> |                        |          |    |      |    |      |                   |          |
| H1-420      | ZH1-420 | 420                                    | Dimensions: contact us |          |    |      |    |      |                   |          |

Dimensions in mm

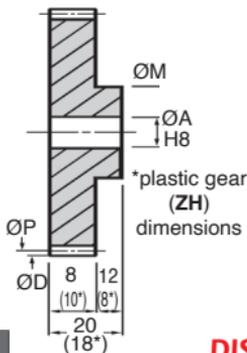
# 90° crossed axis helical gear Del Ste 90°

## Module 1.25 Steel or machined Delrin

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



| Torque and power indication |                    |                 |        |
|-----------------------------|--------------------|-----------------|--------|
| For 50 teeth at 1000 rpm    |                    |                 |        |
|                             | 20NCD2 Z10CNF18.09 | 20NCD2 hardened | Delrin |
| Nm                          | 1.386              | 9.108           | 0.4    |
| kW                          | 0.145              | 0.954           | -      |

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

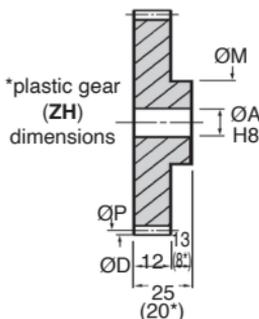
| Part number                            |           | Z     | ØP     | ØD       | ØM | Boss | ØA | Bore | Price each 1 to 5 |          |
|--|-----------|-------|--------|----------|----|------|----|------|-------------------|----------|
| Steel                                  | Delrin    | Teeth | PCD    | External | H  | ZH   | H  | ZH   | H                 | ZH       |
| H1.25-10                               | ZH1.25-10 | 10    | 17,68  | 20,18    | 15 | 15   | 6  | 5    | 36,19 €           | 18,10 €  |
| H1.25-16                               | ZH1.25-16 | 16    | 28,28  | 30,78    | 20 | 18   | 8  | 6    | 42,90 €           | 23,71 €  |
| H1.25-17                               | ZH1.25-17 | 17    | 30,05  | 32,55    | 20 | 18   | 8  | 6    | 44,59 €           | 24,55 €  |
| H1.25-20                               | ZH1.25-20 | 20    | 35,36  | 37,86    | 20 | 18   | 8  | 9    | 49,41 €           | 27,25 €  |
| H1.25-22                               | ZH1.25-22 | 22    | 38,89  | 41,39    | 20 | 18   | 8  | 9    | 53,16 €           | 33,41 €  |
| H1.25-25                               | ZH1.25-25 | 25    | 44,19  | 46,69    | 20 | 18   | 8  | 9    | 57,12 €           | 45,92 €  |
| H1.25-28                               | ZH1.25-28 | 28    | 49,50  | 52,00    | 20 | 22   | 8  | 8    | 59,13 €           | 44,67 €  |
| H1.25-30                               | ZH1.25-30 | 30    | 53,03  | 55,53    | 20 | 22   | 8  | 8    | 60,06 €           | 45,36 €  |
| H1.25-32                               | ZH1.25-32 | 32    | 56,57  | 59,07    | 20 | 22   | 8  | 8    | 60,72 €           | 45,92 €  |
| H1.25-33                               | ZH1.25-33 | 33    | 58,34  | 60,84    | 20 | 22   | 8  | 8    | 61,10 €           | 52,42 €  |
| H1.25-36                               | ZH1.25-36 | 36    | 63,64  | 66,14    | 20 | 22   | 8  | 8    | 63,79 €           | 54,71 €  |
| H1.25-40                               | ZH1.25-40 | 40    | 70,71  | 73,21    | 25 | 26   | 10 | 10   | 71,99 €           | 61,63 €  |
| H1.25-45                               | ZH1.25-45 | 45    | 79,55  | 82,05    | 25 | 26   | 10 | 10   | 79,66 €           | 72,25 €  |
| H1.25-50                               | ZH1.25-50 | 50    | 88,39  | 90,89    | 25 | 26   | 10 | 10   | 85,75 €           | 86,59 €  |
| H1.25-56                               | ZH1.25-56 | 56    | 98,99  | 101,49   | 25 | 26   | 10 | 10   | 97,29 €           | 109,02 € |
| H1.25-60                               | ZH1.25-60 | 60    | 106,07 | 108,57   | 25 | 30   | 10 | 10   | 107,86 €          | 120,13 € |
| H1.25-66                               | ZH1.25-66 | 66    | 116,67 | 119,17   | 25 | 30   | 10 | 10   | 131,07 €          | 154,27 € |
| H1.25-70                               | ZH1.25-70 | 70    | 123,74 | 126,24   | 25 | 30   | 12 | 10   | 136,61 €          | 156,37 € |
| H1.25-76                               | -         | 76    | 134,35 | 136,85   | 25 | -    | 12 | -    | 148,53 €          | -        |
| H1.25-80                               | -         | 80    | 141,42 | 143,92   | 25 | -    | 12 | -    | 153,08 €          | -        |
| H1.25-84                               | ZH1.25-84 | 84    | 148,49 | 150,99   | 30 | 30   | 15 | 15   | 161,86 €          | 228,73 € |
| H1.25-90                               | ZH1.25-90 | 90    | 159,10 | 161,60   | 30 | 30   | 15 | 15   | 168,59 €          | 277,59 € |
| H1.25-96                               | -         | 96    | 169,71 | 172,21   | 30 | -    | 15 | -    | 181,41 €          | -        |
| <b>Gears available up to this size</b> |           |       |        |          |    |      |    |      |                   |          |
| H1.25-100                              | -         | 100   | 176,78 | 179,28   | 30 | -    | 15 | -    | -                 | -        |

Dimensions in mm

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



| Torque and power indication |                       |                    |        |
|-----------------------------|-----------------------|--------------------|--------|
| For 50 teeth at 1000 rpm    |                       |                    |        |
|                             | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened | Delrin |
| Nm                          | 2.32                  | 15.28              | 0.7    |
| kW                          | 0.24                  | 1.60               | -      |

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

| Part number |          | Z     | ØP     | ØD       | ØM Boss | ØA Bore | Price each 1 to 5 |    |          |          |
|-------------|----------|-------|--------|----------|---------|---------|-------------------|----|----------|----------|
| Steel       | Delrin   | Teeth | PCD    | External | H       | ZH      | H                 | ZH |          |          |
| H1.5-10     | ZH1.5-10 | 10    | 21,21  | 24,21    | 17      | 20      | 8                 | 8  | 34,52 €  | 17,26 €  |
| H1.5-14     | ZH1.5-14 | 14    | 29,70  | 32,70    | 20      | 25      | 10                | 8  | 40,99 €  | 22,67 €  |
| H1.5-15     | ZH1.5-15 | 15    | 31,82  | 34,82    | 20      | 25      | 10                | 8  | 42,43 €  | 23,02 €  |
| H1.5-16     | ZH1.5-16 | 16    | 33,94  | 36,94    | 25      | 25      | 12                | 8  | 43,56 €  | 23,51 €  |
| H1.5-20     | ZH1.5-20 | 20    | 42,43  | 45,43    | 30      | 25      | 15                | 8  | 51,06 €  | 32,23 €  |
| H1.5-22     | ZH1.5-22 | 22    | 46,67  | 49,67    | 30      | 28      | 15                | 10 | 54,41 €  | 34,27 €  |
| H1.5-25     | ZH1.5-25 | 25    | 53,03  | 56,03    | 40      | 28      | 15                | 10 | 58,88 €  | 44,42 €  |
| H1.5-26     | ZH1.5-26 | 26    | 55,15  | 58,15    | 40      | 28      | 15                | 10 | 60,17 €  | 45,54 €  |
| H1.5-28     | ZH1.5-28 | 28    | 59,40  | 62,40    | 40      | 30      | 15                | 12 | 64,10 €  | 48,48 €  |
| H1.5-30     | ZH1.5-30 | 30    | 63,64  | 66,64    | 40      | 30      | 15                | 12 | 64,24 €  | 55,07 €  |
| H1.5-32     | ZH1.5-32 | 32    | 67,88  | 70,88    | 40      | 30      | 15                | 12 | 67,06 €  | 57,39 €  |
| H1.5-35     | ZH1.5-35 | 35    | 74,25  | 77,25    | 40      | 30      | 15                | 12 | 78,33 €  | 67,14 €  |
| H1.5-36     | ZH1.5-36 | 36    | 76,37  | 79,37    | 40      | 36      | 15                | 12 | 80,71 €  | 73,17 €  |
| H1.5-40     | ZH1.5-40 | 40    | 84,85  | 87,85    | 40      | 36      | 15                | 12 | 85,79 €  | 77,97 €  |
| H1.5-46     | ZH1.5-46 | 46    | 97,58  | 100,58   | 40      | 36      | 15                | 12 | 95,52 €  | 105,95 € |
| H1.5-50     | ZH1.5-50 | 50    | 106,07 | 109,07   | 40      | 48      | 15                | 12 | 103,96 € | 115,41 € |
| H1.5-56     | ZH1.5-56 | 56    | 118,79 | 121,79   | 40      | 48      | 15                | 12 | 124,63 € | 151,15 € |
| H1.5-60     | ZH1.5-60 | 60    | 127,28 | 130,28   | 40      | 48      | 15                | 12 | 141,76 € | 162,19 € |
| H1.5-65     | ZH1.5-65 | 65    | 137,89 | 140,89   | 40      | 48      | 15                | 12 | 156,78 € | 201,27 € |
| H1.5-70     | ZH1.5-70 | 70    | 148,49 | 151,49   | 40      | 48      | 15                | 15 | 182,01 € | 227,69 € |
| H1.5-80     | -        | 80    | 169,71 | 172,71   | 40      | -       | 15                | -  | 230,54 € | -        |

↓ ↓ **Gears available up to this size**

|         |          |    |                        |  |
|---------|----------|----|------------------------|--|
| H1.5-83 | ZH1.5-83 | 83 | Dimensions: contact us |  |
|---------|----------|----|------------------------|--|

Dimensions in mm

# 90° crossed axis helical gear Del Ste 90°

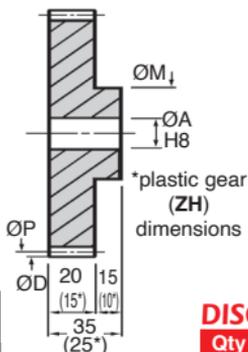
## Module 2.0

### Steel or machined Delrin

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



### Torque and power indication

| For 50 teeth at 1000 rpm |                       |                    |        |
|--------------------------|-----------------------|--------------------|--------|
|                          | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened | Delrin |
| Nm                       | 5.20                  | 34.18              | 1.5    |
| kW                       | 0.54                  | 3.58               | -      |

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

| Part number |         | Z                                      | ØP                     | ØD       | ØM Boss | ØA Bore | Price each 1 to 5 |            |          |  |
|-------------|---------|--|------------------------|----------|---------|---------|-------------------|------------|----------|--|
| Steel       | Delrin  | Teeth                                  | PCD                    | External | ZH      | H       | ZH                | H          |          |  |
| H2-10       | ZH2-10  | 10                                     | 28,28                  | 32,28    | 22      | 25      | 12                | 51,15 €    | 28,26 €  |  |
| H2-15       | ZH2-15  | 15                                     | 42,43                  | 46,43    | 30      | 30      | 15                | 61,53 €    | 46,54 €  |  |
| H2-16       | ZH2-16  | 16                                     | 45,25                  | 49,25    | 30      | 30      | 15                | 62,78 €    | 47,45 €  |  |
| H2-20       | ZH2-20  | 20                                     | 56,57                  | 59,57    | 40      | 35      | 20                | 73,92 €    | 63,41 €  |  |
| H2-25       | ZH2-25  | 25                                     | 70,71                  | 74,71    | 50      | 35      | 20                | 98,08 €    | 89,02 €  |  |
| H2-26       | ZH2-26  | 26                                     | 73,54                  | 77,54    | 50      | 45      | 20                | 99,30 €    | 90,30 €  |  |
| H2-30       | ZH2-30  | 30                                     | 84,85                  | 88,85    | 50      | 45      | 20                | 110,82 €   | 111,92 € |  |
| H2-35       | ZH2-35  | 35                                     | 98,99                  | 102,99   | 50      | 45      | 20                | 131,70 €   | 146,57 € |  |
| H2-36       | ZH2-36  | 36                                     | 101,82                 | 105,82   | 50      | 45      | 20                | 134,29 €   | 149,60 € |  |
| H2-40       | ZH2-40  | 40                                     | 113,14                 | 117,14   | 50      | 45      | 20                | 160,69 €   | 178,75 € |  |
| H2-45       | ZH2-45  | 45                                     | 127,28                 | 131,28   | 50      | 60      | 20                | 184,40 €   | 223,96 € |  |
| H2-46       | ZH2-46  | 46                                     | 130,11                 | 134,11   | 50      | 60      | 20                | 187,50 €   | 227,69 € |  |
| H2-50       | ZH2-50  | 50                                     | 141,42                 | 145,42   | 50      | 60      | 20                | 205,94 €   | 295,45 € |  |
| H2-55       | ZH2-55  | 55                                     | 155,56                 | 159,56   | 50      | 60      | 20                | 266,42 €   | 358,57 € |  |
| H2-60       | ZH2-60  | 60                                     | 169,71                 | 173,71   | 50      | 60      | 20                | 314,48 €   | 416,69 € |  |
| H2-65       | ZH2-65  | 65                                     | 183,85                 | 187,85   | 50      | 60      | 20                | 373,64 €   | 491,74 € |  |
| H2-70       | ZH2-70  | 70                                     | 197,99                 | 201,99   | 50      | 60      | 20                | 433,99 €   | 820,84 € |  |
| H2-76       | -       | 76                                     | 214,96                 | 218,96   | 50      | -       | 20                | 480,89 €   | -        |  |
| H2-86       | -       | 86                                     | 243,24                 | 247,24   | 50      | -       | 20                | 595,53 €   | -        |  |
| H2-90       | -       | 90                                     | 254,56                 | 258,56   | 50      | -       | 20                | 703,92 €   | -        |  |
| H2-96       | -       | 96                                     | 271,53                 | 275,53   | 50      | -       | 20                | 776,55 €   | -        |  |
| H2-100      | -       | 100                                    | 282,84                 | 286,84   | 50      | -       | 20                | 864,34 €   | -        |  |
| H2-110      | -       | 110                                    | 311,13                 | 315,13   | 50      | -       | 20                | 972,39 €   | -        |  |
| H2-120      | -       | 120                                    | 339,41                 | 343,41   | 50      | -       | 20                | 1 058,53 € | -        |  |
| ↓ ↓         |         | <b>Gears available up to this size</b> |                        |          |         |         |                   |            |          |  |
| H2-210      | ZH2-210 | 210                                    | Dimensions: contact us |          |         |         |                   |            |          |  |

Dimensions in mm

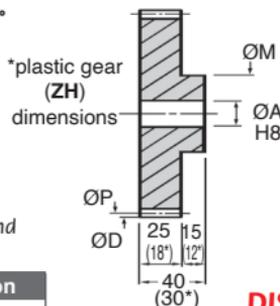
Steel or **machined** Delrin

## Module 2.5

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or delrin plastic

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



### Torque and power indication

For 50 teeth at 1000 rpm

|    | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened | Delrin |
|----|-----------------------|--------------------|--------|
| Nm | 9.71                  | 63.84              | 3.0    |
| kW | 1.02                  | 6.69               | -      |

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

| Part number |          | Z     | ØP     | ØD       | ØM | Boss | ØA | Bore | Price each 1 to 5 |          |
|-------------|----------|-------|--------|----------|----|------|----|------|-------------------|----------|
| Steel       | Delrin   | Teeth | PCD    | External | H  | ZH   | H  | ZH   | H                 | ZH       |
| H2.5-10     | ZH2.5-10 | 10    | 35,36  | 40,36    | 28 | 30   | 15 | 12   | 67,95 €           | 37,58 €  |
| H2.5-12     | ZH2.5-12 | 12    | 42,43  | 47,43    | 30 | 30   | 15 | 12   | 73,40 €           | 46,15 €  |
| H2.5-15     | ZH2.5-15 | 15    | 53,03  | 58,03    | 40 | 36   | 20 | 12   | 85,79 €           | 64,94 €  |
| H2.5-17     | ZH2.5-17 | 17    | 60,10  | 65,10    | 40 | 45   | 20 | 12   | 95,45 €           | 81,76 €  |
| H2.5-20     | ZH2.5-20 | 20    | 70,71  | 75,71    | 50 | 45   | 20 | 15   | 108,53 €          | 92,99 €  |
| H2.5-22     | ZH2.5-22 | 22    | 77,78  | 82,78    | 50 | 45   | 20 | 15   | 119,06 €          | 107,98 € |
| H2.5-25     | ZH2.5-25 | 25    | 88,39  | 93,39    | 50 | 50   | 20 | 15   | 132,98 €          | 120,76 € |
| H2.5-30     | ZH2.5-30 | 30    | 106,07 | 111,07   | 50 | 50   | 20 | 17   | 155,26 €          | 172,63 € |
| H2.5-32     | ZH2.5-32 | 32    | 113,14 | 118,14   | 50 | 50   | 20 | 17   | 166,29 €          | 184,53 € |
| H2.5-35     | ZH2.5-35 | 35    | 123,74 | 128,74   | 50 | 65   | 20 | 17   | 179,28 €          | 217,78 € |
| H2.5-40     | ZH2.5-40 | 40    | 141,42 | 146,42   | 50 | 65   | 20 | 20   | 214,19 €          | 281,01 € |
| H2.5-42     | ZH2.5-42 | 42    | 148,49 | 153,49   | 50 | 65   | 20 | 20   | 217,76 €          | 285,69 € |
| H2.5-45     | ZH2.5-45 | 45    | 159,10 | 164,10   | 50 | 65   | 20 | 20   | 278,20 €          | 416,48 € |
| H2.5-46     | ZH2.5-46 | 46    | 162,63 | 167,63   | 50 | 65   | 20 | 20   | 278,20 €          | 483,94 € |
| H2.5-50     | ZH2.5-50 | 50    | 176,78 | 181,78   | 50 | 65   | 20 | 20   | 385,19 €          | 584,80 € |
| H2.5-55     | ZH2.5-55 | 55    | 194,45 | 199,45   | 50 | 65   | 20 | 20   | 482,58 €          | 601,28 € |
| H2.5-56     | -        | 56    | 197,99 | 202,99   | 50 | -    | 20 | -    | 491,20 €          | -        |
| H2.5-60     | -        | 60    | 212,13 | 217,13   | 50 | -    | 20 | -    | 500,61 €          | -        |
| H2.5-66     | -        | 66    | 233,35 | 238,35   | 50 | -    | 20 | -    | 589,48 €          | -        |
| H2.5-70     | -        | 70    | 247,49 | 252,49   | 50 | -    | 20 | -    | 699,49 €          | -        |
| H2.5-76     | -        | 76    | 268,70 | 273,70   | 50 | -    | 20 | -    | 805,40 €          | -        |
| H2.5-80     | -        | 80    | 282,84 | 287,84   | 50 | -    | 20 | -    | 877,30 €          | -        |
| H2.5-90     | -        | 90    | 318,20 | 323,20   | 50 | -    | 20 | -    | 1 003,33 €        | -        |
| H2.5-96     | -        | 96    | 339,41 | 344,41   | 50 | -    | 20 | -    | 1 068,50 €        | -        |
| H2.5-100    | -        | 100   | 353,55 | 358,55   | 50 | -    | 20 | -    | 1 140,43 €        | -        |

**Gears available up to this size**

|          |           |     |                        |  |
|----------|-----------|-----|------------------------|--|
| H2.5-165 | ZH2.5-165 | 165 | Dimensions: contact us |  |
|----------|-----------|-----|------------------------|--|

Dimensions in mm

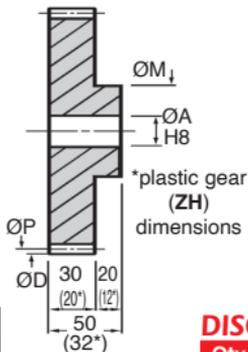
## Module 3.0

Steel or machined Delrin

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



### Torque and power indication

For 50 teeth at 1000 rpm

|    | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened | Delrin |
|----|-----------------------|--------------------|--------|
| Nm | 16.17                 | 106.3              | 5.0    |
| kW | 1.69                  | 11.17              | -      |

### DISCOUNTS Steel

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

### DISCOUNTS Delrin

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

| Part number |        | Z     | ØP     | ØD       | ØM | Boss | ØA | Bore | Price each 1 to 5 |            |
|-------------|--------|-------|--------|----------|----|------|----|------|-------------------|------------|
| Steel       | Delrin | Teeth | PCD    | External | H  | ZH   | H  | ZH   | H                 | ZH         |
| H3-9        | ZH3-9  | 9     | 42,43  | 48,43    | 34 | 36   | 20 | 15   | 76,41 €           | 42,90 €    |
| H3-10       | ZH3-10 | 10    | 42,43  | 48,43    | 34 | 40   | 20 | 15   | 82,20 €           | 51,85 €    |
| H3-15       | ZH3-15 | 15    | 63,64  | 69,64    | 50 | 48   | 25 | 15   | 111,04 €          | 95,25 €    |
| H3-16       | ZH3-16 | 16    | 67,88  | 73,88    | 50 | 48   | 25 | 15   | 114,52 €          | 98,21 €    |
| H3-20       | ZH3-20 | 20    | 84,85  | 90,85    | 60 | 60   | 25 | 20   | 144,65 €          | 131,33 €   |
| H3-25       | ZH3-25 | 25    | 106,07 | 112,07   | 60 | 60   | 25 | 20   | 193,48 €          | 201,17 €   |
| H3-26       | ZH3-26 | 26    | 110,31 | 116,31   | 60 | 60   | 25 | 20   | 197,20 €          | 219,40 €   |
| H3-30       | ZH3-30 | 30    | 127,28 | 133,28   | 60 | 60   | 25 | 20   | 232,28 €          | 280,19 €   |
| H3-34       | ZH3-34 | 34    | 144,25 | 150,25   | 60 | 60   | 25 | 20   | 324,20 €          | 362,22 €   |
| H3-35       | ZH3-35 | 35    | 148,49 | 154,49   | 60 | 60   | 25 | 20   | 336,45 €          | 362,22 €   |
| H3-36       | ZH3-36 | 36    | 152,74 | 158,74   | 60 | 60   | 25 | 20   | 348,14 €          | 439,62 €   |
| H3-40       | ZH3-40 | 40    | 169,71 | 175,71   | 60 | 80   | 25 | 20   | 414,61 €          | 510,82 €   |
| H3-45       | ZH3-45 | 45    | 190,92 | 196,92   | 60 | 80   | 25 | 20   | 492,54 €          | 634,68 €   |
| H3-46       | ZH3-46 | 46    | 195,16 | 201,16   | 60 | 80   | 25 | 20   | 530,50 €          | 1 006,20 € |
| H3-50       | ZH3-50 | 50    | 212,13 | 218,13   | 60 | 80   | 25 | 20   | 591,40 €          | 1 006,20 € |
| H3-55       | -      | 55    | 233,35 | 239,35   | 60 | -    | 25 | -    | 676,34 €          | -          |
| H3-56       | -      | 56    | 237,59 | 243,59   | 60 | -    | 25 | -    | 710,76 €          | -          |
| H3-60       | -      | 60    | 254,56 | 260,56   | 60 | -    | 25 | -    | 849,39 €          | -          |
| H3-65       | -      | 65    | 275,77 | 281,77   | 60 | -    | 25 | -    | 964,50 €          | -          |
| H3-68       | -      | 68    | 288,50 | 294,50   | 60 | -    | 25 | -    | 1 011,23 €        | -          |
| H3-70       | -      | 70    | 296,98 | 302,98   | 60 | -    | 25 | -    | 1 041,82 €        | -          |
| H3-76       | -      | 76    | 322,44 | 328,44   | 60 | -    | 25 | -    | 1 139,16 €        | -          |
| H3-80       | -      | 80    | 339,41 | 345,41   | 60 | -    | 25 | -    | 1 231,70 €        | -          |
| H3-86       | -      | 86    | 364,87 | 370,87   | 60 | -    | 25 | -    | 1 391,50 €        | -          |
| H3-90       | -      | 90    | 381,84 | 387,84   | 60 | -    | 25 | -    | 1 490,39 €        | -          |

### Gears available up to this size

|        |         |     |                        |  |
|--------|---------|-----|------------------------|--|
| H3-140 | ZH3-140 | 140 | Dimensions: contact us |  |
|--------|---------|-----|------------------------|--|

Dimensions in mm

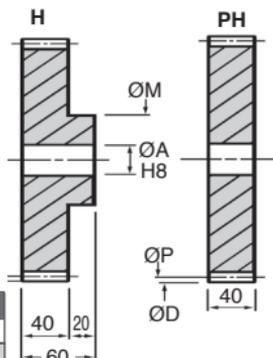
## Steel

# Module 4.0

- Power transferred through 90°
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2

### Info.

**Important:** A helical gear with a 45° RH angle meshes with a second identically angled gear.



### Torque and power indication

For 50 teeth at 1000 rpm

|    | 20NCD2<br>Z10CNF18.09 | 20NCD2<br>hardened |
|----|-----------------------|--------------------|
| Nm | <b>36.07</b>          | 237.1              |
| kW | <b>3.78</b>           | 24.84              |

### DISCOUNTS

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

| Part number | Z<br>Teeth | OP<br>PCD | ØD<br>External | ØM<br>Boss | ØA<br>Bore | Price each 1 to 5 | H<br>PH |
|-------------|------------|-----------|----------------|------------|------------|-------------------|---------|
| H4-10       | 10         | 56,57     | 64,57          | 45         | 25         | 137,89 €          |         |
| H4-12       | 12         | 67,88     | 75,88          | 50         | 25         | 155,37 €          |         |
| H4-15       | 15         | 84,85     | 92,85          | 50         | 25         | 193,48 €          |         |
| H4-16       | 16         | 90,51     | 98,51          | 80         | 30         | 197,29 €          |         |
| H4-18       | 18         | 101,82    | 109,82         | 80         | 30         | 217,76 €          |         |
| H4-20       | 20         | 113,14    | 121,14         | 80         | 30         | 244,25 €          |         |
| H4-22       | 22         | 124,45    | 132,45         | 80         | 30         | 285,44 €          |         |
| H4-25       | 25         | 141,42    | 149,42         | 80         | 30         | 375,04 €          |         |
| H4-26       | 26         | 147,08    | 155,08         | 80         | 30         | 397,63 €          |         |
| H4-28       | 28         | 158,39    | 166,39         | 80         | 30         | 440,41 €          |         |
| H4-30       | 30         | 169,71    | 177,71         | 80         | 30         | 507,11 €          |         |
| H4-32       | 32         | 181,02    | 189,02         | 80         | 30         | 530,04 €          |         |
| H4-35       | 35         | 197,99    | 205,99         | 80         | 30         | 566,34 €          |         |
| H4-36       | 36         | 203,65    | 211,65         | 80         | 30         | 580,24 €          |         |
| H4-38       | 38         | 214,96    | 222,96         | 80         | 30         | 635,64 €          |         |
| H4-40       | 40         | 226,27    | 234,27         | 80         | 30         | 747,74 €          |         |
| H4-42       | 42         | 237,59    | 245,59         | 80         | 30         | 817,00 €          |         |
| H4-45       | 45         | 254,56    | 262,56         | 80         | 30         | 1 026,84 €        |         |
| H4-46       | 46         | 260,22    | 268,22         | 80         | 30         | 1 106,62 €        |         |
| H4-48       | 48         | 271,53    | 279,53         | 80         | 30         | 1 179,91 €        |         |
| H4-50       | 50         | 282,84    | 290,84         | 80         | 30         | 1 306,88 €        |         |
| H4-55       | 55         | 311,13    | 319,13         | 80         | 30         | 1 704,44 €        |         |
| H4-56       | 56         | 316,78    | 324,78         | 80         | 30         | 1 803,29 €        |         |
| H4-58       | 58         | 328,10    | 336,10         | 80         | 30         | 1 976,23 €        |         |
| H4-60       | 60         | 339,41    | 347,41         | 80         | 30         | 2 058,49 €        |         |

On request

**Gears available up to this size**

H4-100 100

Dimensions: contact us

Dimensions in mm