



# SPUR GEARS

## Quick Reference

**Not all items are readily available. Please check prior to ordering.**

This catalogue is a quick reference guide showing the PCD corresponding to each spur gear in our range. Use this catalogue to determine whether the number of teeth you require is available in any of our standard pitches.

The PDF catalogue for the selected pitch should then be consulted to determine bore sizes, face widths and other details so that you can make a selection.

This basic size listing does not include the Anti Backlash or Minilash series of spur gears.

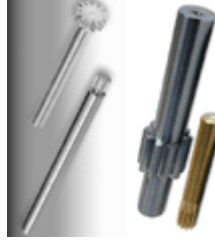
### **Common Types included in this Catalogue**



**Hubbed and Hubless**



**Press Fit Diff Mounting**



**Stem Gears**



**Flange Mounting**

This catalogue is a quick reference guide showing spur gears available for each standard pitch. It is not intended as a design or engineering guide. More details can be found using the relevant catalogue for each item, and the Minifind CD software.

### **Materials Overview**

#### **METALLIC**

Metallic spur gears may include Brass, Aluminium, 303 Stainless Steel, 416 Stainless Steel or High Carbon Steel.

#### **PLASTIC**

Plastic spur gears may include Nylon, Acetal, Bakelite or other plastics.

| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial  |          |          |          |          |          |          |          |          | Circular Pitch |      |      |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|------|------|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch | 16 Pitch | CP 2           | CP 5 |      |   |
| 6               | Steel    | -           | -           | -           | -           | -           | 3           | -           | -           | 4.8         | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 4.8      | -        | -        | -              | -    |      |   |
| 7               | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 3.7      | 5.6      | 7.4      | -        | -              | -    |      |   |
| 8               | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 6.4      | -        | -        | -              | -    |      |   |
| 8               | Steel    | -           | -           | -           | -           | 3.2         | 4           | -           | -           | 6.4         | 8           | -           | 12          | 16          | 20          | 24          | -           | -         | -        | -        | -        | -        | 3.2      | 4.2      | 6.4      | 8.5      | -              | -    |      |   |
| 9               | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 3.6      | 4.8      | 7.1      | 9.5      | -              | -    |      |   |
| 10              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 5.3      | 7.9      | -        | -              | -    |      |   |
| 10              | Steel    | -           | 2           | -           | 3           | 4           | 5           | -           | 7.5         | 8           | 10          | 15          | 20          | 25          | 30          | -           | -           | -         | -        | -        | -        | 2.6      | 3.2      | 4        | 5.3      | 7.9      | 10.6           | -    |      |   |
| 11              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 2.9      | -        | 5.8      | 8.7      | 11.6     | -              | -    |      |   |
| 12              | Plastic  | -           | -           | -           | -           | 4.8         | 6           | -           | 8.4         | 9.6         | 12          | 15          | 18          | 24          | 30          | 36          | -           | -         | -        | -        | -        | -        | 6.3      | 9.5      | 12.7     | 19.1     | -              | -    |      |   |
| 12              | Steel    | 1.8         | 2.4         | -           | -           | 4.8         | 6           | 7.2         | -           | 9.6         | 12          | 18          | 24          | 30          | 36          | -           | -           | -         | -        | -        | -        | 2.5      | 3.2      | 4.8      | 6.3      | 9.5      | 12.7           | -    |      |   |
| 13              | Plastic  | -           | -           | -           | -           | -           | 6.5         | -           | 9.1         | -           | 13          | 16.2        | 19.5        | 26          | 32.5        | 39          | -           | -         | -        | -        | -        | -        | -        | -        | -        | -        | -              | -    |      |   |
| 13              | Steel    | 2           | -           | 3.2         | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -        | -              | -    |      |   |
| 14              | Plastic  | -           | -           | -           | -           | -           | 7           | -           | 9.8         | -           | 14          | 17.5        | 21          | 28          | 35          | 42          | -           | -         | -        | -        | -        | -        | -        | 7.4      | 11.1     | 14.8     | -              | -    |      |   |
| 14              | Steel    | -           | 2.8         | -           | -           | 5.6         | 7           | -           | -           | 11.2        | 14          | 17.5        | 21          | 28          | 35          | 42          | -           | -         | -        | -        | -        | -        | 3.7      | 4.5      | 5.6      | 7.4      | 11.1           | 14.8 | -    |   |
| 15              | Plastic  | -           | -           | -           | -           | 6           | 7.5         | -           | 10.5        | 12          | 15          | 18.8        | 22.5        | 30          | 37.5        | 45          | -           | -         | -        | -        | -        | -        | -        | 7.9      | 11.9     | 15.9     | -              | -    |      |   |
| 15              | Steel    | 2.2         | -           | 3.8         | -           | 6           | 7.5         | -           | 11.2        | 12          | 15          | 18.8        | 22.5        | 30          | 37.5        | 45          | -           | -         | -        | -        | -        | -        | -        | 6        | 7.9      | 11.9     | 15.9           | -    |      |   |
| 16              | Plastic  | -           | -           | -           | -           | 6.4         | 8           | -           | 11.2        | 12.8        | 16          | 20          | 24          | 32          | 40          | 48          | -           | -         | -        | -        | -        | -        | -        | 8.5      | 12.7     | 16.9     | 25.4           | -    |      |   |
| 16              | Steel    | -           | -           | 4           | -           | 6.4         | 8           | -           | 12          | 12.8        | 16          | 20          | 24          | 32          | 40          | 48          | -           | -         | -        | -        | -        | -        | 4.2      | 5.1      | 5.6      | 6.4      | 8.5            | 12.7 | 16.9 | - |
| 17              | Plastic  | -           | -           | -           | -           | -           | 8.5         | -           | 11.9        | -           | 17          | 21.2        | 25.5        | 34          | -           | 51          | -           | -         | -        | -        | -        | -        | -        | -        | -        | -        | 18             | -    |      |   |
| 17              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 13.6        | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 9        | -        | -        | -              | -    |      |   |

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| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |           |          |          |          |          |          |          |          | Circular Pitch |      |      |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------------|------|------|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch | 16 Pitch       | CP 2 | CP 5 |
| 18              | Plastic  | -           | -           | -           | -           | 9           | -           | 12.6        | -           | 14.4        | 18          | 22.5        | 27          | 36          | 45          | 54          | -           | -         | -        | -        | -        | -        | 9.5      | 14.3     | 19       | -              | -    | -    |
| 18              | Steel    | -           | -           | -           | -           | 7.2         | 10.8        | -           | 13.5        | 14.4        | 18          | 22.5        | 27          | 36          | 45          | 54          | -           | -         | -        | -        | -        | -        | 9.5      | 14.3     | 19       | -              | -    | -    |
| 19              | Plastic  | -           | -           | -           | -           | -           | 9.5         | 13.3        | -           | -           | 19          | 23.8        | 28.5        | 38          | -           | 57          | -           | -         | -        | -        | -        | -        | 10.1     | -        | 20.1     | -              | -    | -    |
| 19              | Steel    | -           | -           | 4.8         | -           | -           | -           | -           | -           | 15.2        | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 10.1     | 15.1     | 20.1     | -        | -              | -    | -    |
| 20              | Plastic  | -           | -           | -           | -           | 8           | 10          | 14          | -           | 16          | 20          | 25          | 30          | 40          | 50          | 60          | -           | -         | -        | -        | -        | -        | 10.6     | 15.9     | 21.2     | 31.8           | -    | -    |
| 20              | Steel    | -           | 4           | -           | -           | 8           | 10          | -           | 15          | 16          | 20          | 25          | 30          | 40          | 50          | 60          | -           | -         | -        | -        | -        | -        | 10.6     | 15.9     | 21.2     | -              | 12.7 | 31.8 |
| 21              | Plastic  | -           | -           | -           | -           | -           | 10.5        | 14.7        | -           | 16.8        | 21          | 26.2        | 31.5        | 42          | -           | 63          | -           | -         | -        | -        | -        | -        | 11.1     | 16.7     | 22.2     | -              | -    | -    |
| 21              | Steel    | -           | -           | -           | -           | -           | 10.5        | -           | -           | -           | 21          | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 11.1     | -        | 22.2     | -              | -    | -    |
| 22              | Plastic  | -           | -           | -           | -           | -           | 11          | 15.4        | -           | 17.6        | 22          | 27.5        | 33          | 44          | 55          | 66          | -           | -         | -        | -        | -        | -        | 11.6     | 17.5     | 23.3     | -              | -    | -    |
| 22              | Steel    | -           | -           | -           | -           | -           | 11          | -           | -           | 17.6        | 22          | -           | -           | 44          | 55          | 66          | -           | -         | -        | -        | -        | -        | 11.6     | 17.5     | 23.3     | -              | -    | -    |
| 23              | Plastic  | -           | -           | -           | -           | -           | 11.5        | 16.1        | -           | 18.4        | 23          | 28.8        | 34.5        | 46          | -           | 69          | -           | -         | -        | -        | -        | -        | 12.2     | 18.3     | 24.3     | -              | -    | -    |
| 23              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 12.2     | -        | -        | -              | -    | -    |
| 24              | Plastic  | -           | -           | -           | -           | 9.6         | 12          | 16.8        | -           | 19.2        | 24          | 30          | 36          | 48          | 60          | 72          | -           | -         | -        | -        | -        | -        | 12.7     | 19.1     | 25.4     | 38.1           | -    | -    |
| 24              | Steel    | -           | -           | -           | -           | 9.6         | 12          | 14.4        | 18          | 19.2        | 24          | 30          | 36          | 48          | 60          | 72          | -           | -         | -        | -        | -        | -        | 12.7     | 19.1     | 25.4     | -              | -    | -    |
| 25              | Plastic  | -           | -           | -           | -           | 10          | 12.5        | 17.5        | -           | 20          | 25          | 31.2        | 37.5        | 50          | 62.5        | 75          | -           | -         | -        | -        | -        | -        | 13.2     | 19.8     | 26.4     | -              | -    | -    |
| 25              | Steel    | -           | -           | -           | -           | 10          | 12.5        | -           | 18.8        | 20          | 25          | 31.2        | 37.5        | 50          | 62.5        | 75          | -           | -         | -        | -        | -        | -        | 13.2     | 19.8     | 26.4     | -              | 15.9 | 39.8 |
| 26              | Plastic  | -           | -           | -           | -           | -           | 13          | 18.2        | -           | 20.8        | 26          | 32.5        | 39          | 52          | 65          | 78          | -           | -         | -        | -        | -        | -        | 13.8     | 20.6     | 27.5     | -              | -    | -    |
| 26              | Steel    | -           | -           | -           | -           | -           | 13          | -           | 19.5        | 20.8        | 26          | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 13.8     | 20.6     | 27.5     | -        | -              | -    |      |
| 27              | Plastic  | -           | -           | -           | -           | -           | 13.5        | 18.9        | -           | 27          | 33.8        | 40.5        | 54          | 81          | -           | -           | -           | -         | -        | -        | -        | -        | 14.3     | -        | 28.6     | -              | -    | -    |
| 27              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 27          | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 14.3     | 10.7     | 14.3     | 28.6     | -              | -    | -    |

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| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |           |          |          |          |          |          |          |          | Circular Pitch |      |      |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------------|------|------|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch | 16 Pitch       | CP 2 | CP 5 |
| 28              | Plastic  | -           | -           | -           | -           | -           | 14          | 19.6        | -           | 22.4        | 28          | 35          | 42          | 56          | 70          | 84          | -           | -         | -        | -        | -        | -        | 14.8     | 22.2     | 29.6     | 44.5           | -    | -    |
| 28              | Steel    | -           | -           | -           | -           | 14          | -           | -           | 21          | 22.4        | 28          | 35          | 42          | 56          | 70          | 84          | -           | 5.9       | 7.4      | 8.9      | 9.9      | 11.1     | 14.8     | 22.2     | 29.6     | -              | -    |      |
| 29              | Plastic  | -           | -           | -           | -           | 14.5        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 15.3     | -        | -        | -        | -              | -    |      |
| 29              | Steel    | -           | -           | -           | -           | 14.5        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 6.1       | -        | 9.2      | -        | 11.5     | 15.3     | -        | -        | -              | -    |      |
| 30              | Plastic  | -           | -           | -           | -           | 12          | 15          | 21          | -           | 24          | 30          | 37.5        | 45          | 60          | 75          | 90          | -           | -         | -        | -        | -        | -        | 15.9     | 23.8     | 31.7     | 47.6           | -    |      |
| 30              | Steel    | -           | -           | -           | -           | 12          | 15          | -           | 22.5        | 24          | 30          | 37.5        | 45          | 60          | 75          | 90          | -           | 6.4       | 8        | 9.5      | 10.6     | 11.9     | 15.9     | 23.8     | 31.7     | -              | 19.1 | 47.7 |
| 31              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 16.4     | -        | -        | -        | -              | -    |      |
| 31              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | 9.9      | -        | 12.3     | 16.4     | 24.6     | -        | -              | -    |      |
| 32              | Plastic  | -           | -           | -           | -           | 12.8        | 16          | 22.4        | -           | 25.6        | 32          | 40          | 48          | 64          | 80          | 96          | -           | -         | -        | -        | -        | -        | 16.9     | 25.4     | 33.9     | 50.8           | -    |      |
| 32              | Steel    | -           | -           | -           | -           | 12.8        | 16          | -           | 24          | 25.6        | 32          | -           | 48          | 64          | 80          | 96          | -           | 6.8       | 8.5      | 10.2     | 11.3     | 12.7     | 16.9     | 25.4     | 33.9     | -              | -    |      |
| 33              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 99          | -           | -         | -        | -        | -        | 17.5     | -        | 34.9     | -        | -              | -    |      |
| 33              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | 33          | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 17.5     | -        | 34.9     | -        | -              | -    |      |
| 34              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | 27.2        | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 18       | 27       | 36       | 54       | -              | -    |      |
| 34              | Steel    | -           | -           | -           | -           | -           | 17          | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 9        | 10.8     | 12       | 13.5     | 18       | 27       | -        | -              | -    |      |
| 35              | Plastic  | -           | -           | -           | -           | 14          | 17.5        | 24.5        | -           | 28          | 35          | 43.8        | 52.5        | 70          | 87.5        | 105         | -           | -         | -        | -        | -        | 18.5     | 27.8     | 37       | -        | -              | -    |      |
| 35              | Steel    | -           | -           | -           | -           | 14          | 17.5        | -           | 26.2        | 28          | 35          | 43.8        | -           | 70          | 87.5        | 105         | -           | 7.4       | 9.3      | -        | -        | 13.9     | 18.5     | -        | -        | -              | -    |      |
| 36              | Plastic  | -           | -           | -           | -           | 14.4        | 18          | 25.2        | -           | 28.8        | 36          | 45          | 54          | 72          | 90          | 108         | -           | -         | -        | -        | -        | 14.3     | 19       | 28.6     | 38.1     | 57.2           | -    |      |
| 36              | Steel    | -           | -           | -           | -           | 14.4        | 18          | -           | 27          | 28.8        | 36          | 45          | 54          | 72          | 90          | 108         | -           | 7.6       | 9.5      | 11.4     | 12.7     | 14.3     | 19       | 28.6     | 38.1     | -              | -    |      |
| 37              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 14.7     | 19.6     | -        | -        | -              | -    |      |
| 38              | Plastic  | -           | -           | -           | -           | 15.2        | 19          | 26.6        | -           | 30.4        | 38          | 47.5        | 57          | 76          | 114         | -           | -           | -         | -        | -        | -        | 15.1     | 20.1     | 30.2     | -        | -              | -    |      |

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| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |           |          |          |          |          |          |          | Circular Pitch |          |      |      |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------------|----------|------|------|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch       | 16 Pitch | CP 2 | CP 5 |   |
| 38              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 8.1       | 10.1     | 12.1     | 13.4     | 15.1     | 20.1     | 30.2     | -              | -        | -    | -    | - |
| 39              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 20.6     | -        | 41.3           | -        | -    | -    | - |
| 39              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 10.3     | -        | -        | -        | 20.6     | 31       | 41.3           | -        | -    | -    | - |
| 40              | Plastic  | -           | -           | -           | -           | 16          | 20          | 28          | 32          | 40          | 50          | 60          | 80          | 100         | 120         | -           | -           | -         | -        | -        | 14.1     | 15.9     | 21.2     | 31.8     | 42.3           | -        | -    | -    | - |
| 40              | Steel    | -           | -           | -           | -           | 16          | 20          | -           | 30          | 32          | 40          | 50          | 60          | 80          | 100         | 120         | -           | -         | 8.5      | 10.6     | 12.7     | 14.1     | 15.9     | 21.2     | 31.8           | 42.3     | -    | -    | - |
| 41              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 14.5     | -        | -        | -        | -              | -        | -    | -    | - |
| 41              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 8.7      | 10.9     | -        | -        | -        | -        | -              | -        | -    | -    | - |
| 42              | Plastic  | -           | -           | -           | -           | 16.8        | 21          | 29.4        | 33.6        | 42          | 52.5        | 63          | 84          | -           | -           | -           | -           | -         | -        | -        | 14.8     | 16.7     | 22.2     | 33.3     | 44.4           | 66.7     | -    | -    | - |
| 42              | Steel    | -           | -           | -           | -           | -           | 21          | -           | 31.5        | 33.6        | 42          | 63          | 84          | 105         | 126         | -           | -           | -         | 8.9      | 11.1     | 13.4     | 14.8     | 16.7     | 22.2     | 33.3           | 44.4     | -    | -    | - |
| 43              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -              | -        | -    | -    | - |
| 43              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 15.2     | -        | -        | -        | -              | -        | -    | -    | - |
| 44              | Plastic  | -           | -           | -           | -           | 17.6        | 22          | -           | -           | 35.2        | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 15.5     | 17.5     | 23.3     | 34.9     | 46.6           | -        | -    | -    | - |
| 44              | Steel    | -           | -           | -           | -           | -           | 22          | -           | -           | 35.2        | -           | -           | -           | -           | -           | -           | -           | -         | 9.3      | 11.7     | 14       | 15.5     | 17.5     | 23.3     | 34.9           | 46.6     | -    | -    | - |
| 45              | Plastic  | -           | -           | -           | -           | 18          | 22.5        | 31.5        | 36          | 45          | 56.2        | 67.5        | 90          | 112.5       | 135         | -           | -           | -         | -        | -        | 15.9     | -        | 23.8     | 35.7     | 47.6           | -        | -    | -    | - |
| 45              | Steel    | -           | -           | -           | -           | 18          | 22.5        | -           | 33.8        | 36          | 45          | 56.2        | 67.5        | 90          | 112.5       | 135         | -           | -         | 9.5      | 11.9     | 14.3     | 15.9     | 17.9     | 23.8     | 35.7           | 47.6     | -    | -    | - |
| 46              | Plastic  | -           | -           | -           | -           | 18.4        | -           | -           | -           | 36.8        | 46          | -           | -           | -           | -           | -           | -           | -         | -        | -        | 16.2     | 18.3     | 24.3     | 36.5     | 48.7           | -        | -    | -    | - |
| 46              | Steel    | -           | -           | -           | -           | -           | 23          | -           | -           | 46          | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 16.2     | 18.3     | 24.3     | -        | 48.7           | -        | -    | -    | - |
| 48              | Plastic  | -           | -           | -           | -           | 19.2        | 24          | 33.6        | 38.4        | 48          | 60          | 72          | 96          | 120         | 144         | -           | -           | -         | -        | -        | 16.9     | 19.1     | 25.4     | 38.1     | 50.8           | -        | -    | -    | - |
| 48              | Steel    | -           | -           | -           | -           | 19.2        | 24          | -           | 36          | 38.4        | 48          | 60          | 72          | 96          | 120         | 144         | -           | -         | 10.2     | 12.7     | 15.3     | 16.9     | 19.1     | 25.4     | 38.1           | 50.8     | -    | -    | - |
| 50              | Plastic  | -           | -           | -           | -           | 20          | 25          | 35          | 40          | 50          | 62.5        | 75          | 100         | 125         | 150         | -           | -           | -         | -        | -        | 17.6     | 19.8     | 26.4     | 39.7     | 52.9           | -        | -    | -    | - |

Information provided is for guidance only. Not all sizes are readily available. Minimum order quantities may apply. This information is not intended to be used for design purposes.

| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |           |          |          |          |          |          |          | Circular Pitch |          |      |      |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------------|----------|------|------|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch       | 16 Pitch | CP 2 | CP 5 |   |
| 50              | Steel    | -           | -           | -           | -           | 20          | 25          | -           | 37.5        | 40          | 50          | 62.5        | 75          | 100         | 125         | 150         | 10.6        | 13.2      | 15.9     | 17.6     | 19.8     | 26.4     | 39.7     | 52.9     | -              | -        | -    | -    | - |
| 51              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 51          | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -              | -        | -    | -    | - |
| 52              | Plastic  | -           | -           | -           | -           | -           | 26          | 36.4        | 41.6        | 52          | 65          | 78          | -           | -           | -           | -           | -           | -         | -        | -        | 27.5     | 41.3     | 55       | -        | -              | -        | -    | -    | - |
| 52              | Steel    | -           | -           | -           | -           | -           | -           | -           | 41.6        | 52          | -           | -           | -           | -           | -           | -           | -           | 13.8      | 16.5     | -        | 20.6     | 27.5     | 41.3     | 55       | -              | -        | -    | -    | - |
| 54              | Plastic  | -           | -           | -           | -           | -           | 27          | 37.8        | -           | 54          | 67.5        | 81          | -           | -           | -           | -           | -           | -         | -        | 19.1     | 28.6     | -        | 57.1     | -        | -              | -        | -    | -    | - |
| 54              | Steel    | -           | -           | -           | -           | -           | 27          | -           | 43.2        | 54          | -           | -           | -           | -           | -           | -           | 11.4        | 14.3      | 17.2     | 19.1     | 21.4     | 28.6     | 42.9     | 57.1     | -              | -        | -    | -    | - |
| 55              | Plastic  | -           | -           | -           | -           | 22          | 27.5        | 38.5        | 44          | 55          | 68.8        | 82.5        | 110         | 137.5       | 165         | -           | -           | -         | -        | 21.8     | 29.1     | 43.7     | 58.2     | -        | -              | -        | -    | -    | - |
| 55              | Steel    | -           | -           | -           | -           | 22          | 27.5        | -           | 41.2        | 44          | 55          | -           | -           | -           | 137.5       | 165         | -           | 14.6      | 17.5     | 19.4     | 21.8     | 29.1     | -        | -        | -              | -        | -    | -    | - |
| 56              | Plastic  | -           | -           | -           | -           | 22.4        | 28          | 39.2        | 44.8        | 56          | 70          | -           | -           | -           | -           | -           | -           | -         | -        | -        | 22.2     | 29.6     | 44.5     | 59.2     | -              | -        | -    | -    | - |
| 56              | Steel    | -           | -           | -           | -           | 28          | 28          | 42          | 44.8        | 56          | 70          | 84          | 112         | 140         | 168         | -           | 14.8        | 17.8      | 19.8     | 22.2     | 29.6     | 44.5     | 59.2     | -        | -              | -        | -    | -    | - |
| 57              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 60.3     | -              | -        | -    | -    | - |
| 57              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 57          | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 30.2     | -        | -        | -        | -              | -        | -    | -    | - |
| 58              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | 58          | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 30.7     | -        | -        | -        | -              | -        | -    | -    | - |
| 58              | Steel    | -           | -           | -           | -           | -           | 29          | 43.5        | -           | -           | -           | -           | -           | -           | -           | -           | -           | 15.4      | 18.4     | 23       | 30.7     | -        | -        | -        | -              | -        | -    | -    | - |
| 59              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 31.2     | -        | -        | -        | -              | -        | -    | -    | - |
| 60              | Plastic  | -           | -           | -           | -           | 24          | 30          | 42          | 48          | 60          | 75          | 90          | 120         | 150         | 180         | -           | -           | -         | 21.2     | 23.8     | 31.7     | 47.6     | 63.5     | -        | -              | -        | -    | -    | - |
| 60              | Steel    | -           | -           | -           | -           | 24          | 30          | 45          | 48          | 60          | 75          | 90          | 120         | 150         | 180         | 12.7        | 15.9        | 19.1      | 21.2     | 23.8     | 31.7     | 47.6     | 63.5     | -        | -              | -        | -    | -    | - |
| 61              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 32.3     | -        | -        | -        | -              | -        | -    | -    | - |
| 62              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 49.2     | -        | -              | -        | -    | -    |   |
| 62              | Steel    | -           | -           | -           | -           | 31          | 31          | 46.5        | -           | -           | -           | -           | -           | -           | -           | -           | -           | 16.4      | 19.7     | -        | 32.8     | -        | -        | -        | -              | -        | -    | -    | - |

Information provided is for guidance only. Not all sizes are readily available. Minimum order quantities may apply. This information is not intended to be used for design purposes.

| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |           |          |          |          |          |          |          |          | Circular Pitch |      |      |      |      |       |       |       |       |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------------|------|------|------|------|-------|-------|-------|-------|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch | 16 Pitch       | CP 2 | CP 5 |      |      |       |       |       |       |   |
| 63              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 50       | -        | -              | -    | -    | -    |      |       |       |       |       |   |
| 63              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 63          | -           | -           | -           | -           | -           | -           | -           | -         | 16.7     | 22.2     | 25       | 33.3     | -        | -        | -        | -              | -    | -    | -    | -    |       |       |       |       |   |
| 64              | Plastic  | -           | -           | -           | -           | 25.6        | 32          | 44.8        | 51.2        | 64          | 80          | -           | -           | -           | -           | -           | -           | -         | -        | -        | 25.4     | 33.9     | 50.8     | 67.7     | -        | -              | -    | -    | -    | -    |       |       |       |       |   |
| 64              | Steel    | -           | -           | -           | -           | 25.6        | 32          | -           | 48          | 51.2        | 64          | 96          | 128         | 160         | 192         | -           | -           | -         | 17       | 20.4     | 22.6     | 25.4     | 33.9     | 50.8     | 67.7     | -              | -    | -    | -    | -    | -     |       |       |       |   |
| 65              | Plastic  | -           | -           | -           | -           | 26          | 32.5        | 45.5        | 52          | 65          | 81.2        | 97.5        | 130         | -           | -           | -           | -           | -         | -        | -        | 34.4     | 45.8     | 62.4     | 79.0     | -        | -              | -    | -    | -    | -    | -     |       |       |       |   |
| 65              | Steel    | -           | -           | -           | -           | 26          | 32.5        | -           | 48.8        | 52          | 65          | -           | -           | -           | -           | -           | -           | -         | 13.8     | 17.2     | 20.7     | 25.8     | 34.4     | -        | -        | -              | -    | -    | -    | -    | -     | -     |       |       |   |
| 66              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | 52.8        | 66          | -           | -           | -           | -           | -           | -           | -         | -        | -        | 34.9     | 46.5     | 63.1     | 79.7     | -        | -              | -    | -    | -    | -    | -     | -     |       |       |   |
| 66              | Steel    | -           | -           | -           | -           | 33          | 41.5        | 49.5        | 57.5        | 66          | 75          | 84          | 93          | 102         | 111         | 120         | 129         | 138       | 14       | 17.5     | 21       | 24.5     | 32       | 39.5     | 47       | 54.5           | 62   | 69.5 | 77   | 84.5 | 92    | 99.5  |       |       |   |
| 68              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 36       | 48       | 60       | 72       | -        | -              | -    | -    | -    | -    | -     | -     | -     |       |   |
| 68              | Steel    | -           | -           | -           | -           | 34          | 42          | 50          | 58          | 66          | 74          | 82          | 90          | 98          | 106         | 114         | 122         | 130       | -        | -        | 27       | 36       | 45       | 54       | 63       | 71             | 79   | 87   | 95   | 103  | 111   | 119   | 127   |       |   |
| 69              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 54.8     | 73       | -              | -    | -    | -    | -    | -     | -     | -     | -     |   |
| 69              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 69          | 79          | 89          | 99          | 109         | 119         | 129         | 139         | 149       | -        | -        | 27.4     | 36.5     | 45.6     | 54.7     | 63.8     | 72.9           | 82   | 91   | 100  | 109  | 118   | 127   | 136   |       |   |
| 70              | Plastic  | -           | -           | -           | -           | 28          | 35          | 49          | 56          | 70          | 87.5        | 105         | 140         | -           | -           | -           | -           | -         | -        | -        | 37       | 49       | 61       | 73       | 85       | 97             | 109  | 121  | 133  | 145  | 157   | 169   | 181   | 193   |   |
| 70              | Steel    | -           | -           | -           | -           | 28          | 35          | -           | 52.5        | 56          | 70          | 87.5        | 105         | 140         | -           | -           | -           | -         | 14.8     | 18.6     | 22.3     | 24.7     | 27.8     | 37       | 45.6     | 54.5           | 63.4 | 72.3 | 81.2 | 90.1 | 99    | 107.9 | 116.8 | 125.7 |   |
| 71              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 37.6     | -        | -        | -              | -    | -    | -    | -    | -     | -     | -     | -     | - |
| 72              | Plastic  | -           | -           | -           | -           | 28.8        | 36          | 50.4        | 57.6        | 72          | 90          | -           | -           | -           | -           | -           | -           | -         | -        | -        | 25.4     | 33.8     | 42.2     | 50.6     | 59       | 67.4           | 75.8 | 84.2 | 92.6 | 101  | 109.4 | 117.8 | 126.2 | 134.6 |   |
| 72              | Steel    | -           | -           | -           | -           | 28.8        | 36          | -           | 54          | 57.6        | 72          | 90          | 108         | 144         | 180         | 216         | -           | -         | 15.3     | 19.1     | 22.9     | 25.4     | 28.6     | 38.1     | 47.2     | 56.2           | 65.2 | 74.2 | 83.2 | 92.2 | 101.2 | 110.2 | 119.2 | 128.2 |   |
| 74              | Plastic  | -           | -           | -           | -           | 29.5        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 29.4     | -        | -        | -              | -    | -    | -    | -    | -     | -     | -     | -     | - |
| 75              | Plastic  | -           | -           | -           | -           | 30          | 37.5        | 52.5        | 60          | 75          | 93.8        | 112.5       | 150         | -           | -           | -           | -           | -         | -        | -        | 26.5     | 29.8     | 39.7     | 49.6     | -        | -              | -    | -    | -    | -    | -     | -     | -     | -     | - |
| 75              | Steel    | -           | -           | -           | -           | 30          | 37.5        | -           | 56.2        | 60          | 75          | 112.5       | 150         | 187.5       | 225         | -           | -           | -         | 15.9     | 19.9     | 23.8     | 26.5     | 29.8     | 39.7     | 49.6     | 59.6           | 69.6 | 79.6 | 89.6 | 99.6 | 109.6 | 119.6 | 129.6 | 139.6 |   |

Information provided is for guidance only. Not all sizes are readily available. Minimum order quantities may apply. This information is not intended to be used for design purposes.

| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |           |          |          |          |          |          |          |          | Circular Pitch |      |      |   |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------------|------|------|---|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch | 16 Pitch       | CP 2 | CP 5 |   |   |
| 76              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - |   |
| 76              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 16.1      | 20.1     | -        | -        | 30.2     | 40.2     | 60.3     | -        | -              | -    | -    | - |   |
| 78              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - |   |
| 78              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 16.5      | 20.7     | -        | -        | -        | 41.3     | -        | 82.5     | -              | -    | -    | - | - |
| 80              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - |   |
| 80              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 17        | 21.2     | 25.4     | 28.2     | 31.8     | 42.3     | 63.5     | 84.6     | -              | -    | -    | - | - |
| 81              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 81              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 82              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 17.4      | 21.7     | -        | 28.9     | 32.6     | 43.4     | -        | -        | -              | -    | -    | - | - |
| 84              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 84              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 17.8      | 22.3     | -        | 29.7     | 33.3     | 44.4     | 66.7     | 88.9     | -              | -    | -    | - | - |
| 85              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 85              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 18        | 22.5     | 27       | 30       | 33.7     | 45       | -        | -        | -              | -    | -    | - | - |
| 86              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 87              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 88              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 88              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 90              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |
| 90              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 19.1      | 23.8     | 28.6     | 31.8     | 35.7     | 47.6     | 71.5     | 95.2     | -              | -    | -    | - | - |
| 92              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - | - |

Information provided is for guidance only. Not all sizes are readily available. Minimum order quantities may apply. This information is not intended to be used for design purposes.

| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |           |          |          |          |          |          |          |          | Circular Pitch |      |      |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------------|------|------|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch | 16 Pitch       | CP 2 | CP 5 |   |
| 92              | Steel    | -           | -           | -           | -           | -           | -           | -           | 73.6        | -           | -           | -           | -           | -           | -           | -           | -           | -         | 24.4     | -        | -        | -        | 36.5     | 48.7     | 73       | -              | -    | -    | - |
| 93              | Plastic  | -           | -           | -           | -           | -           | -           | 93          | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | 98.4     | -              | -    | -    | - |
| 93              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | 98.4     | -              | -    | -    | - |
| 95              | Plastic  | -           | -           | -           | 38          | 47.5        | -           | -           | -           | 95          | 142.5       | 190         | -           | -           | -           | -           | -           | -         | -        | -        | -        | 33.5     | 37.7     | 50.3     | -        | -              | -    | -    | - |
| 95              | Steel    | -           | -           | -           | 38          | 47.5        | -           | 71.2        | 76          | 95          | -           | -           | -           | -           | -           | -           | -           | 20.1      | 25.2     | -        | -        | 33.5     | 37.7     | 50.3     | -        | -              | -    | -    | - |
| 96              | Plastic  | -           | -           | -           | 38.4        | 48          | -           | 67.2        | -           | 76.8        | 96          | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 33.9     | 38.1     | 50.8     | 76.2     | 101.6          | -    | -    | - |
| 96              | Steel    | -           | -           | -           | 38.4        | 48          | -           | -           | -           | 76.8        | 96          | -           | -           | -           | -           | -           | -           | 20.4      | 25.4     | -        | -        | 33.9     | 38.1     | 50.8     | 76.2     | 101.6          | -    | -    | - |
| 98              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | 103.7          | -    | -    | - |
| 99              | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 34.9     | -        | -        | -        | -              | -    | -    | - |
| 99              | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 99          | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 34.9     | -        | -        | -        | 104.7          | -    | -    | - |
| 100             | Plastic  | -           | -           | -           | 40          | 50          | -           | 70          | -           | 100         | 125         | 200         | -           | -           | -           | -           | -           | -         | -        | -        | -        | 35.3     | 39.7     | 52.9     | -        | -              | -    | -    | - |
| 100             | Steel    | -           | -           | -           | 40          | 50          | -           | -           | 75          | 80          | 100         | 150         | 200         | -           | -           | -           | -           | 21.2      | 26.5     | 31.8     | 35.3     | 39.7     | 52.9     | 79.4     | 105.8    | -              | -    | -    | - |
| 101             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | 53.4     | -              | -    | -    | - |
| 102             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 54       | -        | -              | -    | -    | - |
| 104             | Plastic  | -           | -           | -           | -           | -           | -           | -           | 83.2        | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | 82.6     | -              | -    | -    | - |
| 104             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 27.6     | -        | -        | -        | 41.3     | -        | -        | -              | -    | -    | - |
| 105             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 55.5     | -        | -              | -    | -    | - |
| 105             | Steel    | -           | -           | -           | -           | -           | -           | -           | 78.8        | -           | -           | -           | -           | -           | -           | -           | -           | 22.3      | 27.8     | -        | 37.1     | 41.7     | 55.5     | -        | -        | -              | -    | -    |   |
| 108             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | -        | -              | -    | -    | - |
| 108             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 86.4        | 108         | -           | -           | -           | -           | -           | -           | 22.9      | 28.6     | -        | 38.1     | -        | 57.1     | 85.8     | 114.3    | -              | -    | -    | - |

Information provided is for guidance only. Not all sizes are readily available. Minimum order quantities may apply. This information is not intended to be used for design purposes.

| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |             |           |          |          |          |          |          | Circular Pitch |          |          |      |      |   |   |   |   |   |   |   |   |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------------|----------|----------|------|------|---|---|---|---|---|---|---|---|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch       | 24 Pitch | 16 Pitch | CP 2 | CP 5 |   |   |   |   |   |   |   |   |   |
| 109             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -              | -        | -        | -    | -    | - | - |   |   |   |   |   |   |   |
| 110             | Plastic  | -           | -           | -           | 44          | 55          | -           | -           | -           | 110         | 137.5       | -           | -           | -           | -           | -           | -           | -         | -        | -        | 38.8     | 43.7     | 58.2     | -              | -        | -        | -    | -    | - | - |   |   |   |   |   |   |   |
| 110             | Steel    | -           | -           | -           | -           | 55          | 82.5        | 88          | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 38.8     | 43.7     | 58.2     | 87.3           | -        | -        | -    | -    | - | - |   |   |   |   |   |   |   |
| 112             | Plastic  | -           | -           | -           | 44.8        | -           | -           | -           | 89.6        | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 44.5     | -        | 88.9           | -        | -        | -    | -    | - | - |   |   |   |   |   |   |   |
| 112             | Steel    | -           | -           | -           | -           | 56          | -           | 89.6        | 112         | 168         | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 44.5     | 59.2     | 88.9           | -        | -        | -    | -    | - | - |   |   |   |   |   |   |   |
| 115             | Plastic  | -           | -           | -           | -           | 57.5        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 60.8     | -              | -        | -        | -    | -    | - | - | - |   |   |   |   |   |   |
| 115             | Steel    | -           | -           | -           | -           | -           | 86.2        | 92          | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 40.6     | 45.7     | 60.8     | -              | -        | -        | -    | -    | - | - | - |   |   |   |   |   |   |
| 116             | Steel    | -           | -           | -           | -           | -           | -           | 92.8        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 92.1           | -        | -        | -    | -    | - | - | - | - |   |   |   |   |   |
| 120             | Plastic  | -           | -           | -           | 48          | 60          | 84          | -           | -           | 120         | 150         | -           | -           | -           | -           | -           | -           | -         | -        | -        | 42.4     | 47.6     | 63.5     | -              | -        | -        | -    | -    | - | - | - | - |   |   |   |   |   |
| 120             | Steel    | -           | -           | -           | 48          | 60          | 90          | 96          | 120         | 180         | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 42.4     | 47.6     | 63.5     | 95.3           | 127      | -        | -    | -    | - | - | - | - | - |   |   |   |   |
| 122             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 48.4     | -        | -              | -        | -        | -    | -    | - | - | - | - | - | - |   |   |   |
| 124             | Plastic  | -           | -           | -           | -           | -           | -           | 99.2        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 98.5           | -        | -        | -    | -    | - | - | - | - | - |   |   |   |   |
| 124             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 49.2     | -        | 98.5           | -        | -        | -    | -    | - | - | - | - | - | - |   |   |   |
| 125             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 49.6     | -        | -              | -        | -        | -    | -    | - | - | - | - | - | - | - |   |   |
| 126             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 44.5     | -        | -        | -              | -        | -        | -    | -    | - | - | - | - | - | - | - |   |   |
| 126             | Steel    | -           | -           | -           | -           | -           | -           | 100.8       | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 44.5     | 66.7     | -              | -        | -        | -    | -    | - | - | - | - | - | - | - | - |   |
| 127             | Plastic  | -           | -           | -           | 50.8        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 44.8     | 50.4     | -              | -        | -        | -    | -    | - | - | - | - | - | - | - | - |   |
| 127             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | 100.8          | -        | -        | -    | -    | - | - | - | - | - | - | - | - | - |
| 128             | Plastic  | -           | -           | -           | 51.2        | -           | -           | -           | 102.4       | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 50.8     | 101.6    | -              | -        | -        | -    | -    | - | - | - | - | - | - | - | - | - |
| 128             | Steel    | -           | -           | -           | -           | 64          | -           | -           | 102.4       | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 50.8     | 67.7     | 101.6          | 135.4    | -        | -    | -    | - | - | - | - | - | - | - | - | - |

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| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |             |           |          |          |          |          |          |          | Circular Pitch |          |      |      |   |   |   |   |   |   |   |   |   |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------------|----------|------|------|---|---|---|---|---|---|---|---|---|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch       | 16 Pitch | CP 2 | CP 5 |   |   |   |   |   |   |   |   |   |   |
| 185             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 39.2      | 49       | -        | -        | -        | -        | 97.9     | -              | -        | -    | -    | - | - | - | - | - | - |   |   |   |   |
| 186             | Plastic  | -           | -           | -           | -           | 93          | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 98.4     | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |   |   |   |
| 186             | Steel    | -           | -           | -           | -           | 93          | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 98.4     | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |   |   |   |
| 190             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 67.1     | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |   |   |   |
| 190             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 50.4     | 60.4     | 67.1     | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |   |   |   |
| 192             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 76.2     | 101.6    | -              | -        | -    | -    | - | - | - | - | - | - | - | - |   |   |
| 192             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | 96          | -           | -           | -           | -           | -           | -           | -         | 40.7     | 50.9     | 67.8     | 76.2     | 101.6    | 152.4    | -              | -        | -    | -    | - | - | - | - | - | - | - | - |   |   |
| 198             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 69.9     | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - |   |   |
| 198             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | 99          | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 69.9     | 104.7    | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - |   |   |
| 200             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 70.6     | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - |   |   |
| 200             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 42.4     | 53       | 63.6     | 70.6     | 79.4     | -        | 158.8          | -        | -    | -    | - | - | - | - | - | - | - | - | - |   |
| 204             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | -        | -        | 162            | -        | -    | -    | - | - | - | - | - | - | - | - | - |   |
| 208             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 82.6     | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - | - |   |
| 210             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 74.1     | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - | - |   |
| 210             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 44.5     | 66.8     | 74.1     | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - | - | - |
| 215             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | 57       | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - | - |   |
| 216             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 76.2     | 85.8     | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - | - | - |
| 220             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | 58.3     | 70       | -        | -        | -        | 174.7          | -        | -    | -    | - | - | - | - | - | - | - | - | - | - |
| 224             | Plastic  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | -        | 88.9     | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - | - | - |
| 224             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 88.9     | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - | - | - | - |

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| Number of Teeth | Material | Metric      |             |             |             |             |             |             |             |             |             |             |             |             |             | Imperial    |             |           |          |          |          |          |          |          | Circular Pitch |          |      |      |   |   |   |   |   |   |   |
|-----------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|----------|----------------|----------|------|------|---|---|---|---|---|---|---|
|                 |          | Module 0.15 | Module 0.20 | Module 0.25 | Module 0.30 | Module 0.40 | Module 0.50 | Module 0.60 | Module 0.70 | Module 0.75 | Module 0.80 | Module 1.00 | Module 1.25 | Module 1.50 | Module 2.00 | Module 2.50 | Module 3.00 | 120 Pitch | 96 Pitch | 80 Pitch | 72 Pitch | 64 Pitch | 48 Pitch | 32 Pitch | 24 Pitch       | 16 Pitch | CP 2 | CP 5 |   |   |   |   |   |   |   |
| 225             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 47.7      | -        | -        | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - |   |   |
| 228             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 60.4     | -        | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 230             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 61       | -        | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 232             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 92.1     | -        | -        | -              | -        | -    | -    | - | - | - | - | - |   |   |
| 234             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 82.6     | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - |   |   |
| 240             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 50.9      | 63.6     | 76.3     | -        | 95.3     | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 245             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 64.9     | -        | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 248             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 98.5     | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 250             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 53        | 66.2     | 79.5     | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |
| 252             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 89       | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 256             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 101.6    | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 260             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 68.9     | 82.7     | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |
| 264             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | -        | 104.8    | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 270             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 57.2      | -        | -        | 95.3     | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - |   |
| 280             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 74.2     | 89       | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |
| 288             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | 76.3     | -        | 101.7    | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |
| 297             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | -        | 104.8    | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |
| 300             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 63.6      | -        | 95.4     | 105.9    | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |
| 320             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -         | -        | 101.8    | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |
| 325             | Steel    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 66.9      | -        | -        | -        | -        | -        | -        | -              | -        | -    | -    | - | - | - | - | - | - | - |

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