## Features

- Trapezoidal tooth profile with metric pitches
- 3M HTD Pilot Bore
- To suit 9mm Wide Belt
- Aluminium
- Maintains precise speed ratios, reducing wear and extending belt life

# RS PRO Timing Belt Pulleys

3M HTD Pilot Bore Pulleys – to suit 9mm Wide belt



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

## Product Description

RS PRO 3M HTD Pilot Bore Pulleys are precision-engineered for synchronous belt drives, utilizing a 3 mm HTD tooth profile optimized for high-torque, low-noise operation. They provide accurate timing, zero slippage, and excellent power transmission—ideal for industrial automation, CNC, and heavy-duty applications.

Features

- High efficiency and low noise High load capacity with improved tooth contact and torque transmission.
- Quiet, efficient operation with reduced vibration.
- Metric 3 mm tooth pitch, perfectly matched to 9 mm HTD belts.
- Pilot bore design allows custom machining to fit specific shaft dimensions.
- Tooth profiles interchangeable with ISO/DIN standards.

Applications

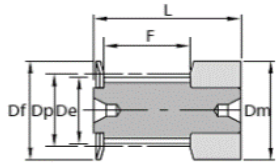
- Industrial machinery – conveyors, packaging, compressors.
- Robotics & CNC equipment – precision synchronization.
- Printers & textile machines – reliable, low-backlash motion.
- Heavy-duty drives – in conjunction with keyways or bushes, suitable for high-torque use.

## Specifications

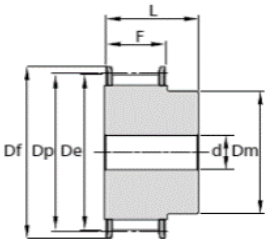
| | |
|---|---|
| Series | 3M HTD Pilot Bore Pulleys – to suit 9mm Wide Belt |
| Number of Teeth | Please see below table for details |
| Pitch | 3mm |
| To suit belt width | 9mm |
| Belt Pulley Type | Timing Belt Pulleys |
| Bore type | Pilot Bore |
| Bore | Please see below table for details (d) |
| Overall Diameter | Please see below table for details (Df) |
| Number Of Grooves | Not applicable |
| Materials | Aluminium |
| Flanges | Zinc Plated Steel |

## Specifications

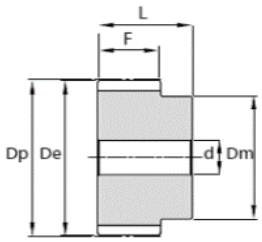
### Pilot Bore




TYPE 0F




TYPE 1F



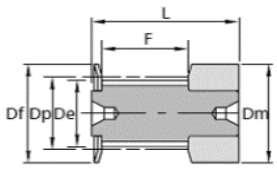
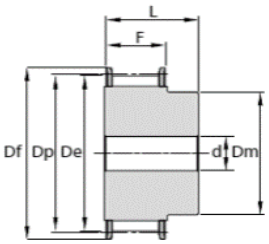
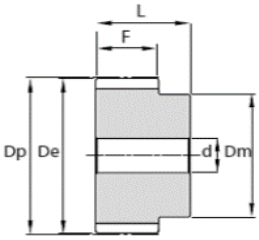

TYPE 8



| Key to Standard Diagram | |
|---|---|
| De | External diameter of teeth |
| Dp | Pitch diameter |
| Df | Flange diameter |
| Dm | Hub diameter |
| F | Width over flanges |
| L | Overall width (or length through bore) |
| d | Bore diameter |

*Dimensions below in mm

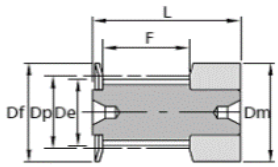
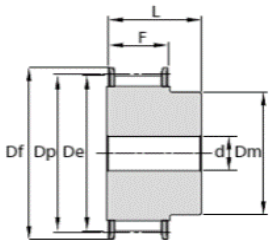
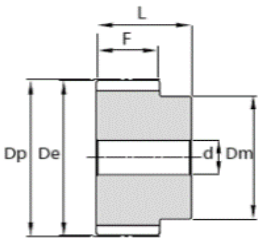
| RS Article | MPN | Number of Teeth | Type | Dp | De | Df | Dm | F | L | Bore (d) | No. Flanges |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1465379 | HP10-3M-09F | 10 | OF | 9.55 | 8.79 | 13 | 13 | 10.2 | 17.5 | - | 2 |
| 1465380 | HP12-3M-09F | 12 | OF | 11.46 | 10.70 | 15 | 15 | 10.2 | 17.5 | - | 2 |
| 1465381 | HP14-3M-09F | 14 | OF | 13.37 | 12.61 | 16 | 16 | 10.2 | 17.5 | - | 2 |
| 1465382 | HP15-3M-09F | 15 | OF | 14.32 | 13.56 | 17.5 | 17.5 | 10.2 | 17.5 | - | 2 |

| Pilot Bore | | |
|---|---|---|
|  |  |  |
| TYPE 0F | TYPE 1F | TYPE 8 |
| |  | |

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*Dimensions below in mm

| RS Article | MPN | Number of Teeth | Type | Dp | De | Df | Dm | F | L | Bore (d) | No. Flanges |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1465383 | HP16-3M-09F | 16 | 1F | 15.28 | 14.52 | 17.5 | 10 | 12.8 | 20.6 | 4 | 2 |
| 1465384 | HP18-3M-09F | 18 | 1F | 17.19 | 16.43 | 20 | 11 | 12.8 | 20.6 | 6 | 2 |
| 1465385 | HP20-3M-09F | 20 | 1F | 19.10 | 18.34 | 23 | 13 | 12.8 | 20.6 | 6 | 2 |
| 1465386 | HP21-3M-09F | 21 | 1F | 20.05 | 19.29 | 25 | 14 | 12.8 | 20.6 | 6 | 2 |
| 1465387 | HP22-3M-09F | 22 | 1F | 21.01 | 20.25 | 25 | 14 | 12.8 | 20.6 | 6 | 2 |
| 1465388 | HP24-3M-09F | 24 | 1F | 22.92 | 22.16 | 25 | 14 | 12.8 | 20.6 | 6 | 2 |
| 1465389 | HP26-3M-09F | 26 | 1F | 24.83 | 24.07 | 28 | 16 | 12.8 | 20.6 | 6 | 2 |
| 1465390 | HP28-3M-09F | 28 | 1F | 26.74 | 25.98 | 32 | 18 | 12.8 | 20.6 | 6 | 2 |
| 1465391 | HP30-3M-09F | 30 | 1F | 28.65 | 27.89 | 32 | 20 | 12.8 | 20.6 | 6 | 2 |
| 1465392 | HP32-3M-09F | 32 | 1F | 30.56 | 29.80 | 36 | 22 | 12.8 | 20.6 | 6 | 2 |
| 1465393 | HP36-3M-09F | 36 | 1F | 34.38 | 33.62 | 39 | 26 | 13.4 | 22.2 | 6 | 2 |
| 1465394 | HP40-3M-09F | 40 | 1F | 38.20 | 37.44 | 42 | 28 | 13.4 | 22.2 | 6 | 2 |
| 1465395 | HP44-3M-09F | 44 | 1F | 42.02 | 41.26 | 48 | 33 | 13.4 | 22.2 | 6 | 2 |

| Pilot Bore | | |
|---|---|---|
|  |  |  |
| TYPE 0F | TYPE 1F | TYPE 8 |
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*Dimensions below in mm

| RS Article | MPN | Number of Teeth | Type | Dp | De | Df | Dm | F | L | Bore (d) | No. Flanges |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1465396 | HP48-3M-09 | 48 | 8 | 45.84 | 45.08 | - | 33 | 13.4 | 22.2 | 8 | - |
| 1465397 | HP72-3M-09 | 72 | 8 | 68.75 | 67.99 | - | 33 | 13.4 | 22.2 | 8 | - |