

Belt Pulleys



Features

- Trapezoidal tooth profile with metric pitches
- T 2.5 Pilot Bore
- To suit 6mm Wide Belt
- Aluminium
- Maintains precise speed ratios, reducing wear and extending belt life

RS PRO Timing Belt Pulleys

T2.5 Pilot Bore Pulleys – to suit 6mm 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.

Belt Pulleys

Product Description

These RS PRO T Series pulleys use a trapezoidal tooth profile with metric pitches such as T2.5, T5. Designed for synchronous belt drives, ensuring accurate power transmission and minimal slippage. Timing belt pulleys with trapezoidal tooth profiles are precision-engineered components designed for synchronous power transmission. They work in conjunction with timing belts to ensure accurate speed ratios, positive engagement, and zero slippage between the driving and driven shafts. These pulleys are widely used in industrial and automation systems where timing accuracy and reliability are critical.

Features:

- High efficiency and low noise operation.
- Capable of transmitting high torque over long distances.
- Maintains precise speed ratios, reducing wear and extending belt life.
- Metric timing pulleys are designed to be used with metric timing belts in synchronous belt drives.
- Tooth profiles interchangeable with ISO/DIN standards

Applications:

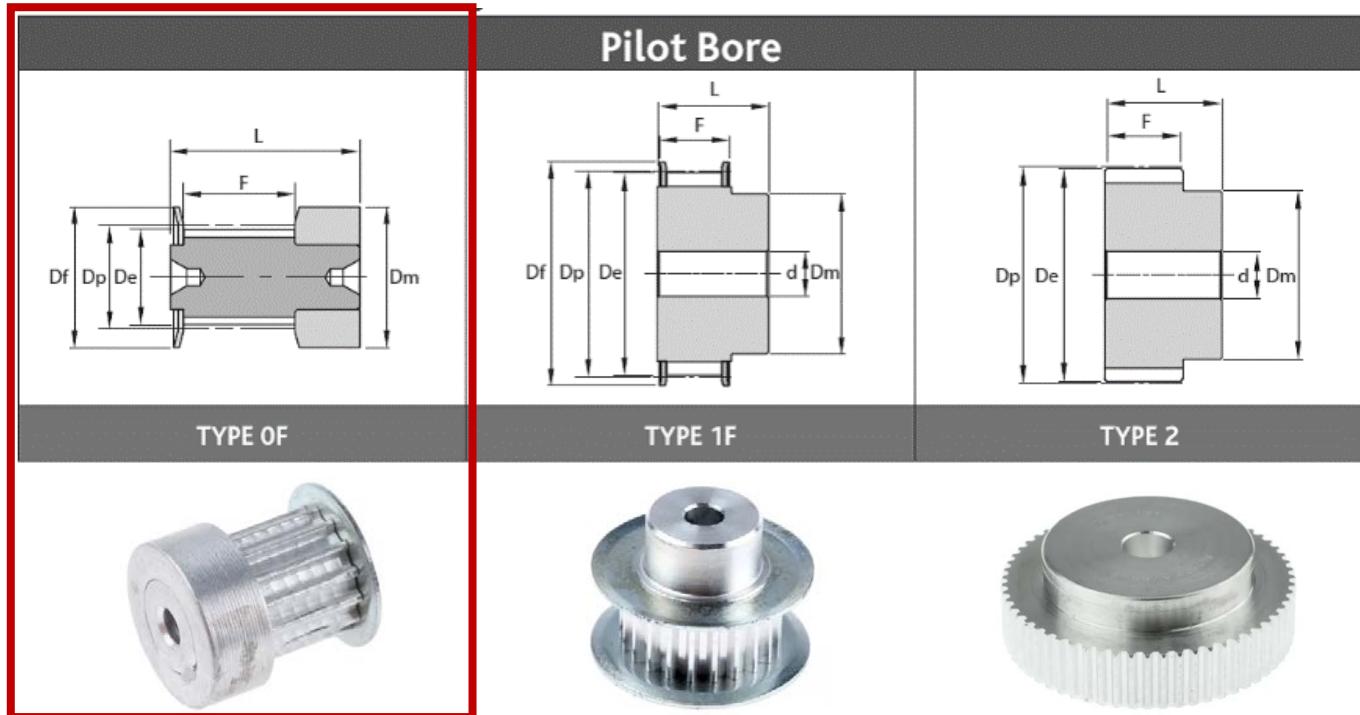
- Industrial machinery - Used in conveyors, packaging machines, and compressors for accurate motion control. Ideal for automation systems requiring synchronous movement.
- Robotics & CNC Equipment
- Printing & Textile Machines - ensures smooth, synchronized operation for processes requiring exact timing.
- Power Transmission in Heavy-Duty Systems - Suitable for high-torque applications like crushers and agricultural equipment when combined with keyways or taper lock bushings.

Specifications

Series	T2.5 Pilot Bore Pulleys - to suit 6mm Wide Belt
Number of Teeth	Please see below table for details
Pitch	2.5mm
To suit belt width	6mm
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

Belt Pulleys

Specifications



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

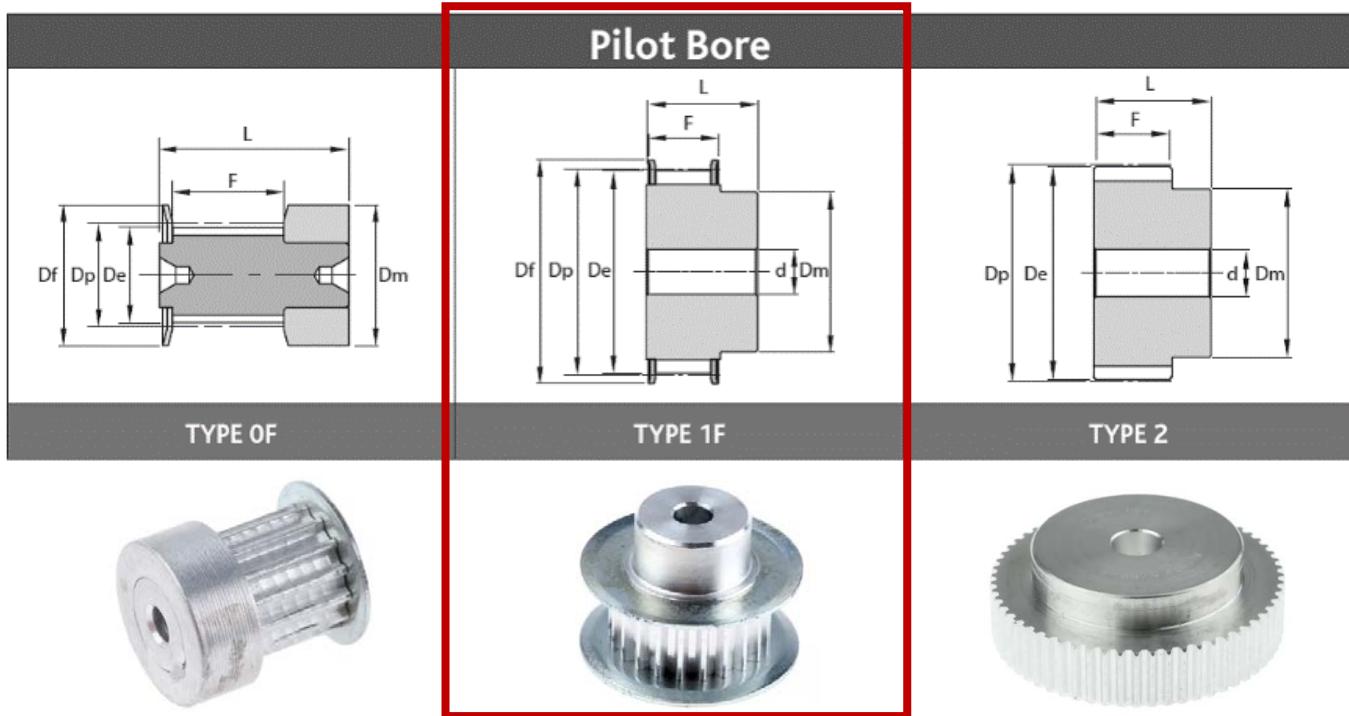
*Dimensions below in mm

Bore (d) H8 Limits
Dimensional Tolerances +/- 1mm

RS Article	MPN	Type	Number of Teeth	De	Dp	Df	Dm	F	L	Bore (d)	Max Bore	No. Flanges
2864496	16T2.5/10-2	0F	10	7.45	7.96	13	13	9	16	-	3	2
2864503	16T2.5/12-2	0F	12	9.00	9.55	13	13	9	16	-	3	2
744491	16T2.5/14-2	0F	14	10.60	11.14	15	15	9	16	-	4	2
2864519	16T2.5/15-2	0F	15	11.40	11.94	15	15	9	16	-	5	2
744508	16T2.5/16-2	0F	16	12.20	12.73	16	16	9	16	-	6	2

See next page for Type 1F

Belt Pulleys



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

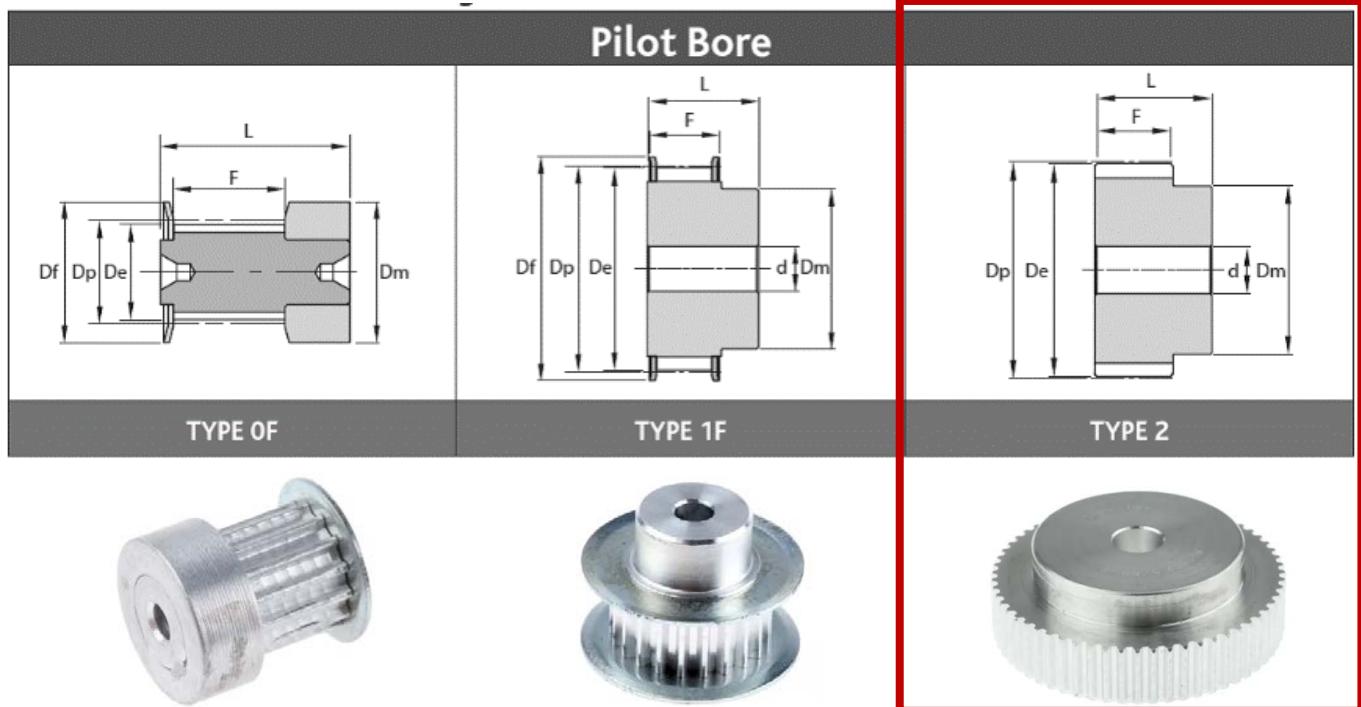
*Dimensions below in mm

Bore (d) H8 Limits
Dimensional Tolerances +/- 1mm

RS Article	MPN	Type	Number of Teeth	De	Dp	Df	Dm	F	L	Bore (d)	Max Bore	No. Flanges
2864525	16T2.5/18-2	1F	18	13.80	14.32	17.5	10	10	16	4	7	2
2864531	16T2.5/19-2	1F	19	14.60	15.12	20	10	10	16	4	8	2
2864547	16T2.5/20-2	1F	20	15.40	15.92	20	11	10	16	4	9	2
744514	16T2.5/22-2	1F	22	17.00	17.51	22	11	10	16	4	10	2
2864553	16T2.5/24-2	1F	24	18.55	19.10	22	12	10	16	4	11	2
2864575	16T2.5/25-2	1F	25	19.35	19.89	25	13	10	16	4	12	2
744520	16T2.5/28-2	1F	28	21.75	22.28	26	14	10	16	4	13	2
2864581	16T2.5/30-2	1F	30	23.35	23.87	26	16	10	16	6	15	2
744536	16T2.5/32-2	1F	32	24.95	25.46	32	16	10	16	6	16	2
2864597	16T2.5/36-2	1F	36	28.10	28.65	36	20	10	16	6	20	2
2864604	16T2.5/40-2	1F	40	31.30	31.83	38	22	10	16	6	23	2

See next page for Type 2

Belt Pulleys



Key to Standard Diagram	
D _e	External diameter of teeth
D _p	Pitch diameter
D _f	Flange diameter
D _m	Hub diameter
F	Width over flanges
L	Overall width (or length through bore)
d	Bore diameter

*Dimensions below in mm

Bore (d) H8 Limits
Dimensional Tolerances +/- 1mm

RS Article	MPN	Type	Number of Teeth	De	Dp	Df	Dm	F	L	Bore (d)	Max Bore	No. Flanges
744542	16T2.5/48-2	2	48	37.70	38.20	-	26	10	16	6	27	0
744558	16T2.5/60-2	2	60	47.25	47.75	-	34	10	16	8	35	0