

# Tensioning Systems



## Pilgrims hydraulic bolt tensioners for hydraulically installed bolts

Specially designed installation kits with over 30 years experience for hydraulically tensioned bolts such as Pilgrims Radial Fit bolt or Clamp Bolt. When designing the bolt tensioning kit there are a number of factors taken into consideration, such as working pressures ease of operation, available working space and access, optimised kit with potential adjustable setting bridges



### Bolt Tensioning Kit:

- Tensioning bridge
- Puller extension piece (for Compact bolt design)
- Setting bridge (Adjustable as an option)
- Hydraulic Head
- Tommy bar
- Removal bridge
- Reaction tool
- Mandrel (for sleeve final dimension machining)
- Nut rotating ring (recessed nuts only)
- Spare seals
- Oil injection adapter

### Features

- \* Optimised Puller design for fully safe operation
- \* Full Material traceability
- \* CE marked Hydraulic head
- \* Permanent Anti-rust treatment on all components
- \* Crocell coating all items for long term storage
- \* Oil Injector hardened lens ring for long lasting sealing
- \* Operator manuals provided
- \* Hardened and ground Mandrel for durability
- \* Ergonomically designed reaction tool
- \* Lightweight Storage box with engineered foam inter to ensure safe keeping and traceability of kit
  - \* Metal storage box (option)
  - \* Identification details on storage box



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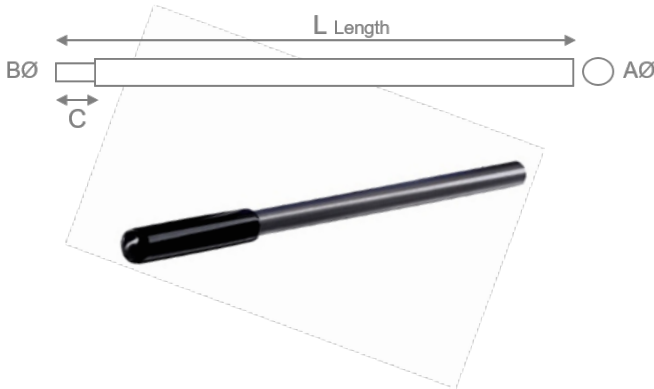
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## Accessory: Tommy Bar

Pilgrim provide a range of H9600 Tommy Bars made from Silver Steel for durable and long lasting use to support the safe installation and removal of Pilgrim's tensioning range of products.

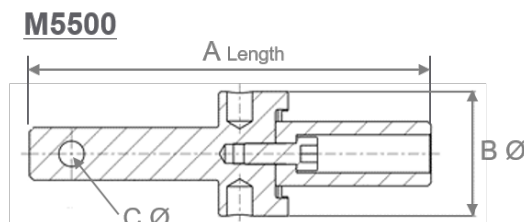
These products are provided with the original bolt tensioning kits, however if additional are required these can be purchased separately



Part Number	Length L (mm)	Diameter Ø A (mm)	Length C (mm)	Diameter Ø B (mm)
H9600/1	160.0	6.0	-	-
H9600/2	160.0	8.0	-	-
H9600/3	160.0	10.0	-	-
H9600/4	190.0	12.0	-	-
H9600/5	190.0	14.0	-	-
H9600/6	190.0	16.0	-	-
H9600/7	190.0	20.0	-	-
H9600/8	190.0	12.0	11.7	7.80
H9600/9	190.0	24.8	-	-
H9600/10	-	-	-	-
H9600/11	300.0	24.0	-	-
H9600/12	350.0	31.0	-	-
H9600/13	400.0	37.0	-	-
H9600/14	500.0	43.0	7.5	5.0
H9600/15	160.0	6.0	-	-

## Accessory: Reaction Tools

With the operator in mind, The M5500 Reaction Tool is an ergonomically designed tool to aid the safe installation / removal by stopping the rotation of the hydraulically installed bolts while screwing and unscrewing the extension piece better known as a Puller.



### H9746



Part Number	Corresponding Bolt Size (Thread)	Length A (mm)	Diameter Ø B (mm)	Hole C Ø (mm)
M5500_33	M33	145.0	28.70	10.10
M5500_36	M36	155.0	31.70	10.10
M5500_42	M42	158.0	38.25	10.10
M5500_45	M45	160.0	41.25	10.10
M5500_48	M48	161.0	44.25	10.10
M5500_52	M52	170.0	47.00	10.10
M5500_56	M56	169.0	51.00	12.10
M5500_60	M60	191.0	55.00	12.10
M5500_64	M64	194.0	59.00	12.10
M5500_68	M68	197.0	63.00	12.10
M5500_72	M72	199.0	67.00	12.10
M5500_76	M76	207.0	71.00	12.10
M5500_80	M80	226.0	74.00	12.10
M5500_85	M85	230.0	80.00	14.10
M5500_90	M90	232.0	85.00	14.10
H9746	All	225.0	10.00 Sq	N/A