

SKF Hydraulic & Strong Back Pullers



SKF Hydraulic Jaw Puller



Effortless bearing dismounting up to 100 kN

SKF Hydraulic Jaw Puller Kit TMHP 10E

- A versatile kit with three different arm lengths is suitable for a wide range of applications
- Hydraulic spindle facilitates effortless dismounting
- Self-locking arms minimise the risk of the puller slipping from the application when under load
- The spring-loaded centre point of the hydraulic spindle allows easy puller centring
- The hydraulic spindle is equipped with a safety valve, which minimises the risk of puller overload
- High load rating of 100 kN (11.2 US ton) makes the puller suitable for a variety of dismounting jobs
- A hydraulic spindle stroke of 80 mm (3.1 in.) helps facilitate dismounting in one operation
- Supplied with hydraulic spindle extension pieces to allow quick adaptation to pulling length

Technical data – TMHP 10E



Designation

TMHP 10E

Contents
 1 × arm-assembly stand
 3 × arms, 110 mm (4.3 in.)
 3 × arms, 160 mm (6.3 in.)
 3 × arms, 200 mm (7.9 in.)
 1 × hydraulic spindle TMHS 100
 3 × extension pieces for hydraulic spindle;
 50, 100, 150 mm (2, 4, 6 in.)
 1 × nosepiece with centre point for hydraulic spindle

| | |
|------------------------------|--|
| Maximum stroke | 80 mm (3.1 in.) |
| Threading hydraulic cylinder | 1 1/2-16 UN |
| Nominal working force | 100 kN (11.2 US ton) |
| Carrying case dimensions | 578 × 410 × 70 mm (23 × 16 × 2.8 in.) |
| Weight | 14,5 kg (32 lb) |

Arm set 1 (3 × TMHP10E-10)

| | | |
|-----------------------|-----------|---------------|
| Effective arms length | 115 mm | (4.5 in.) |
| Width of grip | 75–170 mm | (3.0–6.7 in.) |
| Claw height | 6 mm | (0.2 in.) |

Arm set 2 (3 × TMHP10E-11)

| | | |
|-----------------------|-----------|---------------|
| Effective arms length | 160 mm | (6.3 in.) |
| Width of grip | 80–250 mm | (3.1–9.8 in.) |
| Claw height | 7 mm | (0.28 in.) |

Arm set 3 (3 × TMHP10E-12)

| | | |
|-----------------------|------------|--------------|
| Effective arms length | 200 mm | (7.9 in.) |
| Width of grip | 110–280 mm | (4.3–11 in.) |
| Claw height | 7 mm | (0.28 in.) |

SKF Strong Back Pullers

Easy bearing dismounting even in the tightest spaces

SKF Strong Back Pullers TMBS E series

The SKF TMBS E strong back pullers facilitate dismounting of bearings in applications where the use of traditional jaw pullers is restricted due to lack of space or where the application demands a long reach.



- Special separator design allows the puller to be easily inserted between the bearing and the shoulder on the shaft
- The spring-loaded centre point of the hydraulic spindle allows easy puller centring
- The firm grip behind the bearing's inner ring reduces the force required to dismount the bearing
- The hydraulic spindle is equipped with a safety valve, which minimises the risk of puller overload
- A hydraulic spindle stroke of 80 mm (3.1 in.) helps facilitate dismounting in one operation
- SKF TMBS 50E is equipped with a mechanical spindle for force generation
- SKF TMBS 100E and the SKF TMBS 150E are equipped with a hydraulic spindle, which allows for easy application of force up to 100 kN (11.2 US ton)
- Supplied with hydraulic spindle extension pieces to allow quick adaptation to pulling length
- SKF TMBS 100E and SKF TMBS 150E are supplied with extension rods to allow quick adaptation to pulling lengths upto 816 mm (32.1 in.)

Selection chart

| Designation | Shaft diameter | | Maximum bearing outer diameter | | Maximum reach | |
|-------------|----------------|---------|--------------------------------|-----|---------------|----------|
| | mm | in. | mm | in. | mm | in. |
| TMBS 50E | 7–50 | 0.3–1.9 | 85 | 3.3 | 110 | 4.3 |
| TMBS 100E | 20–100 | 0.8–3.9 | 160 | 6.3 | 120–816 | 4.7–32.1 |
| TMBS 150E | 35–150 | 1.4–5.9 | 215 | 8.5 | 120–816 | 4.7–32.1 |
| TMHC 110E | 20–100 | 0.8–3.9 | 160 | 6.3 | 120–245 | 4.7–9.6 |



Powerful combination of a jaw and strong back puller

SKF Hydraulic Puller Kit TMHC 110E

- SKF TMHC 110E hydraulic puller kit combines a jaw puller and a strong back puller
- A versatile puller kit facilitates safe and easy dismounting in a variety of applications
- Hydraulic spindle facilitates easy and quick dismounting
- High load rating of 100 kN (11.2 US ton)
- The strong back puller includes two different arm lengths for maximum reach of 115 mm (4.5 in.)
- The jaw puller can be assembled as a three-arm or two-arm puller depending on the space and demands of the application
- The firm grip of the strong back puller behind the bearing's inner ring reduces the force required to dismount the bearing
- Supplied with extension rods to allow quick adaptation to pulling lengths upto 245 mm (9.6 in.)

Technical data – TMBS E series



| Designation | TMBS 50E | TMBS 100E | TMBS 150E |
|------------------------------|--|---|---|
| Contents | 1 × separator set 1 × mechanical spindle 1 × beam 2 × main rods | 1 × separator set 2 × main rods 2 × extension rods, 125 mm (4.9 in.) 4 × extension rods, 285 mm (11.2 in.) 1 × beam 1 × hydraulic spindle TMHS 100 2 × extension pieces for hydraulic spindle; 50, 100 mm (2.0, 3.9 in.) 1 × nosepiece with centre point for hydraulic spindle | 1 × separator set 2 × main rods 2 × extension rods, 125 mm (4.9 in.) 4 × extension rods, 285 mm (11.2 in.) 1 × beam 1 × hydraulic spindle TMHS 100 2 × extension pieces for hydraulic spindle; 50, 100 mm (2.0, 3.9 in.) 1 × nosepiece with centre point for hydraulic spindle |
| Maximum stroke | – | 80 mm (3.1 in.) | 80 mm (3.1 in.) |
| Nominal working force | 30 kN (3.4 US ton) | 100 kN (11.2 US ton) | 100 kN (11.2 US ton) |
| Maximum reach | 110 mm (4.3 in.) | 120–816 mm (4.7–31.1 in.) | 120–816 mm (4.7–31.1 in.) |
| Shaft diameter range | 7–50 mm (0.3–2 in.) | 20–100 mm (0.8–4 in.) | 35–150 mm (1.4–6 in.) |
| Threading hydraulic cylinder | – | 1 1/2-16 UN | 1 1/2-16 UN |
| Carrying case dimensions | 295 × 190 × 55 mm (11.6 × 7.5 × 2 in.) | 580 × 410 × 70 mm (23 × 16 × 2.8 in.) | 580 × 410 × 70 mm (23 × 16 × 2.8 in.) |
| Weight | 1,8 kg (4 lb) | 13,5 kg (29.8 lb) | 17 kg (37.5 lb) |

Technical data – TMHC 110E



| Designation | TMHC 110E | | |
|------------------------------|---|------------------------------------|-------------------------|
| Contents | 1 × arm–assembly stand 3 × arms, 60 mm (2.4 in.) 3 × arms, 120 mm (4.7 in.) 1 × separator set 1 × beam 2 × main rods 2 × extension rods, 125 mm (4.9 in.) 1 × hydraulic spindle TMHS 100 2 × extension pieces for hydraulic spindle; 50, 100 mm (2.0, 3.9 in.) 1 × nosepiece with centre point for hydraulic spindle | Arms set 1 (3 × TMHP10E-9) | |
| Maximum stroke | 80 mm (3.1 in.) | Effective arms length | 65 mm (2.6 in.) |
| Nominal working force | 100 kN (11.2 US ton) | Width of grip | 50–110 mm (2–4.3 in.) |
| Threading hydraulic cylinder | 1 1/2-16 UN | Claw height | 6 mm (0.2 in.) |
| Carrying case dimensions | 580 × 410 × 70 mm (23 × 16 × 2.8 in.) | Arms set 2 (3 × TMHP10E-10) | |
| Weight | 13,5 kg (29.8 lb) | Effective arms length | 115 mm (4.5 in.) |
| | | Width of grip | 75–170 mm (3.0–6.7 in.) |
| | | Claw height | 6 mm |
| | | Strong back puller | |
| | | Maximum reach | 250 mm (9.8 in.) |
| | | Shaft diameter range | 20–100 mm (0.8–4 in.) |

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