# 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<br>3 × arms, 110 mm *(4.3 in.)*<br>3 × arms, 160 mm *(6.3 in.)*<br>3 × arms, 200 mm *(7.9 in.)*<br>1 × hydraulic spindle TMHS 100<br>3 × extension pieces for hydraulic spindle; 50, 100, 150 mm *(2, 4, 6 in.)*<br>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<br>1 × mechanical spindle<br>1 × beam<br>2 × main rods | 1 × separator set<br>2 × main rods<br>2 × extension rods, 125 mm *(4.9 in.)*<br>4 × extension rods, 285 mm *(11.2 in.)*<br>1 × beam<br>1 × hydraulic spindle TMHS 100<br>2 × extension pieces for hydraulic spindle; 50, 100 mm *(2.0, 3.9 in.)*<br>1 × nosepiece with centre point for hydraulic spindle | 1 × separator set<br>2 × main rods<br>2 × extension rods, 125 mm *(4.9 in.)*<br>4 × extension rods, 285 mm *(11.2 in.)*<br>1 × beam<br>1 × hydraulic spindle TMHS 100<br>2 × extension pieces for hydraulic spindle; 50, 100 mm *(2.0, 3.9 in.)*<br>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<br>3 × arms, 60 mm *(2.4 in.)*<br>3 × arms, 120 mm *(4.7 in.)*<br>1 × separator set<br>1 × beam<br>2 × main rods<br>2 × extension rods, 125 mm *(4.9 in.)*<br>1 × hydraulic spindle TMHS 100<br>2 × extension pieces for hydraulic spindle; 50, 100 mm *(2.0, 3.9 in.)*<br>1 × nosepiece with centre point for hydraulic spindle |
| Maximum stroke | 80 mm *(3.1 in.)* |
| Nominal working force | 100 kN *(11.2 US ton)* |
| Threading hydraulic cylinder | 1 1/2-16 UN |
| Carrying case dimensions | 580 × 410 × 70 mm *(23 × 16 × 2.8 in.)* |
| Weight | 13,5 kg *(29.8 lb)* |

| | | |
|---|---|---|
| **Arms set 1 (3 × TMHP10E-9)** | | |
| Effective arms length | 65 mm | *(2.6 in.)* |
| Width of grip | 50–110 mm | *(2–4.3 in.)* |
| Claw height | 6 mm | *(0.2 in.)* |
| **Arms set 2 (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 | |
| **Strong back puller** | | |
| Maximum reach | 250 mm | *(9.8 in.)* |
| Shaft diameter range | 20–100 mm | *(0.8–4 in.)* |

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