

# Mechanical tools

## SKF Blind housing pullers

The SKF Deep Groove Ball Bearing Puller Kit TMMD 100 allows quick and easy dismantling of SKF Deep Groove Ball Bearings with an interference fit on both rings.

The SKF Blind Housing Puller Kit TMBP 20E is an adapter type puller for dismantling deep groove ball bearings in blind housings with shaft dimensions between 30 mm and 160 mm (1.18–6.3 in.). The use of extension rods allows a long reach of up to 547 mm (21.5 in.).

### Selection chart

Designation	Bearing bore diameter (d)	Effective arm length
TMBP 20E	30–160 mm (1.2–6.3 in.)	547 mm (21.5 in.)
TMMD 100	10–100 mm (0.4–3.9 in.)	135–170 mm (5.3–6.7 in.)



Removes bearing without dismantling machinery

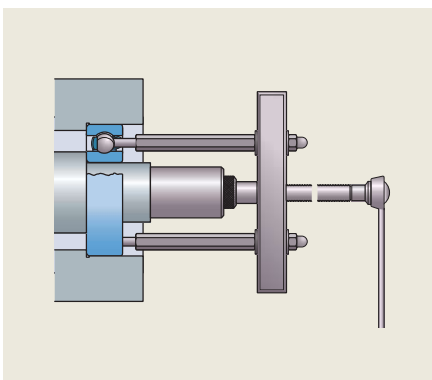
### SKF Blind Housing Puller Kit TMBP 20E

- Allows a wide range of deep groove ball bearings to be dismantled
- Ball adapters designed for a long service life
- Extension rods allow a reach of up to 583 mm (23 in.)
- Spanner stop function on spindle for easy and safe handling
- Self-locking nose piece helps minimise damage to shaft, and improves puller stability
- Supplied in a sturdy carrying case

### Suitability chart

SKF TMBP 20E is suitable for dismantling the following deep groove ball bearings

60.. series	62.. series	63.. series	64.. series	16... series
6021–6032	6213–6230	6309–6320	6406–6418	16026–16032



### Technical data

Designation	TMBP 20E
Kit contents	6 adapters sizes (2 pcs each), 2 main rods (with nut support rings and nuts) 4 extension rods, Spindle, Spindle nose piece, Beam
Effective arm length	147–547 mm (5.8–21.5 in.)
Maximum pulling force	55 kN (6.2 US ton)
Carrying case dimensions	530 × 85 × 180 mm (20.9 × 3.4 × 7.0 in.)
Weight	6,5 kg (14.3 lb)





Optimised puller claw design firmly grips the outer raceway of SKF bearings, without the need of removing the bearing cage.



The rubber cap allows easy and quick attachment of the arms to the spindle. It also prevents the puller arms from detaching from the spindle during operation

## Easy dismounting of bearings in blind housings

### SKF Deep Groove Ball Bearing Puller Kit TMMD 100

The puller is suitable for use in both blind housings and shaft applications. The SKF TMMD 100 is suitable for dismounting up to 71 different SKF deep groove ball bearings, with shaft diameters ranging between 10 and 100 mm (0.4–3.9 in.).

- The claws are designed to precisely fit in the bearing's raceway, providing a good grip, thereby allowing high dismounting forces
- Each puller arm is fitted with a spring for easy installation
- The claw has been designed to allow easy insertion
- The hexagon head of the spindle is designed to prevent the spanner sliding down the spindle during dismounting
- The puller can also be used to remove sealed bearings from blind housings, after the seal has been removed
- Supplied in a sturdy carrying case

#### Suitability chart

The SKF TMMD 100 suits the following bearing series and sizes:

Bearing designation	Shaft diameter	
6000–6020	10–100 mm	(0.4–3.9 in.)
6200–6218	10–90 mm	(0.4–3.5 in.)
6300–6313	10–65 mm	(0.4–2.6 in.)
6403–6410	17–50 mm	(0.7–2.0 in.)
62/22, 62/28, 63/22, 63/28	22, 28, 22, 28 mm	(0.9, 1.1, 0.9, 1.1 in.)
16002, 16003, 16011	15, 17, 55 mm	(0.6, 0.7, 2.2 in.)
16100, 16101	10, 12 mm	(0.4, 0.5 in.)

#### Technical data

Designation	TMMD 100
Kit contents	3 × puller arm A1 3 × puller arm A2 3 × puller arm A3 3 × puller arm A4 3 × puller arm A5 3 × puller arm A6 2 × spindle and nut, 1 × handle
Effective arm length	135–170 mm (5.3–5.7 in.)
Carrying case dimensions	530 × 85 × 180 mm (20.9 × 3.4 × 7.0 in.)
Weight	3,6 kg (7.9 lb)



# Mechanical tools

## Internal pullers

The SKF Internal Bearing Puller Kits are designed for dismantling bearings from housings, where the fit is on the outer ring. The pullers are constructed for optimum strength and durability and suit a wide range of bearing bore diameters. A sliding hammer allows high impact forces to be applied and is ergonomically designed to enhance user safety.

Fast and easy bearing dismantling from housings

### SKF Internal Bearing Puller Kits TMIP and TMIC series



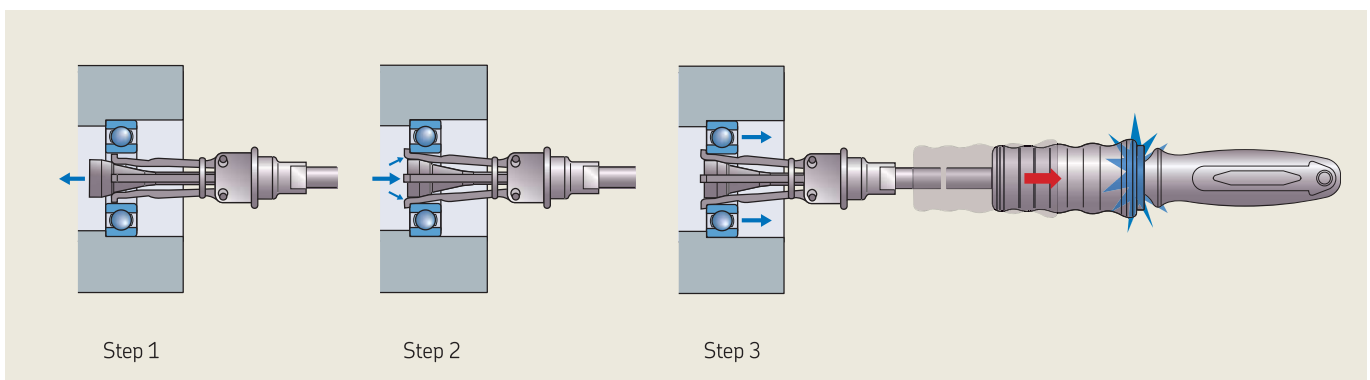
**TMIP series**

- Unique SKF design can reduce dismantling time
- Unlike most internal bearing pullers, the spring loaded extractors can be quickly and easily fitted to the inner ring in just one quick action
- Claw design provides a strong and secure grip behind the inner ring allowing a high puller force to be applied
- Two different kits to suit bearing bores between 7–28 mm and 30–60 mm





**TMIC series**

- Expandable collet design made of high strength materials
- Designed for applications with only a limited space to grip behind the bearing
- Suit bearing bores between 7–28 mm

Supplied in a sturdy carrying case



## Selection chart

Extractor	Bearing bore diameter	Bearing DGBB	   		
			SABB	ACBB	SRB
TMIC C7-8	7–8 mm	607–638, 618/7–638/8	127–108	–	–
TMIC C10-12	10–12 mm	6000–6301, 16000–16101, 61800–61801	1200–2301	3200–5201	–
TMIC C12-15	12–15 mm	6001–6302, 16101–16902, 61801–61902	1201–2301	3201–3202	–
TMIC C17-20	17–20 mm	6003–6404, 16003–16004, 61803–61904	1203–2304	3203–3204	22205/20
TMIC C22-28	22–28 mm	6005–6405, 16005, 61805–62205, 62/22–63/28	1205–2305	3205–3305	22205–21305
TMIP E7-9	7–9 mm	607–629, 618/7–619/9, 627–628/8	127–129	–	–
TMIP E10-12	10–12 mm	6000–6301, 16000–16101, 61800–61801	1200–2301	3200–5201	–
TMIP E15-17	15–17 mm	6002–6403, 16002–16003, 61802–61903	1202–2303	3202–3303	–
TMIP E20-28	20–28 mm	6004–6405, 16004–16005, 62/22–63/28	1204–2305	3204–3305	22205/20–21305
TMIP E30-40	30–40 mm	6006–6408, 16006–16008, 61806–61908	1206–2308	3206–5408	22206–22308
TMIP E45-60	45–60 mm	6009–6412, 16009–16012, 61809–61912	1209–1412	3209–5412	22209–22312

The above tables only show a selection of popular bearings that can be dismounted using SKF Internal Pullers. There may be other bearings that can also be removed using the SKFTMIP or TMIC pullers.



### Technical data – extractors

size	Maximum bearing width		Space behind bearing		Housing depth	
	mm	in.	mm	in.	mm	in.
<b>TMIC 7–28</b>						
TMIC C7-8	13,3	0.5	3	0.12	54	2.1
TMIC C10-12	46,5	1.8	3	0.12	56	2.2
TMIC C12-15	54	2.1	4	0.16	62	2.4
TMIC C17-20	59	2.3	5,3	0.21	70	2.8
TMIC C22-28	90	3.5	6,7	0.26	90	3.5
<b>TMIP 7–28</b>						
TMIP E7-9	10	0.4	6	0.24	39	1.5
TMIP E10-12	11	0.4	6	0.24	45	1.8
TMIP E15-17	18	0.7	7,5	0.29	55	2.2
TMIP E20-28	24	0.9	10	0.4	60	2.4
<b>TMIP 30–60</b>						
TMIP E30-40	>35	>1.4	11,5	0.45	97	3.8
TMIP E45-60	>64	>2.5	15	0.6	102	4.0



### Technical data

Designation	TMIC 7–28	TMIP 7–28	TMIP 30–60
Bearing bore diameter	7–28 mm (0.28–1.1 in.)	7–28 mm (0.28–1.1 in.)	30–60 mm (1.2–2.4 in.)
Total sliding hammer length	417 mm (16.4 in.)	417 mm (16.4 in.)	557 mm (21.9 in.)
Carrying case dimensions	530 × 85 × 180 mm (20.9 × 3.4 × 7.0 in.)	530 × 85 × 180 mm (20.9 × 3.4 × 7.0 in.)	530 × 85 × 180 mm (20.9 × 3.4 × 7.0 in.)
Weight	3,0 kg (6.6 lb)	3,1 kg (6.8 lb)	5,4 kg (11.9 lb)