

THE COMPLETE RANGE OF TOOLS FOR MOUNTING, DISMOUNTING AND CHECKING OF ROTATING EQUIPMENT, IN MAINTENANCE AND PRODUCTION



# BETEX

## IMPACT Fitting tool set

For safe, precise and quick mounting of bearings, bushings, sealing rings, cam wheels and pulleys the use of an **Impact** fitting tool set is an absolute necessity.

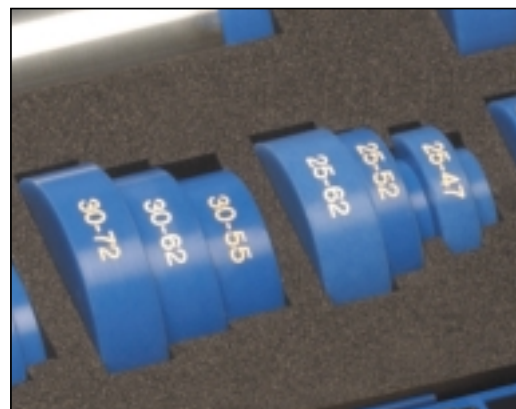
Specially for bearings it is important that during mechanical mounting the bearing is supported on its inner and outer ring in order to avoid unnecessary damage and premature failure. In this way mounting forces are not transmitted via balls or rollers of the bearings and hence the raceways are not damaged.

By using the impact resistant plastic collets, made of unbreakable sheet material (instead of easily breaking injection moulded collets), metal to metal contact is avoided and also damaging of the shaft.

The sets can be used for bore diameters of 10 to 50 mm or parts thereof. **Impact** is also suitable for safe, precise and quick mounting of other machine parts, like bushings, sealing rings, cam wheels and pulleys.



- Suitable for total 225 bearings
- Quick, precise and safe mounting
- No more damage to shafts, bearing houses or sealing rings
- Extended life cycle of bearings













Collets are marked clearly in order to avoid mistakes.



### TECHNICAL DATA

Impact collet:	bore 10-50 mm, outside diameter 26-110 mm
Impact sleeve:	bore 18, 32, 52 mm
Hammer:	mass 0,7 kg absorbs shock and vibration rubber grip for good handling
Dimensions case:	430 x 320 x 100 mm
Mass:	4,8 kg

		 Series 60 62 63 64	 Series 12 22 13 23	 Series 72 B 73 B	 Series 32 33	 Series 222 213 223	 Series NU-NJ-N 2 3 4	 Series 302 322 303	 Series 313 323
<b>A</b>	10- 26 10- 30 10- 35	6000 6200 6300	129 1200 2200 1300		3200				
	12- 28 12- 32 12- 37	6001 6201 6301	1201 2201 1301 2301		3201				
	15- 32 15- 35 15- 42	6002 6202 6302	1202 2202 1302 2302	7202 B	3202 3302			30302	
	17- 35 17- 40 17- 47	6003 6203 6303	1203 2203 1303 2303	7203 B 7303 B	3203 3303			30203 30303	
	20- 42 20- 47 20- 52	6004 6204 2204 6304 6403	1204 1304 2304	7204 B 7304 B	3204 3304	21304	204 304	30304	32304
<b>B</b>	25- 47 25- 52 25- 62	6005 6205 6305 6404	1205 2205 1305 2305	7205 B 7305 B	3205 3305	22205 21305	205 305	30205 30305	31305 32305
	30- 55 30- 62 30- 72	6006 6206 6306 6405	1206 2206 1306 2306	7206 B 7306 B	3206 3306	22206 21306	206 306 405	30206 32206 30306	31306 32306
	35- 62 35- 72 35- 80	6007 6207 6307 6406	1207 2207 1307 2307	7207 B 7307 B	3207 3307	22207 21307	207 307 406	30207 32207 30307	31307 32307
	40- 68 40- 80 40- 90	6008 6208 6308 6407	1208 1308 2308	7208 B 7308 B	3208 3308	22208 21308 22308	208 308 407	30208 30308	31308 32308
<b>C</b>	45- 75 45- 85 45-100	6009 6209 6309 6408	1209 2209 1309 2309	7209 B 7309 B	3209 3309	22209 21309 22309	209 309 408	30209 32209 30309	31309 32309
	50- 80 50- 90 50-110	6010 6210 6310 6409	1210 2210 1310 2310	7210 B 7310 B	3210 3310	22210 21310 22310	210 310 409	30210 32210 30310	31310 32310
	50- 90 45-100 50-110	6011 6012 6013 6211 6014 6015 6212 6213 6311 6410	1211 2211 1212 1213 2212 2213 1311 2311	7211 B 7212 B 7213 B 7311 B	3211 3212 3213 3311	22211 22212 22213 21311 22311	211 212 213 311 410		

Impact rings 50-90, 45-100 and 50-110 also fit the following bearings when only the outer ring is fitted in the bearing house, without a shaft.

<b>C</b>	50- 90	6011 6012							
	45-100	6013 6211	1211 2211	7211 B	3211	22211	211		
	50-110	6014 6015 6212 6213 6311 6410	1212 1213 2212 2213 1311 2311	7212 B 7213 B 7311 B	3212 3213 3311	22212 22213 21311 22311	212 213 311 410		



## MOBILE HYDRAULIC PULLERS FOR HEAVY DUTY: FROM 25 TO 100 TONS!



Mobipuller, 25 or 50 tons cap. ▲  
Enforcer, 100 tons cap. (2 arm) ▲  
Enforcer, 55 tons cap. (3 arm) ▲



### NEW! MECHANICAL 3-ARM PULLERS

**PRACTICAL!** Self centering three arm puller with self-locking system.

**SAFE!** The tree arms adjust themselves simultaneously and symmetrically, inwards or outwards. Self-locking system guarantees that arms will not bend or deflect.

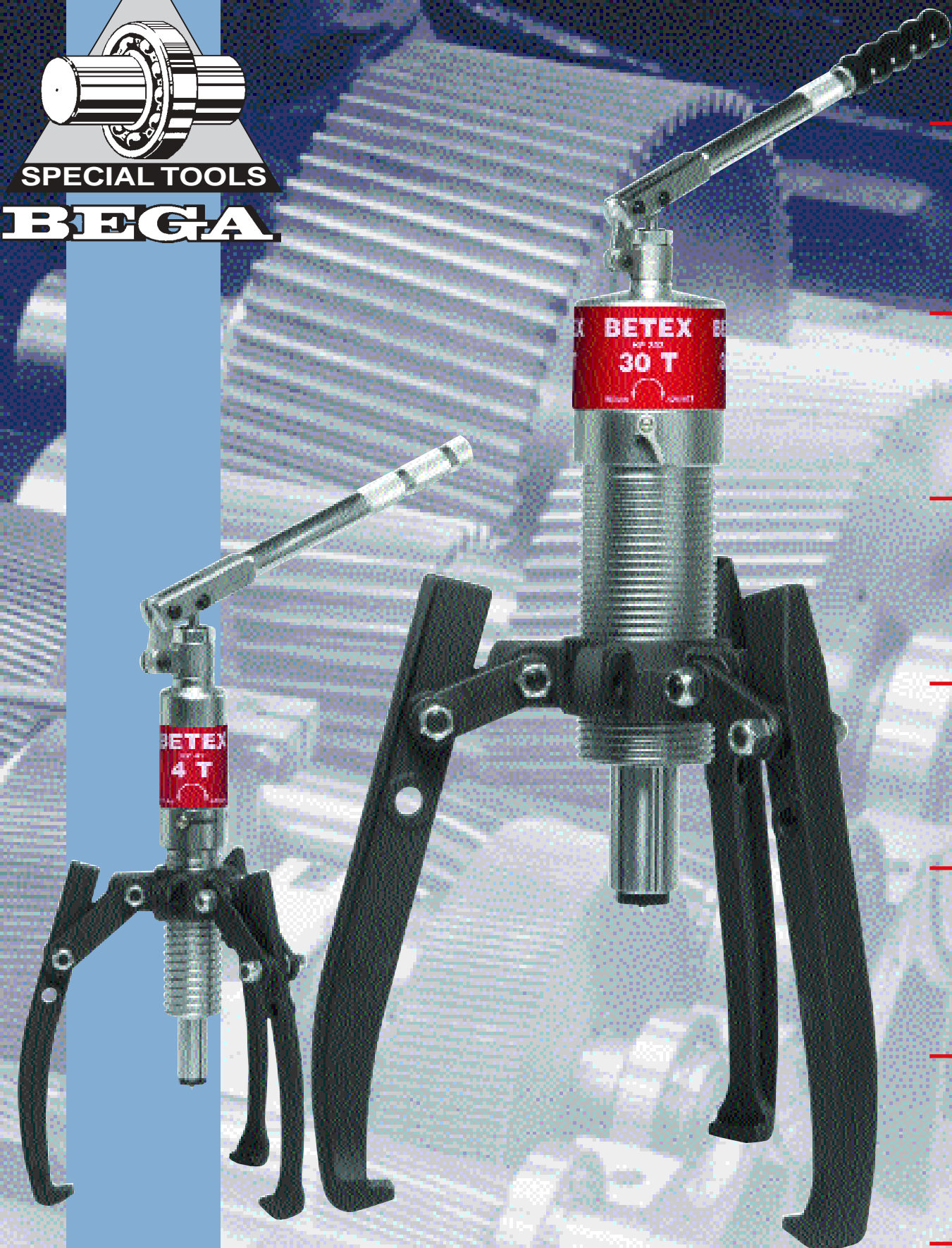
**STRONG!** The harder the force, the tighter the grip of the jaws.

Type	Min/max reach mm	Min/max spread mm	Max. cap. tons	Weight kg
MP 110	40/75	30/110	2	1,5
MP 250	120/160	60/260	4	4,0
MP 370	140/230	100/370	6	9,0



# HP HYDRAULIC PULLERS: 4-100 TONS

IMPROVED RANGE WITH LONGER STROKE



# BETEX HP COMPACT HYDRAULIC PULLERS WITH INTEGRATED PUMP AND CYLINDER.

NO SEPARATE PUMP, CYLINDER, HOSE AND PULLER, BUT ONE COMPACT LIGHT WEIGHT PULLER.

**MULTIFUNCTIONAL:** these HP-pullers are ideal for pulling a wide variety of parts, including bearings, bushings, wheels, gears and pulleys. Applications for HP-pullers will be found in motor repair shops, service companies, maintenance shops, industry, mining, paper mills, chemical plants, shipping, offshore, etc.

**COMPACT:** the self contained hydraulic pump and cylinder save space, as you don't need a separate pump, hose or puller.

**STRONG:** the harder the force, the tighter the grip of the jaws.

**ECONOMICAL:** 2/3-arm combination puller, 2 pullers for the price of one, including integrated pump and cylinder!

**SAFE:** the improved integral safety release valve prevents overloading and ensures that you will never exceed the maximum power capacity.

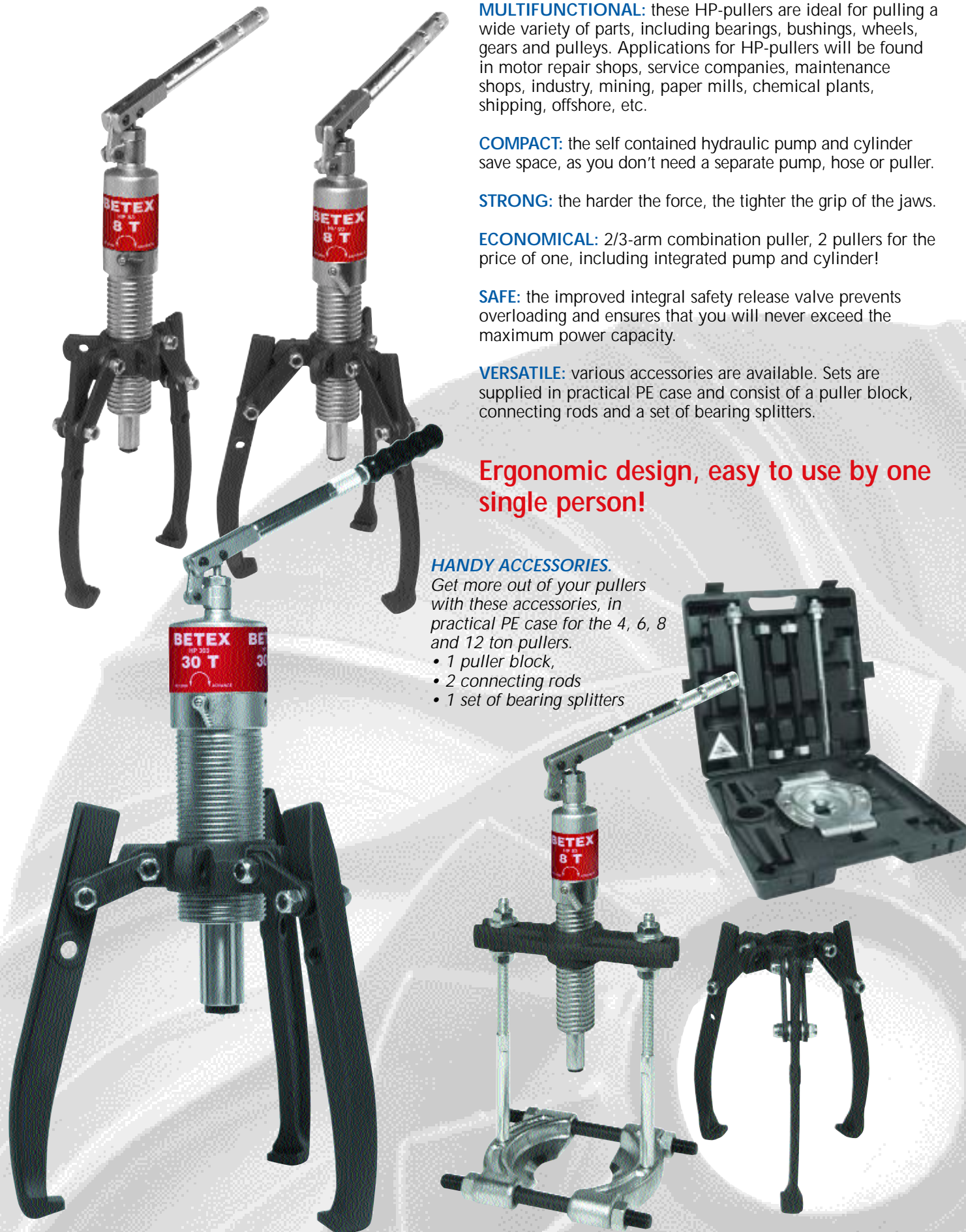
**VERSATILE:** various accessories are available. Sets are supplied in practical PE case and consist of a puller block, connecting rods and a set of bearing splitters.

**Ergonomic design, easy to use by one single person!**

### HANDY ACCESSORIES.

Get more out of your pullers with these accessories, in practical PE case for the 4, 6, 8 and 12 ton pullers.

- 1 puller block,
- 2 connecting rods
- 1 set of bearing splitters

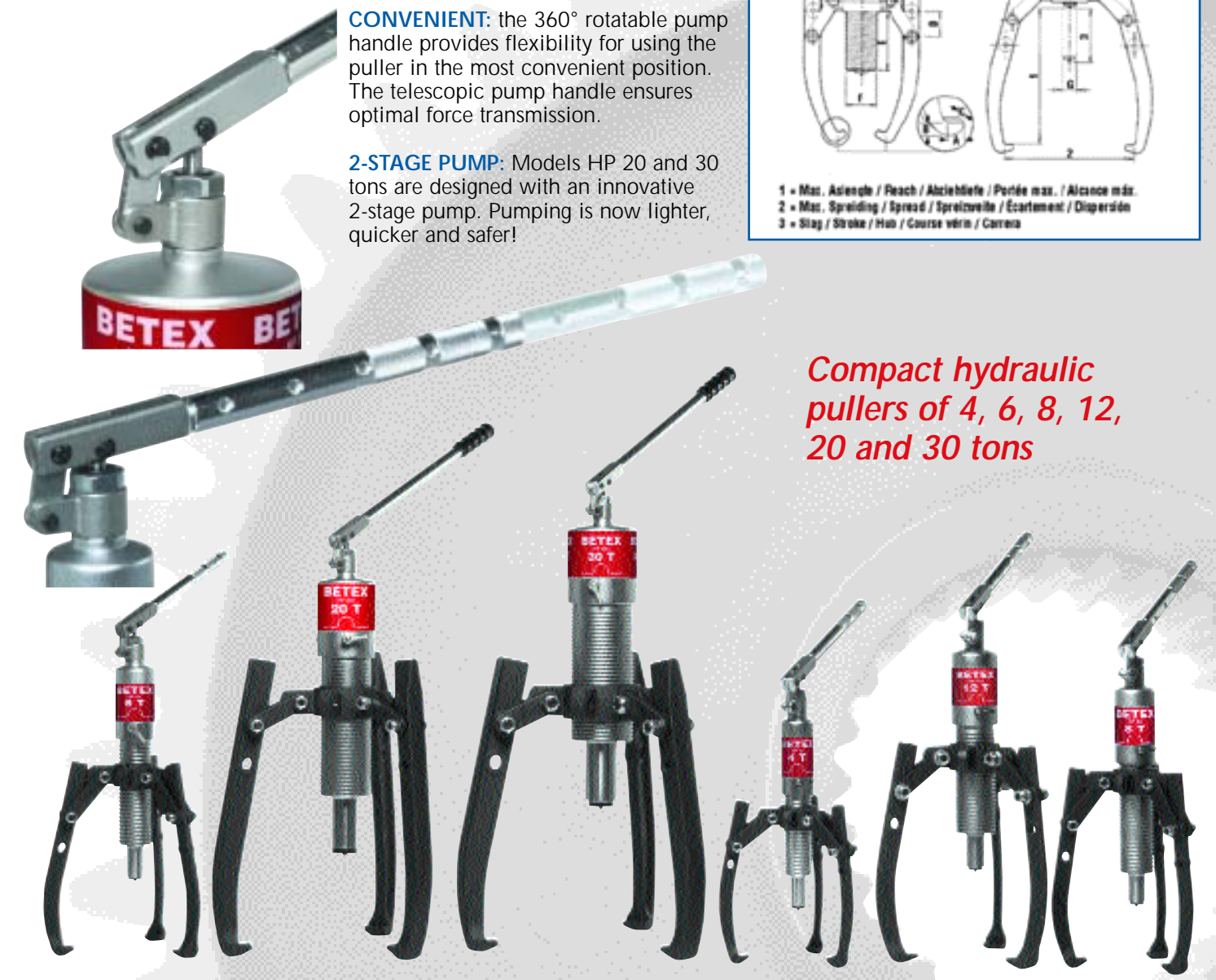
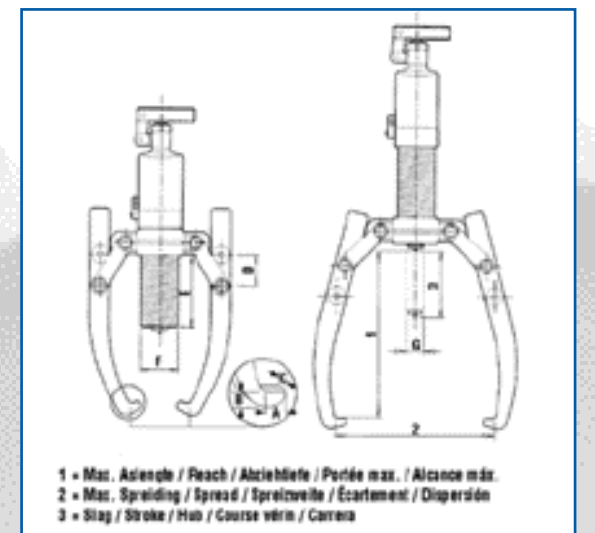


### TECHNICAL DATA

Type	Art. nr.	Cap.tons	Max. shaft length mm	Max. spread mm	Stroke mm	A	B	C	D	E	F	G	Weight kg
HP 43 *	791000	4	185	275	60	11	6	22	32	84	42	22	4.5
HP 63 *	792000	6	230	300	85	11	10	25	51	122	50	25	6.5
HP 83 *	793000	8	230	350	85	11	10	25	51	122	50	25	6.5
HP 123 *	794000	12	270	375	85	14	10	29	51	118	60	28	8.0
HP 203**	796000	20	360	520	111	20	27	33	60	161	80	40	22.0
HP 303 **	797000	30	360	550	111	20	27	38	60	155	68	50	32.0
HP 503	-	50											In development!

### ACCESSORY SETS FOR 4, 6, 8, 12 TON PULLERS

Type	Art. nr.	Shaft length mm	Min/max spread bearing splitter mm	Weight kg
Acc. Set HP 43	791100	250	Ø 25-110	8.5
Acc. Set HP 63	793100	280	Ø 50-150	12.5
Acc. Set HP 83	793100	280	Ø 50-150	12.5
Acc. Set HP 123	794100	325	Ø 80-225	18.0



**Compact hydraulic pullers of 4, 6, 8, 12, 20 and 30 tons**

**CONVENIENT:** the 360° rotatable pump handle provides flexibility for using the puller in the most convenient position. The telescopic pump handle ensures optimal force transmission.

**2-STAGE PUMP:** Models HP 20 and 30 tons are designed with an innovative 2-stage pump. Pumping is now lighter, quicker and safer!



# BETEX

## AUXILIARY TOOLS



**BETEX no. 44**  
Hydraulic 8/15 tons mini-press

When using mechanical screws, much of the force is lost as a result of the friction caused by the thread. This minipress administers a **shock** to the part which is to be extracted. This enables optimal use to be made of BETEX pullers **no. 48, 52 and 54, without** loss of force or wear and tear to screws. Note: may be used from 49-200, 52-230 and 54-300 and upwards.

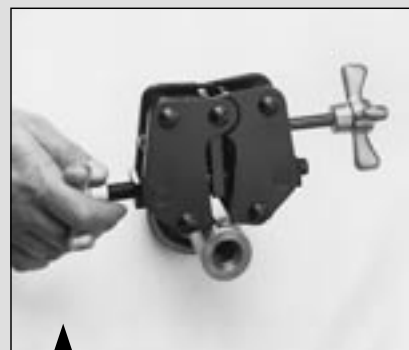
- All tools are made of high alloy steel.
- This makes them lighter and easier to handle.
- These tools are intended for **universal** and **special** applications.



**BETEX no. 625/630**  
Shaft protector sets for shaft centers and hollow shafts

These shaft protectors are indispensable between **shaft and bearing-puller** while dismantling bearings, couplings etc. There are two types: **no. 625** for protecting shaft centers and **no. 630** for hollow shafts.

Use of shaft protectors prevent distortion to the shaft centers and the screw.



**BETEX KZZ**  
Patented key-drawer

For professional removal of keys from motor shafts, pumps and all kinds of other driving shafts. The advantages of this ingenious tool are:

- Extremely rapid removal
- No damage to shafts or keys
- Shafts remain straight
- Save labour and costs
- More personal safety
- Up to 35 mm width



**BETEX no. 50**  
T-handle wrench for universal applications

These T-wrenches with internal hexagon spare your pulling tools. This model has the following advantages:

- **Lessened risk of canting or tilting** when two-arm pullers are used due to symmetrical force transmission
- Safe to use
- The hexagonal screw-heads remain undamaged

### BETEX 44 is available in 2 types

- application: heavy-duty pullers, BETEX 49-200, 52-230 en 54-300 upwards
- height: 35 mm

Type	Capacity	Stroke
44-080	8 tons	7 mm
44-150	15 tons	10 mm

### BETEX 50 is available in 5 types

Type	armlength in mm	Intended for use with BETEX no.					
		44	48&49	52	54	56	63
50-012	150	-	-	085	-	-	100
50-017	220	300	100	130	100-200	020	200/300/400
50-022	300	-	200-300	-	300-400	120-220	-
50-024	330	330	-	-	230-295	-	-
	-	-	-	394-644	500-600	-	600
50-032	525	-	400	390-640	-	-	700-800

### BETEX 625 consists of a 6-piece set

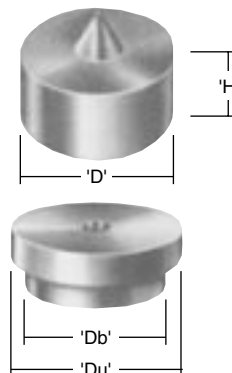
'D' min. = Ø 19mm      'H' min. = Ø 16mm  
'D' max. = Ø 38mm      'H' max. = Ø 19mm

### BETEX 630 'S' consists of a 11-piece set

'Db' min. = Ø 19mm      'Du' min. = Ø 25mm  
'Db' max. = Ø 51mm      'Du' max. = Ø 64mm

### BETEX 630 'T' consists of a 6-piece set

'Db' min. = Ø 54mm      'Du' min. = Ø 67mm  
'Db' max. = Ø 76mm      'Du' max. = Ø 89mm



### BETEX KZZ is available in 1 type

- for keys from 5 mm to 35 mm in width
- jaws are made from specially tempered steel
- screw has left and right trapezium thread



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