

**Hand-operated battery
PP and PET strapping tool**

ZAPAK ZP93 & ZP97



Technical parameters		ZAPAK ZP93	ZAPAK ZP97
Strap material		PP or PET (recommended for most of applications)	PP or PET (especially for PET straps)
Strap width	mm	9 – 16	16 & 19 *
Strap thickness	mm	0,60 – 1,27 (PP) 0,55 – 1,27 (PET)	0,75 – 1,27 (PP) 0,65 – 1,27 (PET)
Max. tightening power	N	2500	4000
Voltage		accu 18V	accu 18V
Weight (ZAPAK + battery)	kg	2,84 + 0,60	2,84 + 0,60
Qty of strapping cycles per 1 charge		440 (PET 16x1,0)	440 (PET 16x1,0)
Battery charge time	min.	30	30

* according to modification

Differences between ZP92/96 (original) a ZP93/97 (new)

	Original ZP92/ZP96	New ZP93/97	Advantages of ZP93/97
Brushless motor	2nd-Generation Motor	3rd-Generation Motor	more stable tension and tightening
Li-Ion battery	18V, 3.0Ah (Panasonic or Sanyo)	18V, 4.0Ah (Bosch)	more efficient, with charge level indicator device
Battery capacity	3000 mAh	4000 mAh	
Number of strapping cycles per charge	Approx. 300 cycles (for 16x1.0 PET)	Approx. 440 cycles (for 16x1.0 PET)	number of strapping cycles increased up to 40%, battery power consumption decreased and battery service life is prolonged
Strapping tool weight (with battery)	3,5 kg	3,4 kg	the lightest tool in the same class
Battery weight	0,66 kg	0,60 kg	
Charge level indicator device	NO	YES	battery charging control without using strapping tool or charger

Both batteries, 9280(original) and 9380(new), use the same 30 minute Bosch Charger (# 2382/XX) for battery charging. During storage, it is not necessary to fully charge new type of battery every 3 – 6 months as previous type. Only when the Charge Level Indicator shows low capacity with only one LED light, a 5-10min. charging is needed to raise the capacity up to 2 green lights.