

# Technical report

## Fitness for use

Date of issue 2012-12-12



China

Applicant: ISC GmbH International Service Center  
Eschenstraße 6, 94405 Landau/Isar, Germany

Test subject: Comparison test of jig saw Bosch PST 1000 PEL and Einhell TE-JS 100

Test specification: According to project no. 70.403.11.555.19-00 and 70.403.12.099.20-01

	Bosch PST 1000 PEL (70.403.11.555.19-00)	Einhell TE-JS 100 (70.403.12.099.20-01)
Technical data	Rated voltage: 220/230V~, 50/60Hz Rated power: 650W Speed settings: 500-3100min <sup>-1</sup>	Rated voltage: 230V~, 50Hz Rated power: 750W Speed settings: 800-3000min <sup>-1</sup>
Product overview		

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Results overview		
	Bosch PST 1000 PEL	Einhell TE-JS 100
1. Durability	++	++
2. Function	+	+
3. Handling	+	+

Possible test case verdicts	
++	Very good
+	Good
0	Satisfactory
-	Sufficient
--	Poor
N	Not applicable

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### Main test results

Test criterion	Bosch PST 1000 PEL	Einhell TE-JS 100	Remark
1. Durability			
1.1 Rating for running time	> 270 cycles (45h)/ ++	> 270 cycles (45h)/ ++	For durability-test only one sample per type was tested. Both appliances reached highest rating.
2. Function test			
2.1 Cutting performance	744mm <sup>2</sup> /s// +	812mm <sup>2</sup> /s// +	Tests were performed with provided saw blades. Both tools show good cutting performance.
2.2 Bevel angle adjustment (deviation)	+	+	Bevel angle of both tools can be adjusted adequately.
2.3 Bevel cut (deviation)	0	-	For Einhell TE-JS 100 the deviation of bevel angles and adjusted angles partially rather high (up to 3.5°).
2.4 Cutting steel	N	+	For Bosch PST 1000 PEL no steel saw blade provided for testing.
2.5 Mechanical stability of base plate and overload test	+/+	+/+	Both tools in working conditions and without conspicuous damages after test.
3. Handling, adjustment and workmanship			
3.1 Unpacking and first assembling	+	+	Only saw blades need to be installed.
3.2 Sharp edges on whole power-tool and around switch	+	+	Good workmanship for both tools.
3.3 ON/OFF switch position, operation ,	+	+	For both tools ON/OFF switches can be operated easily and can be locked from both sides of handles.

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dimension and locking function			
3.4 Installation of saw blade/ quick clamp mechanism	+	+	Both tools are provided with quick clamp mechanism and saw blades can be replaced easily.
3.5 Protection hood/ dust cover fixation, access of blade and transparency	+	+	Dust cover of Einhell TE-JS 100 is hinged and with side openings in protection hood which makes it easy to access the saw blade. Dust cover of Bosch PST 1000 PEL is snap-in construction and without side openings.
3.6 Speed setting	+	+	Both tools are easy to operate. Hand wheel of Bosch PST 1000 PEL is integrated in ON/OFF switch, and for Einhell TE-JS 100 at the top of appliance which can be even easily operated during cutting process.
3.7 Pendulum switch	+	+	For both tools the switches are clearly marked and easy to operate.
3.8 Adjustment of cutting angle	+	+	Cutting angles are easy to adjust for both tools without the aid of tools.
3.9 Parallel guide	+	+	Parallel guides of both tools are clearly marked and fixed by two screws.
3.10 Balance, centre of gravity and weight	+	+	Both tools are well balanced and rather light-weight.
3.11 Noise and vibration	0	0	Within normal range for this product group.
3.12 Cleaning	0	0	Assembly gaps make cleaning tedious for both tools.
3.13 Power cord and plug	0	+	Power cord length of Bosch PST 1000 PEL is 2.35m, of Einhell TE-JS 100 3.01m.

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3.14 Additional features - LED work light - Saw dust blow function - Sliding shoe - Special provisions for cutting control	+	+	LED work light works well for both tools. Saw dust blowing function of both tools works well and cutting line is always visible. Plastic sliding shoes for both tools avoid scratches on work piece. Both tools are provided with additional indicator to enhance cutting precision also for bevel cuts.
3.15 Maintenance	N	N	For both tools no special maintenance required, replacement of carbon brushes by service only.
3.16 Storage case	+	N	Einhell does not provide storage case for TE-JS 100.

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Annex A: Photo documentation

A I: Handles and ergo- nomics		
Remark	Both power-tools with rubberized handles.	







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A II: Power switch, operation and ergo- nomics		
Remark	ON/OFF switches of both power-tools are easy to operate and can be locked (for continuous ON) from both sides of handles.	
A III: Speed adjust- ment		
Remark	Both tools have the thumb wheels for speed adjustment but at different positions.	





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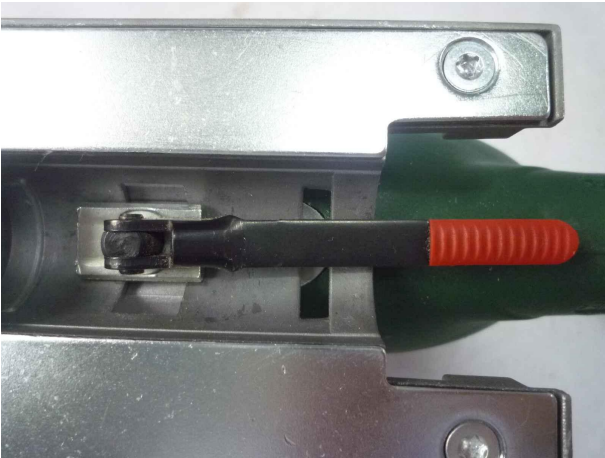

A IV: Pendulum switch		
Remark	Pendulum switches and markings	
A V: Quick clamp mechanism for saw blade		
Remark	Quick clamp mechanisms for saw blade, for Bosch PST 1000 PEL the sleeve must be turned, at Einhell TE-JS 100 the sleeve must be pushed.	



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A VI: Base plate		
Remark	Bosch PST 1000 PEL has a removable sliding shoe (not shown); the sliding shoe of Einhell TE-JS 100 is permanently fixed.	
A VII: Bevel angle adjust- ment		
Remark	Base plates of both tools can be easily locked and unlocked by lever.	

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A VIII: Dust extraction		
Remark	The dust extraction connection of Einhell TE-JS 100 is removable.	
A IX: Additional features, saw dust blow function		
Remark	Both tools are equipped with saw dust blowing devices.	



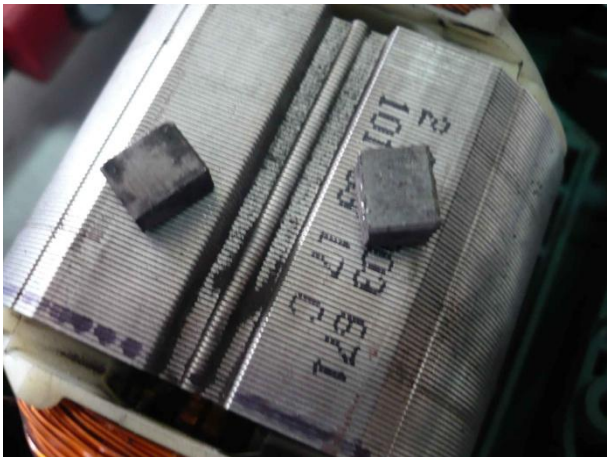

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<p>A X: Additional features, work light</p>		
<p>Remark</p>	<p>Both tools are equipped with work lights.</p>	
<p>A XI: Carbon brushes after durability test</p>		
<p>Remark</p>	<p>Carbon brushes of Bosch PST 1000 PEL worn after 1200 cycles, carbon brushes of Einhell TE-JS 100 worn after 279 cycles.</p>	



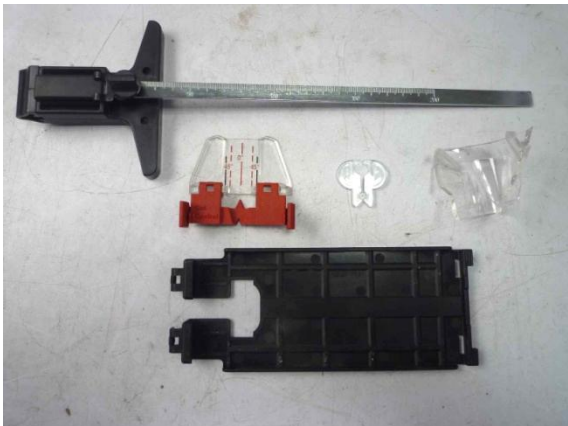
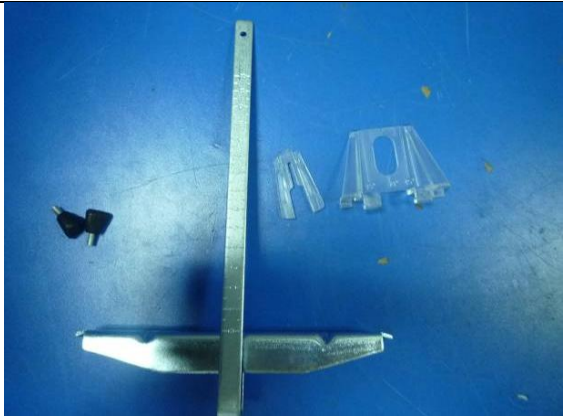
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<p>A XII: Access- ories/ range of delivery</p>	 <p>Bosch PST 1000 PEL:</p> <ul style="list-style-type: none"> <li>- 1x set wood saw blades (not shown)</li> <li>- 1x removable sliding shoe</li> <li>- 1x parallel guide</li> <li>- 1x dust cover</li> <li>- 1x cutting control</li> <li>- 1x splinter guard</li> <li>- 1x storage case (not shown)</li> </ul>	 <p>Einhell TE-JS 100:</p> <ul style="list-style-type: none"> <li>- 1x parallel guide</li> <li>- 1x dust cover</li> <li>- 1x cutting control</li> <li>- 1x splinter guard</li> </ul>
<p>Remark</p>	<p>Einhell also provides a sliding shoe but permanently fixed at the base plate.</p>	

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