



TEST REPORT

EN 1303

Building hardware –

Cylinders for locks – Requirements and test methods

Report Reference No. : GZ08070265-4R2

Supersede Report No. GZ08070265-4R1 dated July 21, 2009

Tested by (name and signature) : Happy Chen *Happy Chen*

Approved by (name and signature) .. : John Qiao *John Qiao*

Date of issue : July 23, 2009

Contents : Total test report 8 pages including:
Report text: 6 pages
Appendix A for product photo(s) 1 page
Appendix B for product drawing(s) 1 page

Testing Laboratory name : Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Address : Block E, No.7-2 Guang Dong Software Science Park, Caipin Road,
Guangzhou Science City, GETDD, Guangzhou, China

Testing location : Same as above

Applicant's name : BESTKO PRECISION LIMITED

Address : UNIT 303, BLOCK A, PO LUNG CENTRE, 11 WANG CHIU ROAD,
KOWLOON BAY, HONG KONG

Test specification

Standard : EN 1303:2005/AC:2008

Non-standard test method : None

Test Report Form No. : TTRF EN 1303:2005 B

TTRF Originator : Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Master TTRF : Dated 2008-01

Test item description : EURO PROFILE CYLINDER

Trade Mark : BESTKO

Model and/or type reference : BK801

Manufacturer : BESTKO PRECISION HARDWARE (SHENZHEN) COMPANY
LIMITED

Rating(s) :

1	6	0	1	0	B	2	0
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TTRF EN 1303:2005 B

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Copy of marking on packaging

								
Model No.:		BK801						
EN1303:	1	6	0	1	0	B	2	0
Manufacture date:								

Summary of testing

The submitted samples were tested and found to **COMPLY** with applicable requirements of EN 1303:2005.

Test item particulars	
Classification of installation and use	For use by people with a high incentive to exercise care and with a small chance of misuse
Test case verdicts	
Test case does not apply to the test object.....	N/A
Test item does meet the requirement	P (Pass)
Test item does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	July 07, 2008
Date(s) of performance of test	July 07, 2008 to August 25, 2008
General remarks	
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General product information:	
Meaning of classification:	
1 st digit (category of use): Grade 1--For use by people with a high incentive to exercise care and with a small chance of misuse	
2 nd digit (Durability): Grade 6 – 100 000 test cycles	
3 rd digit (Door mass): Grade 0 – No door mass requirement.	
4 th digit (Fire resistance): Grade1 – suitable for use on fire / smoke resisting door assemblies (Not evaluated in this report).	
5 th digit (Safety): Grade 0 – No safety requirement.	
6 th digit (Corrosion resistance and temperature) Grade B – no corrosion resistance; temperature requirement: from - 20 °C to + 80 °C	
7 th digit (Key related security): Grade 2 – Refer to table 9 of EN 1303 for detail requirements.	
8 th digit (Attack resistance): Grade 0 – No resistance against drilling; No resistance against mechanical attack	
See Appendix A and Appendix B for details.	
Amendment:	
1. The original Report No. GZ08070265-4 dated on November 20, 2008 was modified on July 9, 2009 to revise classification of "Fire resistance", the requirements about key related security to grade 2 and update Testing Laboratory's address.	
2. The Report No. GZ08070265-4R1 dated on July 21, 2009 was modified on July 23, 2009 to revised typo mistake in clause 4.2.	

TTRF EN 1303:2005 B

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

EN 1303			
Clause	Requirement – Test	Result - Remark	Verdict
6	CLASSIFICATION		
6.1	Category of use:	1	—
6.2	Test cycles – Durability	6	—
6.3	Door mass	0	—
6.4	Fire resistance	1 (Not evaluated in this report)	—
6.5	Safety	0	—
6.6	Corrosion resistance	B	—
6.7	Key related security	2	—
6.8	Attack resistance	0	—
4	REQUIREMENTS		
4.1	General		—
4.2	Key strength The key shall not break under the applied maximum torque of 2,5 Nm After the test, the key shall be re-used to operate the same cylinder with a torque not exceeding 1,5 Nm.	No broken was found, Operation torque after test: Maximum: 1,2 Nm	P
4.3	Durability After 100 000 cycles for grade 6, it shall operate the cylinders with a new original key with a torque not exceeding 1,5 Nm	100 000 cycles Operation torque after test: 0,8 Nm	P
4.4	Door Mass: No requirement		—
4.5	Fire resistance	Not evaluated in this report	—
4.6	Safety: No requirement		—
4.7	Corrosion resistance		—
4.7.1	General Cylinders for corrosion resistance grade A or C (high) shall conform to the corrosion resistance requirements of grade 3 of EN 1670 as minimum. The corrosion test shall apply to functionality only.	No corrosion requirement for grade B.	N/A

EN 1303			
Clause	Requirement - Test	Result - Remark	Verdict
4.7.2	Operation at extremes of temperature Shall be possible to operate a cylinder with the proper key using 1,5Nm maximum torque at both -20°C and +80°C	No obvious changes Operation torque after test: Maximum 0,7 Nm	P
4.8	Key related security		—
4.8.1	General		—
4.8.2	Minimum number of effective differs Minimum 300 effective differs for Key related security grade 2	13 000 effective differs	P
4.8.3	Minimum number of movable detainers Minimum 3 movable detainers for Key related security grade 2	6 movable detainers	P
4.8.4	Maximum number of identical steps Maximum number of identical steps 70%, maximum 2 adjacent for Key related security grade 2	Maximum number of identical steps 50% maximum 2 adjacent	P
4.8.5	Direct coding on key Direct coding shall not be permitted on keys for Key related security grade 3, 4, 5 and 6	No direct coding on key	P
4.8.6	Operation of security mechanism	Could not operate the cylinder with the next closest key after the cycle test.	P
4.8.7	Torque resistance of plug/cylinder relevant to key related security The plug and/or cylinder shall not rotate using the 5 Nm torque for Key related security grade 2	Not rotated after applied 5 Nm torque.	P
4.9	Attack resistance		—
4.9.1	Resistance to attack by drilling After drilling test, the lock driving element of the cylinder shall not rotate without the correct key, using a maximum torque of 5 Nm.	No requirement for grade 0.	N/A
4.9.2	Resistance to attack by chisel After test, the lock driving element of the cylinder shall not rotate without the correct key, using a maximum torque of 5 Nm.	No requirement for grade 0.	N/A

EN 1303			
Clause	Requirement – Test	Result - Remark	Verdict
4.9.3	Resistance to attack by twisting After test, the lock driving element of the cylinder shall not rotate without the correct key, using a maximum torque of 5 Nm.	No requirement for grade 0.	N/A
4.9.4	Resistance to attack by plug/cylinder extraction After test, the lock driving element of the cylinder shall not rotate without the correct key, using a maximum torque of 5 Nm through 360° or in the case of cylinders with restricted plug movement, to the maximum permitted by design	No requirement for grade 0.	N/A
4.9.5	Torque resistance of plug/cylinder relevant to attack resistance The plug and /or cylinder in attack resistance 1 shall not rotate using the 30 Nm torque.	No requirement for grade 0.	N/A

7	MARKING		P
	The classification in clause 6 shall be quoted in the accompanying documents relevant to the cylinder, on its labelling or packaging and/or by marking the product itself or by more than one of these methods	See marking on packaging	P

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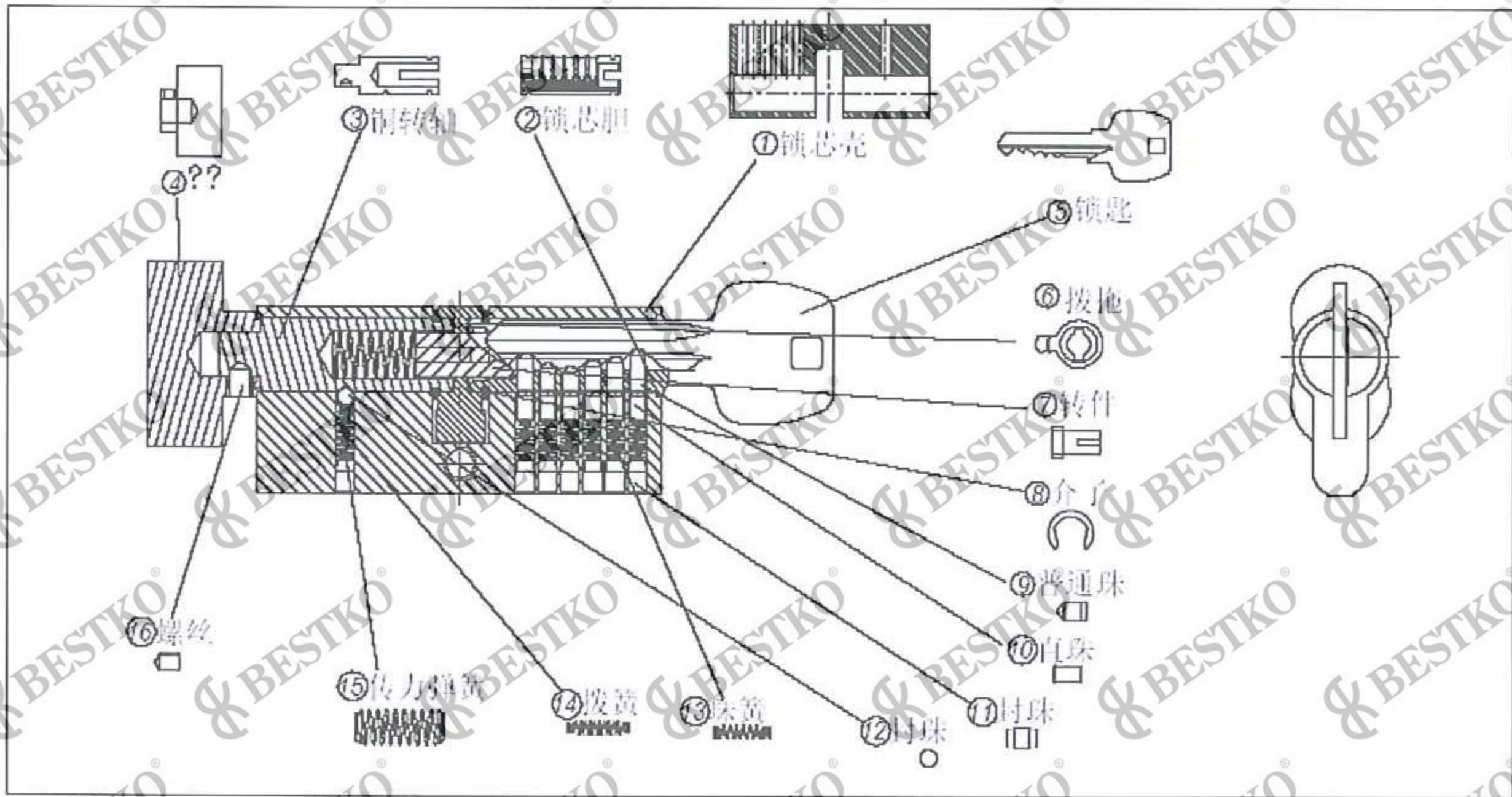
Appendix A

Product Photo



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Appendix B
Product Drawing



*****End of Report*****