## Chinese Product Quality Solution Provider



#### Features:

With a strong engineering pool & complete instruments backup, it

functions as your branch office in

China but:

- No Investment
- No Engineer Recruitment
- No Overheads
- No Management & Layoff
   Headaches
- No Termination Liability





To Make You Trouble Free

Quality Security





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### Introduction

Qua-City is in a position to support you with the answers to: Buying correctly to enable you to sell right. Everybody, including your competitors and customers, understands the cost savings in buying from China. How to make your performance better than them is a key to your success.

Your sales are important, your time is precious. Your travel to China is expensive, and may be impractical. Even though you have spent a lot of time and effort to make sure that your suppliers understand your needs and they have agreed to meet them, there still can be many unexpected commercial and technical problems. Qua-City mission is to make your supply side trouble free to guarantee your success and enable you to focus on your marketing efforts to increase your business.

### How To Set Up Your China Branch Office Without Problems of Investment, Overhead and Management

Without all the set up cost and troubles, you can start immediately and terminate at any time by designating Qua-City professional services to carry out all of your branch office activities including:

☐ Finding new factories	□ Qualifying factories	□ Supplier maintenance
□ New product development	□ Inquiry & ordering	☐ Finding better prices
□ Quality control	□ Order delivery follow-up	□ Obtaining up-to-date market information
□ Ensuring your suppliers wor	rk exactly to your requirements	
Qua-City is the only institu	ıte in China with complete engine	ering facilities encompassing:
□"IS0 17025" certified labora	tory Extensive experience & expertis	se  Up-to-date inspection instruments
□ Professional quality manage	ement □ Engineering background interfa	ce
Experience & expertise		
Working for years with mature e	experience and expertise:	
□ Customers: from world reno	wned manufacturers and distributors	
□ Range: from complete mech	nanical parts to components	
□ Quality and Quantity: exper	ience controlling billions of parts per year	ar
Inspection instruments		
Our wide range of inspection in	struments cover:	
□ Chemical analysis	□ Metallurgy	□ Mechanical properties
□ Performance testing □ Calibration	□ Dimension & tolerance control	□ Precise measurement
Professional		
A pool of professional engineers	s, with experience ranging 18-40 years,	working in different positions with complete
expertise coverage in:		
□ Production management	□ Bearing production equipment design	n   Industrial computer control programming
□ Heat treatment	□ Chemical	□ Bearing product design
□ Metallurgy	□ Material	□Calibration □
□ Tooling & molding	□ Management system	
Engineering background interfa	ce	
All of our customer service exec	cutives have engineering background an	d good command of the English language.

## Critical Difference between Qua-City and Other Inspection Companies is - BATCH CONSIGNMENT INSPECTION

You can be confident that we understand exactly your technical questions.

Other inspection companies conduct inspection and testing only on factory provided samples. The concern is whether or not these selected samples are representative of the entire lot purchased.

Qua-City understands your need and therefore all of our operation is geared to provide Batch Consignment Inspection that we select from the entire shipment as it arrives in our controlled warehouse. Our in plant 1,800 sq meter warehouse enables us to pick an "ISO" standard appropriate number of random samples to make sure the samples represent the entire shipment.



## How Qua-City Service Can Fit Your Needs

#### Lay-out of technical documentation

To target your needs to make sure your suppliers are clear on all of your requirements, Qua-City can assist you in laying out 3 types of technical documents including "supplier manual", 'inspection program' and 'specification sheet'.

Includes:	e is illustrated ill Appelluix 1)	
□ General terms	☐ General marking requirements	☐ General packaging requirements
□ Payment terms	□ Required inspection condition	
□ Designated party res	ponsible for payment for inspection fees.	
	mple is illustrated in Appendix 2)	
For inspection condition	s of:	
□ What to inspect?	□ How to inspect?	□ How to judge pass or fail?
Specification Sheet (exar	nple is illustrated in Appendix 3)	75 FF V5
For technical specificati	ons such as:	
□ Material	□ Tolerance	□ Hardness
□ Machanical propertie	s 🗆 Finish	☐ Special marking requirements
☐ Special packing requ		
Sourcing service (pr	rovision for the customer who aut	horizes Qua-City to be exclusive
	presentative for those product types	
To target your needs of:		
☐ Finding new sources	of supply	□ Supplier maintenance
□ Obtaining update ma	rket information	
□ For service details, p	lease refer to Qua-City catalogue of "Source	cing Solutions"
Source control		
To target your needs of b	uying only from qualified suppliers.	
□ Qualifying new factor		☐ Annual review of qualified factors
☐ To evaluate your qua	lified supplier to ensure maintenance of the	
☐ To make your qualifie	d supplier aware that you are always keep	ing a close watch on their quality system
Instead of an ISO 9000 ty	pe of general questionnaire, Qua-City eng	ineering team will tailor a checklist for a
critical production control	points concerned in the Chinese factory s	pecifically relating to your product. Afte
the checklist has been ap	proved by you, Qua-City experienced and p	professional auditors will then conduct the
assessments and provide	you with a comprehensive scoring report.	
□ Source control (exam	ple is illustrated in Appendix 4)	
	table (example is illustrated in Appendi	ix 5). Qua-City will specially design a
	m to target your particular industry.	
Sample inspection		
To target your needs of n	ew product development:	
	ent quality in variance from sample submis	ssion
and the first of the second second second second second	nal and high quality image to combat comp	
Thru Qua-City sample ins		THE ROLL OF THE PARTY OF THE PA
	f the inspection report related to supplier	samples, to confirm specification to be
	This ensures the shipment quality will	
sample		

#### New product development

To target your needs of:

- ☐ Technical discussion with appropriate suppliers
- ☐ To make sure potential supplier understands clearly all of your technical requirements
- □ To assist potential supplier in improving existing know-how in order to fulfill your technical requirements.

□ It's recommended to present sample to your customer with Qua-City comprehensive inspection report and chart (please refer to page 29 of Qua-City catalogue "Assessment & Inspection Program"). Desirable for establishing professional and high quality image to beat competition and to gain orders.

- ☐ Advance sample inspection to avoid sending sub-quality sample to customer.
- □ Set up technical documentations of "inspection program" & "specification sheet" to be stipulated in order.

#### Inquiry & quotation service

To target your needs of:

Achieving best prices from qualified factories

For service details, please refer to Qua-City catalogue "Sourcing Solution".

To obtain best pricing, standardization is a pre-requisite. Qua-City can assist you to prepare three key technical documents consisting of "supplier manual", "specification sheet" and "inspection program" to standardize your requirements. This enables you to buy from the best price supplier under the same conditions.

#### Order follow-up

To target your needs of:

- ☐ On time delivery and up-date information
- □ Verification that suppliers are working exactly to your requirements

For service details, please refer to Qua-City catalogue "Sourcing Solution".

#### Process inspection

To target your needs of:

☐ To ensure factory production is as stipulated in your order

For service details, please refer to page 19-25 Qua-City catalogue "Assessment & Inspection Program".

#### Pre-shipment random inspection

To target your needs of:

□ To ensure shipment quality is as stipulated in your order

For service details, please refer to Appendix 6: pre-shipment inspection flowchart.

Qua-City random inspection fee cost only a few percentage points of the purchase cost. It is recommended that you instruct your suppliers to include the fee in their quotations and orders. Experience with current Qua-City customers is that; suppliers will normally absorb the fee in their cost without any differences.

#### 100% inspection

To target your needs of:

- □ Zero product defect
- □ To pay for only qualified products and return rejects to supplier

To prevent potential labor error, for example, Qua-City utilizes their own fully and semi-automatic tester on bearing vibration and clearance, which are unique in all China. For service details, please refer to Qua-City catalogue "100% bearing vibration screening solution".

It is suggested that you instruct your suppliers to bear the cost of rejects in order that:

- □ You can eliminate the inspection fee on failed quantity.
- ☐ To provide pressure to supplier to provide 100% stipulated quality.

#### Laser marking

To target your needs of:

- ☐ To mark your brand only on the product passing inspection.
- □ To eliminate supplier's ability to dispose of your branded failed product elsewhere and damage your market quality image.
- □To prevent your brand from being seen by competitors or customers visiting your supplier's factory.
- □ To build up your branded products with professional laser marking.

For service details, please refer to Qua-City catalogue "Confidentiality Solution".

#### Packaging

To target your needs of:

- ☐ To pack products passing inspection.
- □ To eliminate supplier's ability to dispose of your packaged failure product elsewhere and damage your market quality image.
- ☐ To avoid having your brand seen by competitors or customers in visiting the same factory.
- □ To unify single box appearance which could vary from different factories.

For service details, please refer to Qua-City catalogue "Confidentiality Solution".

#### Assembly

To target your needs of:

- To eliminate supplier's ability to sell your special product to your competitors and customers.
- □To avoid your special products being seen by competitors or customers while visiting the same factory. For service details, please refer to Qua-City catalogue "Confidentiality Solution".





## Service Summary & Request For Quotation

Services	Services description	Please select the service with mark " X" in the appropriate box for quotation	Remark
Technical documentation layout	Supplier manual, inspection program & specification sheet set up		
Sourcing	Locating appropriate factories		
Source control	Factory assessment (qualifying new factories and annual review)		
Sample inspection			
	Technical discussion with appropriate factories		
New product development	Sample inspection (Report with chart as per page no. 29-30 of Qua-City "Assessment & Inspection Programs")		
	Set up technical documentations of inspection program & specification sheet upon order confirmation		
Inquiry & quotation	Inquiry & quotation		
mquiry & quotation	Assisting order confirmation		
O-d6-11	Order recording and up-dating		
Order follow-up	Delivery follow-up and up-dating		
Process Inspection	To check production at factory site.		
Pre-shipment inspection	Random inspection		
V 60	100% inspection (including 100% appearance)		
Marking	Laser marking (including anti-rust prevention and drying)		
	Roll packing (incl. anti-rust prevention, and carton & pallet packing)		
Packaging	Single box packing (incl. anti-rust prevention, and single poly bag, carton & pallet packing)		
	Carton packing (carton & pallet packing)		
	Pallet packing		
Assembly	Semi-product random inspection		
	Simple final product assembly		

### Contract Termination

Simply provide 90-180 days written advance notice and settlement of all pending invoices. No other termination compensation liability is required.

## Recommendation - Total Quality Assurance Solution

To pick up following 3 Qua-City services that are described above, you can achieve "Total Quality Assurance Solution" to integrate into your supply chain management system related to your purchases from China.

Program	Location	Service to	Frequency
		New supplier	Upon your request
Source control	At supplier site	Qualified supplier	Once a year
Process Inspection	At supplier site	Qualified supplier	Once quarterly
Pre-Shipment Random Inspection	At Qua-City's inspection plant	Qualified supplier	Every shipment

Suggest asking your suppliers to build in their quotation on all the relative charges of the above TOTAL QA SOLUTION PROGRAM to save your accounting payment workload. This has been already the trade practice of some giant chain stores of Wal-Mart and Home Depot to have all their suppliers to pay for the third party quality inspectors.



## Appendix 1: Supplier Manual (example)

FROM: ABC Co. TO : All suppliers

On all bearing orders placed by ABC

Ref: SM ABC d/m/y

ABC appoints Qua-City Inspection Engineering (Shanghai) Co., Ltd. No. 128 Lane 311, Yin Jia Bang Road, An Dong Village Zhang Jiang Town, Pudong, Shanghai, P.C. 201203

Tel 021-50200115 021-50200116 Fax: E-mail: info@quacity.com

Contact Person:

to be the quality assurance agent for the purchases of bearings from China. Please study this document and all its attachments carefully and sign and seal below in the space indicated to acknowledge your understanding and acceptance of the terms and conditions. Once duly signed and sealed, this document becomes a legal supplement for all of our orders placed with you from this time forward. After you have signed and sealed this document, please return a copy by fax to: Qua-City Inspection Engineering (Shanghai) Co. Ltd. Should you have any questions, please feel free to contact Mr. \*\*\* of Qua-City.

#### BEARING STANDARDS AND REQUIREMENTS

Unless otherwise specified, the bearing standards should be in accordance with the following:

#### 1.1 TECHNICAL STANDARD

Please refer to the 'SPECIFICATION SHEET'.

#### 1.2 APPEARANCE

Finishing to be complete with no surface marks (scratches or blemishes). No rust allowed anywhere on any Ball bearing surface.

#### 1.3 ANTI-RUST REQUIREMENT

Anti-rust oil must only form a thin and dry coating on the bearing. Never use grease.

#### MARKING and PACKING

#### 2.1 MARKING

Please refer to relative 'SPECIFICATION SHEET' for the markings of brand and part number on bearings.

The supplier will use INDUSTRIAL packing with the part number and the quantity listed on the outside of each product container.

#### **DELIVERY SCHEDULE**

- 3.1 The supplier must arrange for and strictly adhere to the delivery order schedules.
- 3.2 If there are any delivery schedule changes (including delay by quality failure) the supplier must provide a new delivery schedule to ABC for prior approval. ABC reserves the right to cancel orders where scheduled delivery is delayed.

#### PRICE TERMS

All quotations and orders will be in:

- 4.1 CIF/FOB: Port XXX
- 4.2 Payment by XXX

#### 5. INSPECTION AUTHORISATION

#### 5.1 FACTORY EVALUATION

The supplier must cooperate with Qua-City to make a factory assessment if requested.

#### 5.2 IN-PRODUCTION INSPECTION

The supplier must cooperate with Qua-City to inspect the goods during production of our orders if requested.

#### 5.3 PRE-SHIPMENT INSPECTION

All of the goods must be sent to our appointed inspection center in Shanghai "Qua-City Inspection Engineering (Shanghai) Co. Ltd.".

Each supplier should fax the shipment advisory to "Qua-City Inspection Engineering (Shanghai) Co. Ltd." at fax: 86 021 5020 0116 a minimum of three (3) days before delivering to Qua-City.

All the relative consignment transportation expenses to and from Qua-City warehouse will be borne by the supplier.

#### 5.4 SAMPLING AND INSPECTION STANDARD

Please refer to relative 'INSPECTION PROGRAM' & 'SAMPLING STANDARD'.

#### 5.5 INSPECTION CHARGE

All suppliers must include Qua-City bearing pre-shipment random inspection fee in all the quotations and orders to ABC. The supplier will pay for all inspection charges directly to Qua-City, including the first and each subsequent re-inspection concerning the rejected goods shipments. All relative inspection charges are to be paid to Qua-City within one (1) week after each inspection is complete. Please ask Qua-City for the inspection fee.

#### 6. SHIPMENT AUTHORIZATION

All shipments can only be effected only after inspection passed or confirmed by customer.

#### 7. SUPPLIER'S AFTER SALES RESPONSIBITIES

The "Shipment Authorization Letter" does not release you from any responsibilities resulting from quality and/or other problems arising from the supplied goods. Should there happen to be any claims from our customers due to the faults of the goods supplied, then the supplier shall bear full responsibility for any such claims.

ALL OF THE STATEMENTS MADE IN THIS DOCUMENT ARE TO BE INTERPRETED IN THE ENGLISH VERSION, WHEREAS THE CHINESE TRANSLATION SERVES FOR REFERENCE PURPOSES ONLY.

CONFIRMED AND ACCEPTED BY	
NAME OF SUPPLIER (PLEASE TYPE) —	
AUTHORISED SIGNATURE WITH COMPANY CHOP	
DATE	A





### ABC Co.

DATE:

#### LETTER OF APPOINTMENT

This is to certify that we have appointed

Qua-City Inspection Engineering (Shanghai) Co., Ltd.

To be our quality assurance agent.

Yours truly,

ABC Co.

### Shipment Authorization Letter

#### QUA-CITY INSPECTION ENGINEERING (SHANGHAI) CO., LTD.

No. 128 Lane 311, Yin Jia Bang Road, An Dong Village, Pudong,

Shanghai 201203, China



Date:

To: Supplier Name

#### Shipment Authorization Letter

You are authorized to make the shipment to ABC of the following goods under:

ABC order #: XXX

Part No.	Quantity
	Laboration of the laboration o
. 64	
	- // N E

Qua-City Inspection Engineering (Shanghai) Co., Ltd

Authorized signature and chop

## Appendix 2: Inspection program (example)

#### **DEEP GROOVE BALL BEARING**

Ref: IP ABC DGBB- d/m/y

#### 1. STANDARD EMPLOYED

ISO 2859 and relative standards

#### 2. INSPECTION CLASSIFICATION

KEY ITEMS	MAIN ITEMS	SUB-ITEMS
HARDNESS	∆dmp, Vdp, Vdmp	∆Bs, VBs
CRACK	△Dmp, VDp, VDmp	△Cs, VCs
MARKING	Gr	MAGNET RESIDUE
	Kia, Sia	CHAMFER
	Kea, Sea	APPEARANCE
	Sd, SD	ANTI-RUST PACKING
	ROTATION	SURFACE ROUGHNESS
	SEALING	MARKING QUALITY
	NOISE AND VIBRATION	

#### 3. ACCEPTABLE LEVER

Key items : AQL 0.1 Main items : AQL 1 Sub items : AQL 4

#### 4. SAMPLING SIZE

ISO 2859 Grade 1 (please refer to page 53 of Qua-City catalogue "Assessment & Inspection Program").

#### 5. SAMPLING TYPE

One time sampling type of normal inspection

#### 6. SAMPLING BATCH TREATMENT

#### 6.1 Inspection passed

Whole item consignment batch passed

#### 6.2 Inspection failed

Whole item consignment batch returns to suppliers for 100% screening before for another inspection.

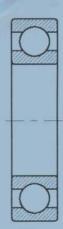
Example: for a batch size of 10,000 pcs, sample size=80pcs.

Main items: AC(pass number)=2pcs.

Re (failed number)=3pcs.

Sub-items: AC(pass number)=7pcs.

Re (failed number)=8pcs.





## Appendix 3: Specification sheet (example)

### DEEP GROOVE BALL BEARING

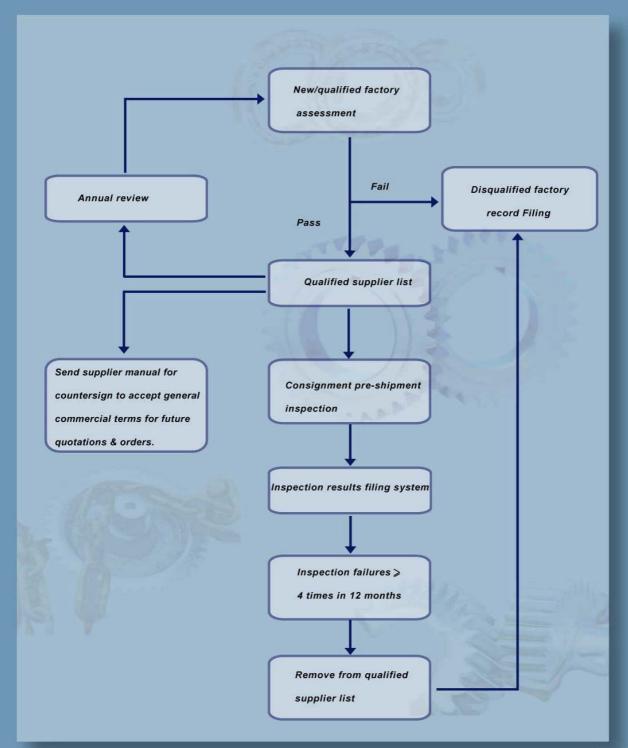
Ref: SS ABC DGBB- d/m/y

Relative documents	Supplier Manual	SM ABC d/m/y
verative documents	Inspection Program	IP ABC DGBB- d/m/y
	Outer Ring	
Material	Inner Ring	100 Cr 6
	Rolling Elements	no de se
	Outer Ring	HRc 58-62
Hardness	Inner Ring	
	Rolling Elements	HRc 60-66
Toler	ance	P0
Noi	se	Z1
Vibration		V1
Grease fill		25-35%
Mari	ting	ABC

### **Residual Magnetism**

Bearing Outer diameter	>		30	50	120	120
(mm)	<	30	50	120	250	430
Max. Magnet Residue(mT)		0.4	0.5	0.6	0.8	1.0

## Appendix 4: Operation System - Source Control (example)

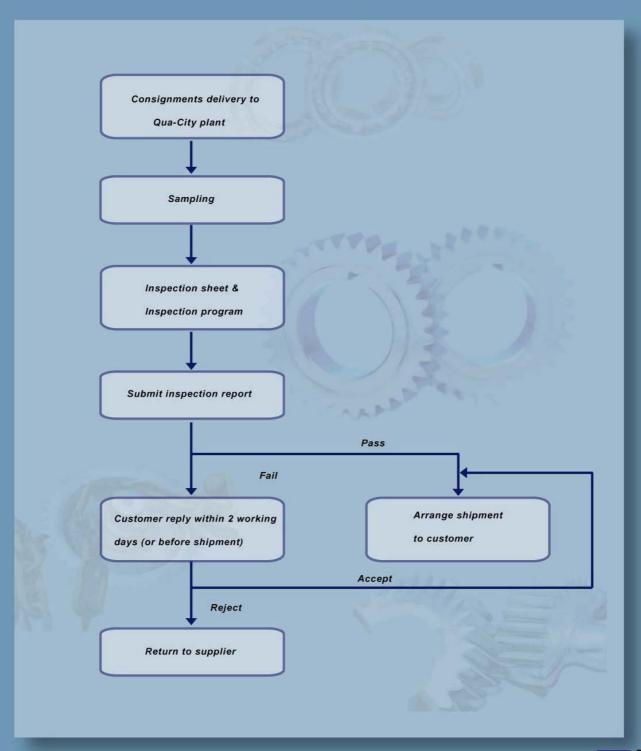


# Appendix 5: Supplier Assessment Table-Deep Groove Ball Bearing (example,

upplie	er:	100		CASHON PURCOS NO. INC.		Date
		Ke	y Items and Points			Scor
No.		Item		Full	Assessment criteria	poin
			Inspection method		Audit mathed to be 0 manufactured a	
1.	Dimension grade	nsion grade	Inspection tools	10	Audit method, tools & records deduct 1 point for one item lackness; deduct 1point for one item unqualified	
			Inspection records			
	Shape & location	Circularity of bore,	Inspection method		Audit method, tools & records deduct 1	
2.	tolerance	roundness of outer ring raceway, roughness testing.	Inspection tools	6	point for one item lackness; deduct 1point for one item unqualified	
			Inspection records			
		Acceleration/velocity type,	Inspection method		Audit method, tools & records deduct 1	
3.	Vibration	wave control, decibel control	Inspection tools	6	point for one item lackness; deduct 1point for one item unqualified	
			Inspection records	1	5/1/	
	Subsandraad nauta	Check and accept regulation, special controlling person exist or not, failed parts deal	Inspection method	6	Audit method, tools & records deduct 1 point for one item lackness; deduct 1 point for one item unqualified	
4.	Subcontract parts control		Inspection tools			
		with.	Inspection records			
		Hardness inspection, control criteria, unqualified handle	Inspection method	5	Audit method, tools & records deduct 1 point for one item lackness; deduct 1 point for one item unqualified	
5.	Heat treatment		Inspection tools			
			Inspection records	API		
		Assemble house environment,	Inspection method		Audit method, tools & records deduct 1	
6.	Cleanness degree	nness degree clean machine condition Inspection tools 5	5	point for one item lackness; deduct 1point for one item unqualified		
			Inspection records			
	Anti-rust	Process, semi-product, finish product and outgoing anti-rust	Inspection method	6	Audit method, tools & records deduct 1 point for one item lackness; deduct 1 point for one item unqualified	
7.			Inspection tools			
			Inspection records			
			Inspection method	2	2.by machine, 1.by person	
8.	Packaging		Inspection tools	2	2.Precise 1.So-so	
	193 (6)		Inspection records	2	2.Long term, 1.Temporary, 0.None	
otal				50		150

CONCLUSION:

Appendix 6: Ball Bearing Operation System - Pre-shipment Inspection (example)







#### Qua-City Inspection Engineering (Shanghai) Co.,Ltd.

No. 128 Lane 311 Yin Jia Bang Road An DongVillage, Zhang Jiang Town Pudong, Shanghai, China, P.C. 201203 Tel: 86-21-50200115 Fax: 86-21-50200116

Fax:86-21-50200116 E-mail:info@quacity.com Website:www.quacity.com

### **Zhenjiang Province Inspection Plant:**

CiXi Qua-City Inspection Engineering Co., Ltd. No.618 North Xingye Road, Zhouxiang Town, Cixi City, Zhenjiang Province, China. PC:315324

