

# Maintenance & Service Manual

**BSK PRECISION TECHNOLOGY LIMITED** 





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- Thank you for choosing BSK Precision Technology Limited, customer satisfaction is our greatest pursuit. We expect to bring you an experience of the longest life-cycle under the lowest total cost.
- Before using the plastic injection mold, please read this <Maintenance & Service Manual> Carefully. This will ensure that users can standardize the operation and maintenance in order to extend the mold life and stability of the mold; for the purpose of improving product quality and productivity as well as guaranteeing the longest possible life cycle of your mold.

## **BSK Precision Technology Limited**





#### **SCOPE OF WARRANTY**

BSK Precision Technology Limited warrants its plastic injection tooling to be free of defects in design, material and workmanship. For this warranty, a complete tool includes a mold base, cavity & core steel inserts, standard components and spare parts. BSK shall be responsible for the reparation or replacement of all above defective parts, including the labor cost required. BSK reserves the right to determine the scope of the repairing method and the scope of the warranty.

## **STANDARD WARRANTY CONDITIONS**

# BSK follows the warranty period or warranty shots as below whichever one comes first.

#### **Definition of warranty period:12 months**

The amount of days since the date of mold shipment under normal use and maintenance as specified in BSK's <br/>
<Maintenance &Service Manual>.



#### **Definition of warranty shots:**

The amount shots of production since the data of mold shipment under normal use and maintenance as specified in BSK's <Maintenance & Service Manual>.

Steel Grade Resin	Pre-Hardened Steel (1.2738, P20HH, 718HH; 1.2083, 420H, Corrax etc.).	Full Hardened Steel (1.2343(4), H13, 8407; Stavax ESR, Calmax, S7, etc.).
ABS/HIPS/ASA/PC+ABS	500K Shots	1 Million shots
PP/PE	500K Shots	1 Million shots
PC/PMMA/SAN/GPPS	500K Shots	1 Million shots
POM/PVC	500K Shots	1 Million shots
TUP/TPR/TPE	500K Shots	1 Million shots
PA6/66/PA6T/PBT	500K Shots	1 Million shots
PA66+GF30/PBT=GF30	Not Recommended	800K shots
PPS/LCP/PEEK/PEI/PPO	Not Recommended	800K shots



## **TYPE OF EASY TO LOSE COMPONENTS & QUALITY WARRANTY PERIOD**

Scope of Sorts	Quality Warranty Period
Mold Base	12 mouths or 1M shots
Cavity & Core Steel Inserts	12 mouths or 1M shots
Slider Base & Wedge Block	12 mouths or 1M shots
Hot Runner System	Same as supplier/s terms
Hydraulic Cylinder/Latch Lock/Limit Switch/Shot Counter/Date Code/Spring/Sprue Bush/Motor	12 months
Ejector Pin/Ejector Blade/Ejector Sleeve/Stepped Ejector pin/Ejector Bar/Angular Pin/Minor Insert/Lifter/Air Poppets	6 months or 100K shots
High glossy/Texture/Coating surfaces	1 <sup>st</sup> tool qualification run @ the customers facility



## LIMITATIONS

#### The warranty shall not apply to the conditions:

- Claims or damage resulting from customer or third party repairs or modifications to the mold, or other circumstances without a written approval from BSK.
- Claims or damage due to non-compliance with recommended installation, operation and maintenance procedures, schedule as specified in the BSK's mold manual or maintenance book, including, and without limitation, abuse, neglect, misuse of the tools by the customer, its agents or contractors.
- Claims or damage resulting from the use of third party parts without a written approval from BSK.
- Any direct or indirect loss, consequential loss, personal injury or damage to damage to property, loss arising from interruptions or delays in production except in the case special terms and contract have been agreed to by BSK in a signed contract.
- Claims or damage resulting from non-standard parts or components specified by the original purchaser and supplied by BSK.
- Claims or damage resulting from auxiliary equipment and accessory parts, supplied but not manufactured by BSK in which event we shall use reasonable efforts to pass on the original purchaser to the manufacturer's warranty. Examples include, but are not limited to: air compressors, hydraulic cylinders, motors, EOA Tool and perimeter guarding ect.
- Claims or damage resulting from purchaser's non-compliance with applicable laws, regulations, codes or by laws, and standard industry practices.



## TRANSFER OF WARRANTY

The mold is only covered under the standard warranty to the original purchaser/molder of the tool and the warranty is non transferable to, and may not be enforced by, any third parties, including, but not limited to, subsequent buyers, users or assignees if the mold.

## SAFETY AND INDEMNITY

- The purchaser agrees to maintain and operate the tool safely and in accordance with BSK's recommended guidelines and applicable legal requirements.
- The purchaser assumes all risks and liabilities for the operation and use of the tool. The purchaser agrees to defend and save BSK and its employees harmless from all claims and costs arising from any cause related to the tool operation or use, except to the extent caused by the tool defectively engineered or manufactured by BSK or serviced by BSK personnel, subject to the further limitation below.
- Under no circumstances will BSK be responsible for claims or costs associated with product produced by the mold any consequential, special or incidental damages associated with its use. Failure to comply with any safety requirements or conditions pertaining to injection molding machines can cause equipment damage, or serious personal injury, including death.

## THE IMPORTANCE OF MAINTENANCE

The mold is made up of many component parts. In the course of processing, these component parts would have a different degree of wear, become loose or damaged, if there was no timely maintenance done. The performance of the mold will deteriorate, thus affecting the mold service life and performance badly. To avoid these adverse effects, please be sure to carry out the following routine and regular inspection and maintenance on time, and replace if necessary any components that may need it.

You may have your own company's inspection and maintenance format but please make sure to cover all of programs and contents listed on BSK's maintenance sheets as below.



Only experienced personnel should work on any injection mold!

Only experience personnel should operate a crane during the disassembly and assembly of any mold!

Please make sure that the injection machine's safety switch is turned off and the electrical motor or hydraulics have been shut down when doing mold checking and maintenance on the machine!

Please make sure to take all safety precautions in advance cause the hot runner system may still be very hot, mold components could be sharp during the disassembly and assembly of any mold!



Project Name:		Mold No.:				Part	No.:						
NI-	Meinten en es Disense		Maintenana Drasadura	Date:									
NO.	Maintenance Program		Maintenance Procedure	Resu	lt:			Fc	or each	point m	nark OK	or NG	
1	Abnormal noise checking of open-close of valve pin, ejection system, mold open-close etc. during production.	Listening , heard.	stop the machine if any abnormal sounds are										
2	Check if the rust and oil contamination around the mold, and check if the cooling conector was leaking.	Visual insp connector	pection, polish the rust, and change the water s if any abnormalities are detected.										
3	Check whether plastic powder, air trap residues was left in parting line surface.	Visual insp	pection, Clean it by cotton cloth.										
4	Check whether the venting slots of P/L was blocked.	Visual insp	pection, clean it by cotton cloth.										
5	Check whether the cold runner and gate can drop down freely.	Visual ins <sub>l</sub> detected.	pection, stop the machine if any abnormalities are										
6	Ejector bar action checking.	Wearing fi surface of stand with	nger glove to feel whether oil was on the side the ejector bar, and add lubricating oil which can high temperature.										
7	Ejector pin action checking.	Wearing finger glove to feel whether oil was on the side surface of the ejector bar, and add lubricating oil which can stand with high temperature.											
8	Guide pin and Guide bushing action checking.	Wearing finger glove to feel whether oil was on the side surface of the ejector bar, and add lubricating oil which can stand with high temperature.											



Project Name:					Mold No.:				Part No.:					
Date														
Result						For	each point	mark OK or	NG					
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Project Name:		Mold No.:			Part	No.:					
No.	Maintenance Program	Mainter	nance Procedure	Date :							
9	Temperature controller box checking.	Visual inspection, the tolera actual one should be within	nce temperature between set and $\pm 3^{\circ}$ C	Res					ich pol		NG
10	Electrical Connector box and buckle of the hot runner checking.	Visual inspection, the plug a has become loose.	and the base should be tight, nothing								
11	Shot Counter checking.	Visual inspection, check wh normally, otherwise , stop th replace.	ether the shot counter can run ne machine to remove and possibly								
12	Low pressure protection switch checking.	Visual inspection, check the	display of screen if it is switched on.								
13	Screw tightness from PL checking.	Visual inspection, check if th surface are tight and have n	ne head of screw aligned with the PL not become loose								
			Maintainer								
		Abn	ormal Record:								
Date	Description of Abnormality	A A	Root Cause			Actio	n taker	า		Reco	order



#### Mold Daily Check and Maintenance Sheet

Project Name:					Mold	Mold No.:			Part No.:					
Date														
Result						For	each point	mark OK or	NG					
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							Abnorma	al Record:						
Da	ate	D	escription o	f Abnormali	ty		Root	Cause			Action	n taken		Recorder

PS. Please make more hard copies or change it to electronic spreadsheet so you can extend the dates and keep longer record!



Project Name:		Mold No.:				Part	No.:						
Nia	Meintenenen Dremmen		Maintonanas Drasadura	Date:									
INO.	Maintenance Program		Maintenance Procedure	Resu	lt:			Fo	r each	point m	ark OK	or NG	
1	Abnormal noise checking of open-close of valve pin, ejection system, mold open-close etc. during production.	Listening , heard.	stop the machine if any abnormal sounds are										
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Project Name:		Mold No.:			Part	No.:					
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		Abn	ormal Record:								
Date	Description of Abnormality	A A	Root Cause			Actio	n taker	า		Reco	order



#### Mold Daily Check and Maintenance Sheet

Project Name:					Mold	Mold No.:			Part No.:					
Date														
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							Abnorma	al Record:						
Da	ate	D	escription o	f Abnormali	ty		Root	Cause			Action	n taken		Recorder

PS. Please make more hard copies or change it to electronic spreadsheet so you can extend the dates and keep longer record!



Mold Regular Maintenance's schedule is mainly determined by the cycle of mass production, as outlined in the followings 2 scenarios:

#### 1. Maintenance During Run-In Phase

a) Definition of new mold run-in phase period:

\*General mold run-in phase is 0.5 Week(around 15K-20K shots).

\*Special mold(soft plastics, glass fiber and high polishing surface requirements) run-in phase is 1Week (around 25K-30K shots).

b) Within the mold run-in phase period, regular mold maintenance schedule should follow as below:

\*General mold needs to maintain regularly every 1 Week;

\*Special mold needs to maintain regularly every 0.5 Week;

## 2. Maintenance After Run-In Phase

\*General mold needs to maintain regularly every 4 Weeks; \*Special mold needs to maintain regularly every 2.5 Weeks;

## 3. Maintenance When Tool life Is Over Its Lifecycle

\*General mold needs to maintain regularly every 2 Weeks; \*Special mold needs to maintain regularly every 1 Weeks;



Project Name:		Mold No.:				Part	No.:						
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INO.	Maintenance Program		Maintenance Procedure	Resu	t:			Fo	r each	point m	nark OK	or NG	
1	Check whether the sprue bushing of mold matches well with the nozzle of injection machine.	Visual inspecti SR by R-gauge	ng, see if any material leaking, and measure the e.										
2	Check of the PL/inserts venting channel was blocked.	Visual inspection	on, clean as needed										
3	Check the plastic product.	Visual inspection product then in as needed.	on, see if has extra material and flashes on the spect the corresponding area on the mold. Repair										
4	Check whether the runner and gate could be ejected out normally.	Visual Inspecti last inspection	on, checking for any abnormalities between that and this one.										
5	Disassemble the hot runner from the mold and check whether the system is in normal working condition.	Check if any m temperature co	aterial leaking, &test the wiring circuit by ontrol box; Check to see of the valve pins are bent.										
6	Check all water/oil connector and circuits for leaks and flow.	Visual inspection Checking the v If you find poor	on, remove rust, replace fittings if damaged. vater and oil circuits for leaks and flow with a pump flow then the circuits will have to be cleaned out.										
7	Check all of the O-rings.	Check if it is da by every 250-3	amaged or aged; proposed to change all O-Rings 000K shots										
8	Clean out the cool running channels.	Wash cooling I	ines every 100K shots										
9	Check whether the slider and mold return system run properly.	Check all move be causing any	ement by hand. Repair any components that may restrictive movement.										



Project Name:		Mold No.:				Part	No.:						
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10	Check if the springs for slider and ejection system need to change.	Check if it has deformed, cra	cks, and enough strain to pull into stroke.									
11	Check if the ejector pins/lifters/stripper can mov smoothly.	e All movement should be che galling, wear and scratches.	cked by hand. Check for any deformation, Replace worn out components as needed.									
12	Check the function of limit switches.	Check all switches with multi	Check all switches with multi-meters.									
13	Check the ejection plates.	s. Check the flatness of plates to make sure no bending.										
14	Check the stop pins of ejection plate.	Check if any missing or loose	e. Replace or tighten as needed.									
15	Check the extensions of K.O.	Visual inspection, see if any needed.										
16	Check the mold guide pillars, bushings and angled horn pins.	Check if any scratches ,gallir good. Proposed to clean and 300K shots.										
17	Check all screws status.	Visual inspection, look for an needed.	y cracks or damage on threads, Replace as									
			Maintainer									
		A	bnormal Record:									
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Date	Description of Abnormality		Root Cause			D	isposal				Recc	order
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## **CUSTOMER COMPLAINT & CLAIM PROCESS:**

As a global plastic injection mold making company, BSK will provide an Efficient and Effective Customer Complaint & Claim Process for our aftersales service.

- \* Providing speed of response, quality advice, and efficient service for Technical issues and Concerns.
- \* Providing a fair and realistic settlement of valid claims in accordance with the policy terms and conditions.

In the event of a functional failure or damage to a received mold, the Customer shall have the responsibility to report the issue to BSK, immediately upon occurrence. Please note without BSK's consent, unauthorized treatment will ultimately affect the guarantee of tool life and the amount of claim.

#### **Contact Information:**

Phone: +86-769 8278 2319 E-Mail: sales@bskmould.com

## **Complaint & Claim**

1 Rece infor		input	Output	Explanation	Owner
	ceipt of Complaint prmation from customer	Complaint from customer in a written document, email or phone call ect.	Open Issues List Temporary Proposal & Solutions	<ul> <li>Project Engineer(PE) notify the complaint information to quality manager(QM) by written document.</li> <li>Respond to customer with BSK's proposal and temporary solutions within 24 Hs(one working day)</li> </ul>	PE
2 Com Conf Inve:	mplaint Receipt nfirmation & estigation Begins	Complaint in written document or E-Mail	Analysis the issue & confirm the responsibilities	• Quality Manager check the complaint from customer. Determine who's responsible and the related Dept. Project Engineer will communicate with customer and come to a consensus on how to proceed.	QM PE
3 Prep Solvi	epare 8D Problem lving report	Confirm the issues list	8D Problem solving report prepared	• Prepared the 8D report, sorted the description for the complaint and send to the related dept.	QM
4 8D R mee	Results Review eting	8D Problem Solving report	Meeting minutes & Corrective & Preventive actions	<ul> <li>Quality dept. organizes the related dept. which included: Marketing, Tool shop, Technology, ect to hold the review meeting. The review meeting should be held within 48Hs(2 working days), and the 8D report should be finished after the meeting;</li> <li>PE will send the 8D Problem Solving report to customer n the same day</li> </ul>	QM PE
5 8D F up	Findings/Action Follow	Corrective & Preventive actions	Result for the improvement & Closed the 8D report	• Quality Manager follow up the Corrective & Preventive action list to check the improving effect, and update the status every 2 weeks.	QM Toolshop
6 Conf if an	nfirm the Claim request, ny	Mold Claim Report from Customer	Signed Claim Report & All relevant documentation	<ul> <li>In case it is reasonable, provided all relevant documentation for top management reviewing and approving.</li> </ul>	PE Marketing Manager
7 Com	mpensate	Mold Claim Report	Credit Note Issue	<ul> <li>Issue the Credit Note and release money back to customer after approved by General Manager</li> </ul>	PE

Remark:

The complaint should be highlighted to General Manager directly for following situation:

1.In the case that the relevant dept. didn't confirm root cause should belong to its dept. and root cause is still unknown;

2.In the case of the relevant dept. didn't take actions for the complaint within required time period.



## **CLAIM DOCUMENTS**

#### Claims Documents(original) to facilitate us to process your claim:

Upon the occurrence of any issue giving rise or likely to give rise to a claim under this policy, You or your legal personal representative shall within Seven(7) days of the problems occurred.

- Give us a fully completed claim form( see next page for an example) (confirmed by signature)
- Make available to us all relevant information we ask for (this may include official receipts, reports, certificates and other written or photographic evidence we may require to help prove your claim).
- You or your legal personal representative must not admit, deny or negotiate any possible claim without our written consent.



## **Complaint & Claim**

BSK Mold Claim Report												
Customer	VENDOR OTHER:	Date:		(Rep. S/N):								
Company:					Tel.No.							
Atttn:					E-Mail:							
BSK Mold NO.					PO Amount							
1. Cause for Claim:												
2. Item and Cost												
		Ste	el	Q'ty(PCS/KG)		Price(USD)	Sum.(USD)					
	Material Cost											
		Proc	ess	Hourly rate(USD/	H)	Price(USD)	Sum.(USD)					
Claim Items												
	Machining Cost											
	-	Posi	tion	l ime-consume(F	1)	Price(USD)	Sum.(USD)					
	Labour cost											
		Ite	m	Oʻtv		Price(USD)	Sum (USD)					
	Other Item			C ty		1100(00D)						
3. Total Times:				3. Total Expenses:								
4. REMARKS:			5	5. BSK Confirm for responsibility:								
Prepared by		Checked By		Approved By								
Date		Date		Date								
Dear customer, on behalf of E within 7 days from the date th Thank you!	BSK we apologize for any inconvenience it mig at problems happened. Our relevant engineer	ght caused. Please fill out this form ac rs will negotiate with you on the detail	ccordingly and attach the docun ed compensation and sign it ba	nent in support of the amount claimed e. ack, which is officially regarded as the co	.g. invoices, receipts, etc mpleted and final settlen	e. Based on BSK's terms and nent for the claim. Look forw	I conditions, all claims must be submitted ard to your continuous support as always.					

## **B**-K