										Dept. Prepa	ared (Supplier or Dept,	In charge)		Dept. Ch				
ocess Qualit	ty Control Table											Quality Assu Musashi Au	urance Division to Parts India Pv	t. Ltd.		Honda Mot		td.
DEL	KONA	DESIGN	NATION OF PARTS	нѕ	(HA)	НВ		OTHERS								(neen	eveuj	
T NUMBER	23431-KONA-D000									Process Quality Contro	l Table (I)	Appro		Created by	E	BL BL	BL	BL
TNAME	GEAR- M2		2 11						11.	_		\ \ .	12 Do	008				
												1	K. (36)	FA				
												1		2010				
PROC	ESS FLOW CHART				0						SL No	PART NO	PART NAME	CONDITION OF COM	ORDER STATUS			MAKER NAME
		MATERIAL	STORAGE		C05	DENOT BLAG	CTING				1			OUTSOURCING		HOUSE		
	Y	WATERIAL	STORAGE		Cos	SHOT BLAS	STING				2	23431-KONA-D000 23431-KONA-D000	GEAR, M2 GEAR, M2	4		***		BHAGWAN AUTO SONIA FORGING
						-					3	23431-KONA-D000	GEAR, M2	4				AMTEK AUTO
	10	RECEIVING	G INSPECTION			PARTS	FOR ASSY							,				
	A	NE SELVIIV	o mer conen														-	
	0																	
	20	BROACHIN	NG															
	Ó																	
	30	HOBBING																
		HOBBING								0 8			11	2	-			
	0																	
						10.7												
	(40)		NG & CONDITION															
×.	× ×	CHECKING	9															
	0																-	
	C02																	
		PRE WASI	HING														-	
	0																	
1																		
	(003)	PRE HEAT	TING													(9)		
	× ×	×			(00)			*		¢ ,		4				- 0.00		
	Q		İ															
V.	50	0455::=:	200															
		CARBURIS	DING															
	Ó				8													
										14								k.
	C04	POST WA	SHING															
												-						
								2										
	60	TELLE	10							*			1	"			***	*
		TEMPERI	VG.															
h.		O																
															4			
	Flow process	s chart sy	mbols shall confir	m to JISZ8	3206 (Com	nposite syn	mbol : comi	oine sub job	symbo	in main job symbol)								
\supset	PROCESS		QUANTITY CHECK	4	CROSS PA	ART OF FLOW	V LINE	¥	\Diamond	MAINLY AS INSPECTING QUALITY AND DOING QUASPECTION	ТҮ з	11.03 2019	K0NA-E-173 PRELAUNCH RELEASE	UMASANKAR	PRASHANTH	RAHUL		QΛ
\Box	TRANSPORT	\Diamond	QUALITY CHECK	W	CONTROL	DIVISION OF	FLOW CHART	1						APPROVED BY	CHECKED BY	PREPARED BY		
▽	STORE		FLOW CHART	0	MAINLY AS	S PROCESSIN	NG PARTS AND	DOING			CODE	DATE	REVISION RECORD				D	EPARTMENT CHEC
					INSPECTION	N JN									CREATION DIVISION			

PROCESS QUALITY CHECK TABLE-II

IFG ORDER	PROCESS NAME SECONDARY SUPPLIER MACHINE, EQUIPMENT		CR	A P	- 1			RACTERSTICS			ř –					MANUFACTURI	NG CONDITION CO	NTROL			
		SI.NO.	CRITICAL	MODE	CONTROL ITEM	SPECIFICATION	PERSON IN CHARGE		MEASURING FREQUENCY			SINO	CRITICAL	CONTROL ITEM	SPECIFICATION	PERSON IN CHARGE	CHECK METHOD	MEASURING FREQUENCY	RECORDING FREQUENCY	CONTROL METHOD	ILLUSTRATIO
					Material	SCr420HV	RECEIVING QA	Supplier MTC (Latest by 6 months)	AS PER SAMPLING PLAN	AS PER SAMPLING PLAN	INCOMING IMNSPECTION REPORT										
		3			Hardness	80~95 HRB	1	Hardness lester	↑	1	1										
		100			Appearance	free from Burr dent damage Sherp corners & scraches etc	1	Visual	↑	1	1										
		4			Microstructure	Uniform distribution of ferrite & pearlife barnile 25% max	1	Microscope	1	1	1										
		5			Radius or Chamfer	R or C 0 5 1 2	1	Contour	↑	1	1										
		6			Diameter	Ø35 8-0 05/-0 35	1	Micrometer	1	1	1										
		7			Diameter (Both side)	Ø18/+03	1	D V.C/Contour	1	1	1										
		. 0			Angle (Both side)	120°±1° 30'	î	Contour	1	1	1										
		90	0		Runout	0.05 wrt A	1	Mandrill Dial & Bench centre	1	1	1										
		10			Roughness	Rz 100	1	Roughness tester/Visual	1	1	1										
		11		22.	Paral elism	0.02	1	. Reight gauge	1	1	1										
		12			Runout	0.02 wrt A	1	Mandrill, Dial & Bench centre	†	1	1										
	RECEIVING INSPECTION	13	0		Diameter	Ø14 8/+0 02	1	3 point micrometer / Bore gauge	1	1	1										
		14	0		Dimension	10-0.02/-0.08	î	Height gauge	Ť	1	1										
0		15			Roughness (both side)	Rz 12 5	1	Roughness lester	1	1	1										
		16			Roughness	Rz 12 5	1	Roughness tester	1	1	1										
		375			Roughness (both side)	Rz 100	1	Roughness tester/Visual	1	1	1										
		18			Radius or Chamfer	R or C 0 5-1 2	1	Contour	1	1	1										
		19			Roughness	Rz 12 5	1	Roughness lester	1	1	1										
		20			Diameter	Ø26 MIN	1	D.V.C./ Contour	1	1	1										
		21 "			Supplier identification	Supplier A : Radius on OD Supplier B : Chamfer on OD Supplier C : Feed mark on groove side chamfer	1	Visual	1	1	1										
		22			Dimension	3±0 2	1	D.V.C./ Contour	1	1	1										
		23			Roughness	Rz100	1	Roughness tester/Visual	1	1	1										
		24			Dimension	0 1~0 3	1	DVC/Contour	1	1	1										
		25			Dimension	2-25	1	D.V.C / Contour	1	1	î										
		(26)			Radius	R	1	Visual/Contour	1	1	1										
		27			Hazardous or ELV	Hazardous iterris should be within limit	1	ELV or Hazardous report	1	1	1										
		28			Hazardous or ELV	Hazardous items should be within limit	1	ELV or Hazardous report	1	1	1					1					• 1
		à	◊		MINOR DIAMETER	Ø15 ^{-0 000}	QA	СММ	1/SET UP & TC	1/SET UP & TC	SETTING APPROVAL SHEET & report	1	◊	RESTING CONDITION	NO DENTS	LINE ASSOCIATE	VISUAL	17 SHIFT	1 / FIRST SHIFT	EQUIPMENT CHECK SHEET	
						0K	1	PLAN PLUG GAUGE	1/50	1/50	LOT CONTROL & INSP CHECK SHEET										2RS
		2	٨		RET DALL DIA	13 023 ±0 01	1	SLIP GAUGE & PIN Ø2/1 68	5/SET UP & TC	5/SET UP & TC	SETTING APPROVAL SHEET DAILY CHECK SHEET										ME TI 50.08 50.03 (3.023
		0.61	◊		BET BALL DIA.	ок	1	SPLINE GO & NO GO GAUGE	1/50	1/50	LOT CONTROL INSPECTION CHECK										PARAMETER ≤0.08 ♦ ≤0.03 13.023±0
		3			MAJOR DIA	Ø17.01******	QA	СММ	1/SET UP & TC	1/SET UP & TC	SHEET SETTING APPROVAL SHEET									D. C.	
		4	\Diamond		FACE RUNOUT	≤0.03	LINE ASSOCIATE	TAPER MANDREL &	5/SET UP & TC	5/SET UP & TC	SETTING APPROVAL SHEET										CCNTRUL OIL KUNDUT FACE KUNDUT 230 PIN DIA
	BEOTONICO							DIAL INDICATOR	1/50	1/50	LOT CONTROL & INSP CHECK SHEET					341			- v		Ø€@
0	BROACHING	5			OD RUNOUT	≤0.08	LINE APPOPLATE	TAPER MANDREL &	5/SETUP & TC 1/50	5/SETUP & TC 1/50	SETTING APPROVAL SHEET										
		25%			SPLINE FLANK	SUUD	LINE ASSOCIATE	DIAL INDICATOR	1/50	1/50	LOT CONTROL SHEET& INSPECTION CHECK SHEET		2.			-					29
		6			SURFACE ROUGHNESS	≰Rz 12 5	QA	ROUGHNESS TESTER	1/SET UP & TC	1/SET UP & TC	SHEET & REPORT										
									5/SETUP & TC	5/SETUP & TC	SETTING APPROVAL SHEET										
į.		7		140	INV S 17X15X1.0 FULL FORM	.9K	LINE ASSOCIATE	SPLINE PLUG GAUGE	1/50	1/50	LOT CONTROL & INSP CHECK SHEET	- XX			· ·			3.	-		
		6			APPEARANCE	NO DENTS & BURRS	LINE ASSOCIATE	VISUAL	100%	=	***								-		
		1,6			1	NO DOUBLE OPERATIONS	1	↑	1	-	20									-	

ORDER	PROCESS NAME SECONDARY SUPPLER MACHINE, EQUIPMENT		Ω	-27				ARACTERSTICS								MANUFACTUR	ING CONDITION CO	NTROL			
		SI NO.	RITICAL	MODE	CONTROL ITEM	SPECIFICATION	PERSON IN CHARGE	CHECK METHOD	MEASURING FREQUENCY	RECORDING FREQUENCY	CONTROL METHOD	SINO	CRITICAL	CONTROL ITEM	SPECIFICATION	PERSON IN CHARGE	CHECK METHOD	MEASURING FREQUENCY	RECORDING FREQUENCY	CONTROL METHOD	HOD ILLUSTRAT
		1	\rightarrow		OBD (BALL 3 175)	34 769-34 789	LINE ASSOCIATE	OBD MICROMETER (25~50) & OBD LOCATOR	5/SET UP & TC	5/SET UP & TC	SETTING APPROVAL SHEET	1	\Q	DIA WEAR LIMIT & ONE TOUCH ARBOUR R/O	0 010 MAX & Ø14 995 -co12	LINE ASSOCIATE	MICROMETER DIAL INDICATOR & MAGNETIC STAND	1/SHFT	1 / FIRST SHIFT	EQUIPMENT CHECK #HEET	
			~		1	1	1	1	1/50	1/50	LOT CONTROL & INSP CHECK SHEET	ž	\Diamond	HOB ARBOUR R/O	0 010 MAX	1	DIAL INDICATOR & MAGNETIC STAND	↑	↑	1	
		2	\lambda		PCD R/O	s0 04	1	PCD R/O TESTER (PIN M2)	5/SET UP & TC	5/SET UP & TC	SETTING APPROVAL SHEET	3	\Diamond	FIXTURE CONDITION	NO DENTS	1	VISUAL	\uparrow	1	1	states for
			_		1	1	1	1	1/50	1/50	LOT CONTROL & INSP CHECK SHEET										80.0 Mo. 1
		3			PROFILE	AS PER TABLE	QA	GEAR TESTER (PROBE Ø1 5)	1/SET UP & TC	1/SET UP & TC	SETTING APPROVAL SHEET & GRAPH										(i) 10 mg/1
30	HOBBING				LEAD	AS PER TABLE	T		1/50	1/50	GRAPH SETTING APPROVAL										8 14 12 17 9
		4			1	↑	1	1	1/SET UP & TC	1/SET UP & TC	SHEET & GRAPH										(i) are two stores
		5			DOOT DAMETED		-	1		1/50	GRAPH SETTING APPROVAL SHEET & LOT										
					ROOT DIAMETER TOOTH SURFACE	Ø26 5 ° _{-0 30}	LINE ASSOCIATE	СММ	1/SET UP & TC	1/SET UP & TC	INSP.CHECK SHEET										
		6			ROUGHNESS	≤25 Rz	QA.	ROUGHNESS TESTER	1/SET UP & TC	1/SET UP & TC	SETTING APPROVAL SHEET & REPORT										
		7			APPEARANCE ↑	NO DENTS & BURRS NO DOUBLE OPERATIONS	LINE ASSOCIATE	VISUAL ↑	100%	:=											
		1			JIG SETTING OF COMPONENT	SEE NOTE IN PROCESS SHEET	LINE ASSOCIATE	VISUAL	1/LOT			1		BASE TRAY	NO CRACK BEND						
		2			SETTING CONDITION										,DAMAGE	LINE ASSOCIATE	VISUAL	1/LOT	_	TTC.4	
40	JIG SETTING & CONDITION CHECKING	Ť:			SETTING CONDITION	NO COLLAPSE	I	T	Î	344		2		STACKING BASKET	1	1	1	1	-	##?	
												3		MESH	1	1	1	1	=	##3	
						NO OIL, NO DIRT ON															
	PREWASHING & POST WASHING	1			APPEARANCE	THE COMPONENT	LINE ASSOCIATE	VISUAL	100%	222	272						FOR NACHI MACH	line			
& C04												1		TEMPRATURE	110±10°C	LINE ASSOCIATE	DIGITAL TEMP INDICATOR	1/SHIFT	1/FIRST SHIFT	EQUIPMENT CHECK SHEET	
												2		WASHING TIME	20±5 MIN	LINE ASSOCIATE	TIMER	1/LOT	1/LOT	EQUIPMENT CHECK SHEET	
	PRE-HEATING	1			JIG SETTING	SEE NOTE-2	LINE ASSOCIATE	VISUAL	100%	=	120	1		TEMPRATURE	400±10°C	LINE ASSOCIATE	CONTROL METER	EACH LOT	EACH LOT	EQUIPMENT CHECK SHEET	
										¥2.		2		PRE HEATING SOAKING TIME	110±10 MINUTES	LINE ASSOCIATE	TIMER	EACH LOT	EACH LOT	↑	
C03												3		HEATING VOLTAGE	350~450V	LINE ASSOCIATE	VOLTMETER	EACHLOT	EACH LOT	<u>,</u>	
												4		HEATER CURRENT	50~70A	LINE ASSOCIATE	AMMETER	EACH LOT	EACH LOT	1	
		1	_		CASE DEPTH	0 3-0 5 MM	QA	MICRO VICKERS (CUT			CCF PROCESS										4 0
		2	~		SURFACE HARDNESS(BEFORE	80-85 HRA	<u>+</u>	OFF, 513 HV LOAD 0 3KG ROCKWELL	1/LOT	1/LOT	CONTROL SHEET						FOR CCF				
					TEMPERING) SURFACE	(REFERENCE)	<u> </u>	HARDNESS TESTER (LOAD 60KG)	5/LOT	5/LOT	1	t:	♦	HEAT UP TEMP	890°±10° C	LINE ASSOCIATE	CONTROL METER	EACH LOT	EACH LOT	CCF PROCESS CONTROL SHEET	
		3	♦		HARDNESS(AFTER TEMPERING)	78-83 HRA	1 4	↑	1	<u>*</u> 1	1	2	.0	HEAT UP TIME	50±5 MIN	* 1	RECORD METER	1	. 1	1	250
		4	♦		CORE HARDNESS	25-45 HRC	1	ROCKWELL HARDNESS TESTER (LOAD 150KG)	1/LOT	1/LOT	1	3	♦	CARBURISING TEMP	900±10 C	1	CONTROL METER	1	1	↑	
	CARBURISING &	5	♦		MICRO STRUCTURE AT SURFACE	FINE TEMPERED MARTENSITE	1	MICROSCOPE	1	1	1	4	♦	CARBURISING TIME	150±15 MMUTES	1	RECORD METER	1	1	1	
& 60	TEMPERING	6	♦		MICRO STRUCTURE AT CORE	LOW CARBON TEMPERED MARTENSITE	1	MICROSCOPE	1	1	1	5	\Diamond	HARDENING TEMP.	830°C±10°C	1	CONTROL METER	1	1	1	
	- 1	7			APPEARANCE	FREE FROM OIL	LINE ASSOCIATE	VISUAL	EACH LOT		-	6	♦	HARDENING TIME	30±10 MINUTES	1	RECORD METER	1	1	1	
					7							7	♦	QUENCH OIL TEMP.	140°±5°C	1	CONTROL METER	1	1	1	
				-								8	♦	QUENCHING TIME AGITATOR RPM	10±5 MUNUTES	1	RECORD METER	1	1	1	
7.5								6				10	♦	TEMPERING TEMP	200 rpm	<u>↑</u>	INDICATOR CONTROL METER	↑	↑	<u> </u>	
												11	♦	TEMPERING TIME	140±5 MINUTES	1	RECORD METER	1	<u> </u>	<u> </u>	
		1			APPEARANCE	FARTS SHOULD FREE FROM SCALES, BURRS AND SHOTS		VISUAL	100%	1755	tee	1		SHOT BLASTING TIME	OB MINUTES	LINE ASSOCIATE	TIMER	EACH LOT	1 112	***	
												2		SHOT SIZE	Ø0.6 MM ROUND SHOTS	LINE ASSOCIATE	-	Sec	-		
cos	SHOT BLASTING											3		AIR PRESSURE	5 ~ 6 KG/CM ¹	LINE ASSOCIATE	PRESSURE GAUGE	1/SHIFT	1/FIRST SHIFT	EQUIPMENT CHECK SHEET	
										v :		4		IMPELLER MOTOR CURRENT (UPPER & LOWER)	10 ~ 12 A	: t	AMMETER	1 .	t	t	8.
						11			11			8		ID MOTOR CURRENT (UPPER & LOWER)	20 A MAX	1	AMMETER	1	1	t	
	PARTS FOR ASSEMBLY											6		MANOMETER READING	PSIG 15 MAX	<u>†</u>	MANOMETER SCALE	†	1	<u>†</u>	
														II.							