• ME	1•				Process Flo	ow [Diagram		
PART NUMBER:			3226 -T-1112 / Rev : T - 15.07.2015				DATE & REV:	REF. AMENDMENT HISTORY	
PART DESCRIPTION:			CAGE THRU SHAFT				PFD NO :	PFD / CTS / 001	
MACHINE :			CNC TURNING CENTRE , DOOSAN 3 & 13				PAGE NO:	1 of 2	
Core Tea	m: N. Partha	asarathy, H	.S. Srinivas	s, S.M. Ser	nthil Kumar, L. Pradhap, Karu	unakaran,	Raju.	l	
STEP	OPERATON	MOVE	STORE	INSPECT	OPERATION DESCRIPTION	ITEM #	PRODUCT AND PROCESS CHARACTERISTICS	QCC # and Symbol (if applicable)	CONTROL METHODS
5				٧	Receiving Inspection - Casting	1	As per Supplier Report	-	Refer Supplier Report
10	٧				Machining - 1st Setup	1	Bore dia U/S or O/S	-	Plug Gauge
20	٧				Painting	1	Paint Peel off	<i>(</i> 7)	Visual
	٧			1	OD Oversize / undersize	3	Air Gauge		
30					Machining - 2nd Setup	2	OD roughness Variation	8	Finish Tester
						3	Pilot Flange Thickness variation	9	Snap Gauge
	V				Machining - 3rd Setup	1	Bearing Shoulder Runout	2	Spl. Gauge
						2	Bearing bore Dia over size / Under Size	1	Air Gauge
						3	Pilot dia Runout - Bearing & Seal bores	4	Spl. Gauge
						4	Seal bore Dia over size / Under Size	(5)	Air Gauge
40						5	Pilot Flange Squareness & Stand Height	<u>6</u>	2D Height Gauge & CMM
						6	ID roughness Variation	8	Finish Tester
						7	Groove With & Position	10	Width Gauge
						8	Excess flash / uneven surface	-	Visual
						9	Casting roughness / Hardness Variation	-	Hardness Tester
F0	٧				MH Drilling and Deburring	17	Mounting Hole Ture Position		Receiver Gauge
50						18	Free from burr, sharp corners, Rust etc	-	Visual
60	٧				Washing	1	As per SOP	-	Visual
70	٧				Dewatering & RP Oiling	1	As per SOP	-	Visual
80				٧	Final Inspection (PDI)	1	As per SOP	-	Visual & Gauge Inspection
90				٧	Packing & Layer Audit	1	As per SOP	-	Visual
100				٧	Dock Audit	1	As per SOP	-	Visual & Gauge Inspection
Legend - Meritor QCC Symbol (Denotes Major Characteristics)						- Meritor QCC Symbol (Denotes Safety Related Characteristics)			
repared	l By: H. S. Sri	inivas				Approved	d By: N. Parthasarathy		

AMENDMENT HISTORY								
Rev No	Date	Nature of Change						
0	21.03.2014	New Release						
1	23.05.2014	QCC parameters added						
2	12.06.2014	Meritor QCC Symbol added, Incoming source variation and product characteristic output updated						
3	13.09.2014	Process sequence modified - MEIL,MM Nagar						
4	12.11.2014	Machining location changed to M.City and process sequence changed						
5	21.03.2015	Customer Drawing Revised						
6	07.05.2018	In-House Painting on Flange OD and face						
7	22.08.2022	Post machining Process Sequence Changed						