

DIE BUY OFF CHECK LIST



PART NUMBER:	PROJECT:	SPM:
PART NAME:	DIE PROCESS:	TONNAGE:
PITCH:	WIDTH:	THICKNESS:

1	DYNAMIC	YES	NO	NOTES
	1.- HAS THE DIE PILOTS AND / OR LOCATORS IN EACH STATION ?			
	2.- HAS THE DIE FRENCH STOP (OR SIMILAR), SENSOR FINGERS AND FINAL SENSORS?			
	3.- ARE THE TRIM AND PIERCE HOLES FREE OF SCRAP ACCUMULATION?			
	4.- DOES THE DIE HAVE ENOUGH PLUNGERS AND EJECTORS TO AVOID PART BE PULLED UP BY STRIPPER PAD?			
	5.- IS THE DIE SPEED (SPM) THE APPROPRIATE ? IS THE PRESS SPM APROPRIATE? WRITE IT			
	6.- IS THE PROCESS STABLE ?			
	7.- IS THE SENORS SYSTEM WORKING PROPERLY?			
	8.- ARE ALL THE DIE COMPONENTS FUNCTIONAL AND WITHOUT INTERFERENCES ?			
	9.- IS THE PART DISCHARGED CORRECTLY TO THE CONVEYOR ?			
	10.- IS THE DIE IN THE APPROPRIATE PRESS ACCORDING THE TONNAGE REQUIRED BY THE PART ?			
	11.- DOES THE PART REQUIRES LUBRICATION ?			
	12.- ARE EACH PUNCH AND BUTTON DIE ALIGNED CORRECTLY? CHECK ALL HOLES AND TRIMS IN THE PART.			

2	QUALITY	YES	NO	COMMENTS/ NOTES
	1.- PART QUALITY APPEARANCE IS ACCEPTABLE RESPECT TO:			
	A) FREE OF WRINKLES			
	B) FREE OF BURRS			
	C) PART EDGES WITHOUT DAMAGE			
	D) FREE OF SPLITS			
	E) FREE OF DRAGGING			
	F) FREE OF MARKS OR HITS			
	2.- IS THE PART QUALITY DIMENSIONAL, ACCEPTABLE ACCORDING TO THE CHECKING FIXTURE ?			
	3.- THE PART COMPLIANCE WITH A 1.66 CP AND 1.33 CPK, ACCORDING TO CMM MEASURES ?			
	4.- IS THE PART AT THE LATEST ENGINEERING LEVEL ?			
	5.- IS THE MATERIAL SPECIFICATION ACCORDING TO THE APL ?			
	6.- VERIFY(CHECK WITH MICROMETER) DRAWS &/OR FORMINGS WITH RISK OF THINING, SPLITS OR CRACKS USING LIQUIDS OR SECTION CUTS FOR BETTER INSPECTION.			

3	STATIC UPPER DIE.	YES	NO	COMMENTS/ NOTES
	1 HAS THE DIE LIFTING HOOKS (THREAD HOLES FOR EYE BOLTS IF IS NESCESARY)?			
	2 IS THERE AN INTERFERENCE WHEN OPENING THE DIE.			
	3 IS THERE A DAMAGED COMPONENT ON THE DIE			
	4 ARE STRIPPERS ARE PROPERLY ATTACHED, BALANCED, AND LEVELED?			
	5 WHEN STRIPPERS ARE BEING DISASSEMBLED, IS THERE ANY INTERFERENCE?			
	6 ARE THE STRIPPER PADS GUIDED WITH AMPCO GUIDES AND STANDARD LIFTER OR DADCO RETAINER?			
	7 WEAR PLATES : STEEL OVER BRONZE WITH GRAPHITE PLUGS			
	8 ARE THE NYTRO CONTROL PANEL PLACED IN A SAFETY PLACE AND WITH STANDARD CONEXIÓN, AND ALL NYTRO CILINDERS COMPONENTS ARE DADCO BRAND ?			
	9 DOES EXIST A PLATE WITH NYTRO FILL INFORMATION EACH DIE STATION (CAN BE ENGRAVED ON DIE SHOE)?			
	10 ARE NYTRO CYLINDERS PROPERLY ATTACHED WITH SCREWS OR MOUNTING FLANGES ?			
	11 ARE THE NYTRO CYLINDER FULL, AND WITHOUT LEAKS ?			
	12 ARE NYTRO CYLINDERS USING 90% OF STROKE?			
	13 DOES EXIST ANY DIE COMPONENTS IN BAD CONDITIONS (PUNCHES, DIES BLADES,FORMING INSERTS, ETC.)			
	14 HAS IT PUNCHS BALL LOCK TYPE, AND ARE THEY WELL LOCKED ?			
	15 ARE ALL THE FORM, DRAW AND BENT SECTIONS WELL POLISHED ?			
	16 DOES EXIST A GAP BETWEEN THE INSERTS JOINS ?			
	17 ARE THE CAMS MADE WITH POSITIVE RETURN ARM ?			
	18 DO WE HAVE CORRECT SCREW SIZE AND PROPERLY TIGHTEN?			
	19 HAS THE STRIPPER SPRING PLUNGERS TO PREVENT THE PART STICKING ?			
	20 IS THERE ANY FRICTION BETWEEN THE STRIPPER AND THE DIE COMPONENTS ?			
	21 ARE THE PUNCH HOLDERS IN WELL CONDITIONS AND DOWELED PINS ?			
	22 HAVE THE PUNCHS SHEAR ANGLE AND EJECTORS ?			
	23 ARE ALL THE DIE COMPONENTS FREE OF WEAR?			
	24 IN DRAW, OR FORMING STATIONS, ARE THERE ACCESS FOR THE LUBE PIPING? Ø8.0MM HOLE SIZE.			

4 LOWER DIE.		YES	NO	COMMENTS / NOTES
1.- DOES EXIST COMPONENTS WITH DAMAGE ?				
2.- DOES EXIST SCRAP ACCUMULATION ON DIES OR BLADES (MAX. 5 SCRAPS) ?				
3.- ARE ALL THE SCRAP EXITS WITHOUT OBSTRUCTIONS ?				
4.- ARE ALL THE DIE COMPONENTS PROPERLY THIGHTEN (FORMING INSERTS, DIES, ETC) ?				
5.- ARE FORMING AND DRAWING COMPONENTS PROPERLY POLISHED ?				
6.- DOES EXIST STARTING AND FINAL SENSORS (IN PROGRESSIVE DIES) OR IN EACH DIE STATIONS (IN TRANSFER DIES), AND THE SENSORS WIRE IS PROTECTED AND READY TO WORK IN PRESS ?				
7.- DOES EXIST ADJUSTABLE AND FIXED FEEDING MATERIAL GUIDES? (BLANK/PART LOCATORS IN TRANSFER DIES)				
8.- ARE LIFTERS PROPERLY THIGHTEN, WITH 3 RETAINERS TO AVOID ROTATION, GAS SPRINGS WITHOUT LEAKS.				
9.- DOES EXIST A START LINE IN RED?				
10.- DOES EXIST A JULIAN DATE HOLDER PER PART IN EACH DIE (QUICK CHANGE FOR PROG. DIES).				
11.- HAS THE DIE 4 STORAGE BLOCKS (NYTRO) ?				
12.- HAS THE DIE FAST CENTERING HOLES TO CENTER IT IN THE PRESS BOLSTER ?				
5 GENERAL DIE REVIEW		YES	NO	COMMENTS / NOTES
1.- IS THE DIE PROPERLY IDENTIFIED: PART NUMBER, PROCESS FLOW, DIE WEIGHT, FRONT, ID PLATE WITH BASIC INFORMATION OF PART & DIE, ETC.				
2.- IS THE DIE PAINTED PROPERLY ?				
3.- ARE LIMIT BLOCKS PAINTED ON RED?				
4.- DO DIE COMPONENTS HAVE THE RIGHT HARDNESS (DIES, PUNCHS, FORMS).				
5.- DO ALL DOWEL PINS HAVE THREAD HOLE FOR EASY REMOVAL ?				
6.- ARE THERE BOTTOMING MARKS (FOR DIE SH ADJUST) IN THE FORM AND RESTRIKE OPERATIONS ?				
7.- HAS THE DIE A POST AND BUSHING DISALIGNED TO AVOID AN INCORRECT CLOSURE ?				
8.- ARE THERE PROPER RAMPS FOR THE SCRAP EXITS ?				
9.- HAS THE DIE THE CORRECT SHUT HEIGHT ACCORDING TO THE ASSIGNED PRESS ?				
10.- HAS THE CLAMP SLOTS THE CORRECT HEIGHT, WIDE AND DISTANCE BETWEEN CENTERS ?				
11.- ARE ALL DIE COMPONENTS FREE OF WELDING OR SHIMS ?				
12.- ARE ALL DIE COMPONENTS CORRECTLY IDENTIFIES IN THE BACK SIDE ?				
13.- ARE ALL DIE COMPONENTS, IN THE METRIC SYSTEM?				
STATIC HOME LINE REVIEW				
6 DIE RECEIVING		YES	NO	COMMENTS / NOTES
1.- PACKING CONDITION, VISIBLE DAMAGES, COMPONENTS ARE GREASED?				
2.- ARE PIERCE PUNCHES AND FORM PUNCH IN GOOD CONDITIONS? (FREE OF DRAGGING, WEARING, ETC)				
4.- HAS THE DIE JULIAN DATE HOLDER? IF YES, PUT THE JULIAN DATE IN.				
5.- ARE SCREWS AND DOWEL PIN PROPERLY THIGTEN?				
6.- HAS THE CONTROL PANEL THE CORRECT NITROGEN CHARGE? IF NOT CHARGE IT.				
7.- ARE THERE SPARE PARTS WITH THE DIE? (DELIVER TO THE WORKSHOP LEADER).				
8.- DO THE DIE COMES WITH SAMPLE PARTS.? IDENTIFY THEM AND SEND THEM TO QUARANTINE				
9.- IF THE CHECKING FIXTURE IS INCLUDED WITH THE DIE - IS FREE OF VISIBLE DAMAGES ?- GIVE NOTICE TO THE QUALITY ENGINEER FOR DISPOSAL.				
10.- IS THE DIE PROPERLY IDENTIFIED?(CUSTOMER NUM. ,PROCESS FLOW, ID PLATE, FRONT)				
11.- IS "PROPERTY OF XXX" TAG INSTALLED PROPERLY				
DYNAMIC HOME LINE BUY OFF				
7 DIE MOUNTING		YES	NO	COMMENTS / NOTES
1.- DO DIE CENTERING HOLES MATCH WITH THE BOLSTER HOLES?				
2.- DO THE LOWER CLAMPING SLOTS MATCH WITH THE PRESS BOLSTER ?				
3.- DO THE LOWER CLAMPING SLOTS MATCH WITH THE PRESS RAM ?				
4.- DO THE SCRAP CHUTES MATCH WITH THE BOLSTER WINDOWS?				
5.- IS THE SHUT HEIGHT CORRECT ACCORDING THE PRESS				
6.- IS THE CORRECT FEEDING HEIGTH (OR PASS LINE IN TRANSFER) ?				
8 DIE PRODUCTIVITY		YES	NO	COMMENTS / NOTES
1.- HAS THE DIE PILOTS AND LOCATORS IN EACH STATION ?				
2.- ARE ALL THE DIE COMPONENTS FUNCTIONAL AND WITHOUT INTERFERENCES ?				
3.- HAS THE DIE SCRAP ACCUMULATIONS ON THE CUTTING ZONES ?				
4.- HAS THE DIE, SCRAP ACCUMULATIONS ON THE PRESS BOLSTER ?				
5.- IS THE DIE SPEED (SPM) THE APPROPRIATE ? IS THE PRESS SPM APROPIATE? WRITE IT				
6.- IS THE PROCESS STABLE ?				
7.- ARE ALL THE DIE COMPONENTS FUNCTIONAL AND WITHOUT INTERFERENCES ?				
8.- IS THE PART DISCHARGED CORRECTLY TO THE CONVEYOR ?				
9.- IS THE DIE IN THE APPROPRIATE PRESS ACCORDING THE TONNAGE REQUIRED BY THE PART ?				
10.- DOES THE PROCESST REQUIRE LUBRICATION ?				
A) CONTINUOS				
B) WITH ESTABLISHED FREQUENCY (EVERY 3 OR 5 PARTS)				
11.- HAS THE PART MINIMUM 80% OF BEARING AGAINST THE DIE? CHECK WITH BLUE PAINT ON EACH STATION EVERY REQUESTED CONTACT AREA.				

9 QUALITY PRODUCT		YES	NO	COMMENTS / NOTES
1.- PART QUALITY APPEARANCE IS ACCEPTABLE RESPECT TO:				
A) FREE OF WRINKLES				
B) FREE OF BURRS				
C) PART EDGES WITHOUT DAMAGE				
D) FREE OF SPLITS				
E) FREE OF DRAGGING				
F) FREE OF MARKS OR HITS				
2.- IS THE PART QUALITY DIMENSIONAL, ACCEPTABLE ACCORDING TO THE CHECKING FIXTURE ?				
3.- IS THE JULIAN DATE COMPLETE(ALL NUMBERS) AND IN THE CORRECT POSITION?				
4.- THE PART COMPLIANCE WITH A 1.66 CP AND 1.33 CPK, ACCORDING TO CMM MEASURES ?				
5.- IS THE PART AT THE LATEST ENGINEERING LEVEL ?				
6.- IS THE MATERIAL SPECIFICATIONS ACCORDING TO THE APL ?				
7.- VERIFY(CHECK WITH MICROMETER) DRAWS &/OR FORMINGS WITH RISK OF THINING, SPLITS OR CRACKS USING LIQUIDS OR SECTION CUTS FOR BETTER INSPECTION.				
10 CONDITIONS/ TRY OUT IMPORTANT PARAMETERS/ MOUNTING				
1.- DIE SHUTHEIGHT:				
2.- RECOMMENDED STROKES PER MINUTE:				
3.- TONNAGE REQUIRED BY THE DIE DURING THE BUY OFF: PER COLUMN..... FR: FL: RR: RL: TOTAL:				
4.- REQUIRED BLANK SIZE (THICKNESS/WIDTH/PROGRESSION):				
5.- PITCH DISTANCE, AND LIFTERS HEIGHT FROM THE DIE BASE ON TRANSFER DIES:				
6.- GAS SPRING CHARGE ON EACH PLATE BY STATION(INDICATE POSITION):				
7.- STRAIGHTENER 'S ROLL PRESSURE:				
8.- OPENING DEGREES ON FEEDER 'S ROLLS:				
9.- DEGREES ON SCREEN FOR SIGNAL ACTIVATION FOR EACH SENSOR:				

