

Initial Release February 2021

Yanfeng Global Automotive Interior Systems Co. Ltd. (hereinafter referred to as "YFAI") Special Tooling Definitions and Cost Guidelines

"This document is non-severable and shall be viewed in its entirety at all times"

Special Tooling vs. Facilities, and Capital/Supplier Owned Equipment Overview

- 1. YFAI owned special tools are used in conjunction with Supplier facilities and equipment to produce parts exclusively for YFAI. Examples of facilities are, but are not limited to, buildings, offices, and loading bays. Examples of capital equipment are, but are not limited to, stamping presses, molding machines, special purpose machines, and automated material handling equipment. It is expected that the Supplier will own or purchase facilities and capital/supplier-owned equipment items and capitalize these fixed cost investments for recovery in the piece price to YFAI.
- 2. Special tooling will be authorized on a YFAI Tooling Purchase Order.

Clarification of Issues Concerning Special Tooling

- 3. YFAI will determine whether a request is for special tooling or capital equipment.
- 4. Supplier quotes, tool orders and amendments must include a sufficient detailed tool description (a detailed line entry for each tooling item) to enable the YFAI-owned or OEM special tooling to be clearly identifiable on all documentation and during a physical review.

Purchasing Capital/Supplier Owned Equipment

- 5. YFAI expects the Supplier to have or to purchase the facilities and capital equipment required (in conjunction with special tooling) to produce the YFAI part. In very exceptional circumstances, YFAI may pay for capital equipment for use by the Supplier. An agreement for YFAI to pay for this equipment must be made in writing before acquisition and should be supported with a separate YFAI Purchase Order. There are no circumstances where YFAI will purchase facilities or capital equipment on a Tooling Purchase Order.
- 6. When capital equipment and special tooling items are purchased together, the allocation of the special tooling portion will be determined by YFAI.

Special Tooling Guidelines and Definitions

- 7. It is the responsibility of each Supplier to ensure its sub-suppliers adhere to these guidelines and definitions.
- 8. "Special Tooling" is tooling, as referenced in this document, specifically designed for the production of, and is used unique to, a YFAI part. Its intended life (without substantial modification or alteration) is limited to the production of the part for which it was designed. Special Tooling may be relocated to another supplier for use on its equipment and facilities. If it is designed specifically for the Supplier's



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owned equipment and facilities, it should be modifiable to suit another supplier with similar equipment and facilities.

- 9. Generic tooling general purpose items and equipment are excluded from "Special Tooling", even if these items are dedicated to the YFAI part. Examples are off the shelf items and include but are not limited to expendable tools, drill motors, impact guns, wrenches, etc.
- 10. Parts with a tooling base that are subject to a high rate of wear, that in total will not provide twelve months requirements of the part, should be considered as consumable tooling with their cost recovered in the piece price. Specific instances, which deviate from the recover-in-piece-price rule, will be determined by YFAI.
- 11. YFAI will pay only the actual cost of making the tool. Any percentage mark-up applied to a subsupplier's tooling invoice will not be allowed.
- 12. It is not allowable for a YFAI manufacturing Supplier to make a profit on special tooling manufactured by a sub-supplier. Incremental costs associated with the procurement, engineering, management, etc. are considered to be a part of the Supplier's overhead cost and should be recovered in the production piece price.
- 13. Where a Supplier designs, develops, or manufactures special tooling internally or by a Related Entity (a tool build source where the Supplier has an equity or other "significant" influence on such entity in YFAI's determination), and the internal engineering center, tool shop and/or related entity are accounted for as separate profit centers, then a reasonable profit margin on the cost of design and manufacture of special tooling is allowable as determined by YFAI. All overhead cost and profit associated with the design and manufacturing of special tooling should be included in fully accounted tooling labor rates. These costs must be included in the tooling quote and included and identified on the YFAI Purchase Order.
- 14. Funding for prototype Special Tooling, which will not be used to produce parts, will be provided through the YFAI Product Development budget. Prototype Special Tooling, which will be used to produce production parts (e.g. black tooling) will be treated as normal production Special Tooling, and be funded using a YFAI Tooling Purchase Order. It is mandatory that only production capable prototype special tooling, which will be used to produce production parts, be funded in this manner.
- 15. In the event that only a portion of the prototype Special Tooling will be used to produce production parts, the amount representing this portion should be clearly identified as a separate cost item on the prototype YFAI Purchase Order (e.g. binder development, for later transfer to the production YFAI Tooling Order). When this cost is not clearly identifiable, then the cost of the special tooling portion will be determined by YFAI.
- 16. YFAI retains the right to determine the allowable Special Tooling cost.



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- 17. When Special Tools are maintained and/or utilized at the Supplier's and its sub-suppliers' manufacturing plants, the Supplier and its sub-suppliers are responsible for maintaining special tool location records that can be provided immediately upon request to YFAI. The information that should be readily available includes but is not limited to:
 - a. YFAI Special Tool identification number which needs to be permanently affixed to the Special
 - Tool (this number is documented on the YFAI Tooling Purchase Order),
 - b. Special Tool description,
 - c. YFAI Tooling Purchase Order number authorizing the acquisition/construction of the Special Tool,
 - d. City and state where the Special Tool is located, and
 - e. Evidence of Supplier's compliance with the tool tagging requirements of YFAI's customer.

Supplier Record Retention and Expectation

- 18. <u>Tooling Cost Documentation</u> A reasonable accounting system must be maintained by the Supplier to segregate, accumulate, and document expenditures incurred for tooling. The Supplier's accounting system must ensure that all eligible tooling costs are documented adequately and at a minimum include the following:
 - a. <u>In-House Costs</u> Where all or major portions of the tooling are fabricated "in-house" by the Supplier, and the tool shop is identified and budgeted as a separate profit center, Suppliers may request a reasonable profit margin on the cost of tooling constructed. Detailed job transaction reports generated from the profit center must be included as documentation supporting tooling costs incurred. YFAI retains the right to determine the allowable reasonable profit margin and to perform compliance and substantive testing of the accounting systems.
 - b. <u>Materials</u> Material costs should be supported by material requisitions that indicate quantities and unit cost by YFAI Tooling Purchase Order. Materials will be reimbursed at actual costs, based on material invoices and proof of payment (i.e., cancelled checks). An accepted method of determining actual unit cost is to develop an average purchase price based on the past three purchases. Material cost should be reduced for any material recovered from tooling authorized for disposal and for material used for prototype parts that were purchased under a separate YFAI Purchase Order.
 - c. <u>Labor Rate</u> Labor costs are developed by applying a fully accounted labor rate to the direct hours worked to design and build the tooling. The fully accounted rate should include direct labor, indirect labor, fringe benefits, payroll taxes, and overhead. YFAI retains the right to determine the allowable rate.
 - d. <u>Subcontracted Work</u> All work sub-contracted to tooling sub-suppliers must be supported by at least three quotes, purchase order, invoice, and proof of payment. A part Supplier which normally subcontracts tooling construction may charge for incremental direct labor and associated costs (fringe benefits and payroll taxes) where it is mutually beneficial for the Supplier to incorporate minor changes in the tooling in its facility. YFAI retains the right to determine the allowable costs.



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- 19. <u>Other</u> The Tooling Supplier must adhere to the following:
 - a. The Supplier will not receive a rebate, volume discount, long-term relationship payment and/or credit, or any other form of payment and/or credit from their tool build sources.
 - b. The Supplier will competitively quote all tooling from a minimum of three reputable sources.
 - c. The Supplier will not incur or pay tooling costs to a Related Entity in excess of fair market value as determined by YFAI.
 - d. The Supplier will make timely payments to the tool build source.

Tooling Audit Requirements

- 20. All YFAI Tooling Purchase Orders are subject to audit by YFAI and the Supplier is expected to have the following documents readily available upon an audit request:
 - a. A completed Tooling Audit Worksheet for each YFAI Tooling Purchase Order and copies of all documents supporting amounts on the Tooling Audit Worksheet (see item 22),
 - b. Any documentation received or submitted to YFAI that supports special tooling costs prior to the
 - Tooling Purchase Order date,
 - c. Copies of at least three quotes for subcontracted special tooling,
 - d. Special Tool location record (see item 17),
 - e. An adequate picture and/or tool design drawing of the Special Tool,
 - f. Documentation supporting separate verifiable costs centers for in-house tool manufacturing centers, and
 - g. Documentation detailing in-house labor rates used for in-house Special Tool construction.
- 21. YFAI will have the right at any time to send its authorized representatives to examine all pertinent documents and materials in the possession or under the control of the Supplier and/or sub-suppliers relating to any of the Supplier's obligations under a YFAI Tooling Purchase Order or any payments requested by Supplier pursuant to a YFAI Tooling Purchase Order. Supplier and/or sub-suppliers shall maintain and make available all pertinent books and records relating to a YFAI Tooling Purchase Order and these Guidelines for a period of three (3) years after final payment is made by YFAI on the YFAI Tooling Purchase Order.
- 22. YFAI's contractual obligation is to reimburse actual tooling costs incurred up to the amount authorized by the YFAI Tooling Purchase Order. YFAI does not reimburse Suppliers for tooling costs in excess of the amount authorized or for tooling that was not specified and authorized by the YFAI Tooling Purchase Order. If the actual cost incurred is less than the YFAI Tooling Purchase Order amount, the Supplier is expected to notify the YFAI Buyer so that the YFAI Tooling Purchase Order can be adjusted to the actual costs. It is the responsibility of the Supplier to monitor the content of all subsuppliers tooling (e.g. out-sourced components), to ensure conformity with the YFAI Tooling Purchase Order and these Guidelines.
- 23. The Supplier will complete a Tooling Audit Worksheet ("TAW") for each YFAI PO selected for audit. In anticipation of a tooling audit, the Supplier should begin completion of the TAW upon receipt of a



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YFAI Tooling Purchase Order. The Supplier should continue to complete the TAW as the special tools are ordered, invoiced and payments made to the special tool build source. It is mandatory that each Special Tool has a separate line on the TAW regardless of the level of detail on the YFAI Tooling Purchase Order (Le. if 20 special tools were purchased by the Supplier, then there should be 20 line items on the TAW). The Supplier must use the excel workbook template named YFAI Tooling Audit Worksheet.

24. Upon Supplier's failure to comply with these Guidelines, YFAI shall have the right to exercise all remedies permitted under YFAI's Global Terms and Conditions of Purchase, including without limitation, Sections 13 and 26.

The following pages list examples to be used as a reference in determining what are allowable and not allowable special tooling cost.



		Special Tooling and Related Cost Items	
GE	GENERAL		Not Allowable
1.	Freight - Limited to initial normal expenses required to obtain the tooling being constructed. The freight cost of trips to certify, tryout, or adjust tooling is not reimbursed. Must not include freight cost for new or refurbished capital equipment, even though YFAI tooling may be mounted to such equipment prior to shipment.	х	
2.	Interest Carrying Costs.		х
3.	Launch Costs: Should be included in a supplier's overhead. The cost of a manufacturing learning curve is not considered a tooling expense. Examples are: Run-at-Rate costs, PPAP costs, etc.		х
4.	Installation Costs, Set-Up Costs, and Adaptation Costs of Special Tooling		х
5.	Tryout Costs for Subcontracted Special Tooling - Limited to the cost of tryout and adjustment time incurred by the special tool build source and a reasonable allocation of production material used by the tool builder for this event. YFAI retains the right to determine the allowable allocation of production material.	х	
6.	Tryout Costs for In-House or Related Entity Special Tooling - Where a Supplier designs, develops, or manufactures special tooling internally or by a related entity (a tool build source where the Supplier has an equity or other "significant" influence on such entity as determined by YFAI), tryout cost will be limited to the lesser of the actual cost incurred or one percent (1%) of the allowable cost of the special tool.	х	



	Special Toolin Cost	
DIES	Allowable	Not Allowable
1. Air Cylinders: Unless an integral part of the die as determined by YFAI and then only the first complement		x
2. Automation: Unless an integral part of the die as determined by YFAI		x
 Binder Development: Binder development used in developing the prototype tooling should not be paid for on a Production Tooling Order 		x
4. Bolster Plates		x
5. Designs Directly Related to Dies and Die Details	x	
6. Die Models		x
7. Die Risers: Unless an integral part of the die as determined by YFAI		x
 8. Dies: Coining, Cold Forming, Compacting (for powder metal parts before sintering), Extrusion, Forging, Progressive, Stamping, Sizing (for powder metal parts before sintering), Straightening, and Transfer. 	X	
 Painting of Dies: When done at the tool build source and in accordance with YFAI, OEM and/or YFAI Customer Standards as determined by YFAI 	x	
10. Safety Items and Guarding: This includes die sensors, light curtains, etc.		x



ELECTRICAL WIRE LIADNESS: Companying Accomply, and Testing		Special Tooling and Related Cost Items	
EL	ECTRICAL WIRE HARNESS: Components, Assembly, and Testing	Allowable	Not Allowable
1.	Dies and Details required for components unique to YFAI as determined by YFAI	х	
2.	Verification, Push Test, Grease, Continuity Fixture Blocks: Only when required and unique to a YFAI component as determined by YFAI	x	
3.	Gages: Only when design and drawings are YFAI approved	x	
4.	Grease Application Equipment		x
5.	Injection Molds: Required for components unique to YFAI as determined by YFAI	x	
6.	"Nesting" Fixtures: have to hold components during automated/manual assembly operations and material handling tooling unique to YFAI as determined by YFAI	x	
7.	Test Equipment: Continuity analyzers, TSK boards, indicators/meters, verification type equipment, etc.		x
8.	 Hardware Instruments (shelf bought), Computers (including Monitor & Keyboard), Cabinets, Cables, Automatic stampers, Shelf bought, Custom mounting hardware. 	x	× × × × × ×
9.	Software Operating System, Application Software, Test Code (specific to model under test). 	x	x x
10	 Test Chambers Burn-In, Refrigeration, Environmental, Racks, Rack fixtures geometrically unique to a YFAI part as determined by YFAI. 	X	X X X X



11. Wire Harness Assembly Boards/Checker Test Boards	x
12. Wire Twist Units - Mastic Pad units, shrink tubing units, conveyors, ovens, etc.	x

GAGES/GAUGES: Specific gage tooling items are generally allowable when special and unique to a specific YFAI part, model, or product as determined by		Special Tooling and Related Cost Items	
со	Al and not allowable when a standard shelf type item. Must not include mputer terminals, keyboards, printers, "Smart" Columns, or electronic adouts.	Allowable	Not Allowable
1.	Air Cylinders: Unless an integral part of the gage as determined by YFAI and then only the first complement		x
2.	Bases: Holding tables, control panels, structural members, safety items, and guarding.		x
3.	Certification: Allowable costs when required and incurred by a third party to confirm the accuracy of gages prior to use by the production supplier.	Х	
4.	Checking Fixtures	х	
5.	Final Inspection Gages	х	
6.	In-Process Gages: Unless specified by YFAI.		Х
7.	Master: Used to set/check dial, air, electrical/electronic adjustable gages.	х	
8.	Templates	х	
9.	Test Fixtures: Allowable when built to achieve compliance with Engineering Specification (ES) performance requirements, unique to a specific YFAI part, model, or product as determined by YFAI and then only when in compliance with item 2 above	Х	



MACHINING: Specific machining tooling items are generally allowable when special and unique to a specific YFAI part, model, or product as determined by	Special Tooling Cost	
YFAI and not allowable when a standard shelf type item. Must not include computer terminals, keyboards, printers, "smart" columns, and electronic readouts.	Allowable	Not Allowable
1. Air Cylinders: Unless an integral part of the machining fixture as determined by YFAI and then only the first complement		х
2. Arbors, Special Part Holding	Х	
3. Bases - Holding tables, control panels, structural members, safety items, and guarding.		Х
4. Broach Cutters: Only first complement as determined by YFAI	Х	
 5. Broach Holders Main, Sub. 	x	x
6. Bushing Plates	X	
7. Cams: Unique to a YFAI part as determined by YFAI	Х	
8. Chucks: Except for special applications as determined by YFAI and then for special clamping portion only (e.g. jaws, collets, etc.)		х
 Cutter Bodies: Special design is required by part configuration as determined by YFAI 		x
10. Design: Fixture design only as determined by YFAI. Excludes facility engineering design due to integration of fixtures into specific line operations at Supplier location.	x	
11. Fixtures: All special types as determined by YFAI	Х	
12. Forming Tools: Only first complement as determined by YFAI	Х	
13. Grinding Wheel: Unless YFAI part configuration requires special design as determined by YFAI		X
14. Heat Treatment Shielding	Х	
15. Hydraulic and Pneumatic Items: Unless integral part of the Special Tooling as determined by YFAI and then only the first complement		X
16. Jigs: Only when unique to YFAI part as determined by YFAI	х	
17. Machine Details: Unique bases, feeds, etc.		X
18. Motors		Х
19. Patterns	Х	



20. Rack: Plating, unless unique design for YFAI product as determined by YFAI, and then only nest/tooling portion		Х
 21. Spindle Heads (excludes motors and drive mechanisms): Single fixed Multiple fixed (only when unique design as determined by YFAI). 	x	х
22. Tooling Blocks: Special design as determined by YFAI	х	

	Special Tooling and Related Cost Items	
MOLDS AND PATTERNS	Allowable	Not Allowable
1. Designs Directly Related to Molds and Patterns	х	
2. Development Plasters	х	
3. Patterns Castings	х	
 4. Molds: For Rubber, Plastics, Nonferrous Metals, and Nickel-Shell. 	x	



MACHINES Allowable Not Allowable 1. Air Cylinders: Unless integral part of fixture or machine as determined by YFAI and then only the first complement X X 2. Automated, "Turn Key" Welding and Assembly Equipment: Some of the typical items in a welding, assembly, and tube/wire bending system that are considered Supplier owned equipment and not special tooling are: railings, walkways, rails, control panels, bowl feeders, and structural members. YFAI retains the right to determine what is Supplier owned equipment and special tooling X 3. Automation Within fixtures as determined by YFAI, Other than within fixtures (e.g. overhead transfer lines, walking beams, material handling equipment, material transfer equipment as determined by YFAI). "C" Frames, Pedestal Welders and Press Welders Holding Fixtures Holding Fixtures Holding Fixtures Holding Fixtures Machine Bases, Machine Feeds, Safety Items, and Guarding X Mechanical Knees X 9. Mechanical Knees X X 10. Motors X X 11. Patterns: Only allowable when castings fixture components are required as an integral component of the fixture as determined by YFAI X	WELDING FIXTURES, ASSEMBLY FIXTURES, AND SPECIAL PURPOSE	Special Tooling and Related Cost Items	
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5. Holding FixturesX6. Hydraulic and Pneumatic Items: Unless an integral part of the fixture as determined by YFAI and then only the first complementX7. Machine Bases, Machine Feeds, Safety Items, and GuardingX8.Masking Devices: Only first complement as determined by YFAIX9. Mechanical KneesX10. MotorsX11. Patterns: Only allowable when castings fixture components are required as an integral component of the fixture as determined by YFAIX	 Within fixtures as determined by YFAI, Other than within fixtures (e.g. overhead transfer lines, walking beams, material handling equipment, material transfer equipment 	Х	x
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8.Masking Devices: Only first complement as determined by YFAI X 9. Mechanical Knees X 10. Motors X 11. Patterns: Only allowable when castings fixture components are required as an integral component of the fixture as determined by YFAI X			х
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an integral component of the fixture as determined by YFAI	10. Motors		Х
12 Portable Welding Guns		х	
	12. Portable Welding Guns		Х
13. Transformers, Transformer Guns and Transformer Cables X	13. Transformers, Transformer Guns and Transformer Cables		Х
14. Weld Test Equipment X	14. Weld Test Equipment		Х
15. Weld Timers X	15. Weld Timers		Х
16. Welding and Assembly Fixtures X	16. Welding and Assembly Fixtures	Х	



 17. Plastic Welding Sonic Bonding, Nest. 	x	Х
 18. RF Bonder Press, Nest and Generator. 	х	х
 19. Vibration Press, Nest. 	x	х
20. Spin Welding • Press, • Nest.	x	х
21. Hot Air Bonder • Press, • Nest.	Х	х

	Special Tooling and Related Cost Items	
OTHER	Allowable	Not Allowable
1. Balconies, Control Panels, Railings, Stairways, Surge Tanks, and Overhead Lifts		х
2. Computer Equipment		Х
 3. Control Devices That regulates machine functions, line functions, and/or automated handling mechanism functions as determined by YFAI That regulates fixture only functions as determined by YFAI 	х	x
4. Embossing Rolls (Unique patterns/masks including unique engraving as determined by YFAI)	Х	
5. General and Special Purpose Automation Equipment		Х
 Load and Unload Fixtures, Transfer Fixtures, or Turnover Fixtures: Only when unique to a specific YFAI part, model, or product as determined by YFAI and required to perform another necessary operation (e.g., inspect, locate, position, etc.) as determined by YFAI 	х	



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