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Tesla Model Y Benchmark Reports

\$1,000,000 Analysis for \$89,000 USD

Purchasers of this 2000+ page report will receive:

- a. Vehicle Executive Summary
- b. Zone Eye-Catching Features
- c. Zone Quick Cost Estimate Report
- d. Zone Costed Bill of Material in PDF format
 - Weights and most materials and suppliers identified
- e. Wiring Topology
- f. Cooling Topology

On-site Hardware Reviews: Two-hour session : \$250 for 10 people or less

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Tesla Model 3 to Model Y Side-by-Side Report

\$400,000 Analysis for \$35,000 USD



Description of the Analyzed Tesla Model Y

Premium Package

- ❖ The Tesla Model Y Munro analyzed is the highest option version available.
- ❖ It is a Premium Package with Autopilot
- ❖ Prior to Munro, the car was never driven.
- ❖ Munro has disassembled the Tesla Y down to nuts, bolts, sensors, PCBs, including battery, control management, drivetrain, etc.
- ❖ Munro documented findings related to eye-catching features, weights, number of parts, materials and suppliers where possible and conducted a complete Munro Vehicle Quick Cost Analysis.

Report Delivery

- ❖ All reports and accompanying deliverables will be made available for easy access through a secure File Transfer Protocol FTP site.
- ❖ A user-friendly PDF format will help ensure that subscribers can easily locate a wide range of materials in addition to the reports.
- ❖ The large reports utilize hyperlinks within a table of contents to facilitate the ability to easily navigate throughout the contents and quickly find specific data and information to meet user needs.



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Model Y Benchmark Report

- ❖ The Benchmark Report is highly advantageous for OEMs or Tier Suppliers looking to effectively expand and compete in new EV markets.
- ❖ The report is a comprehensive analysis of all four Zones of the vehicle.
- ❖ This report contains descriptive and pictorial detail on every facet of the vehicle from manufacturing including Quick Cost Analysis.
- ❖ Those who chose to purchase the report will receive:
 - a. Vehicle Executive Summary with Consolidated Eye-Catching Features
 - b. Zone Eye-Catching Features and Quick Cost Estimate Report with Zone Summary Costed Bill of Material.
 - c. Complete Vehicle Summary Costed Bill of Materials (CBOM in PDF) with associated weights and most materials and suppliers identified.
 - d. The Vehicle summary and Zone summaries consolidate Munro's technical findings as related to features, performance and technology implementation.



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Eye-Catching Features

❖ Munro has also identified, in each Zone, specific observations of interest which are called ‘Eye-Catching Features’. These observations can represent both advantages or disadvantages in cost or weight as related to material choice and assembly or manufacturing process selection.



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Vehicle or Zone Summary Costed Bill of Material

- ❖ The costed bill of material is a consolidated view of the information presented in the Zone reports or an individually purchased Zone report.
- ❖ The bill of material is in an indented format and includes:
 - Part name
 - Material
 - Supplier (as is feasible)
 - Total Cost
 - Weight
 - Quantity
 - Total Weight

Tesla Model 3							
Symbol Name	Material Name	Supplier Name	Total Cost*	Weight (kg)	Item Qty	Total Cost* (Total)	Weight (kg) (Total)
■ Rear Shock Assembly	Multiple						
■ Rear Coil Spring Assembly	Commodity Item						
■ Rear Spring Bottom Pad	NBR						
■ Rear Coil Spring	Commodity Item						
■ Rear Spring Top Pad	NBR						
■ Bolt Lwr Control Arm to Rear Cradle Assy	Commodity Item	-	\$0.93	0.1180	1	\$0.93	0.11
■ Nut Lower Control Arm to Rear Cradle Assy	Commodity Item	-	\$0.60	0.1492	2	\$1.20	0.29
■ Bolt, Suspension Link Toe to Rear Cradle Assy	Commodity Item	-	\$0.10	0.0322	2	\$0.20	0.06
■ Washer, Suspension Link Toe to RR Cradle	Commodity Item	-	\$0.44	0.1066	2	\$0.88	0.21
■ Nut Suspension Link Toe to RR Cradle Assy	Commodity Item	-	\$0.11	0.0276	2	\$0.22	0.06
■ Bolt Upper Top Control Arm to RR Cradle Assy	Commodity Item	-	\$0.06	0.0189	2	\$0.12	0.03
■ Nut Upper Top Control Arm to RR Cradle Assy	Commodity Item	-	\$0.46	0.1142	2	\$0.90	0.22
■ Bolt M12 Lower Suspension Link Rear to RR Cradle	Commodity Item	-	\$0.10	0.0322	2	\$0.20	0.06
■ Bolt Upper Control Arm Link to RR Cradle	Commodity Item	-	\$0.31	0.0863	2	\$0.62	0.17
■ Nut Upper Control Arm Link to RR Cradle Assy	Commodity Item	-	\$0.32	0.0863	2	\$0.64	0.17
■ Nut M10 Swaybar Link to Swaybar	Commodity Item	-	\$0.07	0.0212	2	\$0.14	0.04
■ Bolt M6x1x15 ABS Sensor Wire Bracket to RR Knuckle	Commodity Item	-	\$0.06	0.0147	2	\$0.10	0.02
■ Mounting Bracket, RR Sups. Assy, RH	Steel 1018 - Coil	-	\$0.02	0.0071	2	\$0.04	0.01
■ Mounting Bracket, RR Sups. Assy, LH	Steel 1018 - Coil	-	\$0.88	0.2724	1	\$0.88	0.27
			\$1.03	0.2735	1	\$1.03	0.27

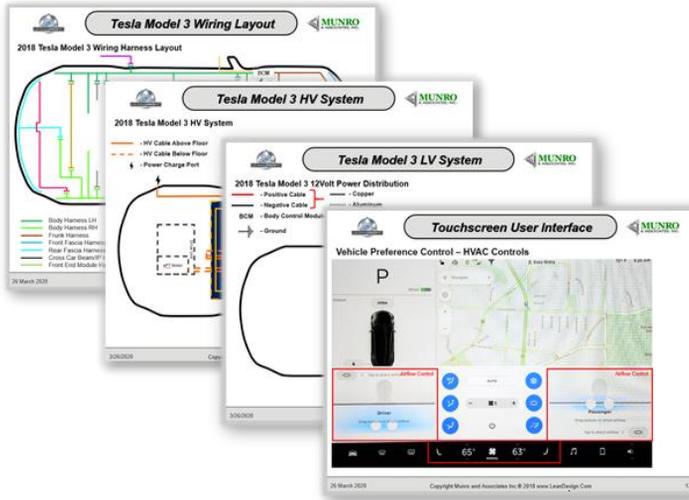
Side by Side Summary Example



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Wiring Topology

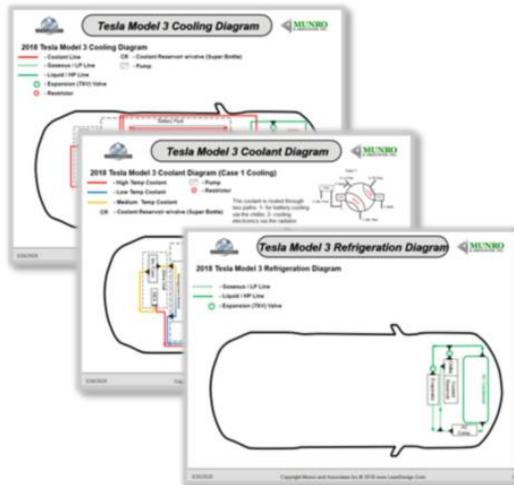
- ❖ This report includes electrical and electronic component location, major HV and LV wire harness layout, connection points, touchscreen user interface screen shots and hydraulic brake system component and line routing.



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Cooling Topology

- ❖ The cooling topology outlines the cooling lines and flow directions for coolant and refrigeration fluids. Both the heating and cooling circuits are illustrated.

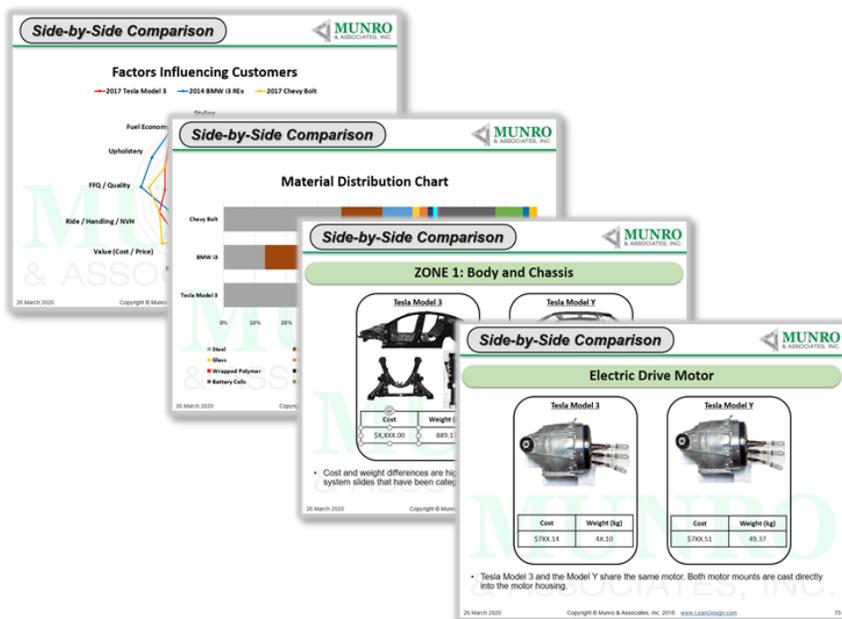




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Side by Side Analysis

- ❖ The Side by Side Report is a description and cost comparison of the differences between the Tesla Model Y and Model 3. Items of comparison are generally cost, weight and part count.
- ❖ Included is a spider diagram comparing many functions that are related to Fit and Finish, Ergonomics and weight distribution. The spider diagram evaluates the vehicle on multiple dimensions, such as styling, reliability, price, safety, weight, configuration, NVH, handling & riding, maintenance, etc. Evaluation results are displayed in the form of radar chart to better demonstrate Side by Side results.
- ❖ Munro will also use its best efforts to compare materials and their usage. The Material Distribution chart provides information related to usage and proportional distribution in the compared vehicles. Results are presented in the Side by Side cumulative percentage comparison histogram to demonstrate the trend of lightweight in recent years.





FAQ (Frequently Asked Questions)

- ❖ Was Tesla involved in the study?
No, Tesla proprietary costs nor any Tesla Y suppliers quoted costs were used in this study.
- ❖ Is there any Tesla Y propriety (stolen) IP in this report?
No. All data was developed through Munro's proven methodologies from th purchased production Tesla Y
- ❖ Is the car costed using only NAFTA costing centers?
Yes, Munro includes labor, factory floor cost, taxes and SG&A for OEM or Tier Suppliers.
- ❖ Is this a Costing or Pricing report?
This is a Costing Report. Pricing has too many variables.

Legal Disclaimers & Sales Condition

- ❖ How can I see the sample report before purchasing?
Please contact your regional Munro salesperson. They can provide sample information in digital PDF format NOTE: critical data will be hidden in the sample.
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No, it is not included in the price of report.
Munro will visit if the customer pays for the travel and daily fee.
- ❖ If there are a few but specific questions on the content of report, is it possible to support a phone or e-mail communication?
Yes, please contact the local area salesperson and we will respond with our answers.