

Electronics production in India

Item (USD bn)	2021	2022	2023	2024	
Mobile Phones	30	38	44	51	19.3%
IT Hardware (Laptops and Tablets)	3	4	4	5	18.6%
Consumer Electronics (TV and Audio)	9.5	10	12	13	11.0%
Strategic Electronics	4	4.25	4.75	5.5	11.2%
Industrial Electronics	10.5	11	11.75	12.5	6.0%
Wearables and Hearables	0	0.25	1	2.5	
Auto Electronics	6	7	7.5	8	10.1%
LED lighting	2.2	2.5	3	3.5	16.7%
Telecom Equipment	0	0.25	1	3.5	
Electronics Components	9	9.5	10.75	10.5	5.3%
Total Electronics	74.2	86.75	99.75	115	15.7%

Source: ICEA, JM Financial and <https://www.meitv.gov.in/static/uploads/2024/12/10fca4ec462c330211502fed3d24ea83.pdf>

OEM vs. ODM Business Models in EMS	OEM (Original Equipment Manufacturer)	brand owner designs and owns the intellectual property (IP) of the product
		provide detailed specifications to the EMS company, which simply manufactures the product according to those specifications
		Example: Apple and Foxconn for iPhones
	ODM (Original Design Manufacturer)	might design the product themselves (or collaborate with the client) and then manufacture it
		allows for higher profit margins for the EMS company but requires more technical expertise
		Example - Dixon in comparison to regional level brands such as Compal, Wistron, Quanta, TDK, and Celestica Global level such as Foxconn, Flex, Benchmark, Pegatron etc

HVM vs. LVM Segments	HVM (High Volume, Low Mix)	Focus on mass production of a few types of electronic products
		Consumer electronics like TVs, smartphones, and washing machines
	LVM (Low Volume, High Mix)	High Volume - with Comparatively low margins - Top line depended on the Demand of Cosumer (dep on Macros)
		Involve smaller production runs with a wider variety of products - ater to specialized
		Sectors like medical devices, aerospace, and industrial automation
		Higher quality and customization - leading to higher margins - Less Topline Growth but More Sus

Types of EMS Companies	Full-service EMS (FS-EMS)	Provide a complete range of services from design to manufacturing.
	Design-focused EMS	Offer design and development expertise alongside manufacturing capabilities.
	Manufacturing-focused EMS	Specialize in high-volume, low-mix production with efficient assembly.
	Aftermarket Services EMS	Focus on repair and maintenance services for electronic products.

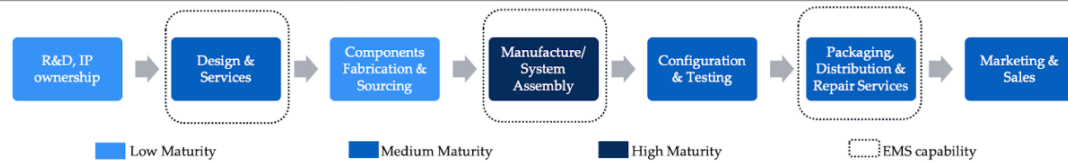
Source <https://www.wrightresearch.in/blog/the-rise-of-indian-electronics-manufacturing-industry/>

		Category													
Company		Capex	Fixed Asset Base	Fixed Asset Base Growth in Assets over 3 and 5 yrs	CWIP	Existing Products	New Prouct Lines	Comissiononig (When the prod will start in these categories)	Margin Accretive or not	Additional Imp Points		ROE	Revenue	Net profit	Revenue Cagr
Kaynes Technology India Ltd		4800 cr	936 cr	3 yr CAGR: 100.91% 5 yr CAGR: 69.96%	300 cr		Outsourced Semiconductor Assembly and Test (OSAT) - 3400 cr	OSAT - First chip production expected Q3 FY26; commercial ramp-up in Q4	Yes	OSAT capex - 50% central govt subsidy, ~20–25% state subsidy on eligible capex. PCB capex - ~65% capital subsidy					
Syrma SGS Technology Ltd		180 cr	1149 cr	5 yr CAGR: 31.16%	61 cr	Focused on capacity expansion		Comissioned		August Electronics (Canada) Acquisition: Component PLI focused capex - could range from INR 300–1,000 crore, depending on vertical/scale.					
Cyient DLM Ltd		0 cr	3000 cr	3 yr CAGR: 28.71% 5 yr CAGR: 22.71%	6 cr					The company is transitioning from a defense-heavy order book to a more diversified sectoral mix, aided by the Altek acquisition and a rising share of exports.					
										FY26 capex guidance: Rs. 900-1,000 crore.					

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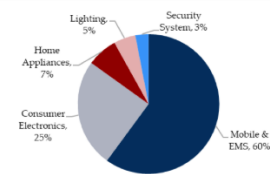
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Exhibit 8: Value chain of EMS industry in India



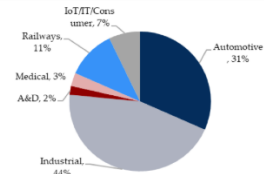
Source: Frost & Sullivan, HSIE Research

Exhibit 65: Dixon revenue break-up by end-industry



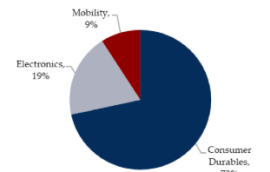
Source: Company, HSIE Research

Exhibit 66: Kaynes revenue break-up by end-industry



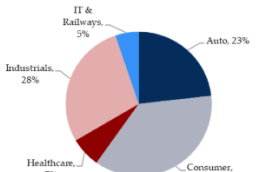
Source: Company, HSIE Research

Exhibit 67: Amber revenue break-up by end-industry

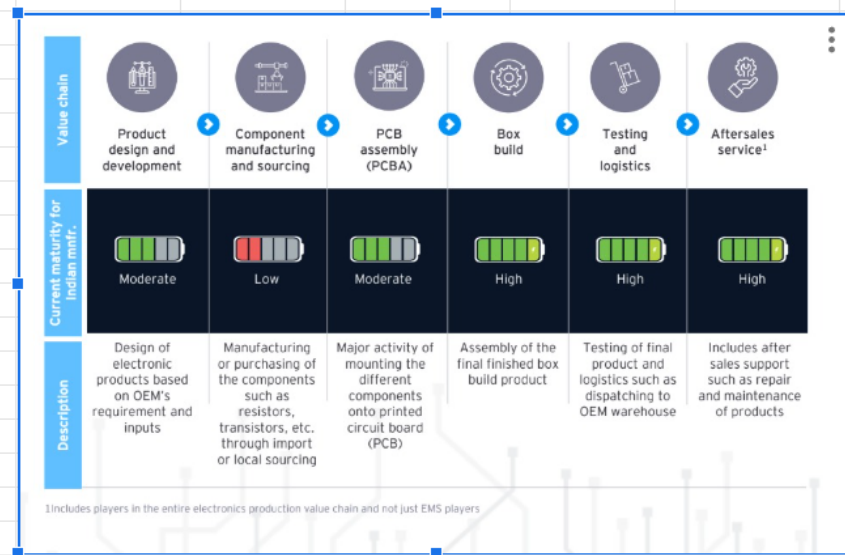


Source: Company, HSIE Research

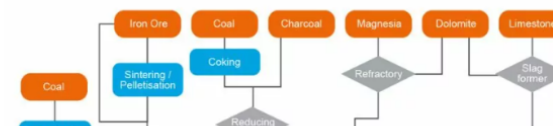
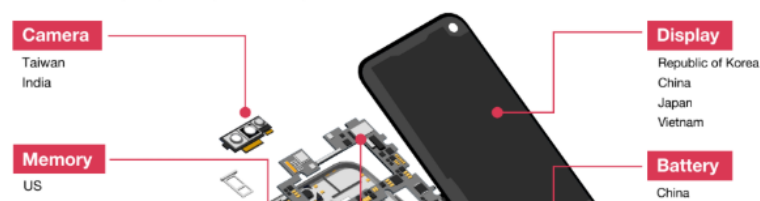
Exhibit 68: Symra revenue break-up by end-industry



Source: Company, HSIE Research

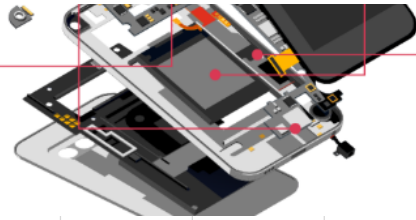


Manufacturing origins of phone components



Semiconductors

Korea
Japan
China
Taiwan
US



Connectors

India
Vietnam
Taiwan
Korea
Japan
India

