

SupplierBusiness



Supplying HCV OEMs

Contents

| | |
|---|----|
| Introduction | 7 |
| Market recovery and the legacy of the economic crisis | 7 |
| Maintaining technology development | 10 |
| Reshaping OEMs and suppliers | 11 |
| Global sourcing issues | 13 |
| Dealing with raw material volatility | 14 |
| Current economic situation | 16 |
| Key drivers | 22 |
| Fuel Efficiency | 22 |
| Reduced Emissions | 26 |
| Safety | 28 |
| Industry profitability | 30 |
| The Changing Nature of Supplier/OEM Relationships | 34 |
| European OEMs | 37 |
| OEM Perspective | 39 |
| Daimler | 39 |
| Doing business with Daimler | 44 |
| MAN TRUCK & BUS AG | 51 |
| Doing business with MAN | 55 |
| MAN Latin America | 61 |
| SCANIA | 66 |
| Doing business with Scania | 68 |
| AB VOLVO | 71 |
| Volvo 3P | 76 |
| Doing Business with Volvo | 78 |
| IVECO | 81 |
| Doing Business with Iveco | 83 |
| North American OEMs | 85 |
| NAVISTAR / INTERNATIONAL | 87 |
| Doing Business with Navistar | 89 |
| PACCAR | 92 |
| Purchasing strategy and supply chain management | 93 |

| | |
|--|-----|
| Doing Business with Paccar | 95 |
| Asian OEMs | 97 |
| Production outlook | 98 |
| HINO..... | 101 |
| Doing business with Hino..... | 103 |
| ISUZU..... | 106 |
| Doing Business with Isuzu..... | 108 |
| UD Trucks..... | 109 |
| Doing business with U D trucks..... | 112 |
| Indian OEMS..... | 113 |
| Tata..... | 116 |
| Doing business with Tata..... | 117 |
| Ashok Leyland | 119 |
| Doing Business with Ashok Leyland | 120 |
| Chinese OEMS..... | 123 |
| China FAW (CFAGC) | 124 |
| Doing Business with China FAW | 127 |
| DongFeng Motor Corporation | 128 |
| Doing business with Dongfeng..... | 129 |
| Figure 1: Regional sales foecast > 6 tonne GVW | 9 |
| Figure 2: Global sales foecast > 6 tonne GVW | 9 |
| Figure 3: Total Asia sales foecast > 6 tonne GVW | 10 |
| Figure 4: Indexed returns from truck suppliers..... | 11 |
| Figure 5: Medium duty and heavy duty truck sales North America | 18 |
| Figure 6: Medium duty and heavy duty truck sales Western Europe..... | 19 |
| Figure 7: Medium duty and heavy duty truck sales Eastern Europe..... | 20 |
| Figure 8: Medium duty and heavy duty truck sales Asia..... | 20 |
| Figure 9: Europe heavy truck sales actual and trend 1993 - 2020E | 21 |
| Figure 4: Total operating costs 40 tonne tractor | 22 |
| Figure 5: Variation in vehicle utilisation..... | 23 |
| Figure 6: Average test consumption (litres/100 km) | 24 |
| Figure 7: European emissions standards (PM versus NOx) | 26 |
| Figure 8: European compliance costs compared to Euro o..... | 26 |
| Figure 9: US emissions standards (PM versus NOx) | 27 |
| Figure 10: Bendix/ Knorr Bremse ABD22X air disc brake..... | 28 |
| Figure 11: Truck safety systems evolution..... | 29 |
| Figure 12: Industry profitability 2008 and 2009 | 30 |
| Figure 13: Unit sales and revenue 2008 and 2009 | 31 |

| | |
|---|-----|
| Figure 14: Estimated sales, revenue and EBIT 2015..... | 32 |
| Figure 15: Profit share between premium, value and low cost segments 2015..... | 33 |
| Figure 16: OEM core competencies and outsourcing potential | 34 |
| Figure 17: Factors that affect the decision to outsource | 35 |
| Figure 18: Changing OEM competence requirements..... | 36 |
| Figure 20: Western Europe production forecast..... | 37 |
| Figure 26: Daimler trucks locations | 39 |
| Figure 27: Graphic representation of how Daimler does business with its suppliers | 41 |
| Figure 28: Daimler Trucks Global Excellence strategy | 42 |
| Figure 29: Production capacity flexibility management at Daimler | 42 |
| Figure 30: Regional programmes implemented 2009/ 2010/ 2011 | 43 |
| Figure 31: Overview of Daimler's Procurement Trucks and Buses (PTB) organisation..... | 44 |
| Figure 32: Daimler's performance based criteria | 44 |
| Figure 33: Daimler cost savings through material optimisation | 45 |
| Figure 34: A graphic representation of Daimler's EBSC system..... | 48 |
| Figure 35: MAN Truck & Bus key figures 2010/ 2011 | 51 |
| Figure 36: MAN Truck & Bus AG production network..... | 52 |
| Figure 37: MAN's internationalisation strategy | 53 |
| Figure 38: MAN Truck & Bus divisional goals..... | 54 |
| Figure 40: Man Truck & Bus AG supplier pyramid..... | 59 |
| Figure 40: Scania global locations | 66 |
| Figure 41: Scania worldwide truck registrations 2007 to 2010..... | 67 |
| Figure 42: Scania supplier categories | 69 |
| Figure 43: Volvo Group geographic distribution of employees 2010 | 72 |
| Figure 44: Volvo Group structure..... | 73 |
| Figure 45: Volvo Group Global presence..... | 74 |
| Figure 46: Volvo Truck deliveries and net sales by market 2009 - 2010 | 75 |
| Figure 47: Volvo 3P divisional structure..... | 76 |
| Figure 46: A schematic of Volvo's quality procedures..... | 80 |
| Figure 49: The post demerger of the Fiat and Fiat Industrial Groups | 81 |
| Figure 50: Iveco revenue and net margin forecast..... | 81 |
| Figure 51: Iveco platform strategy..... | 82 |
| Figure 51: FTP engine production compared to other global producers | 83 |
| Figure 54: North America retail sales of Class 8 trucks Jan 2008 - Oct 2010 | 84 |
| Figure 31: US class 8 production forecast | 85 |
| Figure 55: US production forecast | 86 |
| Figure 57: Navistar global market volumes and shares | 87 |
| Figure 58: Navistar's three pillar strategy..... | 87 |
| Figure 59: Navistar seeks to leverage platform commonality | 88 |
| Figure 60: Paccar market share 2000 vs 2010 | 92 |
| Figure 61: Paccar supply covered by long-term agreements | 93 |
| Figure 60: Paccar supplier numbers 2000 - 2010 | 93 |
| Figure 37: Global purchasing at PACCAR | 96 |
| Figure 38: PACCAR supplier requirements..... | 96 |
| Figure 39: Schematic of Paccar new supplier progress..... | 96 |
| Figure 66: Japanese production outlook 2005 - 2015 | 99 |
| Figure 67: Hino's global presence 2011 | 103 |
| Figure 68: Toyota purchasing schematic | 104 |

| | |
|---|-----|
| Figure 69: Hino module development and production..... | 105 |
| Figure 66: Isuzu global performance FY09 to FY11 | 106 |
| Figure 67: Isuzu Japanese volume sales and market shares FY07 to FY11..... | 107 |
| Figure 68: Isuzu Mid-Term Business Plan April 2008 – March 2011 | 108 |
| Figure 69: Isuzu’s Alliance Strategy..... | 108 |
| Figure 70: A schematic diagram of Nissan Diesel's relationships with customers and suppliers..... | 112 |
| Figure 75: Growth in the number of Indian OEMs..... | 113 |
| Figure 76: Ashok Leyland unit sales and market share 2008 - 2011..... | 119 |
| | |
| Table 1: US emissions compliance costs..... | 27 |
| Table 2: Daimler Truck unit sales 2009/ 2010 | 40 |
| Table 3: Volvo Truck deliveries by brand and market..... | 72 |
| Table 4: Navistar truck and engine manufacturing plants..... | 89 |
| Table 5: Paccar three major commodity groups | 95 |
| Table 6: Japanese truck production 2008 - 2016 | 100 |
| Table 7: UD Trucks production performance 2008 - 2010..... | 110 |
| Table 8: Indian truck production 2008 - 2013 | 114 |
| Table 9: Tata Motors code of conduct | 118 |