

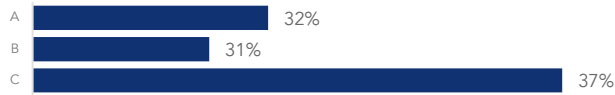
Supply Chain Optimisation in the Automotive Industry

IMAGES BEFORE

Comparison: Distant Supplier vs. Local Supplier							
Ref	Description	Distant Supplier Price (\$)	Mexico Supplier Price (Local)	real total price of current consumption distant supplier	logistics cost over cost per piece	China vs. local price	% Distant vs. local price
1304790	SCREW M6	\$ 0,02792	\$ 0,03658	\$ 0,0381	27%	\$ 0,00153	4%
130008002	SLEEVE	\$ 0,03864	\$ 0,04850	\$ 0,0506	24%	\$ 0,00181	4%
1310770	SCREW M4	\$ 0,00993	\$ 0,02380	\$ 0,0366	73%	\$ 0,01280	35%
13149041	SPINDLE	\$ 1,11000	\$ 1,46300	\$ 1,2130	8%	-\$0,28295	-23%

High level of stock for less-frequently-consumed references

Stock Distribution by Consumption Frequency



IMAGES AFTER

Country	Supplier	Stock Value	% Stock Value	Turnover	Months Stock	Leadtime (days)	Freq. Delivery	Traffic	Stock months goal	Goal Reduction	goal free cash flow (\$)	goal free cash flow (€)	
China	CHINA (Shanghai)	1.000.000	11,0%	3,1	3,9	90	30	60	3,0	24%	\$ 1.074.054,88	€ 49.956,04	
China	SHANGHAI (SHEK)	1.700.000	9,1%	4,2	2,8	90	15	50	2,4	15%	\$ 557.526,66	€ 25.931,47	
China	Shanghai (Haining)	1.800.000	6,5%	2,5	4,9	90	15	50	2,4	50%	\$ 1.352.954,27	€ 62.928,11	
China	SHANGHAI (JIAOJIANG)	1.310.000	5,6%	3,3	3,7	50	15	50	2,4	34%	\$ 795.035,57	€ 36.978,40	
China	SHANGHAI (JIAOJIANG)	500.000	1,4%	2,1	5,7	50	15	50	2,4	57%	\$ 321.306,28	€ 14.944,48	
China	SHANGHAI (JIAOJIANG)	500.000	1,3%	3,3	3,6	50	15	50	2,4	33%	\$ 174.311,11	€ 8.107,49	
China	SHANGHAI (JIAOJIANG)	347.000	0,8%	2,3	5,2	50	15	50	2,4	53%	\$ 184.454,46	€ 8.579,28	
CHINA											GOAL FREE CASH FLOW:	\$ 4.459.643,22	€ 207.425,27

Production Line	daily consumption value finished product references	Goal Stock Days	Average stock value OBJECTIVE/ Finished product references	Average REAL stock value Finished product references	GAP
SHANGHAI	\$ 138.751,48	\$ 472.008,87	3,00	\$ 416.254,43	14%
SHANGHAI	\$ 163.487,35	\$ 254.631,83	2,50	\$ 408.666,37	-38%
SHANGHAI	\$ 39.682,26	\$ 105.284,14	2,50	\$ 99.205,64	6%
SHANGHAI	\$ 19.107,89	\$ 24.108,09	2,50	\$ 47.769,73	-50%
SHANGHAI	\$ 2.748.478,74	\$ 3.114.470,32	2,50	\$ 6.871.196,85	-55%
SHANGHAI	\$ 57.337,43	\$ 370.077,00	3,00	\$ 172.012,30	115%
SHANGHAI	\$ 130.527,80	\$ 853.190,95	3,00	\$ 391.583,39	118%
SHANGHAI	\$ 29.623,01	\$ 90.233,85	5,00	\$ 148.115,06	-39%
SHANGHAI	\$ 254.667,12	\$ 111.636,89	2,50	\$ 636.667,79	-82%
TOTAL	\$ 3.581.643,07	\$ 5.396.241,95	2,57	\$ 9.191.473,55	-41%

Raw Material Pull Planning

Pull Planning of Finished Products and WIP

Problem

- Low level of stock turnover for components and raw materials
- Large volume of WIP
- Long lead time for purchased components
- 500k€ spent on exceptional transport costs

Root Causes

- Purchase of components and raw materials in accordance with forecasts
- 50% of components sourced from distant suppliers
- Lack of visibility of stock levels for each reference
- Information gaps between storage and component consumption

Solutions

- Pull planning for the entire value chain
- Negotiation of delivery lead times and definition of order points for replacement of components and raw materials
- Development of suppliers located within closer proximity, improving the service conditions
- Partnerships with suppliers for the consignment of raw materials

Benefits

£400k/year
+
£650k
Cash flow

