

10.0 Material and Energy Balance

Input	ME	2000	2001	2002	2003	2004	2005	2006	2007	% change to 2006
Fuel...for transport										
Diesel F - 50 (HGV)	L	12,500	13,400	13,400	14,250	15,730	27,113	128,853	135,719	5
Normal Unleaded (Car)	L	35,961	30,002	21,435	8,445	1,786	3,917	394	240	-39
o Super Unleaded (Car)	L	89,063	76,849	78,964	60,944	32,987	21,438	5,374	10,797	101
Diesel (Car)	L	428,037	478,448	541,004	561,717	585,589	697,024	540,372	718,413	33
... for finished product test										
Petrol	L	2220	2332	923	3476	3437	800	3,080	760	-75
Diesel	L	8380	10000	13540	13999	22705	18,539	16,017	13,570	-15
Energy										
Electricity consumption	KWH	3,292,800	3,104,500	3,308,640	3,333,580	3,479,480	3,440,948	3,656,789	4,458,308	22
Water consumption	m ³	16,268	9,819	10,129	11,260	9,405	10,935	10,991	11,432	4
Gas consumption	KWH	7,277,879	6,741,546	6,657,377	7,562,508	7,006,967	6,641,323	7,162,712	8,098,975	13
Fixed format										
Sheet metal to DIN	t	1,440	1,490	1,840	1,915	1,731	1,623	1,589	1,860	17
Parts with DIN & norm specification										
Discs DIN 9021	St	1,786,338	1,726,572	1,950,000	2,096,400	1,959,329	2,219,900	1,869,830	1,704,793	-9
Hexagon capped nut	St	1,278,602	1,254,776	1,365,000	1,461,000	1,607,829	1,505,620	1,696,920	1,872,127	10
Hexagon head screw	St	1,144,497	1,110,847	1,037,000	1,240,000	1,347,911	1,325,702	1,532,415	1,756,051	15
Hexagon weld nut	St	329,996	273,617	274,000	301,000	408,931	356,867	414,617	474,928	15
Suspension ring/disc	St	273,253	275,991	260,000	262,880	224,618	187,354	194,405	180,446	-7
Production aids										
Composition powder	kg	27,515	21,940	20,000	21,003	19,898	17,406	22,250	34,996	57
Hydraulic oil	kg	18,713	25,767	22,000	19,114	22,894	21,830	17,809	14,785	-17
Phosphate coating agent	kg	3,255	4,584	2,700	2,040	1,560	1,680	3,600	3,310	-8
Engine oil	L	2,225	2,252	2,700	1,476	3,200	1,221	1,399	2,345	68
Packaging elements										
Pallets	St	10,500	9,500	11,500	11,339	9,894	10,896	12,235	13,074	7
Inner pallets	St	2,900	2,200	2,100	2,220	2,456	1,945	2,345	1220	-48
Collapsible cardboard boxes	St	11,000	3,850	3,900	4,218	6,718	4,893	7,158	7463	4
Electric parts										
Electric cables to VDE 0281	M	564,973	709,815	853,486	911,782	910,883	827,983	834,633	1,039,754	25
Flat pin bushing	St	621,000	579,000	713,000	847,000	804,773	733,637	845,483	996,309	18
Plastic bushing	St	332,800	279,000	340,000	393,000	359,959	319,268	369,378	356,222	-4
cable socket	St	173,400	167,500	200,000	230,000	241,892	212,923	231,331	240,507	4
Conductor sleeve	St	115,000	111,500	130,000	150,900	101,714	95,660	99,981	126,265	26
Flat pin	St	102,000	92,000	129,000	116,000	91,457	88,206	103,520	94183	-9

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Output	ME	2000	2001	2002	2003	2004	2005	2006	2007	% change to 2006
Products										
o Cleaning machines and ancillary products	t	2,714	2,639	2,889	3,149	3,567	3,735	3,726	4,063	9.0
Sewage/total										
o Powder facility	m ³	17,492	9,850	10,100	10,338	8,813	10,287	10,529	11,263	7.0
o Spray booth	m ³	10,495	5,910	6,060	6,203	5,288	6,172	6,317	6,758	7.0
o Other consumers	m ³	5,248	2,955	3,030	3,101	2,644	3,086	3,790	4,055	7.0
o Surface water	m ³	1,749	985	1,010	1,034	881	1,029	2,274	2,433	7.0
o Surface water	m ³	7,802	0	0	0	17,193	17,193	17,193	17,193	0.0
Waste > 50t										
o Scrap metal	t	451.0	427.0	564.0	592	654.6	681.3	881.4	1004.4	14.0
o Shredder waste	t	78.4	130.0	124.0	154	161.3	152.2	220.2	252.7	14.8
o Cardboard	t	65.0	61.0	69.0	74	83.1	81.6	93.2	106.2	13.9
o Wood	t	58.0	55.0	56.0	56	44.9	38.6	43.8	64.0	46.1
o Household waste	t	71.4	72.0	53.0	61	64.8	59.3	66.7	62.0	-7.0
o Public waste	t	79.3	59.8	49.8	56	71.8	109.6	144.5	272.3	88.4
Emissions										
o Steam	hl	8,134	4,910	5,065	5,630	6,728	6122	6,254	6,690	7.0
o CO2	kg	8,691	8,699	9,214	6,995	7,992	8261	6,659	8,911	33.8
o Nitrogen oxide	kg	4,660	4,961	5,468	7,350	5,856	5903	5,300	671	-87.3
o HC + NOx	kg	4,988	5,242	5,733	7,712	6,702	6555	5,890	912	-84.5
o Soot particles	kg	362	404	457	374	545	585	508	1,077	112.0