

**OPI ESTIMATE OF 2003 ANNUAL US EXPENDITURES ON
REMANUFACTURING/OVERHAUL/REBUILD**

Capital Goods Operators	US Installed Base at CRV (Current Replacement Cost) \$M	Annual Maintenance and Modification expenditures as a % of CRV	Annual Remfg/ overhaul/ rebuild expenditures as a % of Maintenance expenditures	Annual Remfg/ overhaul/ rebuild expenditures \$M
Transportation				
Aircraft	\$ 390,000	4.0%	35%	\$ 5,500
Maritime	\$ 80,000	3.5%	30%	\$ 800
Railroad	\$ 70,000	4.0%	30%	\$ 900
Trucks	\$ 180,000	3.1%	15%	\$ 900
Subtotal	\$ 720,000			\$ 8,100
Computer	\$ 370,000	1.1%	5%	\$ 200
Communications	\$ 1,100,000	1.1%	5%	\$ 600
Office	\$ 240,000	2.5%	10%	\$ 600
Medical	\$ 170,000	4.0%	10%	\$ 700
Manufacturing				
Material Shaping	\$ 300,000	2.5%	15%	\$ 1,100
Semiconductor	\$ 110,000	4.0%	15%	\$ 600
Factory Automation	\$ 220,000	2.5%	15%	\$ 800
Subtotal	\$ 630,000			\$ 2,500
Mineral Extraction	\$ 280,000	3.5%	25%	\$ 2,500
Agriculture	\$ 110,000	2.1%	20%	\$ 500
Construction	\$ 330,000	2.1%	25%	\$ 1,700
Electric Generation	\$ 200,000	4.0%	40%	\$ 3,100
Instruments	\$ 120,000	1.5%	15%	\$ 300
HVAC	\$ 230,000	1.1%	5%	\$ 100
Printing & Paper	\$ 140,000	4.0%	15%	\$ 800
Entertainment	\$ 30,000	1.5%	10%	\$ 100
Transaction	\$ 40,000	1.5%	10%	\$ 100
Others	\$ 440,000	2.5%	15%	\$ 1,600
Total	\$ 5,150,000			\$ 23,500
Automotive/light truck	\$ 4,020,000	1.5%	10%	\$ 6,500
DOD	\$ 1,000,000	3.2%	33%	\$ 10,500
Grand Total	\$ 10,170,000			\$ 40,500