

ECE/IFR Quarterly Robotics Index

Orders placed by region of customers

Quarterly Robotics Index - orders (in number of units) placed by region of customer

QUARTERLY INDEX			QUARTERLY INDEX			QUARTERLY INDEX			QUARTERLY INDEX		
NORTH AMERICA			EUROPE			ASIA			WORLD TOTAL		
	Index: 1996=100	Smoothed series */		Index: 1996=100	Smoothed series */		Index: 1996=100	Smoothed series */		Index: 1996=100	Smoothed series */
1996-Q1	79.7	98.7	1996-Q1	124.4	119.2	1996-Q1	107.2	104.9	1996-Q1	110.8	110.8
1996-Q2	155.9	120.3	1996-Q2	103.5	108.2	1996-Q2	98.0	101.0	1996-Q2	111.0	108.3
1996-Q3	90.0	102.4	1996-Q3	101.3	99.1	1996-Q3	100.6	99.6	1996-Q3	100.4	99.9
1996-Q4	74.5	96.8	1996-Q4	70.8	95.9	1996-Q4	94.1	100.9	1996-Q4	77.9	97.6
1997-Q1	98.7	88.5	1997-Q1	117.6	89.2	1997-Q1	104.3	104.3	1997-Q1	110.3	93.6
1997-Q2	92.1	96.4	1997-Q2	84.4	84.9	1997-Q2	111.5	107.1	1997-Q2	93.1	94.0
1997-Q3	87.9	106.2	1997-Q3	66.8	81.6	1997-Q3	113.7	109.9	1997-Q3	85.7	95.3
1997-Q4	139.4	107.6	1997-Q4	70.8	81.9	1997-Q4	103.6	109.3	1997-Q4	96.1	95.6
1998-Q1	112.4	108.1	1998-Q1	91.2	89.2	1998-Q1	117.5	105.5	1998-Q1	102.4	98.3
1998-Q2	88.8	108.1	1998-Q2	113.0	105.9	1998-Q2	93.6	104.3	1998-Q2	103.4	105.6
1998-Q3	95.3	111.2	1998-Q3	96.9	126.6	1998-Q3	100.6	103.3	1998-Q3	96.8	115.7
1998-Q4	132.0	121.2	1998-Q4	174.2	135.3	1998-Q4	107.0	103.9	1998-Q4	143.8	121.8
1999-Q1	144.9	130.4	1999-Q1	153.2	137.4	1999-Q1	106.7	106.6	1999-Q1	135.2	125.1
1999-Q2	136.1	136.8	1999-Q2	120.8	136.0	1999-Q2	109.0	109.2	1999-Q2	119.3	126.5
1999-Q3	121.7	138.3	1999-Q3	105.5	130.2	1999-Q3	107.1	112.4	1999-Q3	107.6	125.0
1999-Q4	156.7	132.6	1999-Q4	154.5	135.0	1999-Q4	121.0	117.6	1999-Q4	143.8	128.4
2000-Q1	132.5	128.5	2000-Q1	126.3	150.3	2000-Q1	118.5	128.2	2000-Q1	123.5	139.2
2000-Q2	102.9	124.3	2000-Q2	186.8	161.9	2000-Q2	138.2	134.6	2000-Q2	158.1	147.3
2000-Q3	122.1	122.8	2000-Q3	161.9	172.4	2000-Q3	162.8	135.3	2000-Q3	155.0	153.7
2000-Q4	122.4	122.5	2000-Q4	191.1	176.7	2000-Q4	116.5	135.6	2000-Q4	161.3	155.9
2001-Q1	155.3	117.8	2001-Q1	173.6	171.4	2001-Q1	128.9	130.5	2001-Q1	157.8	150.1
2001-Q2	77.6	113.7	2001-Q2	174.0	162.8	2001-Q2	130.1	126.8	2001-Q2	141.2	142.7
2001-Q3	109.9	104.9	2001-Q3	131.8	155.2	2001-Q3	130.1	129.7	2001-Q3	125.3	136.8
2001-Q4	101.4	104.1	2001-Q4	152.7	148.6	2001-Q4	119.9	132.4	2001-Q4	132.0	133.7
2002-Q1	106.5	109.3	2002-Q1	151.2	146.1	2002-Q1	148.7	129.8	2002-Q1	139.7	132.9
2002-Q2	119.9	114.9	2002-Q2	143.9	153.5	2002-Q2	132.0	127.6	2002-Q2	134.8	137.1
2002-Q3	108.8	122.6	2002-Q3	141.6	165.0	2002-Q3	106.8	130.0	2002-Q3	124.6	144.9
2002-Q4	147.3	129.4	2002-Q4	201.8	174.2	2002-Q4	126.2	136.4	2002-Q4	166.4	152.7
2003-Q1	122.4	140.3	2003-Q1	194.1	178.0	2003-Q1	161.1	153.6	2003-Q1	167.9	161.6
2003-Q2	158.0	146.5	2003-Q2	174.3	170.4	2003-Q2	171.0	171.9	2003-Q2	168.8	164.6
2003-Q3	157.8	147.7	2003-Q3	141.8	160.9	2003-Q3	205.7	190.6	2003-Q3	161.6	166.2
2003-Q4	148.4	153.7	2003-Q4	140.7	159.6	2003-Q4	173.0	214.1	2003-Q4	153.6	173.6
2004-Q1	130.6	165.0	2004-Q1	179.1	164.0	2004-Q1	264.3	228.7	2004-Q1	193.4	182.1
2004-Q2	198.1	172.7	2004-Q2	179.2	169.4	2004-Q2	255.7	243.3	2004-Q2	202.7	190.2
2004-Q3	208.1		2004-Q3	172.3		2004-Q3	238.0		2004-Q3	195.6	
2004-Q4	159.5		2004-Q4	153.2		2004-Q4	257.2		2004-Q4	184.2	

Sources: United Nations Economic Commission for Europe (UNECE) and International Federation of Robotics (IFR).

*/ A 4-quarter centred moving average.

ECE/IFR Half-yearly Robotics Index

Orders placed by region of customers

Half-yearly Robotics Index - orders (in number of units) placed by region of customer

HALF-YEARLY INDEX			HALF-YEARLY INDEX			HALF-YEARLY INDEX			HALF-YEARLY INDEX		
NORTH AMERICA			EUROPE			ASIA			WORLD TOTAL		
	Index: 1996=100	Smoothed series **/		Index: 1996=100	Smoothed series **/		Index: 1996=100	Smoothed series **/		Index: 1996=100	Smoothed series **/
1996:Q1+Q2	108.9	104.5	1996:Q1+Q2	114.9	107.4	1996:Q1+Q2	102.4	101.2	1996:Q1+Q2	109.1	104.5
1996:Q3+Q4	91.1	94.9	1996:Q3+Q4	85.1	96.7	1996:Q3+Q4	97.6	101.3	1996:Q3+Q4	90.9	97.8
1997:Q1+Q2	88.4	93.3	1997:Q1+Q2	101.8	89.4	1997:Q1+Q2	107.6	105.4	1997:Q1+Q2	100.1	95.1
1997:Q3+Q4	105.1	97.9	1997:Q3+Q4	68.8	85.6	1997:Q3+Q4	108.6	107.5	1997:Q3+Q4	89.3	95.0
1998:Q1+Q2	93.1	99.0	1998:Q1+Q2	102.9	102.8	1998:Q1+Q2	105.2	105.7	1998:Q1+Q2	101.3	102.6
1998:Q3+Q4	104.9	108.2	1998:Q3+Q4	136.6	128.6	1998:Q3+Q4	103.6	104.9	1998:Q3+Q4	118.3	115.8
1999:Q1+Q2	130.1	123.4	1999:Q1+Q2	138.2	136.0	1999:Q1+Q2	107.1	107.4	1999:Q1+Q2	125.2	122.9
1999:Q3+Q4	128.7	124.0	1999:Q3+Q4	131.0	139.5	1999:Q3+Q4	111.9	119.7	1999:Q3+Q4	122.7	128.7
2000:Q1+Q2	108.5	115.9	2000:Q1+Q2	157.7	156.0	2000:Q1+Q2	147.9	136.5	2000:Q1+Q2	144.2	141.8
2000:Q3+Q4	118.1	113.1	2000:Q3+Q4	177.9	172.1	2000:Q3+Q4	138.1	138.3	2000:Q3+Q4	156.2	150.9
2001:Q1+Q2	107.7	107.6	2001:Q1+Q2	175.1	167.9	2001:Q1+Q2	129.2	130.4	2001:Q1+Q2	147.1	144.2
2001:Q3+Q4	97.0	101.6	2001:Q3+Q4	143.3	152.6	2001:Q3+Q4	125.0	129.8	2001:Q3+Q4	126.4	133.7
2002:Q1+Q2	104.7	112.3	2002:Q1+Q2	148.6	153.1	2002:Q1+Q2	140.0	135.9	2002:Q1+Q2	135.1	137.7
2002:Q3+Q4	142.9	130.0	2002:Q3+Q4	172.0	169.6	2002:Q3+Q4	138.4	145.6	2002:Q3+Q4	154.1	152.2
2003:Q1+Q2	129.7	135.9	2003:Q1+Q2	185.6	171.4	2003:Q1+Q2	165.6	164.6	2003:Q1+Q2	165.7	160.1
2003:Q3+Q4	141.5	141.2	2003:Q3+Q4	142.3	162.7	2003:Q3+Q4	188.8	200.7	2003:Q3+Q4	155.1	167.7
2004:Q1+Q2	152.0	154.5	2004:Q1+Q2	180.6	166.6	2004:Q1+Q2	259.3	238.7	2004:Q1+Q2	194.9	182.9
2004:Q3+Q4	172.3		2004:Q3+Q4	163.0		2004:Q3+Q4	247.3		2004:Q3+Q4	186.8	

Sources: United Nations Economic Commission for Europe (UNECE) and International Federation of Robotics (IFR).

**/ A 2 half-year centred moving average.

ECE/IFR First Three Quarters Robotics Index

Orders placed by region of customers

**First Three Quarters Robotics Index -
orders (in number of units) placed by
region of customer**

FIRST THREE QUARTERS INDEX				
Index Q1+Q2+Q3 1996=100				
	North America	Europe	Asia	World total
1996	100.0	100.0	100.0	100.0
1997	86.5	80.7	107.8	89.9
1998	91.9	90.8	101.9	94.2
1999	119.9	113.7	99.9	109.5
2000	114.0	143.1	149.5	139.9
2001	106.7	144.5	127.7	132.3
2002	120.3	131.0	141.3	131.2
2003	135.8	153.8	175.9	155.1
2004	155.4	160.4	248.0	182.1

ECE/IFR Annual Robotics Index

Orders placed by region of customers

**Annual Robotics Index -
orders (in number of units) placed by
region of customer**

ANNUAL INDEX				
Index 1996 =100				
	North America	Europe	Asia	World total
1996	100.0	100.0	100.0	100.0
1997	96.8	85.3	108.1	94.7
1998	99.0	119.8	104.4	109.8
1999	129.4	134.6	109.5	124.0
2000	113.3	167.8	143.0	150.2
2001	102.4	159.2	127.1	136.8
2002	123.8	160.3	139.2	144.6
2003	135.6	164.0	177.2	160.4
2004	162.2	171.8	253.3	190.9

Sources: United Nations Economic Commission for Europe (UNECE) and International Federation of Robotics (IFR).