

Business Industrial Network

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when you're down!

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D	ow.	ntime	Cost

Reports from online equipment downtime survey

ne Cosi		www.AboutDo	wntime.com/Survey/Survey.asp
	Annual	TM per	Annual Cost Lost

Industry	Num-Emp	oloyees	Annual Downtime	TM per Month	Annual Cost Lost Production
Automotive				Sa	amples of data in database records.
	100				
		Summary for	or 'Number of Employees	' = 100 (1 detail	record)
		Avg	480 Hours	\$1,000.00	\$500,000.00
	200				
		Summary fo	or 'Number of Employees	' = 200 (2 detail	records)
		Avg	1000 Hours	\$30,000.00	\$25,050,000.00
	300				
		Summary fo	or 'Number of Employees	' = 300 (1 detail	record)
		Avg	240 Hours	\$10,000.00	\$10,000.00
	500				
		Summary for	or 'Number of Employees	' = 500 (1 detail	record)
		Avg	480 Hours	\$4,000.00	\$100,000.00

Summary for 'Industry' = Automotive (5 detail records)

Avg 640 Hours \$15,000.00 \$10,142,000.00

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Downtim	e Cost	Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	Num-Employees	Annual Downtime	TM per Month	Annual Cost Lost Production
Food, beverag	•		Sai	mples of data in database records.
	50 Summ	ary for 'Number of Emplo	oyees' = 50 (2 detail red	cords)
	Avg	120 Hours	\$500.00	\$50,000.00
	100			
	Summ	ary for 'Number of Emplo	oyees' = 100 (1 detail re	ecord)
	Avg	1000 Hours	\$50,000.00	\$500,000.00
	200			
	Summ	ary for 'Number of Emplo	oyees' = 200 (4 detail re	ecords)
	Avg	500 Hours	\$16,000.00	\$250,000.00
Summary for 'Indust	ry' = Food, beverages, tob	acco (7 detail records)		
Avg		463 Hours	\$16,428.57	<i>\$228,571.43</i>

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Downtime Cost				Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	Num-Em	ployees	Annual Downtime	TM per Month	Annual Cost Lost Production
Injection molding/ Extrusion				Sai	mples of data in database records.
	30				
		Summary	for 'Number of Emplo	oyees' = 30 (3 detail red	cords)
		Avg	120 Hours	\$2,666.67	\$66,666.67
	300				
		Summary	for 'Number of Emplo	oyees' = 300 (1 detail re	ecord)
		Avg	240 Hours	\$20,000.00	\$500,000.00
	1000				
		Summary	for 'Number of Emplo	oyees' = 1000 (1 detail	record)
		Avg	120 Hours	\$10,000.00	\$50,000,000.00
Summary for 'Industry'	= Injection mo	lding/ Extru	sion (5 detail records)		

\$7,600.00

144 Hours

Avg

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\$10,140,000.00

Downtin	ne Cost				nline equipment downtime survey wntime.com/Survey/Survey.asp
Industry	Num-En	nployees	Annual Downtime	TM per Month	Annual Cost Lost Production
Machinery a	nd equipmen	ıt		Sar	nples of data in database records.
	30				
		Summary	for 'Number of Emplo	yees' = 30 (3 detail red	cords)
		Avg	853 Hours	\$27,000.00	\$173,333.33
	50				
		Summary	for 'Number of Emplo	yees' = 50 (1 detail red	cord)
		Avg	120 Hours	\$20,000.00	\$100,000.00
	200				
		Summary	for 'Number of Emplo	yees' = 200 (1 detail re	ecord)
		Avg	0 Hours	\$4,000.00	\$10,000.00
	1000				
		Summary	for 'Number of Emplo	yees' = 1000 (4 detail l	records)
		Avg	120 Hours	\$29,500.00	\$37,625,000.00
Summary for 'Indu	ıstry' = Machinery	and equipme	nt (9 detail records)		
Avg			351 Hours	\$24,777.78	<i>\$16,792,222.22</i>

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Downtime Cost		Reports from online equipment downtime surve www.AboutDowntime.com/Survey/Survey.asp		
Industry	Num-Employees	Annual Downtime	TM per Month	Annual Cost Lost Production
Metal products	50		Saı	mples of data in database records.
	Summar	y for 'Number of Empl	oyees' = 50 (1 detail red	cord)
	Avg	120 Hours	\$4,000.00	\$10,000.00
	150			
	Summar	y for 'Number of Empl	oyees' = 150 (1 detail re	ecord)
	Avg	1680 Hours	\$60,000.00	\$500,000.00
	200			
	Summar	y for 'Number of Empl	oyees' = 200 (4 detail re	ecords)
	Avg	560 Hours	\$18,500.00	\$12,550,000.00
Summary for 'Industry' =	= Metal products (6 detail	records)		
Avg		673 Hours	\$23,000.00	\$8,451,666.67

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Downtin	ne Cost			nline equipment downtime survey wntime.com/Survey/Survey.asp
Industry	Num-Employees	Annual Downtime	TM per Month	Annual Cost Lost Production
Other			Sar	nples of data in database records.
	0			r
	Summa	ary for 'Number of Emplo	yees' = 0 (1 detail reco	ord)
	Avg	120 Hours	\$20,000.00	\$10,000.00
	30			
	Summa	ary for 'Number of Emplo	yees' = 30 (4 detail red	cords)
	Avg	210 Hours	\$8,750.00	\$255,000.00
	50			
	Summa	ary for 'Number of Emplo	yees' = 50 (1 detail red	cord)
	Avg	1000 Hours	\$30,000.00	\$0.00
	100			
	Summa	ary for 'Number of Emplo	yees' = 100 (4 detail re	ecords)
	Avg	360 Hours	\$20,000.00	\$300,000.00
	200			
	Summa	ary for 'Number of Emplo	yees' = 200 (17 detail)	records)
	Avg	562 Hours	\$20,058.82	\$12,018,235.29
	300			
	Summa	ary for 'Number of Emplo	yees' = 300 (1 detail re	ecord)
	Avg	0 Hours	\$0.00	\$0.00
	400			
	Summa	ary for 'Number of Emplo	yees' = 400 (1 detail re	ecord)
	Avg	1200 Hours	\$130,000.00	\$1,000,000.00
	1200			
	Summa	ary for 'Number of Emplo	yees' = 1200 (1 detail)	record)
	Avg	120 Hours	\$1,000.00	\$10,000.00
Summary for 'Indu	stry' = Other (30 detail record	ds)		
Avg		476 Hours	\$21,233.33	\$6,918,333.33

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Downtime Cost				Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	Num-En	nployees	Annual Downtime	TM per Month	Annual Cost Lost Production
Paper	30			Sa	mples of data in database records.
		Summary	for 'Number of Emplo	oyees' = 30 (1 detail re	ecord)
		Avg	120 Hours	\$0.00	\$10,000.00
	50				
		Summary	for 'Number of Emplo	oyees' = 50 (1 detail re	ecord)
		Avg	120 Hours	\$0.00	\$10,000.00
	150				
		Summary	for 'Number of Emplo	oyees' = 150 (1 detail i	record)
		Avg	0 Hours	\$0.00	\$0.00
	200				
		Summary	for 'Number of Emplo	oyees' = 200 (1 detail i	record)
		Avg	1000 Hours	\$0.00	\$0.00
Summary for 'Indus	try' = Paper (4 d	etail records)			
Avg			310 Hours	\$0.00	\$5,000.00

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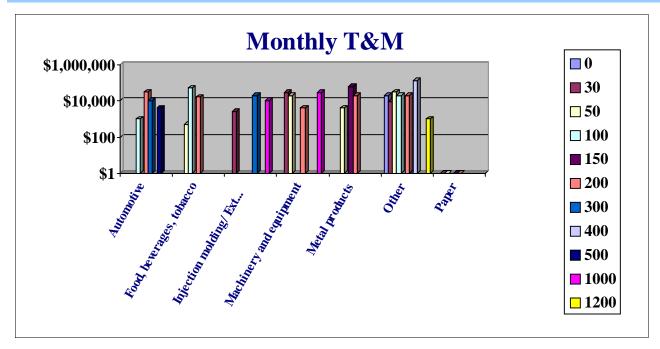


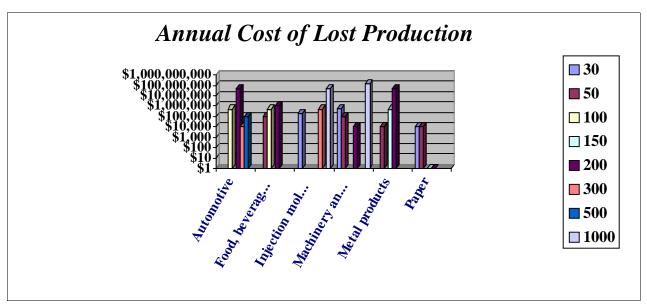
Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

Industry Num-Employees

Annual Downtime TM per Month Annual Cost Lost Production





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Downtin	ne Cost		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	Num-Employees	Annual Downtime	TM per Month	Annual Cost Lost Production

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PLC-Te	ech ech	Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp				
Industry	Maint. Employees Total Employees	PLCbrands	Number of PLCs PLC Technicians			
Automotive		Samples of dat	a in database records.			
	10	Schneider	6			
	100		6			
	130	Allen-Bradley, Siemens, GE Fanuc, Modicon/Gould, Honeywell, SquareD	6			
	200	Modicon/Oodid, Horieywell, Oqualeb	6			
	50	Telemechanique	6			
	200		1			
	100	Allen-Bradley	6			
	300		6			
	10	Omron	4			
	500		6			
Summary for 'Ind	dustry' = Automotive (5 detail reco	rds)				
Avg	Trade Empl.: 60	# of PLCs.: 6	# of Techs			

PLC-Te	ech	Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp				
Industry	Maint. Employees Total Employees	PLCbrands	Number of PLCs PLC Technicians			
Food, beverages, tobacco		Samples of 0	data in database records.			
		Allen-Bradley, GE Fanuc	4			
	50		2			
		Siemens, Honeywell	0			
	50		1			
	15	Allen-Bradley	6			
	100		2			
	30	Allen-Bradley, Modicon/Gould	6			
	200		3			
	30	Allen-Bradley	6			
	200		2			
	30	Allen-Bradley	6			
	200		6			
	30	Allen-Bradley, Siemens, GE Fanuc	5			
	200		2			
Summary for 'Inc	dustry' = Food, beverages, tobacc	o (7 detail records)				
Avg	Trade Empl.: 27	# of PLCs.: 5	# of Techs			

PLC-Tech		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	Maint. Employees Total Employees	PLCbrands	Number of PLCs PLC Technicians	
Injection mol	ding/Extrusion	Samples of da	ata in database records.	
	5	Allen-Bradley	1	
	30		2	
	5	Allen-Bradley	1	
	30		1	
	5	Allen-Bradley	1	
	30		1	
	30	Allen-Bradley, Modicon/Gould	6	
	300		6	
	100	Allen-Bradley, Siemens, Mitsubishi, Telemechanique, SquareD	5	
	1000	Totomoonamquo, oquarob	6	
Summary for 'Ind	dustry' = Injection molding/ Extrusio	n (5 detail records)		
Avg	Trade Empl.: 29	# of PLCs.: 3	# of Techs	

PLC-Te	ech	Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	Maint. Employees Total Employees	PLCbrands	Number of PLCs PLC Technicians	
Machinery and equipment		Samples of data	in database records.	
	5	Don't Know	6	
	30		4	
	5	Not Selected	_4	
	30		1	
	5	Not Selected	6	
	30		2	
	5	Allen-Bradley	_ 4	
	50		1	
	100	Allen-Bradley	0	
	200		2	
	50	Telemechanique, SquareD	6	
	1000		6	
	50	GE Fanuc	6	
	1000		6	
	50	Telemechanique, SquareD	6	
	1000		6	
	100	Allen-Bradley, Mitsubishi, Telemechanique SquareD	6	
	1000	Squares	6	
Summary for 'Ind	dustry' = Machinery and equipment			
vg	Trade Empl.: 41	# of PLCs.: 5	# of Techs	

PLC-Tech		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	Maint. Employees Total Employees	PLCbrands	Number of PLCs PLC Technicians	
			The Technicians	
Metal produc	ets	Samples of da	ata in database records.	
	5	SquareD	1	
	50		1	
	10	Allen-Bradley	5	
	150		2	
	130	Siemens, Mitsubishi	0	
	200		6	
	50	Allen-Bradley	6	
	200		6	
	30	Not Selected, Allen-Bradley, Omron, Siemens, Mitsubishi, Toshiba	6	
	200	Siemens, Milsubishi, Toshiba	6	
	5	Allen-Bradley, GE Fanuc, PLCDirect, Telemechanique, IDEC	6	
	200	rolomoonamquo, IDEO	1	
Summary for 'Ind	dustry' = Metal products (6 detail i	records)		
Avg	Trade Empl.: 38	# of PLCs.: 4	# of Techs	

PLC-T	ech	Reports from online equ www.AboutDowntime.	
Industry	Maint. Employees Total Employees	PLCbrands	Number of PLCs PLC Technicians
Other		Samples of	data in database records.
	0	Not Selected	0
	0		0
	5	Not Selected	0
	30		0
	5	Schneider	6
	30		1
	30	Allen-Bradley	6
	30		5
	5	PLCDirect	1
	30		4
	30	Not Selected	0
	50		2
	5	Allen-Bradley	3
	100		1
	5	Not Selected	9
	100		0
	50	Allen-Bradley, GE Fanuc, PLCDirect	
	100	,	5
		Allen-Bradley, Siemens	
	100	,, 	3
		Allen-Bradley	
	50	Allon Bladioy	5
	200	Don't Know	
	50	DUIT NIUW	0 4
	200	Botteriow	

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	C-1 <i>e</i>	CH	

Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

Industrial Maint Front		www.AboutDowntime.com	
Industry	Maint. Employees	PLCbrands	Number of PLCs
	Total Employees		PLC Technicians
	50	Siemens	6
	200		6
	130	Allen-Bradley	0
	200		6
	130	Allen-Bradley	6
	200		5
	30	Omron	6
	200		2
	50	Modicon/Gould	6
	200		6
	50	Don't Know	6
	200		6
	130	Don't Know	6
	200		6
	50	Allen-Bradley	6
	200		6
	130	Not Selected	0
	200		0
	15	Allen-Bradley, Omron, Siemens, Mitsubishi, GE Fanuc, Modicon/Gould	6
	200	Wilderson, GE Fands, Wouldon Gould	4
	130	Modicon/Gould	6
	200		6
	30	Allen-Bradley, Omron, GE Fanuc	5
	200		2

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PLC-Tech		Reports from online equipment downtime sur www.AboutDowntime.com/Survey/Survey.a	
Industry	Maint. Employees	DI Chamada	Number of PLCs
	Total Employees	PLCbrands	PLC Technicians
	30	Allen-Bradley	6
	200		6
	50	Allen-Bradley	6
	200		4
	30	Allen-Bradley	6
	200		6
	50	Allen-Bradley	6
	300		6
	15	Allen-Bradley, Omron, Siemens, Telemechanique, Schneider	6
	400	roiomeonamque, comidaet	6
	150	Allen-Bradley	9

Summary for 'Industry' = Other (30 detail records)

1200

Avg Trade Empl.: 51 # of PLCs.: 4 # of Techs

PLC-Tech			Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	Maint. Employees Total Employees	PLCbrands	Number of PLCs PLC Technicians	
Paper		Samples o	f data in database records.	
	5	Siemens	6	
	30		1	
	5	Not Selected	2	
	50		1	
	10	Allen-Bradley	6	
	150		3	
	30	Allen-Bradley, Siemens, GE Fanuc	c, Cutler 6	
	200	Hammer	4	
Summary for 'In	ndustry' = Paper (4 detail records)			
Avg	Trade Empl.: 12	# of PLCs.: 5	# of Techs	

PLC-Tech

Reports from online equipment downtime survey

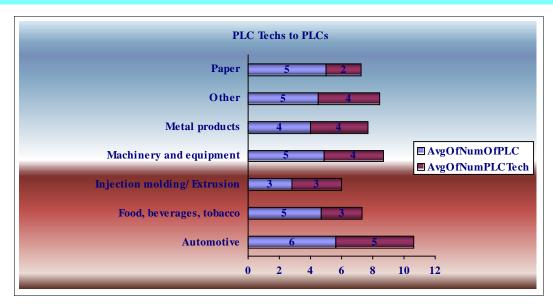
www.AboutDowntime.com/Survey/Survey.asp

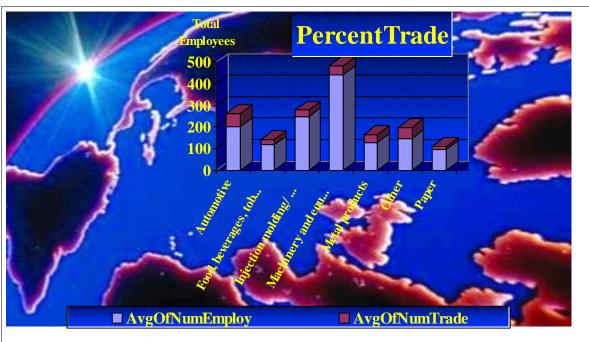
Industry

Maint. Employees
Total Employees

PLCbrands

Number of PLCs
PLC Technicians





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OEM Cost			Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	NumE	Employ	Max OEM response time	OEM average cost Per Year
Automotive			Samples	of data in database records.
	100			
		Record ID Number 680	20Hours	\$10,000.00
		Summary for 'Nur	mEmploy' = 100 (1 detail reco	ord)
		Avg	20Hours	\$10,000.00
		Max	20 Hours	
	200			
		Record ID Number 440	10Hours	\$500,000.00
		Record ID Number 140	10Hours	
		Summary for 'Nur	mEmploy' = 200 (2 detail reco	ords)
		Avg	10Hours	\$500,000.00
		Max	10 Hours	
	300			
		Record ID Number 100	40Hours	\$100,000.00
		Summary for 'Nur	mEmploy' = 300 (1 detail reco	ord)
		Avg	40Hours	\$100,000.00
		Max	40 Hours	
	500			
		Record ID Number 690	10Hours	\$10,000.00
		Summary for 'Nur	mEmploy' = 500 (1 detail reco	ord)
		Avg	10Hours	\$10,000.00
		Max	10 Hours	

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OEM Cost		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	NumEmploy	Max OEM response time	OEM average cost Per Year
Summary for 'Ind	ustry' = Automotive (5 detail records)		
Avg		18 Hours	\$155,000.00
Max		40 Hours	

OEM Cost		1 0 1	Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	NumEmploy	Max OEM response time	OEM average cost Per Year	

Food, beverages, tobacco

Samples of data in database records.

50

30			
R	ecord ID Number 380	Hours	
R	ecord ID Number 540	50Hours	
	Summary for 'NumE	imploy' = 50 (2 detail records)	
	Avg	50Hours	
	Max	50 Hours	
100			
R	ecord ID Number 600	50Hours	\$100,000.00
	Summary for 'NumE	mploy' = 100 (1 detail record)	
	Avg	50Hours	\$100,000.00
	Max	50 Hours	
200			
R	ecord ID Number 300	40Hours	
R	ecord ID Number 390	40Hours	\$10,000.00
R	ecord ID Number 450	Hours	
R	ecord ID Number 610	40Hours	\$100,000.00
	Summary for 'NumE	mploy' = 200 (4 detail records)	
	Avg	40Hours	\$55,000.00
	Max	40 Hours	
Summary for 'Industry' = Food, bevera	ages, tobacco (7 detail recor	rds)	
Avg		44 Hours	\$70,000.00
Max		50 Hours	

OEM C	ost			c.com/Survey/Survey.asp
Industry	NumE	mploy	Max OEM response time	OEM average cost Per Year
Injection mo	olding/ Ext	rusion	Samples	of data in database records.
	30			
		Record ID Number 200	10Hours	\$10,000.00
		Record ID Number 360	10Hours	
		Record ID Number 550	50Hours	\$10,000.00
		Summary for 'N	umEmploy' = 30 (3 detail reco	rds)
		Avg	23Hours	\$10,000.00
		Max	50 Hours	
	300			
		Record ID Number 190	40Hours	\$100,000.00
		Summary for 'N	umEmploy' = 300 (1 detail reco	ord)
		Avg	40Hours	\$100,000.00
		Max	40 Hours	
	1000			
		Record ID Number 720	70Hours	\$10,000.00
		Summary for 'N	umEmploy' = 1000 (1 detail red	cord)
		Avg	70Hours	\$10,000.00
		Max	70 Hours	
Summary for 'Indu	ustry' = Injectio	n molding/ Extrusion (5 detai	l records)	
Avg			36 Hours	\$32,500.00

70 Hours

Max

OEM Cost		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	NumEi		Max OEM response time	OEM average cost Per Year
Machinery and equipment		Samples	of data in database records.	
	30			
		Record ID Number 80	10Hours	\$10,000.00
		Record ID Number 620	10Hours	\$10,000.00
		Record ID Number 700	20Hours	\$500,000.00
		Summary for 'Nur	mEmploy' = 30 (3 detail recor	rds)
		Avg	13Hours	\$173,333.33
		Max	20 Hours	
	50			
		Record ID Number 670	10Hours	\$100,000.00
		Summary for 'Nur	mEmploy' = 50 (1 detail recor	rd)
		Avg	10Hours	\$100,000.00
		Max	10 Hours	
	200			
		Record ID Number 110	10Hours	\$10,000.00
		Summary for 'Nur	mEmploy' = 200 (1 detail reco	ord)
		Avg	10Hours	\$10,000.00
		Max	10 Hours	
	1000			
		Record ID Number 740	80Hours	\$100,000.00
		Record ID Number 810	10Hours	\$10,000.00
		Record ID Number 730	80Hours	\$100,000.00
		Record ID Number 710	80Hours	\$100,000.00
		Summary for 'Nur	mEmploy' = 1000 (4 detail red	cords)
		Avg	62Hours	\$77,500.00
		Max	80 Hours	
Summary for 'Indu	ustry' = Machine	ery and equipment (9 detail red	cords)	
Avg			34 Hours	\$104,444.44
Max			80 Hours	

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		1 0 1	uipment downtime survey com/Survey/Survey.asp
Industry	NumEmploy	Max OEM response time	OEM average cost Per Year

Metal products

Samples of data in database records.

50

	Record ID Number 320	10Hours	\$10,000.00
	Summary for 'Numi	Employ' = 50 (1 detail record)	
	Avg	10Hours	\$10,000.00
	Max	10 Hours	
150			
	Record ID Number 770	50Hours	\$100,000.00
	Summary for 'Numi	Employ' = 150 (1 detail record)	
	Avg	50Hours	\$100,000.00
	Max	50 Hours	
200			
	Record ID Number 400	Hours	\$500,000.00
	Record ID Number 480	10Hours	\$100,000.00
	Record ID Number 160	40Hours	\$100,000.00
	Record ID Number 640	Hours	\$10,000.00
	Summary for 'Numi	Employ' = 200 (4 detail records)	
	Avg	25Hours	\$177,500.00
	Max	40 Hours	
Summary for 'Industry' = Metal prod	ducts (6 detail records)		
Avg		28 Hours	\$136,666.67
Max		50 Hours	

OEM C	ost		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	Numl	Employ	Max OEM response time	OEM average cost Per Year	
Other			Samples	of data in database records.	
	0				
		Record ID Number 120	Hours		
		Summary for 'Nur	mEmploy' = 0 (1 detail record)	
		Avg	Hours		
		Max	Hours		
	30				
		Record ID Number 430	50Hours	\$10,000.00	
		Record ID Number 250	10Hours	\$10,000.00	
		Record ID Number 150	10Hours	\$10,000.00	
		Record ID Number 650	Hours	\$10,000.00	
		Summary for 'Nur	mEmploy' = 30 (4 detail recor	rds)	
		Avg	23Hours	\$10,000.00	
		Max	50 Hours		
	50				
		Record ID Number 170	20Hours	\$100,000.00	
		Summary for 'Nur	mEmploy' = 50 (1 detail recor	rd)	
		Avg	20Hours	\$100,000.00	
		Max	20 Hours		
	100				
		Record ID Number 790	10Hours	\$100,000.00	
		Record ID Number 780	Hours		
		Record ID Number 520	40Hours	\$100,000.00	
		Record ID Number 290	20Hours	\$500,000.00	
		Summary for 'Nur	mEmploy' = 100 (4 detail reco		
		Avg	23Hours	\$233,333.33	
		Max	40 Hours		
	200				
		Record ID Number 260	40Hours	\$10,000.00	
		Record ID Number 630	Hours		

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OEM Cost			Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	NumEmploy	Max OEM response time	OEM average cost Per Year		
	Record ID Number 1	80 10Hours	\$10,000.00		
	Record ID Number 3	50 40Hours	\$500,000.00		
	Record ID Number 2	70 10Hours	\$10,000.00		
	Record ID Number 2	80 Hours			
	Record ID Number 5	60 20Hours	\$10,000.00		
	Record ID Number 4	70 40Hours			
	Record ID Number 5	30 50Hours			
	Record ID Number 2	30 50Hours	\$1,500,000.00		
	Record ID Number 4	10 40Hours	\$100,000.00		
	Record ID Number 2	40 40Hours	\$100,000.00		
	Record ID Number 5	70 Hours			
	Record ID Number 3	40 10Hours	\$10,000.00		
	Record ID Number 3	30 50Hours	\$100,000.00		
	Record ID Number 3	10 40Hours	\$500,000.00		
	Record ID Number 5	00 10Hours	\$500,000.00		
	Summary fo	or 'NumEmploy' = 200 (17 detail re	cords)		
	Avg	32Hours	\$279,166.67		
	Max	50 Hours			
	300				
	Record ID Number 5	90 Hours	\$100,000.00		
	Summary fo	or 'NumEmploy' = 300 (1 detail rec	ord)		
	Avg	Hours	\$100,000.00		
	Max	Hours			
	400				
	Record ID Number 7	50 30Hours	\$500,000.00		
	Summary fo	or 'NumEmploy' = 400 (1 detail rec	ord)		
	Avg	30Hours	\$500,000.00		
	Max	30 Hours			
	1200				
	Record ID Number 8	00 10Hours	\$10,000.00		

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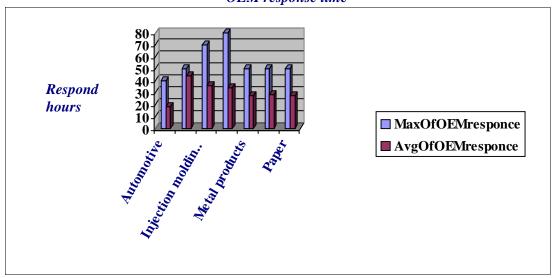
OEM Cost			Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry	NumEmploy		Max OEM response time	OEM average cost Per Year
		Summary for 'Nun	nEmploy' = 1200 (1 detail record)	
		Avg	10Hours	\$10,000.00
]	Max	10 Hours	
Summary for 'Indu	ustry' = Other (30 detail reco	ords)		
Avg			28 Hours	\$208,695.65
Max			50 Hours	

OEM Cost		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp		
Industry	NumEm	ploy	Max OEM response time	OEM average cost Per Year
Paper			Samples	of data in database records
	30			
		Record ID Number 460	50Hours	\$10,000.00
		Summary for 'Nur	mEmploy' = 30 (1 detail recor	rd)
		Avg	50Hours	\$10,000.00
		Max	50 Hours	
	50			
		Record ID Number 220	10Hours	\$100,000.00
		Summary for 'Nur	mEmploy' = 50 (1 detail recor	rd)
		Avg	10Hours	\$100,000.00
		Max	10 Hours	
	150			
		Record ID Number 760	10Hours	\$10,000.00
		Summary for 'Nur	mEmploy' = 150 (1 detail reco	ord)
		Avg	10Hours	\$10,000.00
		Max	10 Hours	
	200			
		Record ID Number 130	40Hours	\$100,000.00
		Summary for 'Nur	mEmploy' = 200 (1 detail reco	ord)
		Avg	40Hours	\$100,000.00
		Max	40 Hours	
Summary for 'Ind	ustry' = Paper (4	detail records)		
Avg			28 Hours	\$55,000.00
Max			50 Hours	

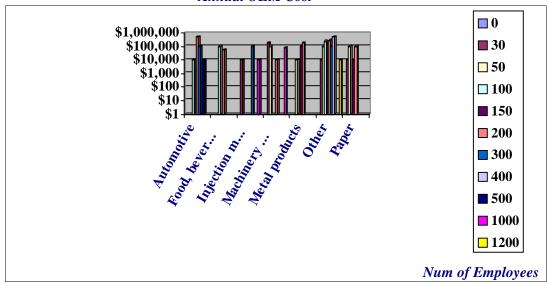
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OEM response time



Annual OEM Cost





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Ocheral Injointation	General	Inform	nation
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Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

Industry	Automotive		
Number of Shift	ts Ocupation of participant	Percent of Outsourcing	
2	Maintenance Foreman/Supervisor	10	
	Equipment with No OEM Documentation Weldline Automation Inc		Other OEM with no Documentation separate by commas
	PLC brands used: Telemechanique	0	Shift with most down Time 2
	Number of Major BreakDowns per year Major Equipment BreakDowns Power	, and the second	Other Major equipment BreakDowns separate by commas
3	Plant/Maintenance Engineer	10	
	Equipment with No OEM Documentation Siemens		Other OEM with no Documentation
	PLC brands used: Allen-Bradley, Siemens, GE F SquareD Number of Major BreakDowns per year	anuc, Modicon/Gould, Honeywe	Shift with most down Time 2
	Major Equipment BreakDowns Power		Other Major equipment BreakDowns separate by commas

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General Information

Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

ndustry Au	tomotive		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
3	Maintenance Manager/Superintendent	10	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	Allen-Bradley, Mannesmann Rexroth Hydraulics, Mann Division	esmann Rexroth-Indramat	grob,landis,huller
	PLC brands used: Allen-Bradley		Shift with most down Time 3
	Number of Major BreakDowns per year	0	
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Pump		separate by commas
3	Maintenance Manager/Superintendent	10	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	Not Selected		separate by commas
	PLC brands used: Schneider		Shift with most down Time 3
	Number of Major BreakDowns per year	2	
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Other		separate by commas

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General Information

 $Reports\ from\ online\ equipment\ downtime\ survey$

www.AboutDowntime.com/Survey/Survey.asp

Number of Shifts	Ocupation of participant	Percent of Outsourcing	
3	Maintenance Foreman/Supervisor	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Omron Number of Major BreakDowns per year	1	Shift with most down Time
	Major Equipment BreakDowns Other		Other Major equipment BreakDowns STAMPING PRESS

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General Information				
Industry	Food, beverages, tobacco			

Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp

ndustry Fo	ood, beverages, tobacco		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
2	Plant/Maintenance Engineer	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation Crown
	PLC brands used: Siemens, Honeywell Number of Major BreakDowns per year	2	Shift with most down Time 0
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Not Selected		filler
2	Maintenance Manager/Superintendent	10	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	Not Selected PLC brands used: Allen-Bradley Number of Major BreakDowns per year	3	Shift with most down Time 2
	Major Equipment BreakDowns Air Compresor, Boiler		Other Major equipment BreakDowns separate by commas

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General Information

Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

dustry	Food, beverages, tobacco		
Number of Shift	Ocupation of participant	Percent of Outsourcin	og
2	Plant/Maintenance Engineer	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley, Siemens, GE F Number of Major BreakDowns per year	anuc 1	Shift with most down Time
	Major Equipment BreakDowns Other		Other Major equipment BreakDowns scales
	Other		Scales
3	Maintenance Foreman/Supervisor	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley, Modicon/Gould		Shift with most down Time
	Number of Major BreakDowns per year	2	
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	·		

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General Information

Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

	Foo			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
3		Maintenance Manager/Superintendent	0	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley, GE Fanuc Number of Major BreakDowns per year	1	Shift with most down Time
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Not Selected		separate by commas
3		Maintenance Manager/Superintendent	30	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Allen-Bradley, Baldor Electric Company		separate by commas
		PLC brands used: Allen-Bradley		Shift with most down Time
		Number of Major BreakDowns per year	2	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Power		separate by commas

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General Info	rmation	_	from online equipment downtime survey boutDowntime.com/Survey/Survey.asp
Industry Food	Industry Food, beverages, tobacco		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
3	Other	10	
	Equipment with No OEM Documentation Baldor Electric Company		Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley Number of Major BreakDowns per year	4	Shift with most down Time 4
	Major Equipment BreakDowns Hoppers, Other		Other Major equipment BreakDowns Hoppers, Feeders, Drive Gearbox,

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Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

Number of Shifts	Ocupation of participant	Percent of Outsourcing	
2	Plant/Maintenance Engineer	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation Nucon, Maguire
	PLC brands used: Allen-Bradley Number of Major BreakDowns per year	1	Shift with most down Time
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Air Compresor, Power		separate by commas
2	Plant/Maintenance Engineer	40	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	Direct Wire & Cable Inc		separate by commas
	PLC brands used: Allen-Bradley		Shift with most down Time
	Number of Major BreakDowns per year	4	
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Water Chiller		separate by commas

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General Info	rmation	Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp
Industry Inje	ction molding/ Extrusion	
Number of Shifts	Ocupation of participant	Percent of Outsourcing
3	Maintenance Manager/Superintendent	10
	Equipment with No OEM Documentation	Other OEM with no Documentation
	ESTA Corp, Simplex	Accu-Sort
	PLC brands used: Allen-Bradley, Siemens, Mitsu	bishi, Telemechanique, SquareD Shift with most down Time 3
	Number of Major BreakDowns per year	1
	Major Equipment BreakDowns	Other Major equipment BreakDowns

3	Other	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley, Modicon/Gould Number of Major BreakDowns per year	1	Shift with most down Time 3
	Major Equipment BreakDowns Power		Other Major equipment BreakDowns separate by commas

conveyors

Power

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General	Information
Industry	Injection molding/Extrusion

Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp

	J	www.A	boutDowntime.com/Survey/Survey.asp
Industry	Injection molding/ Extrusion		
Number of Shi	fts Ocupation of participant	Percent of Outsourcing	
4	Plant/Maintenance Engineer	10	
	Equipment with No OEM Documentation Allen-Bradley		Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley Number of Major BreakDowns per year	1	Shift with most down Time 3
	Major Equipment BreakDowns Other		Other Major equipment BreakDowns Thermoformer

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General Information		
Industry	Machinery and equipment	
Number of Shifts	Ocupation of participant	Per
1	Other	
	Equipment with No OEM Documentation	

www.AboutDowntime.com/Survey/Survey.asp

Number of Shifts	Ocupation of participant	Percent of Outsourcing	
1	Other	10	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	ABB Automation Inc		separate by commas
	PLC brands used: Allen-Bradley		Shift with most down Time
	Number of Major BreakDowns per year	3	
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Power		separate by commas
_	Other	30	
2	Other		
2	Equipment with No OEM Documentation		Other OEM with no Documentation
2			Other OEM with no Documentation separate by commas
2	Equipment with No OEM Documentation		
2	Equipment with No OEM Documentation Not Selected	1	separate by commas
2	Equipment with No OEM Documentation Not Selected PLC brands used: Not Selected	1	separate by commas

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General In	formation	Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp
Industry	Machinery and equipment	
Number of Shift	s Ocupation of participant	Percent of Outsourcing
3	Maintenance Manager/Superintendent	10
	Equipment with No OEM Documentation Allen-Bradley, ESTA Corp	Other OEM with no Documentation Accu-sort
	PLC brands used: Telemechanique, SquareD Number of Major BreakDowns per year	Shift with most down Time 3
	Major Equipment BreakDowns	Other Major equipment BreakDowns

3	Other	20	
	Equipment with No OEM Documentation FANUC Robotics North America, Inc.		Other OEM with no Documentation separate by commas
	PLC brands used: GE Fanuc Number of Major BreakDowns per year	1	Shift with most down Time 3
	Major Equipment BreakDowns Power		Other Major equipment BreakDowns separate by commas

conveyors

Power

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www.AboutDowntime.com/Survey/Survey.asp

idustry M	achinery and equipment		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
3	Maintenance Manager/Superintendent	10	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	Allen-Bradley, ESTA Corp		Accu-sort
	PLC brands used: Telemechanique, SquareD		Shift with most down Time
	Number of Major BreakDowns per year	1	•
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Power		conveyors
3	Plant/Maintenance Engineer	0	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	Honeywell		separate by commas
	PLC brands used: Allen-Bradley		Shift with most down Time
	Number of Major BreakDowns per year	1	
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Pump		separate by commas

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Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

Number of Shifts	Ocupation of participant Per	cent of Outsourcing	
3	Maintenance Manager/Superintendent	20	
	Equipment with No OEM Documentation Allen-Bradley		Other OEM with no Documentation Accu-Sort
	PLC brands used: Allen-Bradley, Mitsubishi, Telemecha Number of Major BreakDowns per year	anique, SquareD 1	Shift with most down Time
	Major Equipment BreakDowns Power		Other Major equipment BreakDowns conveyor
4	Maintenance Manager/Superintendent	80	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Not Selected Number of Major BreakDowns per year	1	Shift with most down Time
	Major Equipment BreakDowns CNC		Other Major equipment BreakDowns separate by commas

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Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

lustry Mac	chinery and equipment		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
4	Maintenance Foreman/Supervisor	10	
	Equipment with No OEM Documentation		Other OEM with no Documentation
	A & A Manufacturing Co Inc, Accurpress/Accurshear, AL Cutler Hammer, DynaPath, Fagor Automation Corporation		separate by commas
	PLC brands used: Don't Know		Shift with most down Time
	Number of Major BreakDowns per year	1	
	Major Equipment BreakDowns		Other Major equipment BreakDowns
	Other		cnc

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General	In	form	ation
General	LIU		uiiOii

www.AboutDowntime.com/Survey/Survey.asp

dustry Me	etal products		
Number of Shifts	Ocupation of participant	Percent of Outsourcin	g
2	Maintenance Manager/Superintendent	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Siemens, Mitsubishi Number of Major BreakDowns per year	4	Shift with most down Time
	Major Equipment BreakDowns Other		Other Major equipment BreakDowns Plant Spefic Equipment,
2	Maintenance Crafts/Tradesperson	30	
	Equipment with No OEM Documentation AC Machine Inc, Allen-Bradley, Wisconsin Automated Machine Inc.	chinery	Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley	10	Shift with most down Time
	Number of Major BreakDowns per year Major Equipment BreakDowns Air Compresor, Pump, Boiler, Power		Other Major equipment BreakDowns separate by commas

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General Information		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry Met	tal products		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
2	Other	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley, GE Fanuc, PLO Number of Major BreakDowns per year	CDirect, Telemechanique, IDEC	Shift with most down Time 4
	Major Equipment BreakDowns Not Selected		Other Major equipment BreakDowns separate by commas
3	Process/Industrial Engineer	10	
	Equipment with No OEM Documentation Allen-Bradley, Alliant Energy Resources		Other OEM with no Documentation separate by commas
	PLC brands used: Allen-Bradley Number of Major BreakDowns per year	2	Shift with most down Time 4
	Major Equipment BreakDowns		Other Major equipment BreakDowns

roll stands, hydraulics

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Other

General Information		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry Met	tal products		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
3	Maintenance Manager/Superintendent	10	
	Equipment with No OEM Documentation Not Selected	Other OEM with no Documentation separate by commas	
	The orange asou.	mron, Siemens, Mitsubishi, Toshiba Shift with most down Time 0	
	Number of Major BreakDowns per year Major Equipment BreakDowns	Other Major equipment BreakDowns	
	Not Selected	separate by commas	
3	Maintenance Crafts/Tradesperson	10	
	Equipment with No OEM Documentation Weldsale Co	Other OEM with no Documentation separate by commas	
	PLC brands used: SquareD Number of Major BreakDowns per year	Shift with most down Time 3	

Other Major equipment BreakDowns

separate by commas

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Major Equipment BreakDowns

Air Compresor

General Information		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry Othe	r		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	
0	Other	10	
	Equipment with No OEM Documentation Not Selected	Other OEM with research separate by commas	no Documentation
	PLC brands used: Don't Know Number of Major BreakDowns per year Major Equipment BreakDowns Not Selected	0	ost down Time 1 oment BreakDowns 1/3 of our facility

0	Other	20	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Not Selected Number of Major BreakDowns per year	1	Shift with most down Time 3
	Major Equipment BreakDowns Other		Other Major equipment BreakDowns separate by commas

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General Information			
Industry	Othe	er	
Numbe	r of Shifts	Ocupation of participant	

www.AboutDowntime.com/Survey/Survey.asp

dustry	Other			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
1		Other	10	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation Heidelberg USA
		PLC brands used: Not Selected Number of Major BreakDowns per year	0	Shift with most down Time
		Major Equipment BreakDowns Not Selected		Other Major equipment BreakDowns separate by commas
2		Maintenance Foreman/Supervisor	20	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley, Siemens Number of Major BreakDowns per year	4	Shift with most down Time
		Major Equipment BreakDowns Air Compresor, Pump, Boiler		Other Major equipment BreakDowns separate by commas

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General Information		Reports from online equipment downtime survey www.AboutDowntime.com/Survey/Survey.asp	
Industry Oth	er		
Number of Shifts	Ocupation of participant	Percent of Outsourcing	g
2	Other	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: PLCDirect Number of Major BreakDowns per year	0	Shift with most down Time 1
	Major Equipment BreakDowns Not Selected		Other Major equipment BreakDowns separate by commas
2	Plant/Maintenance Engineer	10	
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
	PLC brands used: Omron Number of Major BreakDowns per year	0	Shift with most down Time 1

Other Major equipment BreakDowns

wave solder machine

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Major Equipment BreakDowns

Not Selected

www.AboutDowntime.com/Survey/Survey.asp

idustry	Other			
Number of	f Shifts	Ocupation of participant	Percent of Outsourcing	
2		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Not Selected		separate by commas
		PLC brands used: Allen-Bradley, Omron, Siemen Modicon/Gould	s, Mitsubishi, GE Fanuc,	Shift with most down Time
		Number of Major BreakDowns per year	1	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Air Compresor		separate by commas
2		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Not Selected		separate by commas
		PLC brands used: Allen-Bradley, Omron, GE Fan	uc	Shift with most down Time
		Number of Major BreakDowns per year	3	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Other		Waste, Residule collection

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www.AboutDowntime.com/Survey/Survey.asp

dustry	Other			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
2		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Not Selected		Temescal, Veeco, Kasper, Canon, Karl Suss, Solitec, Semitool, Hybond, Spire, Bruce
		PLC brands used: Allen-Bradley, Omron, Siemens,	, Telemechanique, Schneider	Shift with most down Time
		Number of Major BreakDowns per year	2	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Other		evaporators,bonders,aligners,furnaces
3		Maintenance Technician	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Salvagnini		Mazak
		PLC brands used: Allen-Bradley		Shift with most down Time
		Number of Major BreakDowns per year	0	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Pump		manf. machines

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Reports from online equipment downtime survey

www.AboutDowntime.com/Survey/Survey.asp

ıdustry	Other			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
3		Maintenance Technician	10	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley Number of Major BreakDowns per year	0	Shift with most down Time
		Major Equipment BreakDowns Power		Other Major equipment BreakDowns separate by commas
3		Maintenance Manager/Superintendent	20	
		Equipment with No OEM Documentation Mitsubishi		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley	0	Shift with most down Time
		Number of Major BreakDowns per year Major Equipment BreakDowns Not Selected	0	Other Major equipment BreakDowns separate by commas

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General	In	form	ation
General	IIU		auvn

www.AboutDowntime.com/Survey/Survey.asp

dustry	Other			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
3		Process/Industrial Engineer	10	
		Equipment with No OEM Documentation Allen-Bradley		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley Number of Major BreakDowns per year	1	Shift with most down Time
		Major Equipment BreakDowns Pump		Other Major equipment BreakDowns separate by commas
3		Plant/Maintenance Engineer	10	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley	4	Shift with most down Time
		Number of Major BreakDowns per year Major Equipment BreakDowns Air Compresor, Water Chiller, Power	·	Other Major equipment BreakDowns separate by commas

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dustry	Other			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
3		Other	50	
		Equipment with No OEM Documentation Komatsu Cutting Technologies		Other OEM with no Documentation INGERSOLL RAND
		PLC brands used: Not Selected Number of Major BreakDowns per year	1	Shift with most down Time 3
		Major Equipment BreakDowns Other		Other Major equipment BreakDowns Hydraulic shovels&trucks
3		Other	30	1 iyuraulic Shoveisati ucks
3		Equipment with No OEM Documentation Omron, SquareD	30	Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley Number of Major BreakDowns per year	5	Shift with most down Time
		Major Equipment BreakDowns Not Selected, Air Compresor, Hoppers, Power		Other Major equipment BreakDowns separate by commas

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Industry C	ther			
Number of Shifts	Ocupation of participant	Percent of Outsourcin	g	
3	Plant/Maintenance Engineer	10		
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation Reliance	
	PLC brands used: Not Selected Number of Major BreakDowns per year	3	Shift with most down Time 3	
	Major Equipment BreakDowns Other		Other Major equipment BreakDowns Large DC Drives, Preheat Furnace, Monorail System	
3	Maintenance Clerk	10		
	Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas	

Shift with most down Time

Other Major equipment BreakDowns

separate by commas

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PLC brands used: Modicon/Gould

Major Equipment BreakDowns

Air Compresor

Number of Major BreakDowns per year

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ıdustry	Other			
Number of S	Shifts	Ocupation of participant	Percent of Outsourcing	
3		Other	10	
		Equipment with No OEM Documentation Siemens		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley Number of Major BreakDowns per year	3	Shift with most down Time 1
		Major Equipment BreakDowns Air Compresor		Other Major equipment BreakDowns separate by commas
3		Maintenance Manager/Superintendent	20	
		Equipment with No OEM Documentation ABB Automation Inc, LS Industries Inc		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley, GE Fanuc, PLCE Number of Major BreakDowns per year	Direct 2	Shift with most down Time
		Major Equipment BreakDowns Power		Other Major equipment BreakDowns separate by commas

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ndustry	Other			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
3		Plant/Maintenance Engineer	30	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Baldor Electric Company , Esco Tool, Honeywell, Panar Measuring Systems, Rockwell Automation, Siemens, Si		separate by commas
		PLC brands used: Allen-Bradley		Shift with most down Time
		Number of Major BreakDowns per year	1	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Boiler		separate by commas
3		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Not Selected		separate by commas
		PLC brands used: Allen-Bradley		Shift with most down Time 2
		Number of Major BreakDowns per year	2	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Power		separate by commas

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dustry	Other	,		
Number of	f Shifts	Ocupation of participant	Percent of Outsourcing	
3		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		ABB Automation Inc		separate by commas
		PLC brands used: Allen-Bradley		Shift with most down Time
		Number of Major BreakDowns per year	0	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Power		separate by commas
3		Other	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		FANUC Robotics North America, Inc.		separate by commas
		PLC brands used: Modicon/Gould		Shift with most down Time
		Number of Major BreakDowns per year	0	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Not Selected		separate by commas

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ıdustry	Other			
Number of	f Shifts	Ocupation of participant	Percent of Outsourcing	
3		Plant/Maintenance Engineer	30	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Don't Know Number of Major BreakDowns per year	4	Shift with most down Time
		Major Equipment BreakDowns Other		Other Major equipment BreakDowns equipment
4		Other	10	
		Equipment with No OEM Documentation Schneider		Other OEM with no Documentation separate by commas
		PLC brands used: Schneider	1	Shift with most down Time
		Number of Major BreakDowns per year Major Equipment BreakDowns Power	ı	Other Major equipment BreakDowns separate by commas

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ndustry	Other			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
4		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Allen-Bradley Number of Major BreakDowns per year	1	Shift with most down Time 2
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Other		Process Equipment
4		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Siemens		Shift with most down Time
		Number of Major BreakDowns per year	0	
		Major Equipment BreakDowns Not Selected		Other Major equipment BreakDowns separate by commas

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General	Information

 ${\it Reports from \ online \ equipment \ downtime \ survey}$

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ndustry	Other			
Number o	f Shifts	Ocupation of participant	Percent of Outsourcing	
4		Plant/Maintenance Engineer	10	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Don't Know Number of Major BreakDowns per year	0	Shift with most down Time
		Major Equipment BreakDowns Not Selected		Other Major equipment BreakDowns separate by commas
9		Other	0	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Not Selected	0	Shift with most down Time
		Number of Major BreakDowns per year Major Equipment BreakDowns Not Selected	0	Other Major equipment BreakDowns separate by commas

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dustry	Paper			
Number of S	Shifts	Ocupation of participant	Percent of Outsourcing	
1		Other	30	
		Equipment with No OEM Documentation Not Selected		Other OEM with no Documentation separate by commas
		PLC brands used: Not Selected Number of Major BreakDowns per year	1	Shift with most down Time
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Power		separate by commas
2		Other	75	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Haberle/Ken Bergman & Assoc		Heidelberg
		PLC brands used: Siemens		Shift with most down Time
		Number of Major BreakDowns per year	0	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Other		printing machine

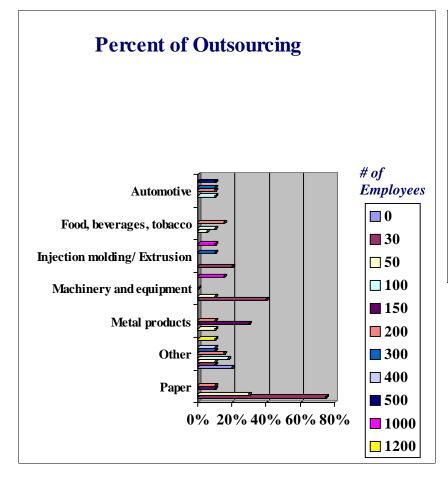
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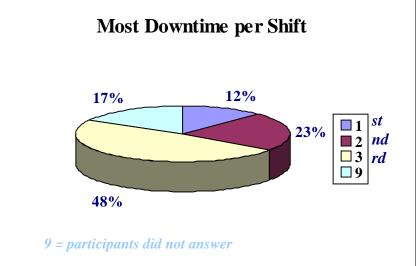
Reports from online equipment downtime survey

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ıdustry	Paper			
Number of	Shifts	Ocupation of participant	Percent of Outsourcing	
3		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Cutler Hammer, GE Fanuc, Siemens		Micromatic
		PLC brands used: Allen-Bradley, Siemens, GE Fa	anuc, Cutler Hammer	Shift with most down Time
		Number of Major BreakDowns per year	4	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Boiler, Other		Asitrade, Flexo Printers, Offset Printers
3		Maintenance Manager/Superintendent	10	
		Equipment with No OEM Documentation		Other OEM with no Documentation
		Allen-Bradley		separate by commas
		PLC brands used: Allen-Bradley		Shift with most down Time
		Number of Major BreakDowns per year	2	
		Major Equipment BreakDowns		Other Major equipment BreakDowns
		Boiler		separate by commas

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The pie chart above just shows what we all know to be true. The downtime is proportional to the lack of technical support on the "off shifts". The addition of large manufacturers to the survey did not change this fact. This is also the primary purpose of Business Industrial Network. "To provide technical support 24/7 via the internet, and other media." (WWW.BIN95.com)

The precentage of outsourcing remains to be an average of 10% across all industries.

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