



## 2013 Next Generation Manufacturing Study

Many U.S. manufacturers are reinventing themselves through new leadership, new strategies, and new support systems, regaining competitiveness — along with profits and jobs — lost during a decade of outsourcing and downsizing. The *2013 Next Generation Manufacturing Study* will outline how successful manufacturers are at creating new value by identifying the top performances and best practices necessary for world-class status in the 21st century.

The NGM Study is a biennial survey conducted by the Manufacturing Performance Institute (MPI) with the American Small Manufacturers Coalition (ASMC), an association of manufacturing extension centers that work to improve the innovation and productivity of America's manufacturing community. One ASMC program of primary focus is the National Institute of Standards and Technology (NIST) Manufacturing Extension Partnership (MEP) program. The Association for Manufacturing Excellence also is participating in this year's NGM Study.

**Please complete this Study questionnaire to the best of your ability by September 11, 2013.** You may participate either *anonymously* or *confidentially (explanations below)* based on the type of Study incentive you wish to receive. You also can download a PDF of the NGM questionnaire and mail it to NGMS, P.O. Box 4330, Dublin, OH 43016, or fax to 614-389-3816.

### **Study Incentives**

*NGM Performance Report* — *Confidential participation*: To receive a free customized NGM Performance Report that compares your responses to all Study respondents and Study respondents similar to your organization (e.g., annual revenues, number of employees), please complete the online questionnaire and include contact information at the bottom of the questionnaire. Your responses will remain confidential — only MPI, which distributes the NGM Performance Report, will be able to identify your specific responses. Data will be disseminated only in aggregate form; no company-specific responses will be released.

*NGM Data Report* — *Anonymous participation*: Please complete this questionnaire and then provide contact information at a separate website that will be presented to you after you submit your questionnaire. The Data Report includes statistics on all Study questions. Your NGM Study responses will remain anonymous — no one will be able to identify your company with specific responses.

	Profile					
<b>1. Which of the following describes your organization?</b> (check one, and then answer the remainder of the survey based on your selection below)						
	<sup>1-1</sup> Company	<sup>2</sup> Division/unit	of a larger company			
2. Is your company public or privately held? (che	ck one)	<sup>100-1</sup> Public	<sup>2</sup> Private			
3. Please indicate the state in which your organization is located66						
4. Please indicate the primary product manufactured: <sup>2</sup>						
5. How many years has your organization been in	n operation?		4			
6. What are your approximate annual revenues?		\$	5			
7. Was your company profitable for the most rec	cent fiscal year?	<sup>101-1</sup> Yes <sup>2</sup>	No			
8. How many full-time employees (and equivalents)? <sup>6</sup>						
9. What is the age of your organization's chief executive?						
<sup>7-1</sup> < 30 <sup>2</sup> 30-40	<sup>3</sup> 41-50	⁴☐ 51-60	⁵_ >60			
<b>10. Do you anticipate a planned succession of leadership in the next five years?</b> <sup>8-1</sup> Yes <sup>2</sup> Maybe <sup>3</sup> No						
11. What is your organization's investment in capital equipment as a percentage of sales (three-year average)?						
<sup>29-1</sup> <1% <sup>2</sup> 1-5%	<sup>3</sup> 6-	10%	4 >10%			
12. What is your organization's investment in inf as a percentage of sales (three-year average)	-	es (hardware and softwa	re)			
<sup>38-1</sup> <1% <sup>2</sup> 1-5%	3	6-10%	4 >10%			
13. Does your organization design the majority of	of products it manufa	ctures? 200-1 Ye	es <sup>3</sup> No			
World-Class C	ustomer-Focused I	nnovation				
Develop, make, and market new products and services that meet customers' needs at a pace faster than the competition						
14. Rate the importance of customer-focused innovation to your organization's success over the next five years:						
$^{9-1}$ 1=Not important $^{2}$ 2	<sup>3</sup> 3 <sup>4</sup> [	4 5=Highly	important			
15. Rate your organization's progress toward wo	orld-class customer-fo	ocused innovation:				
<sup>10-1</sup> 1=No progress <sup>2</sup> 2	<sup>3</sup> 3 <sup>4</sup>	4 5=World	l-class			

#### **Input Measures**

16. What best describes y	our customer-focused innovatio	on strategy?			
<sup>102-1</sup> No strategy					
2	with little or no functional involv				
	c strategy with some functional i c strategy with full functional inv	-			
	t strategy with full functional life	olvement and buy-in			
17. Does your organizatio	n have the skilled innovation led	adership and talent (e.g., prod	luct		
	development program to drive v	world-class customer-focused	innovation		
into the next generation	on? (check one in each row)	_			
Leadership and talent	<sup>201-1</sup> Yes	<sup>2</sup> No			
Talent development pr	ogram <sup>202-1</sup> Yes	<sup>2</sup> No			
18 What hest describes t	he quality of your business syste	ams and equinment to sunnor	+		
world-class customer-		enis and equipment to suppor	·		
<sup>104-1</sup> None					
	urrent requirements				
<u> </u>	nited to current requirements				
<sup>4</sup> State-of-the-art	and able to provide long-term su	pport			
19. What nercentage of sa	ales is invested into new-produc	t development/R&D?			
12.1	2	_	4 . 4 . 00 /		
<sup>12-1</sup> <1%	² <u> </u>	<sup>3</sup> 6-10%	4 >10%		
20. What best describes your measurement system for reviewing return from customer-focused innovation?					
<sup>13-1</sup> No measuremen	t system per se or reviews				
	ng of basic measures and ad hoc	reviews			
<sup>3</sup> Company-specific metrics monitored regularly by operations staff					
<sup>4</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff					
<sup>3</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff					
and transparency and clarity throughout the organization					
	Output M				
	Output M	leasures			
		leasures erived from products introduc	ced		
	Output M percentage of annual sales are do	leasures erived from products introduc	ced ⁴ <u> </u>		
in the past three year $^{15-1}$ <5%	Output M bercentage of annual sales are do s (new SKUs, not a product itera	leasures erived from products introduc ition or line extension)? <sup>3</sup> 26-50%	4		
in the past three year $^{15-1}$ <5%	Output M percentage of annual sales are do s (new SKUs, not a product itera <sup>2</sup> 5-25%	leasures erived from products introduc ition or line extension)? <sup>3</sup> 26-50%	4		
in the past three year 15-1 ] < 5% 22. What percentage of R 105-1 ] < 25%	Output M percentage of annual sales are do s (new SKUs, not a product itera <sup>2</sup> 5-25% &D (by expense) is commercializ <sup>2</sup> 25-50%	leasures erived from products introduction or line extension)? 3 26-50% zed? 3 51-75%	<sup>4</sup> □ >50% <sup>4</sup> □ >75%		
in the past three year 15-1 ] < 5% 22. What percentage of R 105-1 ] < 25%	Output M bercentage of annual sales are do s (new SKUs, not a product itera <sup>2</sup> 5-25% &D (by expense) is commercializ	leasures erived from products introduction or line extension)? 3 26-50% zed? 3 51-75%	<sup>4</sup> □ >50% <sup>4</sup> □ >75%		

24. What was your o	customer-retention i	rate over the past	12 months?			
<sup>203-1</sup> <25%	<sup>2</sup> 25-50%	<sup>3</sup> 51-75%	⁴ 76-90%	<sup>5</sup> 91-99%	6 100%	
25. Which of the fol	lowing best describe	es your organizatio	on's relationship wit	h its customers?		
<ul> <li>25. Which of the following best describes your organization's relationship with its customers?</li> <li><sup>204-1</sup> Buy and sell (e.g., cost and quality focus)</li> <li><sup>2</sup> Certification (e.g., broad qualifications established)</li> <li><sup>3</sup> Cooperation (e.g., sharing product ideas, best practices)</li> <li><sup>4</sup> Partnership (e.g., sharing resources, intellectual property, cost savings)</li> </ul>						
26. What is your org	anization's best pra	ctice for innovatio	on? (briefly describe)		16	
World-Cla	iss Engaged People	e/Human-Capita	l Acquisition, Deve	elopment and Rete	ention	
Secure a competitive performance advantage by having superior systems in place to recruit, hire, develop, and retain talent						
27. Rate the importance of human-capital acquisition, development and retention to your organization's success over the next five years:						
<sup>17-1</sup> 1=Not impo	ortant <sup>2</sup> 2	<sup>3</sup> 3	4 4	⁵ 5=Highly im	portant	
<b>28.</b> Rate your organization's progress toward world-class human-capital acquisition, development and retention: <sup>18-1</sup> 1=No progress <sup>2</sup> 2 <sup>3</sup> 3 <sup>4</sup> 4 <sup>5</sup> 5=World-class						
Input Measures						
29. What best describes your human-capital-management strategy?						
<ul> <li><sup>107-1</sup> No strategy</li> <li><sup>2</sup> Generic strategy with little or no functional involvement and buy-in</li> <li><sup>3</sup> Company-specific strategy with some functional involvement and buy-in</li> <li><sup>4</sup> Company-specific strategy with full functional involvement and buy-in</li> </ul>						
<b>30.</b> Does your organization have the <i>skilled HR leadership and talent</i> (e.g., recruiters, benefits experts) and talent-development program to drive world-class human-capital management into the next generation? (check one in each row)						
Leadership and ta	alent	<sup>205-1</sup> Yes	<sup>2</sup> No			
Talent developm	ent program	<sup>206-1</sup> Yes	<sup>2</sup> No			
<b>31. What best describes the quality of your business systems and equipment to support world-class HR?</b>						

<sup>2</sup> Inadequate for current requirements
 <sup>3</sup> Adequate but limited to current requirements
 <sup>4</sup> State-of-the-art and able to provide long-term support

32. What percentage high-performance		e technical skills, proble	m-solving skills, and we	ork ethic to excel in				
<sup>110-1</sup> <25%	<sup>2</sup> 25-50%	<sup>3</sup> 51-75%	⁴76-90%	<sup>5</sup> >90%				
33. How many formal	33. How many formal training hours are devoted annually to each employee?							
<sup>20-1</sup> 8 or fewer	<sup>2</sup> 9-20	<sup>3</sup> 21-40	<sup>4</sup> >40					
34. To what degree has your organization established skill standards and aligned training with employee mastery of these skill standards?								
<ul> <li><sup>111-1</sup> No established skill standards</li> <li><sup>2</sup> Skill standards and training alignment for a few positions</li> <li><sup>3</sup> Skill standards and training alignment for majority of positions</li> <li><sup>4</sup> Skill standards and training alignment for all positions</li> </ul>								
	es your measurement quisition, development	system for reviewing re and retention?	eturn from					
<ul> <li><sup>22-1</sup> No measurement system per se or reviews</li> <li><sup>2</sup> Ad hoc monitoring of basic measures and ad hoc reviews</li> <li><sup>3</sup> Company-specific metrics monitored regularly by operations staff</li> <li><sup>4</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li><sup>5</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li>and transparency and clarity throughout the organization</li> </ul>								
36. Which strategy be	st describes your prim	ary hiring process?						
<ul> <li><sup>207-1</sup> Hiring led by department or function personnel</li> <li><sup>2</sup> Hiring led by internal HR department</li> <li><sup>3</sup> Hiring led by temporary agency</li> <li><sup>4</sup> Hiring led by outsourced HR firm</li> <li><sup>5</sup> Other</li> </ul>								
<ul> <li>37. To what extent does your organization partner with vocational schools, high schools, community colleges, universities, and similar institutions to nurture a manufacturing workforce?</li> <li>208-1 No partnering</li> <li><sup>208-1</sup> Some partnering</li> <li><sup>3</sup> Moderate partnering</li> </ul>								
<sup>4</sup> Extensive pa								
		Output Measures						
38. What is your company's sales per employee?								
<sup>209-1</sup> < \$100,000	<sup>2</sup> \$100,000-\$2		0,000-\$400,000	⁴>\$400,000				
	nization's annual labor ary and involuntary se	• turnover rate parations ÷ typical staff	ing level)?					
<sup>24-1</sup> 0%	<sup>2</sup> 0.1-1%	<sup>3</sup> 1.1-5%	⁴── 5.1-10%	<sup>5</sup> >10%				
40. What percentage	of the workforce has b	een with your organiza	tion for more than five	years?				
<sup>210-1</sup> <25%	² 25-50%	<sup>3</sup> 51-75%	⁴[] 76-99%	5 100%				
41. What is your organization's best practice for human-capital development? (briefly describe)								

World-Class Superior Processes/Improvement Focus					
Record annual productivi		that exceed the con continuous improve		a companywide commit	ment to
42. Rate the importance	of process improver	nent to your organ	ization's success o	over the next five years:	
<sup>26-1</sup> 1=Not importan	t <sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	<sup>5</sup> 5=Highly important	•
43. Rate your organizatio	n's progress toward	l world-class proces	sses and process i	mprovement:	
<sup>27-1</sup> 1=No progress	<sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	<sup>5</sup> 5=World-class	
		Input Measure	S		
44. What best describes	our continuous-im	provement (CI) stra	tegy?		
<ul> <li><sup>112-1</sup> No strategy         <ul> <li>Generic strategy with little or no functional involvement and buy-in</li> <li>Company-specific strategy with some functional involvement and buy-in</li> <li>Company-specific strategy with full functional involvement and buy-in</li> </ul> </li> <li>45. Does your organization have the <i>skilled process-improvement leadership and talent</i> (e.g., Cl experts, black belts, lean experts) and talent-development program to drive continuous operations improvements into the next generation? (check one in each row)</li> </ul>					
Leadership and talent	2	<sup>11-1</sup> Yes <sup>2</sup>	]No		
Talent development p	rogram <sup>2</sup>	<sup>12-1</sup> Yes <sup>2</sup>	]No		
<ul> <li>46. What best describes the quality of your business systems and equipment to support continuous operations improvements?</li> <li><sup>114-1</sup> None</li> <li><sup>2</sup> Inadequate for current requirements</li> <li><sup>3</sup> Adequate but limited to current requirements</li> <li><sup>4</sup> State-of-the-art and able to provide long-term support</li> </ul>					
47. What percentage of your workforce has been fully engaged in your organization's specific improvement method/approach?					
<sup>28-1</sup> <25%	<sup>2</sup> 25-50%	<sup>3</sup> 51-75%	⁴ 76	-99% <sup>5</sup> □10	00%
48. How does your organ production experimer	nts, etc.?		/experiences, sucl	າ as process improveme	nts,
<sup>2</sup> Ad hoc capture of <sup>3</sup> Occasional capt	perations knowledge of operations knowle ure of operations knowle of operations knowledge	edge/experiences v owledge/experienc	es via manual and	electronic formats	

<sup>4</sup> Regular capture of operations knowledge/experiences principally via electronic formats

49. What best describes your measurement system for reviewing return from process improvements?						
<ul> <li><sup>30-1</sup> No measurement system per se or reviews</li> <li><sup>2</sup> Ad hoc monitoring of basic measures and ad hoc reviews</li> <li><sup>3</sup> Company-specific metrics monitored regularly by operations staff</li> <li><sup>4</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li><sup>5</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li>and transparency and clarity throughout the organization</li> </ul>						
		Output Measur	es			
50. What percentage of deliv to all customer specificat		omers in perfect o	rder (on time, high	quality,		
214-1 <80%	² 80-89%	6	<sup>3</sup> 90-99%	<sup>4</sup> 100%		
51. How have your per-unit manufacturing costs (excluding purchased materials) changed over the past three years?						
<sup>215-1</sup> Decreased >10% 5 Increased 1-5%		ased 6-10% sed 6-10%	<sup>3</sup> Decreased 1- <sup>7</sup> D Increased >1			
<ul> <li>52. Describe your customers' satisfaction with your overall performance.</li> <li>32-1 Threatens to pull business because we don't match the competition</li> <li>2 Indifferent to buying our product or competitors</li> <li>3 Preference for our products by virtue of price, quality, and delivery performance</li> <li>4 Strong loyalty to our products due to ongoing trust in our organization's people and capabilities</li> <li>53. By what percentage has sales per employee improved over the past three years (current year figure vs. three-years ago)?</li> <li>216-1 &lt;25%</li> <li>2 25-50%</li> <li>3 51-75%</li> <li>4 76-100%</li> <li>5 &gt;100%</li> <li>54. What is your organization's best practice for process improvement? (briefly describe)</li> </ul>						
World-Class Supply-Chain Management & Collaboration Develop and manage supply chains and partnerships that provide flexibility, response time, and delivery performance that exceeds the competition						
55. Rate the importance of supply-chain management and collaboration to your organization's success over the next five years:						
<sup>35-1</sup> 1=Not important	<sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	5=Highly important		
56. Rate your organization's	progress toward	world-class suppl	y-chain manageme	nt and collaboration:		
<sup>36-1</sup> 1=No progress	<sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	5=World-class		

57. What best describes your supply-chain strategy	57.	What	best	describes	vour	supp	olv-chair	n strategy
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#### <sup>115-1</sup> No strategy

Generic strategy with little or no functional involvement and buy-in

Company-specific strategy with some functional involvement and buy-in

<sup>4</sup> Company-specific strategy with full functional involvement and buy-in

58. Does your organization have the *skilled supply-chain-management leadership and talent* (e.g., logistics engineers) and talent-development program to drive world-class supply-chain management into the next generation? (check one in each row)

Leadership and talent	<sup>217-1</sup> Yes	<sup>2</sup> No
Talent development program	<sup>218-1</sup> Yes	<sup>2</sup> No

59. What best describes the quality of your business systems and equipment to support world-class supply-chain management?

<sup>117-1</sup> None

<sup>2</sup> Inadequate for current requirements

Adequate but limited to current requirements

<sup>4</sup> State-of-the-art and able to provide long-term support

# 60. What best describes your ability to monitor supplier goods and behaviors throughout your entire supply chain?

<sup>2</sup>5-25%

<sup>219-1</sup> No ability to monitor supply chain

Limited ability to monitor supply chain

Moderate ability to monitor supply chain

<sup>4</sup> Significant ability to monitor supply chain

<sup>5</sup> Complete monitoring of supply chain

61. What percentage of staff time and resources is spent expediting, fire-fighting, resolving conflicts with customers and suppliers, etc. rather than strategic procurement and supply-chain planning and partnering?

<sup>118-1</sup> <5%

3	26-	·50	%

⁴\_\_ >50%

62. What best describes your measurement system for reviewing return from supply-chain management and collaboration?

	nt system per se or reviews				
<sup>2</sup> Ad hoc monitor	ing of basic measures and ad ł	noc reviews			
<sup>3</sup> Company-speci	fic metrics monitored regularly	y by operations staff			
<sup>4</sup> Regular monito	ring and review of company-sp	pecific metrics by CEO and sen	ior staff		
⁵ Regular monito	<sup>5</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff				
and transparen	cy and clarity throughout the o	organization			
	Outpu	t Measures			
	Cutpu	in medsures			
63. By approximately what percentage has total value of inventory throughout the supply chain for your primary product (furthest supplier to end customer) been reduced over the last three years?					
<sup>40-1</sup> <10%	<sup>2</sup> 10-25%	<sup>3</sup> 26-50%	<sup>4</sup> >50%		

64. Which of the following	best describes your o	rganization'	s relationship with	its suppliers?	
	cost and quality focus				
	, broad qualifications				
	, sharing product idea sharing resources, int	-		5)	
				· /	
65. What percentage of sup (e.g., quality, quantity, t	-	-	-	isely to your specifications	
221-1 <80%	<sup>2</sup> 80-89%		<sup>3</sup> 90-99%	4 100%	
66. What is your organizatio	on's best practice for	supply-chai	n management and	d collaboration? (briefly describe)	
	World	I-Class Sust	tainability		
Design and implem			ictions at a level t able customer val	hat provides superior cost ue	
67. Rate the importance of	sustainability to your	organizatio	on's success over th	e next five years:	
<sup>43-1</sup> 1=Not important	<sup>2</sup> 2	<sup>3</sup> 3	4 4	<sup>5</sup> 5=Highly important	
68. Rate your organization's progress toward world-class sustainability:					
<sup>44-1</sup> 1=No progress	<sup>2</sup> 2	³ 3	4 4	<sup>5</sup> 5=World-class	
		Input Meas	ures		
69. What best describes you	ur sustainability strat	egy?			
<sup>119-1</sup> No strategy					
	ith little or no functio		-		
	strategy with some fu			in	
	strategy with full func	tional involv	ement and buy-in		
70. Does your organization and talent-development (check one in each row)				t (e.g., environmental engineers) e next generation?	
Leadership and talent	222-1	Yes	<sup>2</sup> No		
Talent development prog	gram 223-1	Yes	<sup>2</sup> No		
71. What best describes the sustainability?	e quality of your busir	ness system	s and equipment to	o support world-class	
<sup>121-1</sup> None					
<sup>2</sup> Inadequate for cur	-				
	ed to current require				
ت State-of-the-art an	d able to provide long	g-term supp	ort		

72. What best describes y	our measurement syste	em for reviewing return f	rom sustainability e	forts?		
<ul> <li>72. What best describes your measurement system for reviewing return from sustainability efforts?</li> <li>4<sup>7-1</sup> No measurement system per se or reviews</li> <li>2 Ad hoc monitoring of basic measures and ad hoc reviews</li> <li>3 Company-specific metrics monitored regularly by operations staff</li> <li>4 Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li>5 Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li>and transparency and clarity throughout the organization</li> </ul>						
	C	Output Measures				
73. What is your annual re	eduction in energy per u	unit of product output?				
<sup>48-1</sup> <10% 74. What is your annual re	<sup>2</sup> 10-25% eduction in usage of no	26-50% n-recycled material per u		⁴ <u></u> >50% It?		
<sup>49-1</sup> <10%	<sup>2</sup> 10-25%	<sup>3</sup> 26-50%	6	<sup>4</sup> >50%		
75. What percentage of your products (by sales volume) are completely recyclable/reusable?						
<sup>50-1</sup> <50%	<sup>2</sup> 50-75%	<sup>3</sup> 76-89%	<sup>4</sup> 90-99%	⁵∏ 100%		
			_			
76. For what percentage of your SKUs have you calculated a carbon footprint?						
<sup>224-1</sup> <50%	<sup>2</sup> 50-75%	<sup>3</sup> 76-89%	⁴ 90-99%	⁵_ 100%		
77. What is your organization's best practice for sustainability? (briefly describe)						
World-Class Global Engagement						
Secure business advantages by having people, partnerships, and systems in place capable of engaging global markets and talents better than the competition						
78. Rate the importance of global engagement to your organization's success over the next five years:						
<sup>52-1</sup> 1=Not important	2	<sup>3</sup> 3 <sup>4</sup> 4	E	y important		
79. Rate your organization's progress toward becoming a world-class global						
<b>player:</b> <sup>53-1</sup> 1=No progress	<sup>2</sup> 2	<sup>3</sup> 3 <sup>4</sup> 4	<sup>5</sup> 5=World	d-class		
		Input Measures				
<ul> <li>80. What best describes your global strategy?</li> <li><sup>122-1</sup> No strategy         <sup>2</sup> Generic strategy with little or no functional involvement and buy-in         <sup>3</sup> Company-specific strategy with some functional involvement and buy-in</li> </ul>						

Company-specific strategy with some functional involvement and buy-Company-specific strategy with full functional involvement and buy-in

		ip and talent and talent-developme eneration? (check one in each row)	nt program				
Leadership and talent	<sup>225-1</sup> Yes	<sup>2</sup> No					
Talent development program	<sup>226-1</sup> Yes	<sup>2</sup> No					
82. What best describes the qua world-class global engageme		ms and equipment to support					
<ul> <li><sup>124-1</sup> None</li> <li><sup>2</sup> Inadequate for current</li> <li><sup>3</sup> Adequate but limited to</li> <li><sup>4</sup> State-of-the-art and ab</li> </ul>	-	oport					
83. What percentage of your total direct workforce is located overseas and/or located domestically and responsible for global business activities?							
<sup>54-1</sup> 0%	<sup>2</sup> 1-25%	<sup>3</sup> 26-50%	4 >50%				
	-	viewing return from global engagen	nent?				
<ul> <li><sup>55-1</sup> No measurement system per se or reviews</li> <li><sup>2</sup> Ad hoc monitoring of basic measures and ad hoc reviews</li> <li><sup>3</sup> Company-specific metrics monitored regularly by operations staff</li> <li><sup>4</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li><sup>5</sup> Regular monitoring and review of company-specific metrics by CEO and senior staff</li> <li>and transparency and clarity throughout the organization</li> </ul>							
Output Measures							
85. What percentage of sales do	llar volume comes from o	utside the United States?					
227-1 <10%	<sup>2</sup> 10-24%	<sup>3</sup> 25-49%	<sup>4</sup> >50%				
86. By what percentage has doll	ar volume of sales outside	the United States changed over th	e past three years?				
<sup>56-1</sup> <25%	<sup>2</sup> 25-50%	<sup>3</sup> 51-100%	<sup>4</sup> >100%				
87. In how many countries outsi production facilities?	de of the United States do	pes your organization operate or pa	rtner in				
57-1 0	<sup>2</sup> 1-5	<sup>3</sup> 6-10	<sup>4</sup> >10				
88. In how many countries outside of the United States does your organization have sales and/or distribution facilities?							
<sup>58-1</sup> 0	<sup>2</sup> 1-5	<sup>3</sup> 6-10	<sup>4</sup> >10				
89. What is your organization's best practice for attaining global engagement? (briefly describe)							

# **90.** To what extent does your company get support from outside resources for the following activities? *(check one in each row)*

	Never	Rarely	As needed	Ongoing guidance and support
Strategic planning	125-1	2	3	4
Innovation/R&D	126-1	2	3	4
Workforce skills development	127-1	2	3	4
Operations improvement (e.g., lean)	128-1	2	3	4
Supply-chain development	129-1	2	3	4
Sustainability initiatives	130-1	2	3	4
Global sales and/or procurement	131-1	2	3	4
Business development	132-1	2	3	4
Regulatory/compliance issues	133-1	2	3	4
Government credits/grants	134-1	2	3	4

# **91.** If you have used outside resources, which of the following have positively impacted your company? *(check all that apply)*

- <sup>135</sup>O Industry association
- <sup>136</sup>O National manufacturing association
- <sup>137</sup>O State manufacturing associations (including MEPs)
- <sup>138</sup>O Local/municipal manufacturing associations
- <sup>139</sup>O Universities/colleges
- <sup>140</sup>O Consulting firms
- <sup>141</sup>O Other
- $^{142}\text{O}$  No positive impact

#### 92. How is senior leadership involved outside of your company? (check all that apply)

- <sup>143</sup>O For-profit board of directors position
- <sup>144</sup>O Leadership or board position with civic or charitable organization
- $^{\rm 145}O$  Leadership or board position with industry association
- $^{\rm 146}O$  Leadership or board position with national manufacturing association
- <sup>147</sup>O Leadership or board position with state manufacturing association or MEP
- <sup>148</sup>O Leadership or board position with local manufacturing association
- <sup>149</sup>O Leadership, board or teaching position with university/college
- <sup>150</sup>O No outside involvement

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