

Critical Spares Criteria

	Criteria	Definition
General Data	Price	Purchase price of item
	Lead time	The number of days between ordering a part and receiving it
	Delivery cost	Expedited delivery fees
Part failure criticality data	Confidence in detecting failure before disruption	The % confidence level that the failure will be detected in the time given in the "Time to Production Disruption" column
	Time to Production Disruption	Estimated number of days between when a failure is detected and/or the need for a spare is identified and when production will stop. If a site is using predictive technologies or has designed-in redundancy, the warning window will be larger.
	Criticality score	The asset's criticality score. This will be combined with how easy the part is to procure and attain, how early a failure can be detected and its cost to arrive at an MRO criticality score. Score from 0-100.
	MRO criticality	Spare criticality ranking that considers the asset's criticality score, part availability, failure detection confidence and cost factors. Score from 0-100.
Usage, risk, carrying costs	Carrying cost	The total cost of carrying inventory. This can include storage, distribution, security, insurance, taxes, damage, spoilage, obsolescence and/or the cost of money. Calculated by multiplying a % by the total value of your inventory
	Estimated annual usage	The approximate number of times the part will be expected to fail within one year. This can be forecast and/or based on historical data
	# of parts in use	Number of components used throughout the facility