



OEM-APPROVED GSE & TOOLING FOR **GE90 ENGINES** USED ON BOEING 777 AIRCRAFT

*A global leader in the original design, development,
and manufacture of engine handling solutions!*

CLICK BELOW TO JUMP TO:

- Shipping Stands
- Fan Stator Shipping Stands
- Split Shipping
- Covers & Protectors
- Site Transport
- Lifting Slings
- Select Tooling
- Self-Erecting Gantries

Approved by



Licensed for the following
GE90 variants:

MODEL	TYPE	PART NUMBER
GE90-94B	Propulsor	1650M20
GE90-94B	Full Engine	1650M10
GE90-115B	Propulsor	2115M20
GE90-115B	Full Engine	2115M10



Uplift Shipping Stand

Engine OEM P/N: 9C6025
AGSE P/N: AGSE-E102

CLICK ON ANY IMAGE OR PART NUMBER FOR MORE PRODUCT INFORMATION!



OEM-APPROVED FOR GE90 ENGINES SHIPPING STAND FEATURES

**CUSTOM DESIGNED | HIGHLY DURABLE | SAFE & ERGONOMIC
LOW PROFILE & VERSATILE | MANUFACTURED IN-HOUSE
LOWEST TOTAL COST OF OWNERSHIP | SHORTEST LEAD TIMES**

Our reliable & rugged Shipping Stands have been trusted for decades by airlines, aircraft hangars, and engine shops!

All Stands Provide:

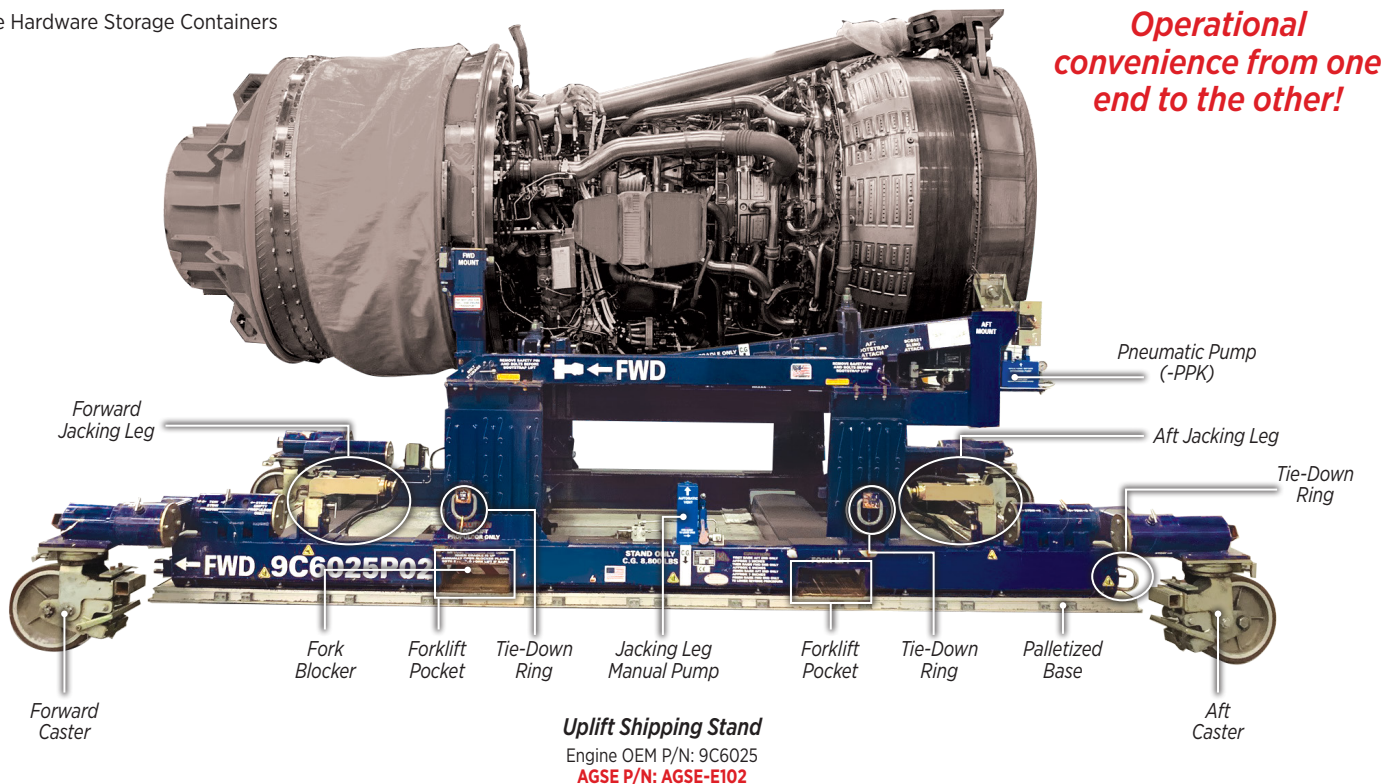
- Transport or Storage for full engines or propulsors*
- Bootstrap Capability to simplify on-wing engine removal & installation
- Integrated Shock-Absorbing Mounts to reduce vibrations for engine protection during transport
- Tie-Down Rings for secure retainment during transport
- Forklift Pockets for convenient site transport

Select Models Feature:

- Uplift or Vertical Adjustment to increase sway space or facilitate fan separation/mating procedures
- Jacking Legs for raising the base off the ground without the need for a forklift or overhead lifting device
- Palletized Bases compatible with aircraft cargo loading systems
- Loose Hardware Storage Containers

Optional Accessories Include:

- An Air-Operated Pneumatic Pump (-PPK) to raise the cradle for increased sway space without physical exertion
- A Tow Bar & Caster Set for smooth tractor transport through a facility



*AGSE Shipping Stands are designed and built in compliance with the specifications and requirements of the engine's equipment manufacturer (OEM). The customer is solely responsible for selecting the appropriate packaging based on all information, including the specific application, regulatory compliances, product compatibility, shipping requirements, and documentation issued by the Engine OEM. Any AGSE-referenced shipping information presented in this product literature or other AGSE documentation is for general guidance only. It should be considered a partial set of shipping requirements that can alter, satisfy, or influence regulatory and engine OEM shipping requirements. The content found in AGSE marketing materials and other documentation is subject to change; AGSE accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these AGSE publications. For additional shipping information, please refer to the GE90-94B (GEEK #105039) & GE90-115B (GEEK #109996) Transportation Manuals.

GE Aerospace approves, qualifies, and recommends AGSE GSE & Tooling for safely handling GE90 engines.

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OEM-APPROVED FOR GE90 ENGINES SHIPPING STANDS

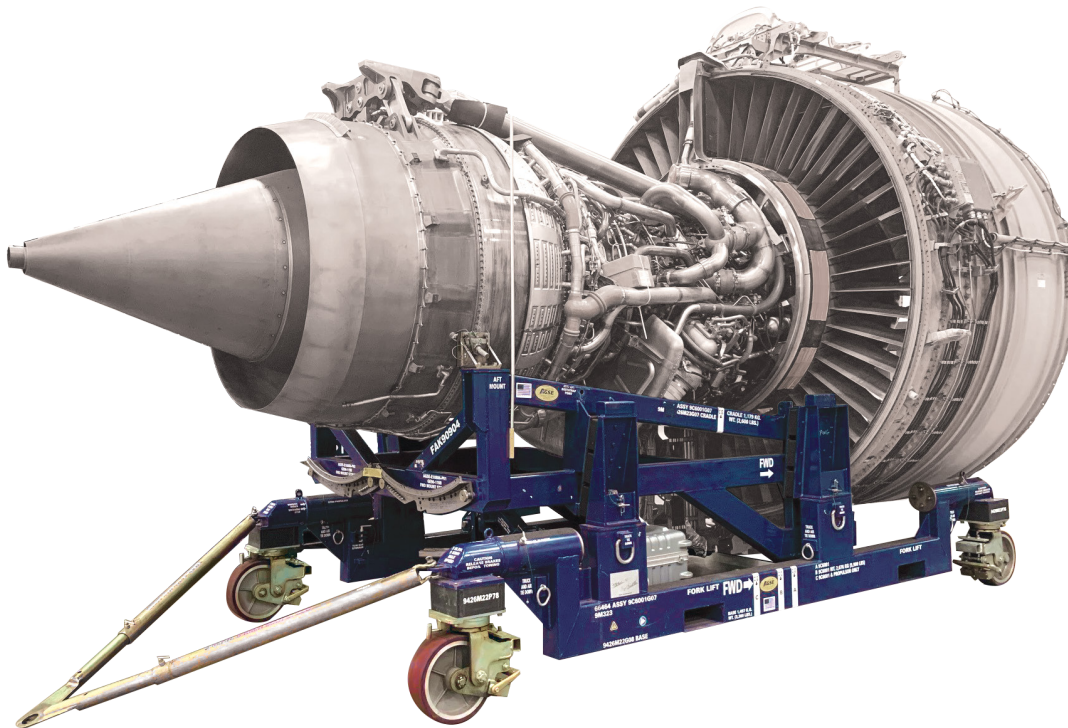
● = Available Feature

SHIPPING STANDS BY PART NUMBER*

PART NUMBER: Engine OEM AGSE	PROPULSORS ACCOMMODATED	CAPABLE OF SHIPMENT ON MAIN DECK(S) OF FREIGHTER AIRCRAFT*	ALSO ACCOMMODATES FULL ENGINES WITHOUT INLET COWLS	UPLIFT	JACKING LEGS	PALLETIZED BASE	LOOSE HARDWARE STORAGE CONTAINER	FORK BLOCKERS	CASTER SPACERS	STACKABLE WHEN EMPTY	OPTIONAL ACCESSORIES		OTHER ENGINES ACCOMMODATED
											PNEUMATIC PUMP (-PPK)	TOW BAR & CASTERS	
9C6025 AGSE-E102	GE90-115B	Boeing 747, 767 & 777 Douglas DC-10 & MD-11	●	●	●	●	●	●			●		
	GE90-94B		● [†]										
9C6001 (Shipping Stand) 9426M23 (Cradle) 9426M22 (Base)	GE90-115B	Antonov or Similar Specialized Freightier Aircraft	●				●		●				
	GE90-94B		●										
9C6019 AM-2733	GE90-115B	Boeing 747, 767 & 777 Douglas DC-10 & MD-11				●						●	
	GE90-94B												
8C2644 AGSE-E288	GE90-115B	Boeing 747 & 777					●			●			GE9X
	GE90-94B												

A Shipping Stand comprises a Cradle & Base.

†For Onsite Towing Only



Shipping Stand
Engine OEM P/N: 9C6001

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OEM-APPROVED FOR GE90 ENGINES FAN STATOR SHIPPING STANDS

Dependable, efficient, and versatile handling solutions for fan stators!

All Stands Provide:

- Transport or Storage for fan stator modules*
- Manual Pumps for:
 - Vertical adjustment to expedite fan mating & separation procedures
 - 90-degree rotation to air or truck shipping positions
- Palletized Bases compatible with aircraft cargo loading systems
- Rollers to allow multiple shipping positions for improved loading on or removal from aircraft
- Shipping Braces for reinforcement of the Center Support Frame to the Main Base Frame during transport
- Folding Side Guide Bars to center the stand in the Boeing 747 main deck cargo doors
- Tie-Down Rings for secure retainment during truck transport
- Forklift Pockets for convenient site transport
- Hoist Rings to interface with overhead lifting devices for 90° rotation
- Loose Hardware Storage Containers

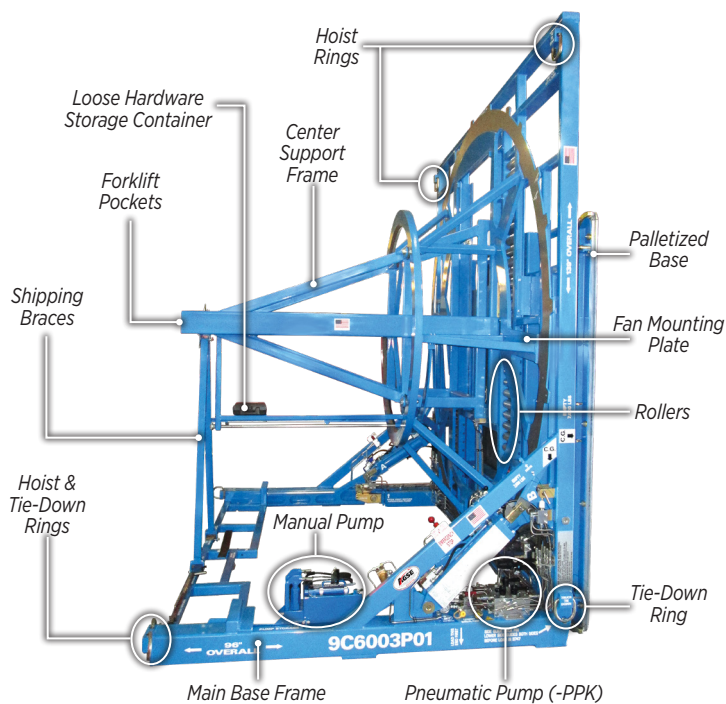
Select Models Feature:

- An Air-Operated Pneumatic Pump (-PPK) prevents physical exertion during:
 - Vertical adjustment to expedite fan mating & separation procedures
 - 90-degree rotation to air or truck shipping positions

FAN STATOR SHIPPING STANDS BY PART NUMBER*

PART NUMBER: Engine OEM AGSE	PROPULSORS ACCOMMODATED	CAPABLE OF SHIPMENT ON MAIN DECK(S) OF FREIGHTER AIRCRAFT*	AIR-OPERATED PNEUMATIC PUMP (-PPK)	USED IN CONJUNCTION WITH OTHER EQUIPMENT:				
				SHIPPING STANDS	SHIPPING CONTAINERS	ENGINE DOLLY	FAN CASE DOLLY	PROTECTIVE COVERS
9C6003 AGSE-C106	GE90-115B	Boeing 747 & 777	●	9C6001, 9C6025	9C6028, 9C6031	9C6032	9C6030, AGSE-E167	9C1290
	GE90-94B	Douglas DC-10 & MD-11			9C6009			
9C6023 AGSE-C105	GE90-115B	Boeing 747 & 777		9C6001, 9C6025	9C6028, 9C6031	9C6032	9C6030	9C1290
	GE90-94B	Douglas DC-10 & MD-11			9C6009			

Operational convenience from top to bottom!



Truck Shipping Position



In Mid-Rotation on Pivot Legs



Air or Wide Load Truck Shipping Position

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OEM-APPROVED FOR GE90 ENGINES SPLIT SHIPPING

● = Available Feature

SHIPPING CONTAINERS

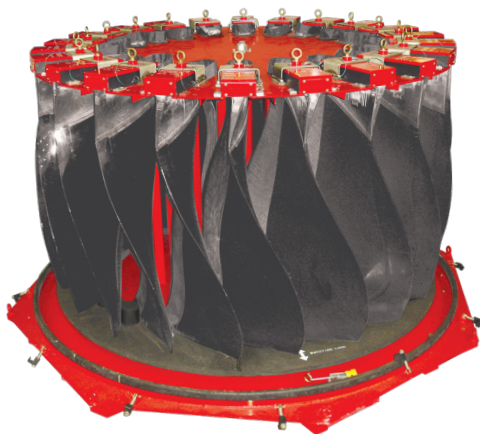
Fully enclosed to shield major modules against contamination & damage!

PART NUMBER:	Engine OEM AGSE	ACCOMMODATES:		USED IN CONJUNCTION WITH OTHER EQUIPMENT:					FORKLIFT POCKETS	SHOCK-ABSORBING MOUNTS	LPT STRONGBACK	CASTERS & TOW BAR	TIE-DOWN RINGS	SLIDE OUT PLATFORM	REMOVABLE COVER INCLUDES:		
		ENGINE(S)	SPLIT ENGINE COMPONENTS	ENGINE	FAN STATOR	SHIPPING CONTAINERS	SITE TRANSPORT MODULE SHOP STAND	FAN CASE DOLLY							HOIST RINGS	DOCUMENT HOLDER	VIEW PORT
9C6005 AM-2586		GE90-115B	Low Pressure Turbine Module						●	●					●	●	
		GE90-94B															
AGSE-C078		GE90-115B	Low Pressure Turbine Mid-Shaft						●	●	●	●	●		●	●	●
		GE90-94B															
9C6006		GE90-115B	High Pressure Turbine Module						●	●					●	●	●
		GE90-94B															
9C6007 AM-2584		GE90-115B	Compressor Module						●	●					●	●	
		GE90-94B															
9C6028 AGSE-C061		GE90-115B	Fan Blades	9C6001, 9C6019, 9C6025	9C6003, 9C6023	9C6031	9C3031	9C6030	●						●		
9C6031 AGSE-C065		GE90-115B	Fan Rotor & Booster Hardware	9C6001, 9C6019, 9C6025	9C6003, 9C6023	9C6024, 9C6028			●					●	●	●	●
9C6009		GE90-94B	Fan Blades, Rotor & Booster Hardware	9C6001, 9C6019, 9C6025	9C6003, 9C6023			9C6030	●					●	●	●	●
9C6029		GE90-115B	Two (2) Fan Blades						●								
		GE90-94B															
9C6024		GE90-115B	Forward Flight Mount	9C6001		9C6031											
		GE90-94B															

MODULE SHIPPING STANDS*

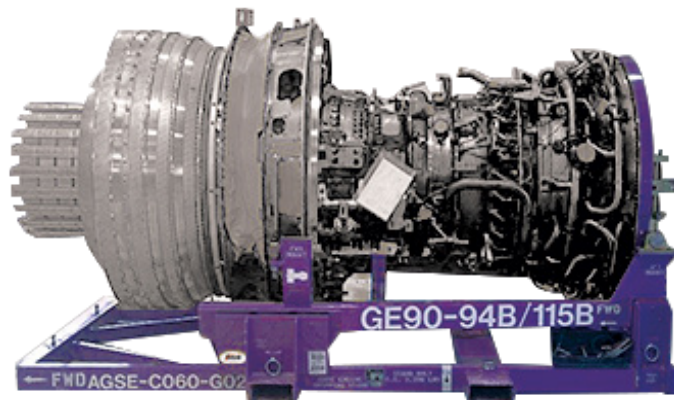
Economical solutions to circumvent transporting full engines!

PART NUMBER: AGSE	ACCOMMODATES:		FORKLIFT POCKETS	SHOCK-ABSORBING MOUNTS	TIE-DOWN RINGS	REMOVABLE AFT MOUNT SUPPORT RING	DOCUMENT HOLDER
	ENGINE(S)	SPLIT ENGINE COMPONENTS					
AGSE-C060	GE90-115B	Core Module	●	●	●	●	●
	GE90-94B						



Fan Blades Shipping Container

Engine OEM P/N: 9C6028
AGSE P/N: AGSE-C061



Core Module Shipping Stand

AGSE P/N: AGSE-C060

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OEM-APPROVED FOR GE90 ENGINES COVERS & PROTECTORS, SITE TRANSPORT

● = Available Feature

COVERS & PROTECTORS

Lasting defense against dirt, water, contamination, and damage!

PART NUMBER: Engine OEM	ENGINE(S) ACCOMMODATED	COMPATIBLE WITH OTHER EQUIPMENT:			SAFEGUARDS:					
		SHIPPING STANDS ENGINE	FAN STATOR	PROTECTIVE COVER(S)	FULL ENGINE	PROPULSOR	FAN CASE	FAN BOOSTER	FORWARD ACOUSTIC LINERS	VBV DUCTS
9C1103	GE90-115B	9C6001, 9C6025			●					
	GE90-94B									
9C1104	GE90-115B	9C6001, 9C6019, 9C6025		9C1376		●				
	GE90-94B			9C1109						
9C1290	GE90-115B		9C6003, 9C6023				●			
	GE90-94B									
9C1376	GE90-115B			9C1104				●		
9C1109	GE90-94B			9C1104				●		
9C3013	GE90-115B								●	
9C1362	GE90-94B								●	
9C1246	GE90-115B									●
	GE90-94B									

ENGINE & FAN CASE DOLLIES

Exceptional transport within a facility or between local sites!

PART NUMBER: Engine OEM AGSE	ACCOMMODATES:				COMPATIBLE WITH OTHER EQUIPMENT:			SAFEGUARDS:					
	ENGINE MODELS	FULL ENGINE	ENGINE WITHOUT INLET COWL	FAN CASE	CRADLES ONLY	SHIPPING STANDS ENGINE	FAN STATOR	PNEUMATIC TIRES	JACKING LEGS	TOW BAR	MANUAL MOVEMENT ONLY	DISASSEMBLES/FOLDS WHEN EMPTY	SHIPPING CONTAINER
9C6032 AGSE-E111	GE90-115B	●	●		9426M23, 9C6025		9C6003, 9C6023	●		●		●	
	GE90-94B												
9C6030 AGSE-E100	GE90-115B			●		9C6001, 9C6025	9C6003, 9C6023		●		●	●	●
	GE90-94B												
AGSE-E167	GE90-115B			●		9C6001, 9C6025	9C6003	●	●	●		●	
	GE90-94B												

COWL DOLLIES

Firmly secures cowl during transport within a facility or between local sites!

PART NUMBER: AGSE	ACCOMMODATES:				RETAINED BY:		JACKING LEGS	MANUAL MOVEMENT ONLY	TOW BAR	FOLDS WHEN EMPTY
	AIRCRAFT	INLET COWL	FAN COWL	THRUST REVERSER	TURNBUCKLES	STRAP(S)				
AM-2764	Boeing 777	●			●	●	●	●		●
AGSE-E053	Boeing 777		●	●		●			●	

GE Aerospace and The Boeing Company approve, qualify, and recommend AGSE GSE & Tooling for safely handling GE90 engines and cowlings, respectively.

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OEM-APPROVED FOR GE90 ENGINES

LIFTING SLINGS & SELECT TOOLING

● = Available Feature

LIFTING SLINGS

Stable & versatile overhead support for horizontal build-up or Shipping Stand transfer!

PART NUMBER: Engine OEM AGSE	ENGINE(S) ACCOMMODATED	COMPATIBLE WITH OTHER EQUIPMENT:			MAXIMUM LOAD CAPACITY	CENTER OF GRAVITY ADJUSTMENT FEATURE	LIFTS:					OTHER ENGINES ACCOMMODATED
		SHIPPING STANDS	LIFTING ACCESSORIES	LIFTING SLINGS			PROPULSOR OR FULL ENGINE IN SHIPPING STAND	PROPULSOR OR FULL ENGINE ONLY	SHIPPING STAND ONLY	FORWARD PROPULSOR	AFT ENGINE	
AM-2872	GE90-115B	9C6001, 9C6025			28,000 lbs 12,701 kg	Hand Wheel	●	●				PW4000
	GE90-94B											
9C6021	GE90-115B	9C6001			30,000 lbs 13,608 kg	Two (2) Turnbuckles	●		●			
	GE90-94B											
9C6020	GE90-115B		9C6018, 9C6022		20,000 lbs 9,072 kg	Pivot & Stabilizing Plate		●				
	GE90-94B											
9C3072	GE90-115B		9C1074, 9C1124, 9C3033	9C1189	12,000 lbs 5,443 kg					●		
9C1190	GE90-94B			9C1189	9,000 lbs 4,082 kg					●		
9C1189	GE90-115B		9C1378	9C3072	8,000 lbs 3,629 kg						●	
	GE90-94B			9C1190								

LIFTING ACCESSORIES

Readily interfaces with engine components for optimal overhead handling!

PART NUMBER: Engine OEM	ENGINE(S) ACCOMMODATED	COMPATIBLE WITH OTHER EQUIPMENT:		MAXIMUM LOAD CAPACITY	ACCESSORY TYPE			CONNECTS TO:						
		LIFTING SLINGS	LIFTING ACCESSORIES		ADAPTER	BRACKET SET	FIXTURE	FORWARD ENGINE	AFT ENGINE	AFT PROPULSOR	FAN HUB FRAME	HPT ROTOR	AFT MOUNT PLATFORM	
9C6018	GE90-115B	9C6020		13,500 lbs 6,123 kg	●			●						
	GE90-94B													
9C6022	GE90-115B	9C6020		8,000 lbs 3,629 kg	●				●					
	GE90-94B													
9C1124	GE90-115B	9C3072	9C3033	15,000 lbs 6,804 kg	●					●				
9C3033	GE90-115B	9C3072	9C1124	12,000 lbs 5,443 kg		●					●			
9C1074	GE90-115B	9C3072		3,000 lbs ^{††} 1,361 kg ^{††}			●					●		
	GE90-94B													
9C1378	GE90-115B	9C1189		4,200 lbs 1,905 kg		●			●					
	GE90-94B													
9C1379	GE90-115B			13,500 lbs 6,123 kg			●	●						
	GE90-94B													
9C1193	GE90-115B			400 lbs 181 kg			●							●
	GE90-94B													

††For Lifting

SELECT TOOLING

Improve safety & productivity!

PART NUMBER: Engine OEM	ENGINES ACCOMMODATED	DESCRIPTION	INCLUDES:	SPECIFIC FUNCTION
2886	GE90-115B	Starter Service Kit	<ul style="list-style-type: none"> • 5-Liter Drain Bottle • Drain & Fill Hoses • Re-Oiling Pump • Shipping/Storage Container 	Facilitates clean oil filling & drainage during engine starter removal & installation
	GE90-94B			
9C1165	GE90-115B	Aft Engine Mount Position Fixture	<ul style="list-style-type: none"> • Rectangular Support Plate • Two (2) Saddle Brackets 	Correctly orients the aft platform mount to fit with the thrust link during on-wing engine installation
	GE90-94B			
9C1277	GE90-115B	Fan Hub Module Guide Pin Set	<ul style="list-style-type: none"> • Eight (8) Pins • Shipping/Storage Container 	Aligns Fan Outlet Guide Vane holes with corresponding Fan Hub holes
	GE90-94B			
9C6014	GE90-115B	Fan Inlet Personnel Stand	Three (3) Platforms	Provides ergonomic access to upper bolts & acoustic panels during fan separation & mating procedures
	GE90-94B			

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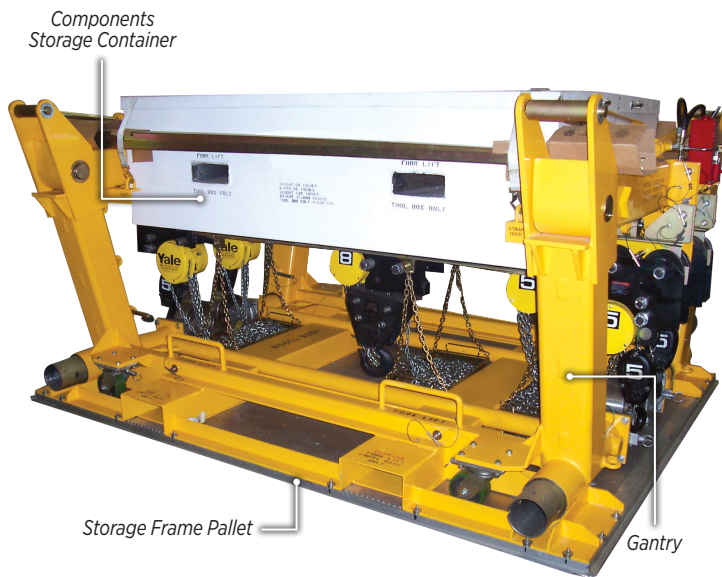
OEM-APPROVED FOR GE90 ENGINES SELF ERECTING GANTRIES

A dynamic solution for unscheduled maintenance or split engine operations!

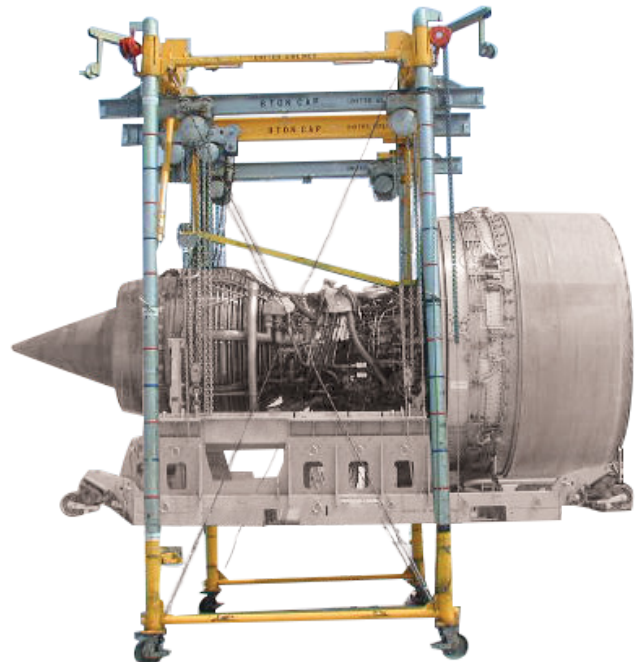
- Performs emergency module replacement locally without the need to ship full engines to MRO shops
- Guided ground movement allows for efficient engine loading & unloading
- Adjustable Overhead Rails correctly balance loads
- Heavy-Duty Hoists for reliable lifting & support
- Few components & moving parts for ease of assembly and disassembly
- Forklift Pockets for convenient separation or mating with gantry shipping & storage components
 - Optional Self-Deployment Kit (**AGSE-Y005**) eliminates the need for a forklift
- Palletized Storage Frame compatible with aircraft cargo loading systems

SELF-ERECTING GANTRIES BY PART NUMBER

PART NUMBER: AGSE	ENGINES ACCOMMODATED	COMPATIBLE WITH SHIPPING STANDS	INCLUDES:	ADJUSTABLE RAIL SPACINGS	HOIST RAILS	ENGINE LOADING/UNLOADING MOBILITY	SITE TRANSPORT ACCOMMODATION	OTHER ENGINES ACCOMMODATED
AGSE-Y002	GE90-115B	9C6001, 9C6019, 9C6025	<ul style="list-style-type: none"> • Gantry • Component Storage Container • Storage Frame Pallet 	<ul style="list-style-type: none"> • 144" 366 cm • 120" 305 cm • 96" 244 cm • 58" 147 cm • 48" 122 cm 	<ul style="list-style-type: none"> • 2 x 4-Ton (Outer Left) • 2 x 4-Ton (Outer Right) 	"Primary" Casters on Track Assembly	"Secondary" Casters	PW4000, Trent
	GE90-94B							



Shipping Configuration



Handling a Shipping Stand with Engine Installed

AGSE P/N: AGSE-Y002

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