



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

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

**Airlines, aircraft hangars, and engine shops have trusted
our reliable & rugged Shipping Stands for decades!**

All Stands:

- Safely Transport & Store propulsors or full engines*
- Support On-Wing Engine Removal & Installation through bootstrapping or alternate methods
- Integrate Shock-Absorbing Mounts to reduce vibrations for engine protection during transport
 - Include Tie-Down Rings for secure retainment during long-distance transport
- Contain Forklift Pockets for convenient site transport

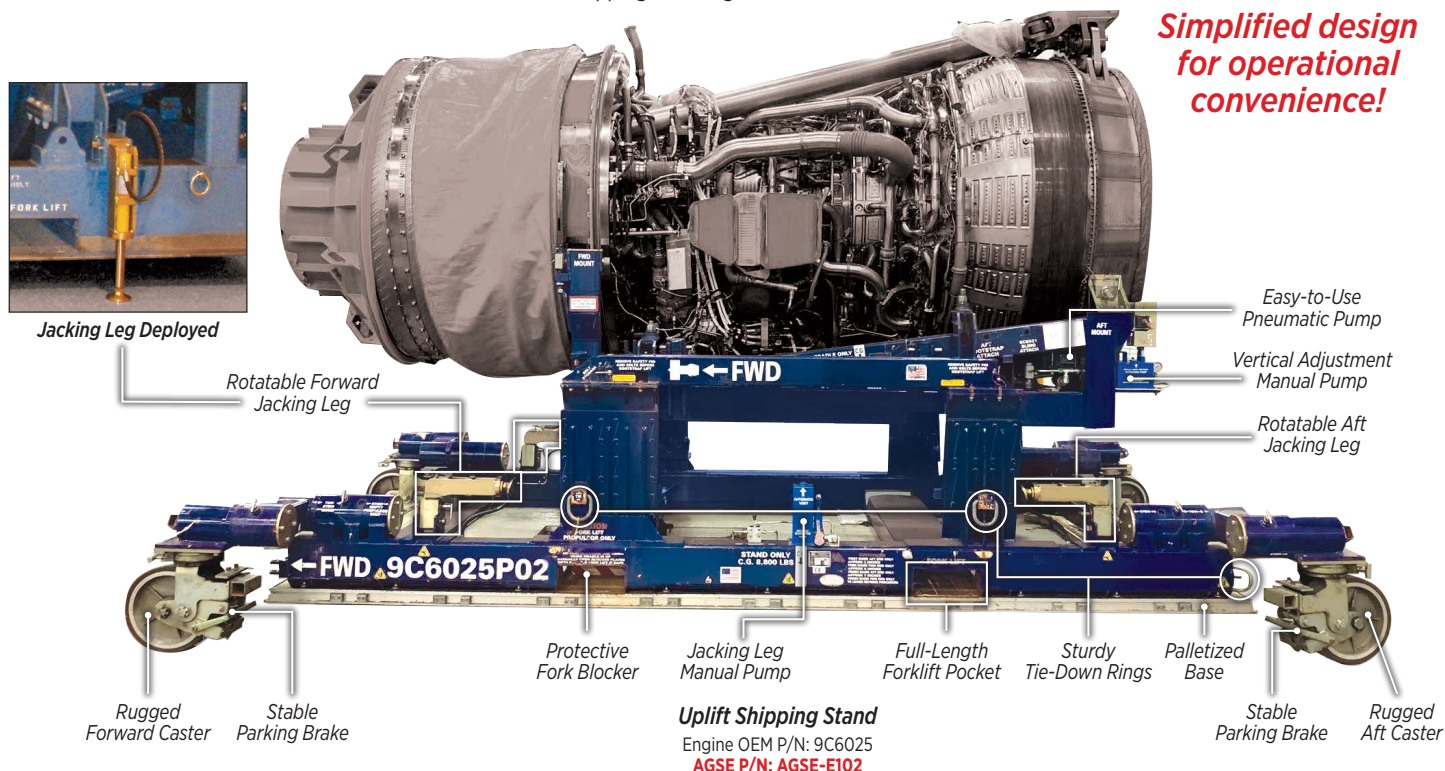
Features on Select Models:

- Uplift or Vertical Adjustment to increase sway space or facilitate fan mating & separation procedures
- Fork Blockers to prevent forklift contact with a propulsor or full engine installed
- Jacking Legs to raise the base off the ground without the need for a forklift or overhead lifting device to support:
 - Fan Case installation & removal
 - Caster deployment & stowage

- Palletized Bases compatible with aircraft cargo loading systems
- Loose Hardware Storage Containers
- Caster Spacers for improved ground clearance with the engine & inlet cowl installed
- Stackable When Empty to minimize shipping or storage volume

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 (GEK #105039) & GE90-115B (GEK #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

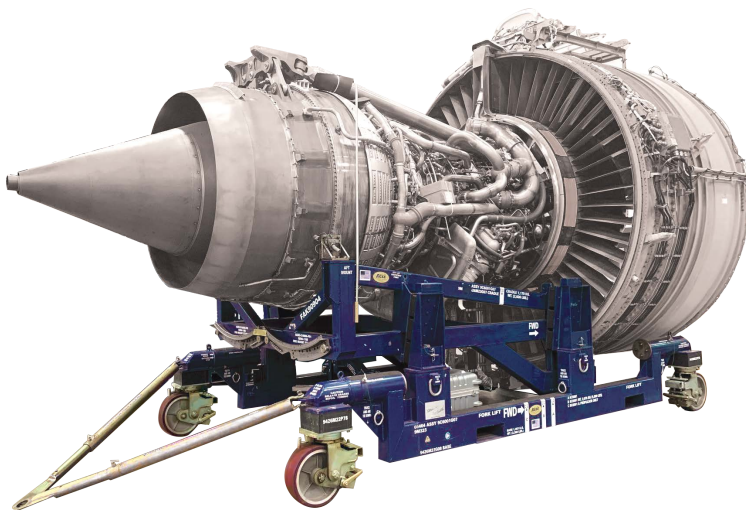
● = Available Feature

SHIPPING STANDS BY PART NUMBER*

PART NUMBER: <div>Engine OEM</div> <div>AGSE</div>	ENGINE(S)	TRANSPORTABILITY						UPLIFT	PALLETIZED BASE	LOOSE HARDWARE STORAGE CONTAINER	CASTER SPACERS	STACKABLE WHEN EMPTY	OPTIONAL ACCESSORIES		OTHER ENGINES ACCOMMODATED	LEASE OPTION
		AIR		TRUCK		SITE							PNEUMATIC PUMP (-PPK)	TOW BAR & CASTERS		
		PROPULSOR	FULL ENGINE	PROPULSOR	FULL ENGINE	PROPULSOR	FULL ENGINE									
9C6025 AGSE-E102	GE90-115B	Boeing 747, 767, 777 Douglas DC-10 & MD-11	Specialized Freighter Only†	●	●†	●	●	●	●	●	●	●	●			★
	GE90-94B			●												
9C6001 (Shipping Stand) 9426M23 (Cradle) 9426M22 (Base)	GE90-115B	Specialized Freighter Only	●	●	●	●			●	●						
	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.
†Without the Inlet Cowl

★ Available through our Leasing Cooperation with Click to learn more.



Shipping Stand
Engine OEM P/N: 9C6001



Uplift Shipping Stand Interfacing with Bootstrap System
Engine OEM P/N: 9C6025
AGSE P/N: AGSE-E102

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OEM-APPROVED FOR GE90 ENGINES FAN STATOR SHIPPING STANDS

Safe and efficient handling solutions for fan stators!*

All Stands Include:

- Manual Pumps for:
 - Vertical adjustment to expedite fan installation & removal
 - 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 Center Support Frame reinforcement to the Main Base Frame
- 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

Features on Select Models:

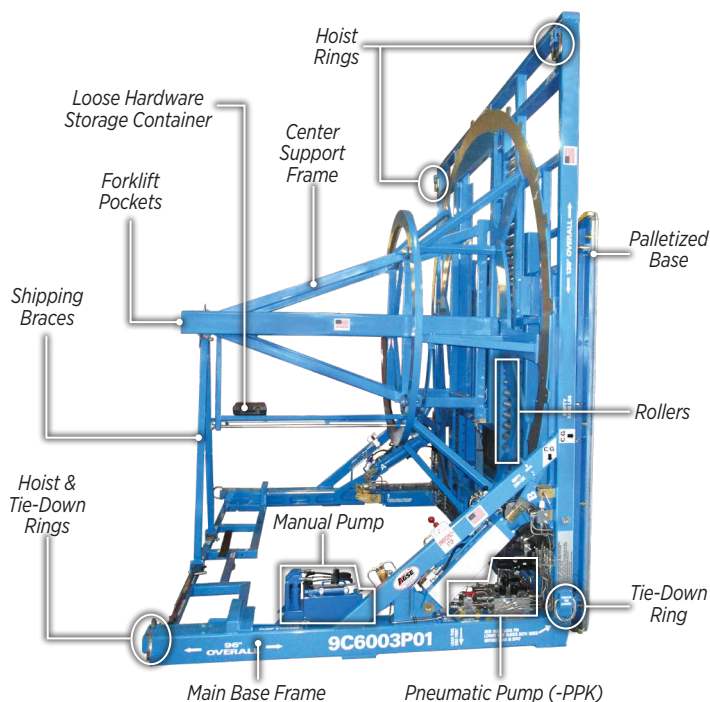
- An Air-Operated Pneumatic Pump (-PPK) prevents physical exertion during:
 - Vertical adjustment to expedite fan installation & removal
 - 90-degree rotation to air or truck shipping positions

● = Available Feature

FAN STATOR SHIPPING STANDS BY PART NUMBER*

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

Versatility 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

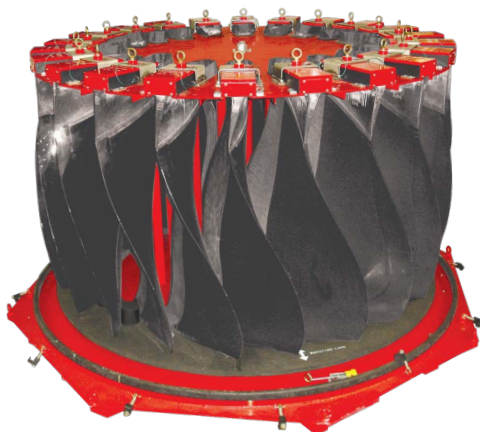
Economical solutions to safeguard critical modules during storage or transport!

● = Available Feature

SPLIT SHIPPING BY PART NUMBER

PART NUMBER: Engine OEM AGSE	ENGINE(S)	ACCOMMODATES:											EQUIPMENT TYPE		USED WITH OTHER SHIPPING CONTAINERS
		SPLIT ENGINE COMPONENTS											SHIPPING STAND*	SHIPPING CONTAINER WITH REMOVABLE COVER	
		CORE	COMPRESSOR	COWL EXTENSION HARDWARE	EXHAUST HARDWARE	BLADES	BOOSTER HARDWARE	ROTOR HARDWARE	FWD FLIGHT MOUNT	LPT	LPT MID-SHAFT	HPT			
AGSE-C060	GE90-115B	●											●		
	GE90-94B														
AGSE-C078	GE90-115B										●			●	
	GE90-94B														
9C6005 AM-2586	GE90-115B									●				●	
	GE90-94B														
9C6006	GE90-115B											●		●	
	GE90-94B														
9C6007 AM-2584	GE90-115B		●											●	
	GE90-94B														
9C6009	GE90-94B			●	●	●	●	●						●	
9C6024	GE90-115B								●					●	9C6031
	GE90-94B														
9C6028 AGSE-C061	GE90-115B					●								●	9C6031
9C6029	GE90-115B					● ^{††}								●	
	GE90-94B														
9C6031 AGSE-C065	GE90-115B			●	●		●	●						●	9C6024, 9C6028

^{††}Accommodates Two (2) Fan Blades



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

ENGINE & FAN CASE DOLLIES

Exceptional transport within a facility or between local sites!

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

COWL DOLLIES

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

PART NUMBER: AGSE	AIRCRAFT	ACCOMMODATES:			RETAINED BY:		JACKING LEGS	MANUAL MOVEMENT ONLY	TOW BAR	FOLDS WHEN EMPTY	OTHER AIRCRAFT ACCOMMODATED
		FAN COWL	INLET COWL	THRUST REVERSER	STRAP(S)	TURNBUCKLES					
AGSE-E053	Boeing 777	●		●	●				●		
AM-2764	Boeing 777		●		●	●	●	●		●	Boeing 747 & 787

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	USED WITH OTHER EQUIPMENT:			MAXIMUM LOAD CAPACITY	CENTER OF GRAVITY ADJUSTMENT FEATURE	LIFTS:							OTHER ENGINES ACCOMMODATED
		LIFTING ACCESSORIES	LIFTING SLINGS	SHIPPING STANDS			IN SHIPPING STAND FULL ENGINE	PROPULSOR	FULL ENGINE ONLY	PROPULSOR 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													
9C1189	GE90-115B	9C1378	9C3072		8,000 lbs 3,629 kg								●	
	GE90-94B		9C1190											
9C1190	GE90-94B		9C1189		9,000 lbs 4,082 kg							●		
9C3072	GE90-115B	9C1074, 9C1124, 9C3033	9C1189		12,000 lbs 5,443 kg							●		
9C6020	GE90-115B	9C6018, 9C6022			20,000 lbs 9,072 kg	Pivot & Stabilizing Plate			●	●				
	GE90-94B													
9C6021	GE90-115B			9C6001	30,000 lbs 13,608 kg	Two (2) Turnbuckles	●	●			●			
	GE90-94B													

LIFTING ACCESSORIES

Readily interfaces with engine components for optimal overhead handling!

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

¹For Lifting

SELECT TOOLING

Improve safety & productivity!

PART NUMBER: Engine OEM	ENGINES ACCOMMODATED	DESCRIPTION	SPECIFIC FUNCTION
2886	GE90-115B	Starter Service Kit	Facilitates clean oil filling & drainage during engine starter removal & installation
	GE90-94B		
9C1165	GE90-115B	Aft Engine Mount Position Fixture	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	Aligns the fan OGV holes with the corresponding fan hub holes
	GE90-94B		
9C6014	GE90-115B	Fan Inlet Personnel Stand	Provides ergonomic access to upper bolts & acoustic panels during fan separation & mating procedures
	GE90-94B		

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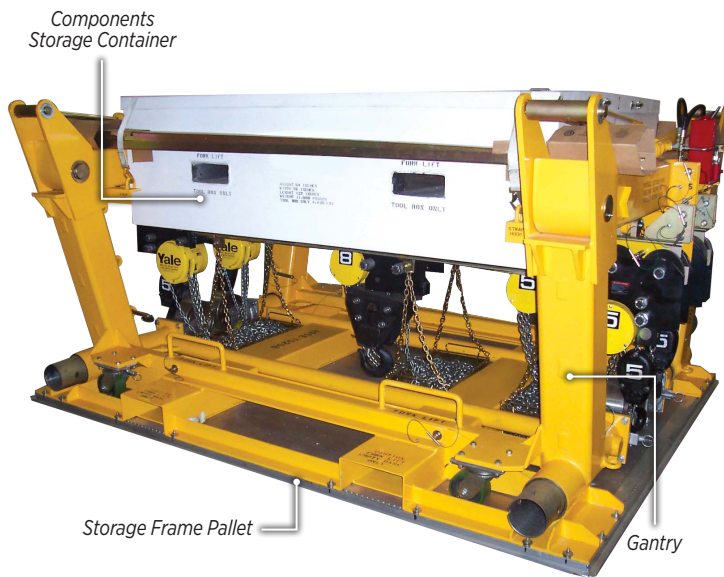
OEM-APPROVED FOR GE90 ENGINES SELF ERECTING GANTRIES

A dynamic solution for unscheduled maintenance or split engine operations!

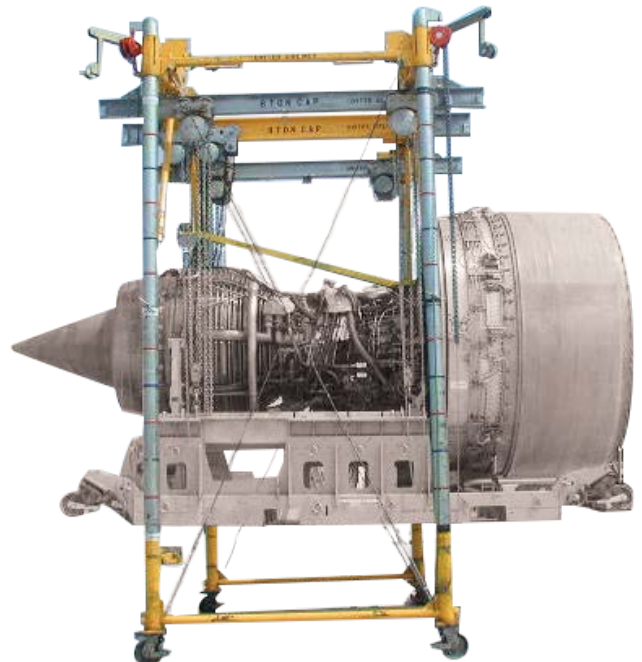
- Performs emergency module replacement locally without the need to ship full engines to MRO shops
- Guided ground movement allows for efficient engine loading & unloading
- Adjustable Overhead Rails correctly balance loads
- Heavy-Duty Hoists for reliable lifting & support
- Few components & moving 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	USED WITH SHIPPING STANDS	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"> • 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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