



Excel

EXCEL AVIATION



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Why Choose Excel Aviation

Customer Centric Design

Aviation products designed in collaboration with heavy mechanical line operation and ground support equipment customers.

Value Add Engineering:

Innovative Design and Engineering teams can provide a tailored solution to meet individual client requirements.

In-house Aviation Expertise:

Aviation experts can collaborate with end-users and can suggest alternatives that often result in a more effective design, reducing both costs and lead-times.

Commitment to Quality:

Impeccable track record of providing high-quality, safe, and reliable products with industrial components that extend service intervals and ensure long service life.

Extensive Manufacturing Facilities:

Regional ISO 9001:2008 production facilities, employing state of the art CNC machinery, Steel and Aluminum welding robotics, precise production processes, and meticulous standards & controls to manufacture high quality products with short lead times.

Erection Expertise

Seasoned installation team that have assembled, erected, and commissioned our bespoke the docking system at airside aircraft engineering facilities across the G.C.C.

Long Term Horizon

A focal point of our philosophy is to forge strategic partnerships with our customers and collaborate in lock step with their long term growth roadmaps and expansion plans.



Excel Aviation's nose, fuselage, tail, wing, and engine docking systems provide safe and efficient access to perform routine maintenance and repair job cards for multiple aircraft types with weight on wheels or weight on jacks.

Over the past 15 years, Excel Aviation has designed, engineered, and commissioned docking systems in extensive consultation and collaboration with heavy base maintenance and line operations end users. Blending leading aircraft maintenance standards, best practice, and universally accepted regulatory guidelines, Excel Aviation's docking systems provide unsurpassed access to wide and narrow body aircrafts for both maintenance and paint crews.

The two principle design elements fundamental to the Excel Aviation docking system philosophy are integration and flexibility. The Excel docking system provide seamless access between the nose, fuselage, tail, and wing systems allowing optimal movement of crews, tooling, and aircraft parts between stations. At the same time, the design of the system facilitates the ability to cater to multiple job cards simultaneously. This flexibility allows customers freedom in scheduling jobs and can vastly improve the aircraft maintenance and paint cycles.

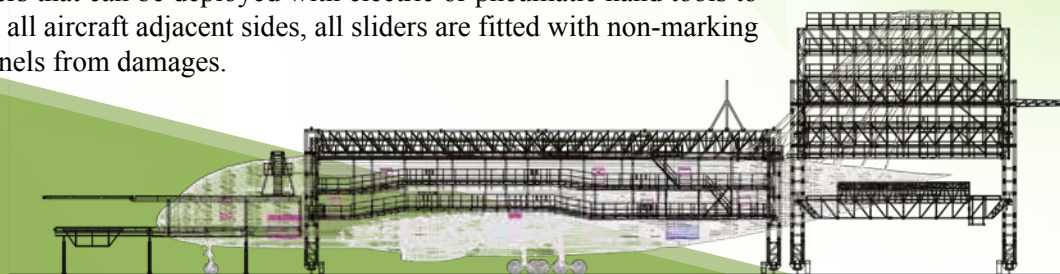
The business case for ownership is made even more compelling due to the fact that these systems can be leveraged for a variety of aircraft types ranging from the Airbus A319, A320, A330, A340, and A380-800, and the Boeing B737, B747, B777, and B787.

The Excel Aviation access systems are extremely versatile and afford customers a high degree of flexibility in commissioning and operational utility. For example, with minimal redesign, the system can be leveraged for a nose-in or tail-in configuration. In addition, the modularity of the system helps future proof the investment. For example, a multiple-aircraft docking system designed for the A380 and B777-300 is currently being reconfigured to cater for the B777X. The modularity of the system also complements the relocation or sale of the docking kit, should it be required.

Another product differentiator of the Excel access systems are the use of sophisticated electronics coupled with high quality mechanical components. The highly automated PLC governed systems are preconfigured using motorized horizontal and vertical drives to reduce docking time and facilitate shortening the aircraft hangar time.

Safety is embedded into every facet of design and there are no compromises when the safety of crews, property, and aircraft are at stake. In addition to handrails, safety barriers, pivot plates, and rubber fenders, the docks also leverage proximity sensors, limit switches, and interlocking PLC systems with widely accessible emergency stops to supplement safe and rapid docking and dedocking.

Each system is fitting with sliders/fingers that can be deployed with electric or pneumatic hand tools to get as close a fit to the aircraft. As with all aircraft adjacent sides, all sliders are fitted with non-marking rubber fenders to protect the aircraft panels from damages.



AIRCRAFT DOCKING SYSTEM



NOSE DOCK

The nose dock provides access to the forward passenger doors (both upper and lower decks, where applicable), the forward cargo door, the radom, the windshield, and forward crown.



FUSELAGE DOCK

The fuselage dock provides access to all fuselage doors, windows, rear cargo door, the fuselage crown, and the dorsal fin.



TAIL DOCK

The tail dock provides access to all flight controls on the horizontal and the vertical stabilizer. It should be noted that the motorized drives for the THS and VTP are independent, allowing flexible access to support job cards in multiple stations simultaneously.



WING DOCK

The wing docks system is made up of modular, height adjustable aluminum platforms designed to follow the contour of the wing. When deployed, it provides seamless, stepped access to the underwing of the wing from the wing tip to wing root. Raised steps/platforms are purposefully located to promote access to leading edge slats, trailing edge flaps, fuel tanks, and winglets. In addition, recessed areas and cutouts are available to allow for canoe fairings, RAT access, and jacking equipment.



ENGINE DOCK

The engine docks are also manufactured in aluminum and provide access to wide variety of engines. They are fitted with intermediate scissors lifts that move on tracks to support job cards on the inlet, fan, and reverse thrusters with cowls open or closed. In addition a motorized gantry access bridge provides access to all areas of the pylon.



We realize that there is no one size fits all, so while the systems fundamental design are maintained, Excel Aviation offers customers a high degree of latitude in how they chose to customize the docks. For example, customers have the options on the compressed air, water, and electrical services required, lighting, flooring, and paint finishes.

ACCESS STAIR / STEP



Excel Aviation manufacture a wide range of access stairs that cater to several different aircraft types. Some of the key features include:

- Single lever jack system in front and two independent jacks at the back for stability.
- Equipped with folding tow-bar with 2 inch diameter eye.
- High quality castors allow for easy maneuverability.
- Rubber bumper fitted in front and both sides for aircraft protection.
- Non-slip working deck, landings, and steps.
- Galvanized and 3 coat epoxy paint finishes.



Technical Specification

Model No	Step Width	Step Depth	Platform Size	Platform Height	Overall Length	Overall Width	Overall Height	Shipping Weight
EFS-2000MM	800 mm	250 mm	1220 x1220 mm	2000 mm	4000 mm	1800 mm	3000 mm	340 kgs
EFS-2500MM	800 mm	250 mm	1220 x1220 mm	2500 mm	4000 mm	1800 mm	3500 mm	390 kgs
EFS-2750MM	800 mm	250 mm	1220 x1220 mm	2750 mm	4000 mm	1800 mm	3750 mm	440 kgs
EFS-3000MM	800 mm	250 mm	1220 x2000 mm	3000 mm	4000 mm	2400 mm	4000 mm	630 kgs
EFS-3900MM	800 mm	250 mm	1220 x2000 mm	3900 mm	4940 mm	2400 mm	4900 mm	710 kgs
EFS-L-2000MM	800 mm	250 mm	1220 x1220 mm	2000 mm	4000 mm	1270 mm	3000 mm	260 kgs



Technical Specification

Model No	Step Width	Step Depth	Platform Size	Platform Height	Overall Height	Overall Length	Overall Width	Tare Weight
EFS-C1640	800 mm	205 mm	1000 x 1000 mm	1640 mm	2640 mm	2730 mm	1350 mm	220 kgs
EFS-C-2000	800 mm	205 mm	1220 x 1220 mm	2000 mm	3000 mm	3290 mm	1770 mm	270 kgs
EFS-C-3000	800 mm	205 mm	1220 x 2000 mm	3000 mm	4000 mm	4370 mm	2436 mm	400 kgs

Towable Type - Model No. – EFS - 1640 MM



Technical Specification

Stair Width	670 mm
Stair Height	280 mm
Step Depth	250 mm
Platform Height	1640 mm
Overall Length	2540 mm
Overall Width	2540 mm
Overall Height	2185 mm

ACCESS STAIR / STEP

Height Adjustable Step - Model No. – EMSA - 4100 MM



Technical Specification

Step Width	800 mm
Step Depth	250 mm
Platform Size	1220 x 3000 mm 1 Meter Landing Extended
Platform Height	1650 to 4100 mm
Overall Length	9000 mm
Overall Width	2800 mm
Overall Height	5100 mm

Towable Passenger Step - Model No. – ETPS - 85152 - PAR



Technical Specification

Step Width	1219 mm
Step Depth	328 mm
Platform Size	1220 x 1378 mm
Platform Height	2159 to 3860 mm
Overall Length	6477 mm
Overall Width	23340 mm
Overall Height	3185 (collapsed)- 4930(raised) mm

SCISSOR LIFT PLATFORM



Technical Specification

Platform Dimension	1970 x 915 mm
Platform Height	915 to 2134 mm
Capacity	250 kgs
Lifting System	Hydraulic (manual)



Technical Specification

Platform Dimension	2000 x 2500 mm
Platform Height	1665 to 3200 mm
Capacity	500 kgs
Lifting System	Air Cooled Diesel Generator



Technical Specification

Platform Dimension	3250 x 850 mm
Platform Height	800 to 2800 mm
Capacity	250 kgs
Lifting System	Electric Motor

Excel Aviation manufacture a wide range of baggage carts that are versatile and robust to meet the rigorous demands of airport baggage handling. Some of the key features include:

- **Load Bed:** Formed galvanized steel load bed inclined towards full length central drainage channel.
- **Tow Bar:** The baggage cart has a tow bar fitted at the front and low hitch at the rear with sufficient strength to allow four fully loaded carts to be towed in a train.
- **Brakes:** Highly effective parking brakes operate on the front wheels and are automatically actuated when the tow bar is latched in the raised position or when lowered to the ground.
- **Mobility:** Universal wheel in the front axle turns swiftly with the use of heavy duty bearing (between the spindle and hub).

Side Drop-Fence Type - Model No. BC-SDF-2TON



Technical Specification

Length	2600mm (without tow bar)
Width	1600mm
Height from Ground	1350mm
Loading Height from Ground	585 mm
Clear Bed Area	2500 mm x 1500 mm
Full Load Capacity	2000 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	700 kgs.
Standard Finish	Hot Dipped Galvanized

Center & Rear Retractable Door - Model No. – BC-GTD-2TON



Technical Specification

Length	2600 mm (without tow bar)
Width	1600 mm
Height from Ground	1500 mm
Loading Height from Ground	500 mm
Clear Bed Area	2390 mm x 1400 mm
Full Load Capacity	2000 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	800 kgs.
Standard Finish	Hot Dipped Galvanized

Center & Rear Drop Fence Type - Model No. BC-CRDF-2TON



Technical Specification

Length	2600 mm (without tow bar)
Width	1600 mm
Height from Ground	1350 mm
Loading Height from Ground	585 mm
Clear Bed Area	2500 mm x 1500 mm
Full Load Capacity	2000 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	750 kgs.
Standard Finish	Hot Dipped Galvanized

Collapsible Fence Type - Model No. BC-CFT-2TON



Technical Specification

Length	2565 mm (without tow bar)
Width	1625 mm
Height from Ground	1360 mm
Loading Height from Ground	585 mm
Clear Bed Area	2465 mm x 1500 mm
Full Load Capacity	2000 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	640 kgs.
Standard Finish	Hot Dipped Galvanized

Side Curtain & Collapsible Door - Model No. – BC-RDS-1.5TON



Technical Specification

Length	2800 mm (without tow bar)
Width	1400 mm
Height from Ground	1730 mm
Loading Height from Ground	550 mm
Clear Bed Area	1400 mm x 2800 mm
Full Load Capacity	1500 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	710 kgs.
Standard Finish	Hot Dipped Galvanized

Canopy Type - Model No. – BC-C-2TON



Technical Specification

Length	2592 mm (without tow bar)
Width	1520 mm
Height from Ground	1928 mm
Loading Height from Ground	585 mm
Clear Bed Area	2465 mm x 1500 mm
Full Load Capacity	2000 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	740 kgs.
Standard Finish	Hot Dipped Galvanized

Sliding Door with Strap Type - Model No. – BC-SDS-2TON



Technical Specification

Length	2512 mm (without tow bar)
Width	1682 mm
Height from Ground	2000 mm
Loading Height from Ground	585 mm
Clear Bed Area	2465 mm x 1500 mm
Full Load Capacity	2000 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	1050 kgs.
Standard Finish	Hot Dipped Galvanized

Full Side Rear Drop Fence Type - Model No. – BC-FSRDF-2TON



Technical Specification

Length	2630 mm (without tow bar)
Width	1700 mm
Height from Ground	1400 mm
Loading Height from Ground	585 mm
Clear Bed Area	2465 mm x 1500 mm
Full Load Capacity	2000 kgs.
Maximum Towing Speed	30 km/hr
Tare Weight	560 kgs.
Standard Finish	Hot Dipped Galvanized

PALLET DOLLY

Excel Aviation manufacture reliable and durable dollies constructed with high quality component to handle the rigorous demands of transporting aircraft pallets and containers. Some of the key features include:

- **Load Bed:** The conveying surface consists of heavy duty, sealed bearing galvanized rollers, running on heavy hexagonal spring loaded axles, and with retractable pallet stoppers.
- **Tow Bar:** Provided with 2 torsion springs to minimize the weight of the tow-bar and will hold the same in any-angle position at speeds of up to 30 km/ hr.
- **Brakes:** Actuated by tow bar being latched in the vertical position for the front wheels and by a manual lever for the rear wheels.
- **Mobility:** A wide track frame with four ultra-wearable solid rubber tires with spring action absorbers provide stability during turning movements and towing speeds up to 30 kms/hr.

10' Pallet Dolly - Model No. 10-FT-PD



Technical Specification

Weight	1490 kgs.
Length	4620 mm
Width	3380 mm
Height	575 mm
Bed Length	2485 mm
Above Ground	508 mm
Load Capacity	7000 kgs.
Wheel Base	2655 mm
Standard Finish	Hot Dipped Galvanized

20' Pallet Dolly - Model No. 20-FT-CW-PD



Technical Specification

Weight	2890 kgs.
Length	8661 mm
Width	2692 mm
Height	584 mm
Bed Length	6655 mm
Above Ground	508 mm
Load Capacity	20000 kgs.
Wheel Base	2655 mm
Standard Finish	Hot Dipped Galvanized

LD3 Container Dolly Model No. CD-LD3-03



Technical Specification

Length	3800 mm
Width	1653 mm
Height	580 mm
Bed Length	1865 mm
Width Inside Guide	1550 mm
Full Load Capacity	1,500 kgs.
Tare Weight	600 kgs.
Standard Finish	Hot Dipped Galvanized

Side Loading Dolly - Model No. CD-LD3SL01



Technical Specification

Length	3700 mm
Width	1727 mm
Height	610 mm
Bed Length	2540 mm
Width Inside Guide	1562 mm
Full Load Capacity	1500 mm
Tare Weight	620 kgs.
Standard Finish	Hot Dipped Galvanized

Caster Bed 20' Pallet Dolly - Model No. 20-FT-CW-PD



Technical Specification

Weight	2980 kgs.
Length	6850 mm
Width	2520 mm
Height	575 mm
Bed Length	2496 mm
Above Ground	508 mm
Load Capacity	15000 kgs.
Wheel Base	2655 mm
Standard Finish	Hot Dipped Galvanized

Air Suspension Dolly - Model No. 20FDFT-PDS



Technical Specification

Length	8490 mm (tow bar down)
Width	3320 mm
Height	800 mm
Loading Height (ground from roller top)	685 mm
Bed Length	6830 mm
Bed Width	3200 mm
Load Capacity	20000 kgs.
Rubber Air Suspension	8 Nos.
Capacity	2 to 4 bar supply of air (to lift 12 to 13Tons load)
Tare Weight	5100 kgs.
Standard Finish	Painted

CARGO RACKS

Excel Aviation manufactures a range of stillages and lazy racks that can be customized to the load capacity requirement and dimension specification of the end-user. The key features of the product include:

- Bulk-head or flow through design
- Side and end pallet stops that can be manual, spring load, or dented
- Typical pallet bed rollers are machined to 2 1/2 inch rollers with sealed bearings and 11/16th hexagonal shafts
- Rollers are hot dipped galvanized in accordance to BS EN 1461
- The cargo racks can be bolted together to form a transfer table

Lazy Rack



Stillage Rack

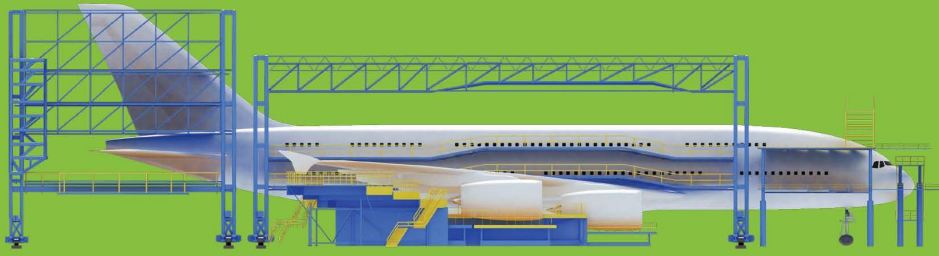


Excel Aviation has acquired a wealth of expertise and practical experience in developing next-generation docking systems by collaboration with airlines and aircraft builders since 1982. Excel Aviation's access equipment are developed and designed on the basis of this experience.

Excel Aviation designs and manufactures versatile access systems for various types of narrow and body aircraft. These systems support safe and efficient maintenance work and have been developed in collaboration with aircraft maintenance subject experts. The end results are mobile, multi-functional, multi-aircraft platforms, that can be designed in either a nose-in or tail-in configuration in accordance with the hanger specifications.

Excel Aviation is committed to being a turn-key docking solution expert providing a comprehensive array of services covering docking design, engineering, manufacturing, erection, and commissioning.

In today's highly competitive aircraft maintenance environment, an Excel Aviation docking system can be leveraged by any MRO to create a competitive advantage. Please contact Excel Aviation to discuss how our bespoke access systems refined over 15 years of product development and innovation, can help you streamline your maintenance practices and yield results that our existing customers have already realized.



EXCEL GROUP OVERVIEW

Founded in 1981, Excel Group is a privately owned multi-disciplinary engineering and manufacturing company headquarters in Ajman, UAE.

Excel Group is an ISO 9001:2008 , DIN and EN 1090-2 accredited organization that employs precise production processes and meticulous quality standards & control at all stages of design, engineering and manufacturing. For over 35 years, the Excel Group has successfully delivered several high profile turn-key projects for clients in Europe, the Middle East, and Northern Africa.

The Group currently employs over 1400 skilled workers and 200 professionals with expertise in Project Management, Design, Engineering, Fabrication, Health & Safety, Civil Construction, and MEP services. Our workforce and extensive in-house manufacturing capabilities across 3 production facilities totaling over 1.5 million square feet, supplement our ability to guarantee our customer high quality, cost-effective products, within committed delivery timeframes.

Manufacturing capabilities include pipe rolling, galvanizing, electroplating, power coating, laser and plasma plate processing, precision sawing and drilling, fabrication, welding, forging, and a variety of CNC machining. The extensive engineering, material processing, surface preparation, fabrication, and machining infrastructure enable the Excel Group to develop and manufacture products catering to diverse industries including civil and structural construction, oil and gas, aviation, and waste management.

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