

**POWER
STEP**

SAFETY ACCESS SYSTEMS
Simply a STEP in the right direction

Safety Access Systems

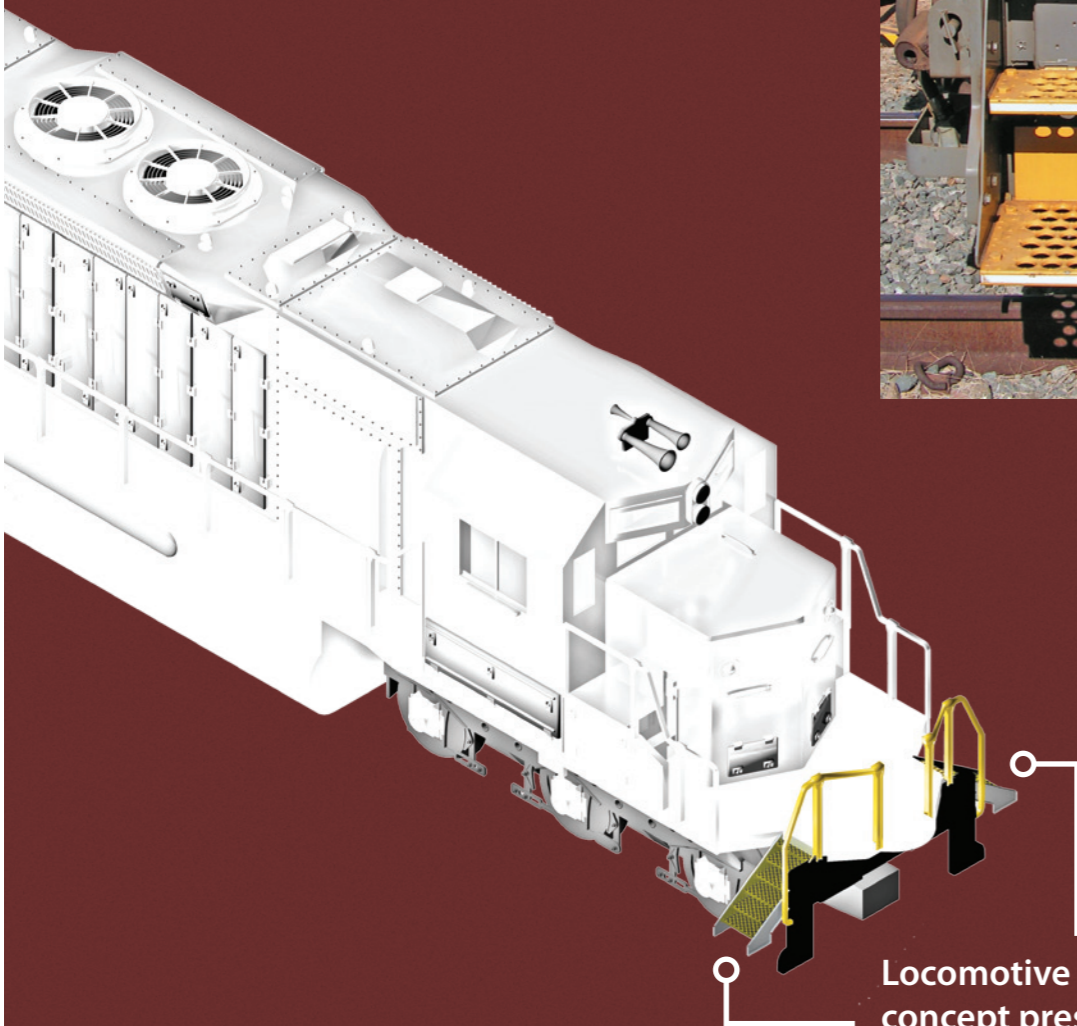
For Locomotives



Hydraulic retractable stairs for access to locomotives. A safer and easier alternative to large locomotive access.

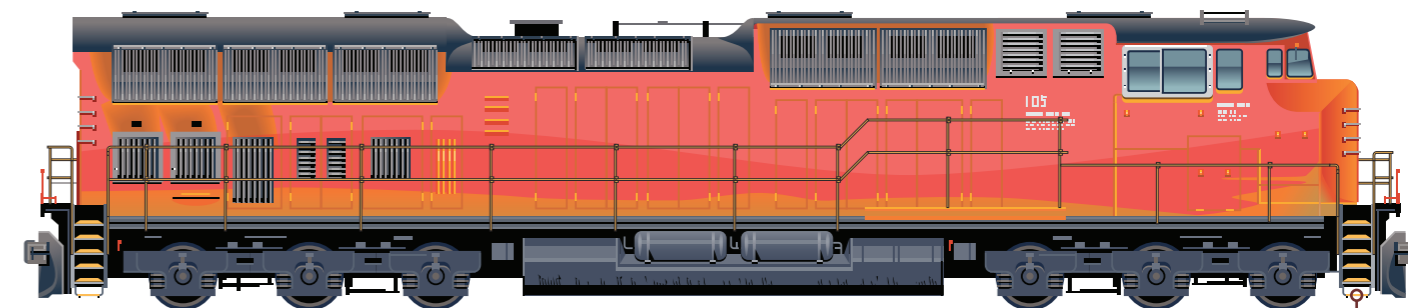
At Power Step (Australia), Safety Access Systems are our core business; and our design engineers dedicate their knowledge, skills and experience to design the safest and simplest access system that will suit the relevant application.

In 2007 Power Step (Australia) was engaged by Rio Tinto Pilbara Iron to carry out some R&D on the Dash 9 Locomotive stairs and present a safe access system for the locomotive that can serve a dual purpose; firstly to provide an access system that is suited for use from train platforms; and the second an extended stair system that will allow access at the rail tracks. Power Step submitted a couple of designs to the Rio Tinto steering committee of the rail project; but the project was shelved due to overall long term changes and the restructuring of Pilbara Rail system.



Locomotive Access Systems
concept presented for the
Pilbara Rail Project.

Dash 9 Example



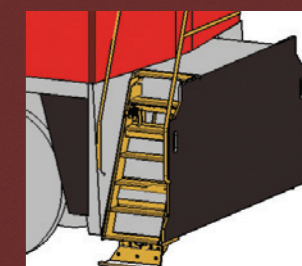
Power Step access systems are custom made to suit the application. The access systems can be air or hydraulically operated. The operation can be integrated to the locomotive's power source and provide the necessary switch gear and controls to operate the system from the conductor's cabin or from the stair's handrail.

The design process includes one or two inspection of the locomotive to determine location of the stair, dimensions and routing of plumbing and wiring harnesses; then one or two design concepts are prepared by engineers to present the Buyer to confirm adaptability and conformance to the scope of work. Once the design is accepted; drafting of all components takes place and once all drawings are completed they are handed over to fabrication for manufacturing the system.

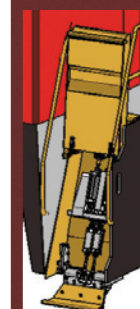
Once it is fabricated the system is assembled and tested; then shipped to site for installation. Power Step (Australia) provides supervisory assistance during installation to ensure proper fitment is accomplished and then training is conducted prior to commissioning to finalize the hand-over process.



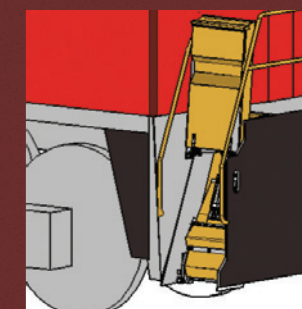
Accessible
Platform or
Workshop



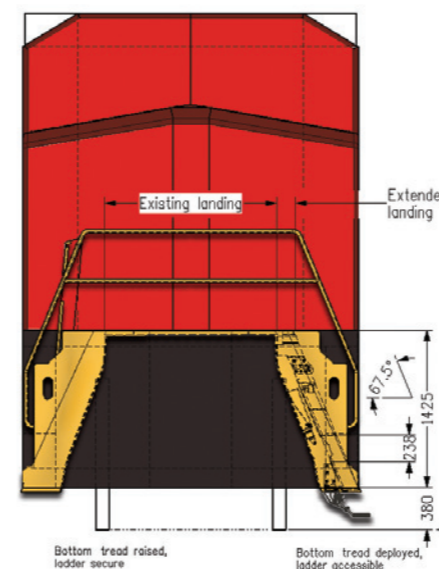
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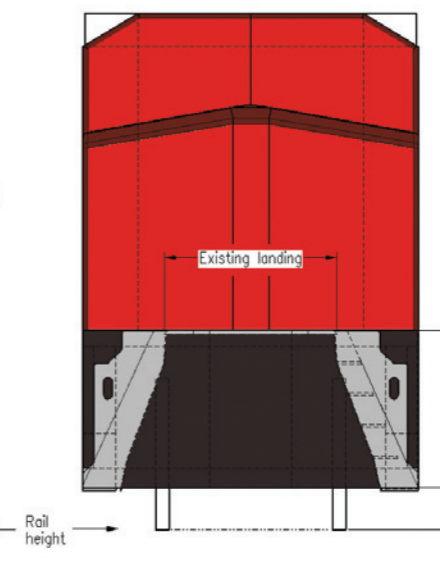
Intermediate
Position



Retracted
Position



Dash 9 Locomotive
with Folding Ladder System



Dash 9 Locomotive
without Folding Ladder System

Power Step (Australia) is very proud of its product support performance; and it continues to be our number ONE priority. Most remote mine sites worldwide have great comfort in knowing that the Power Step product is always looked after.

Replacement parts and components are available at a day's notice; the main warehouse at Archerfield, QLD holds over \$2M of inventory in parts, components and complete replacement modules. Power Step has a warehouse in Western Australia and appointed distributors in Latin America and Africa to ensure product support is always close by.

The success of Power Step (Australia) domestically and overseas is due to the reliable designs, robust fabrication and efficient product support is continues to demonstrate over the past two decades.

Installing a Power Step is
Simply a Step In The Right Direction!



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