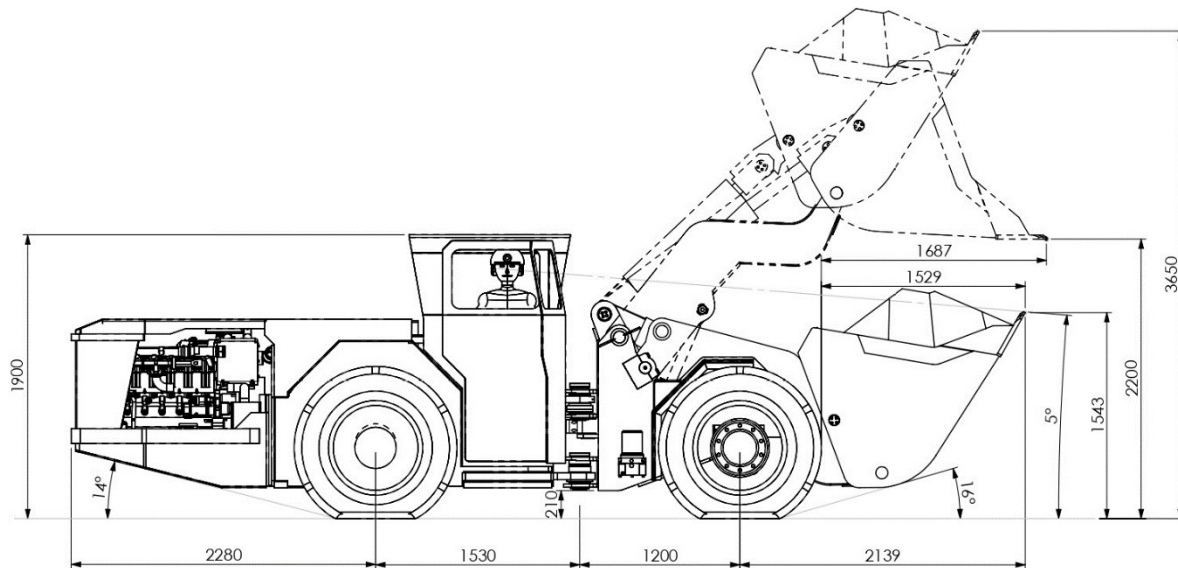


Diesel Underground Mining Loader

Model L350D

1,5 to 2,3m³ bucket – 6 to 12 m²



1-/ DESCRIPTION

Next generation of underground mining loader the L350D is the only machine of its category, available with an enclosed cabin offering an enjoyable journey in our tough underground environment.

The very robust frame design and system combination makes it the most productive and effective loader to increase safely your productivity in narrow vein mines.

Safety at each level :

From the Spring applied brake in each wheel to the escape window in the cabin, the L350D was designed to protect not only its operator, but all person around it, and the facts are :

- ISO ROPS/FOPS approved open or enclosed Cabin
- Steering and Boom-up locking device. Wheel chocks. Audio-visual reverse alarm. Easy and anti-skid Access. Emergency stop.
- Automation ready Canbus System.

Productivity at a high hence :

We have achieved an incomparable "size to capacity" ratio, to carry more in smaller gallery sections. As a leader in mining equipment for narrow vein mines, Aramine has the greatest expertise and understanding of the needs of this market.

Ergonomics has finally changed era:

The unique cabin design and the unmatched stability make you feel you're on board a large size loader, in term of comfort and security. Now available for Narrow vein mines !.
Great working solution for increasing productivity.

Durability as a philosophy:

Strong newly designed frame guarantees long life, easy maintenance and remanufacturing.

- Adjustable Roller bearing center articulated frame.
- Parallel bucket design with Stabilizer link insure high dumping angle with less articulations.
- Penetrating Bucket design and powertrain force offer fast and efficient mucking.

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2-/ TECHNICAL SPECIFICATION

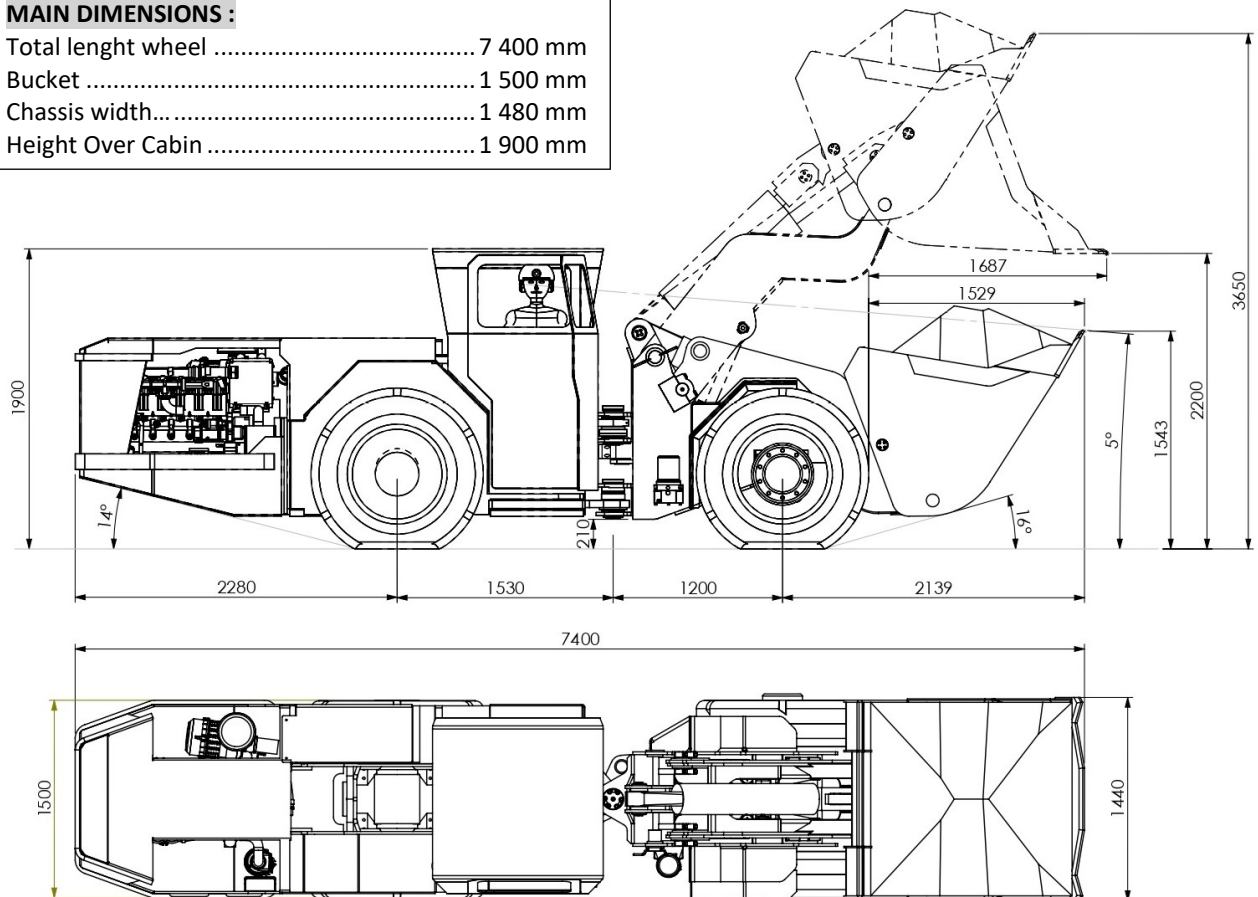
CAPACITIES :

Tramming capacity..... 3 500 kg
 Break out force, lift 5 420 kg
 Break out force, tilt 6 650 kg

Tipping load..... 8 400 kg
 Standard bucket (Dome SAE) 1,8 m³

MAIN DIMENSIONS :

Total length wheel 7 400 mm
 Bucket 1 500 mm
 Chassis width..... 1 480 mm
 Height Over Cabin 1 900 mm



OPERATING WEIGHTS :

Total operating weight 11 400 kg

LOADED WEIGHTS :

Total loaded weight 14 900 kg

BUCKET MOTION TIMES :

Raising time..... 5 sec
 Lowering time 4 sec
 Dumping time 3,8 sec

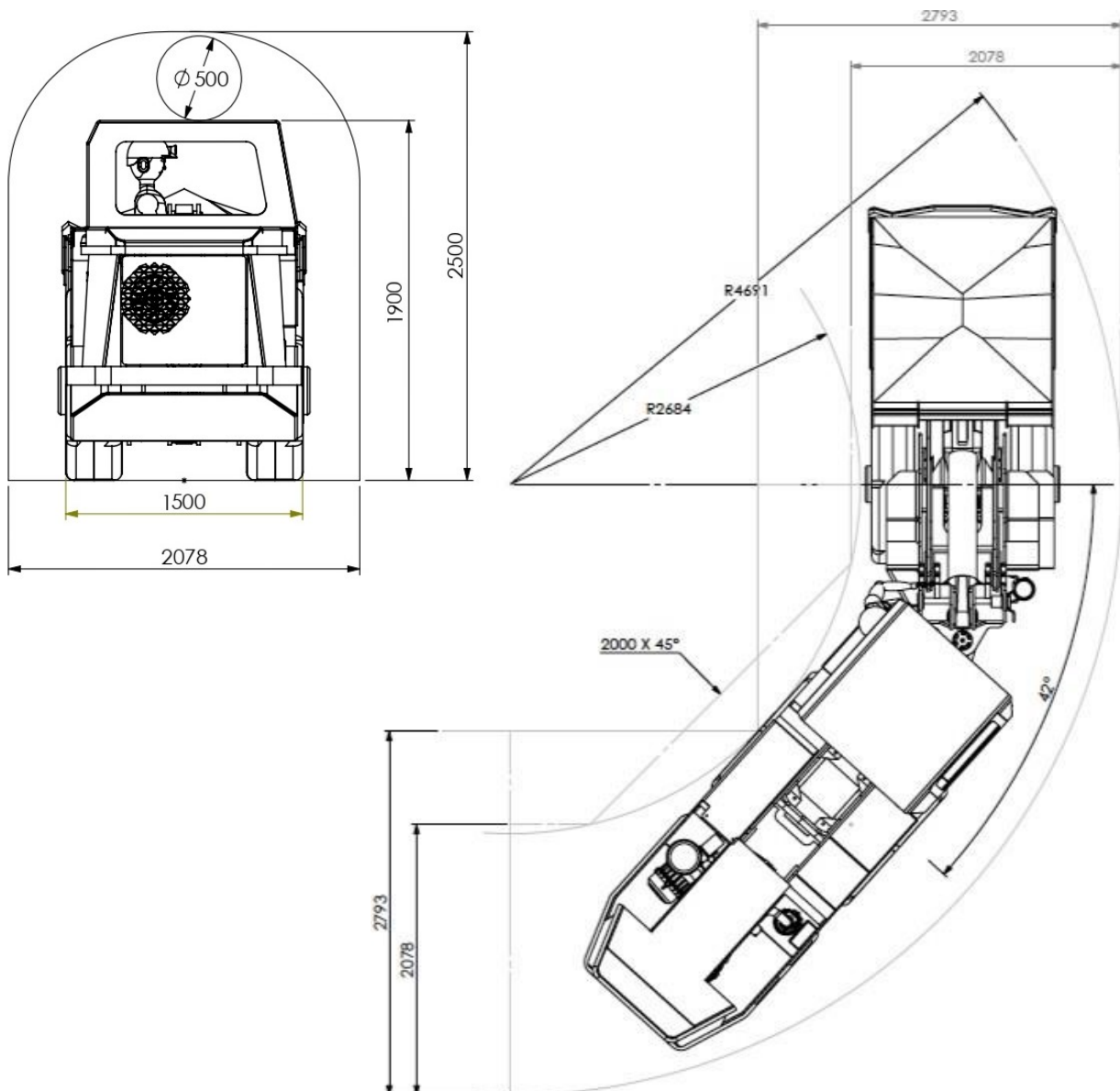
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TURNING RADIUS :

The L350D can turn in two perpendicular galleries of 2,8 m width straight angle. It can also operate in smaller sections as 2,1 m wide if angle is cutdown.



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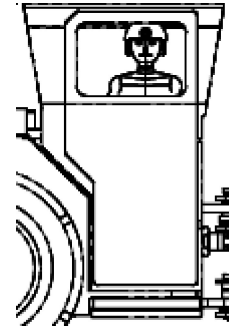
3-/ CHASSIS & OPERATOR STATION

STANDARD OPERATORS COMPARTMENT :

- ROPS/FOPS certified safety cabin
- Rubber Mounted for less vibration and noise
- Seat with arm rest, head rest and Seat belt
- Adjustable arm rest with Steering and bucket controls integrated

→ Optional enclosed cabin with air conditioner

→ Easy removable Cabin for lowering underground



FRAME :

Rear and front frame : Welded steel construction
 Central articulation : Timken type bearing hinge with adjustable and play
 Bolted Flange Articulation for boom and steering cylinder

4-/ POWERTRAIN - DIESEL VERSION

ENGINE :

Make and Model Deutz Diesel BF6L914
 Power 110 kw (150 hp) @ 2300 RPM
 Torque 500 Nm @ 1 650 rpm
 Number of cylinders 6 in line
 Displacement & Cooling system 6,4 l, Air Cooled.
 Air filtration Dry type system
 Electric system 24 V
 Exhaust system catalytic purifier and silencer
 Fuel tank capacity 130 l (43 gal)*

Optional engines :

TCD3,6 L4 tier3 86 hp, water Cooled Engine, tier 5 (machine dimensions may vary)

HYDROSTATIC DRIVE SYSTEM :

Drive pump Rexroth A4VG 125cc @ 410 bars
 Drive motor Rexroth variable displacement 200 to 65 cc
 Isolated Tank with Filter 60 L

AXLES :

Front axle Kessler D71, standard differential, fixed
 Rear axle Kessler D71, Limited SPin differential.
 Oscillation : Rear axle mounted on Bolted flange oscillating frame : 12° total

BRAKES :

Service : Spring applied hydraulically released, multidisc brake in each wheel end.
 Parking : Same as Service brakes with manual button activation
 Emergency : Same as Service brakes with automatic activation in case of failure of :
 Engine, hydraulic or Electrical system.

TIRES :

Tire size 12.00R20 L5S Smooth tread Design.
 Approved for underground loader application. Other type on demand.

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Model L350D

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5-/ HYDRAULIC & ELECTRICAL SYSTEMS

STEERING SYSTEM :

Hydraulically operated, articulated frame, double acting cylinder, steering controlled by hydraulic joystick, Cab door interlock protection.

Steering cylinders.....1 pc, 110 mm
 Steering pumpgear pump type

HYDRAULIC & BUCKET SYSTEM :

Joystick bucket and boom control with Cab door interlock protection.

Pump TypeGear type pump
 Lift cylinders.....2 pcs, 140 mm (4.9")
 Dump cylinder.....1 pc, 160 mm (5.5")
 Hose fittings.....ORFS type
 Hydraulic oil tank150 l

ELECTRICAL EQUIPMENT :

Canbus system with programmable PLC and monitoring system.

Alternator80A
 Batteries.....2 x 12 V
 Starter.....24 V
 Driving and working lightsLED type. 2 in front and 2 in rear
 Brake lights2 pcs in rear (LED lights)
 Indicators : lockable main switch.....5,7" color display

6-/ STANDARD EQUIPMENT

STANDARD EQUIPMENT :

Reverse alarm with Rotating beacon (CEN)
 External emergency shutdown button, 2 pcs in rear
 ISO type Decals and instructions.
 Door interlock for boom, bucket and steering hydraulics, with automatic brake apply.
 Low frequency suspension seat
 Temporized Automatic Neutral brake apply (adjustable)
 Boom raised and central articulation, convenient locking systems
 Centralized manual lubrication in central hinge.
 Centralized pressure and flow manual check points
 Dashbord display with possibility to read all pressures, temperatures with records
 Fire extinguisher, 6kg (CEN)

TECHNICAL DOCUMENTATION :

Operator's manual.....2 x Hard copies & 1 x USB key
 Maintenance manual.....2 x Hard copies & 1 x USB key
 Parts manual2 x Hard copies & 1 x USB key
 Standard documentation in English, French, Spanish or Russian.
Other languages on request.

Diesel Underground Mining Loader

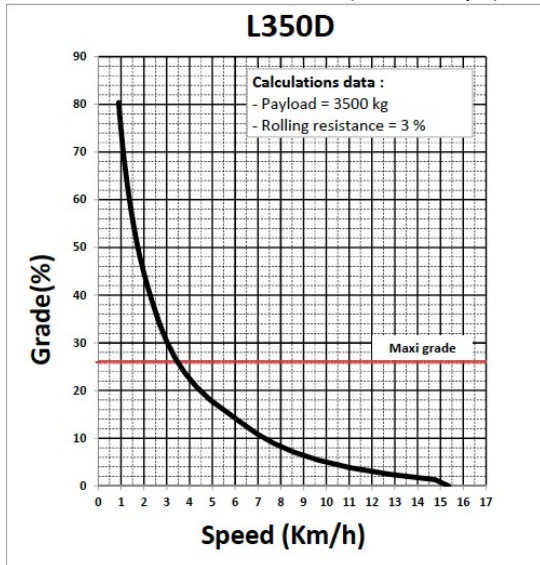
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7-/ SPEED & PRODUCTIVITY

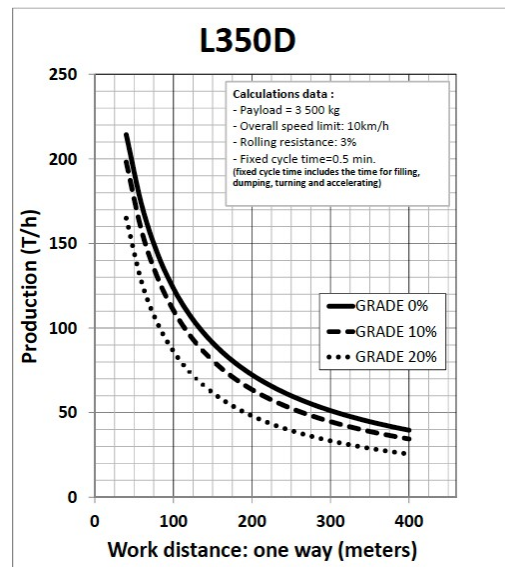
SPEEDS FORWARD & REVERSE (LEVEL/LOADED) :

Hydrostatic transmission allows a progressive acceleration from 0 to 15 km/h (0 to 9,3 mph)



PRODUCTIVITY :

Standard : 110 t/hour on 100m distance @ 10%
 The L350D is ideal in 6 to 12 m² and 80 to 500 m.



OPTIONAL EQUIPMENT

- **Optional Engines & Energies:**
 - o TCD3,6 L4 tier3 86 kW, water Cooled Engine, tier 5
 - o Electric Battery Powered
- Manuel Fire suppression system ANSUL, one tank, 6 nozzles (CEN), incl. auto engine shut down.
- Automatic CHECKFIRE Ansul system (order in addition of manual Ansul system)
- Radio Remote Control, complete.
- Arctic package (engine and hydraulic tank heater)
- Jump start
- Enclosed cabin with air conditioner, heater, window wipers/washers and emergency escape window.
- Automatic central lubrication

