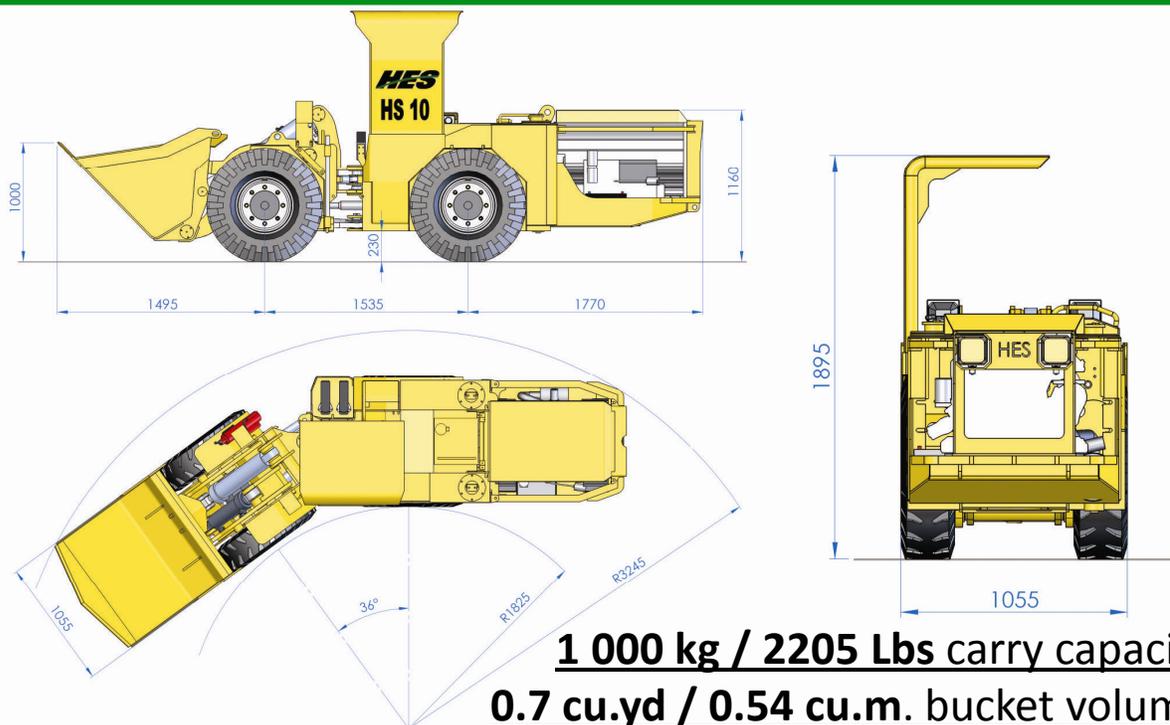


# HS 10 Underground Mining Scoop Loader



## Technical Specifications:

### Engine:

**Make & Model:** Deutz, F4L912W, 4 cylinders, diesel engine

**Aspiration:** Naturally aspirated, air cooled

**Combustion:** Two-stage combustion

**Power:** 54 HP (40 kW) @ 2300 RPM  
37 HP (28 kW) @ 2300 RPM at 4500 m A.S.L.

**Torque:** 198 N.m (146 lb.ft) @ 1550 RPM

**Displacement:** 4.1 L (250 cu.in.)

**Air intake:** Dry type Donaldson air filter

**Exhaust:** Catalytic purifier

**Transmission:** Hydrostatic transmission with a Linde fixed displacement motor and a variable displacement pump

### Axes:

**Front:** HES planetary axle, fixed, no spin differential

**Rear:** HES planetary axle, fixed, standard differential, with gear transfer case mounted on it.

Oscillation midship:  $\pm 10^\circ$

### Brakes:

**Service:** Hydrostatic brakes

**Emergency/Parking:** Spring applied, hydraulically released, LCB with 8 friction discs enclosed in transfer case

**Tires:** 8.25R15, 2\*, L5 underground mining, Bridgestone, VSDL, Radial

### Capacities:

**Payload capacity:** 1 000 kg (2 205 lb)

Breakout force, hydraulics:

Lift: 1 295 kg (2 855 lb)

Tilt: 4 660 kg (10 275 lb)

**SAE Breakout force:** 2 445 kg (5 390 lb)

Tipping Load: 4 650 kg (10 250 lb)

Bucket volume: 0.7 yd<sup>3</sup> (0.54 m<sup>3</sup>)

### Weights:

Empty Vehicle Weight (EVW): 3 700 kg (8 150 lb)

Gross Vehicle Weight (GVW): 4 700 kg (10 300 lb)

### Speed:

Theoretical maximum speed, empty and loaded, in forward and reverse, on level: 9.6 km/h (6MPH)

### Electrics:

**Starter:** 12V, 2.7 kW

**Alternator:** 14V, 55 Amps

**Lights:** Qty 4, (2 front, 2 rear), 55W, H3 halogen bulbs with vibration dampener

### Steering:

Midship articulated power steering, with qty two 60 mm (2.35") dia. hydraulic cylinders. Monostick steering for bidirectional operation.

### Materials:

Front and rear frames: A572 (50W)

Central hinge: Large angle spherical bearings

Arms / Parts of ROPS: A514 (QT 100)

Bucket / Lip: Hardox 400 / Hardox 500, 500 BNH

### Liquid Volumes:

**Fuel tank:** 50 liters (13.2 gal.)

**Hydrostatic oil tank:** 34 liters (9.0 gal.)

**Hydraulic oil tank:** 65 liters (17.2 gal.)

### Bucket:

**Raising time:** 2.5 sec.

**Lowering time:** 1.5 sec.

**Tipping time:** 4.0 sec.

Gear pump with open center circuit design. Available oil flow from steering pump directed to bucket hydraulics to decrease cycle time.

**Hoist/Lift cylinder:** Qty 1, 100 mm (3.90") dia.

**Dump/Tilt cylinder:** Qty 1, 120 mm (4.70") dia.

### Dimensions:

**Height:** 1 895 mm (6' - 2.5")

**Length:** 4 800 mm (15' - 9")

**Width:** 1 055 mm (3' - 5.5")

**Articulation angle:** 36 degrees to either side

**Turning radius: Inner:** 1 825 mm (72")

**Outer:** 3 245 mm (128")

### Options:

-FOPS-ROPS protective structure with closed back

-Spare rim assembly

-Back up alarm

-Emergency steering

-Electric Powered unit model **HS 10E**

-Other options may be available upon request

All enclosed technical specifications and dimensions are subject to change without prior notice

# HS 10 Underground Mining Scoop Loader

(1 000 kg/2 205 Lbs carry capacity, 0.7 cu.yd/0.54 cu.m. bucket volume)

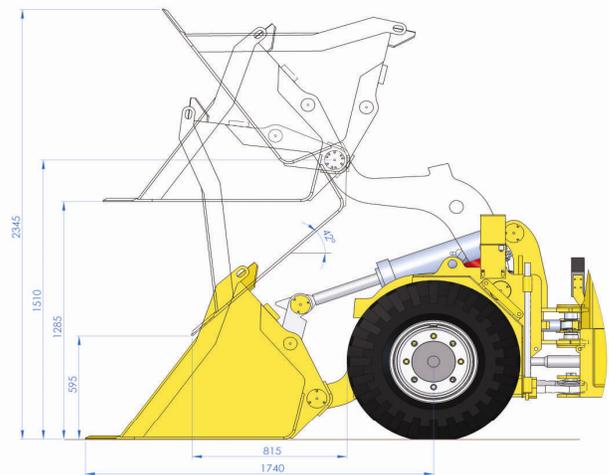


- The HES model **HS 10** is an all wheel drive, articulated, reliable scoop loader designed for narrow vein mining

- With a standard, bigger, 4 cylinders, air cooled Deutz engine, the powerful **HS 10** is also ideal for high altitude operations

- The rugged, heavy duty and stable **HS 10** is designed with reliability, serviceability, productivity and ergonomics kept in mind

- The use of high tensile and high abrasion resistant materials in critical areas makes the **HS 10** a safe and reliable machine cutting down time and increasing productivity



- With standard bigger traction tires, one pass loading is facilitated, increasing productivity and reducing operator fatigue.