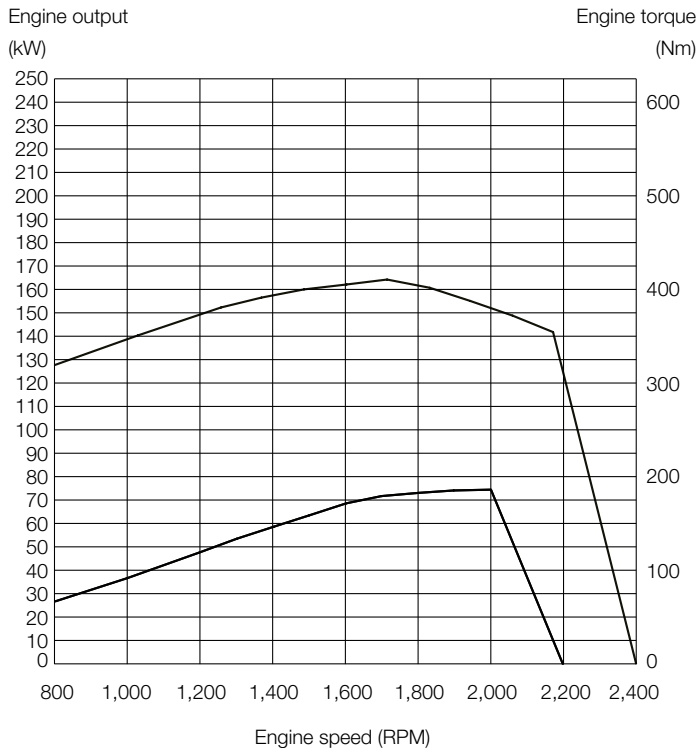


ENGINE

Model	DEUTZ TCD3.6L4F
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DOC and SCR system
No. of cylinders	4
Maximum rated power	
ISO 14396, gross	101 hp (74 kW) at 2,000 min ⁻¹ (rpm)
ISO 9249, net	96 hp (71 kW) at 2,000 min ⁻¹ (rpm)
Maximum torque	400 Nm at 1,600 min ⁻¹ (rpm)
Bore and stroke	3.9 in x 4.7 in (98 mm x 120 mm)
Piston displacement	221 in ³ (3,621 L)
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator
Emission	Complies with EU stage IV and US EPA Tier 4 Final



POWERTRAIN

Transmission	Electrical-controlled 1 motor hydrostatic transmission with gear box, Gear box: Fixed gear ratio, powershift countershaft type
Cooling method	Forced circulation type
Travel speed* Forward/Reverse	
1st	11.5/7.1 km/mph
2nd	21.4/34.5 km/mph
* With 17.5-25-12PR (L-2) tire	

AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and differential gear	Two stage reduction with torque proportional differential
Oscillation angle	Total 20° (+10°, -10°)
Final drives	Heavy-duty planetary, mounted inboard

BRAKES

Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brakes. Front & rear independent brake circuit, HST (Hydro Static Transmission) system provides additional hydraulic braking capacity
Parking brakes	Spring applied, hydraulically released, wet disc type

STEERING SYSTEM

Type	Articulated frame steering
Steering angle	Each direction 40°; total 80°
Cylinders	Double-acting piston type
No. x Bore x Stroke	2 x 2.4 in x 15.6 in (2 x 60 mm x 395 mm)

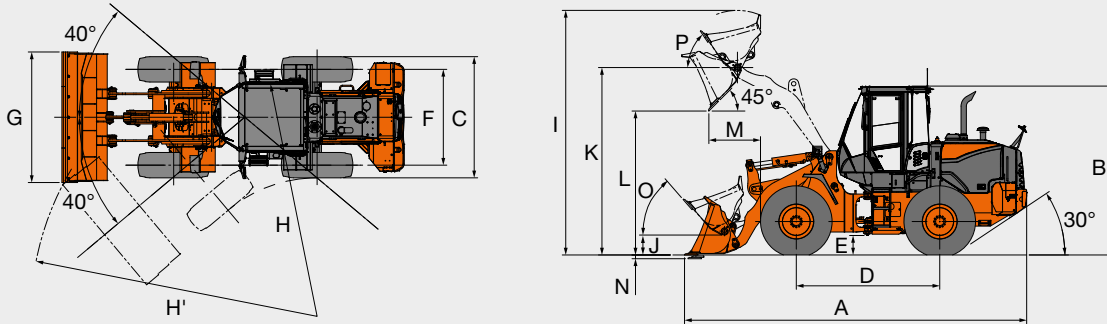
HYDRAULIC SYSTEM

Arm and bucket are controlled by multi function control lever	
Arm controls	Four position valve; Raise, hold, lower, float
Bucket controls with automatic bucket return to-dig control	Three position valve; Roll back, hold, dump
Main pump (Load & steer)	
.....	Gear type 32.0 gal/min (121 L/min) at 2,000 min ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm ²)
Relief pressure setting	20.6 MPa (210 kgf/cm ²)
HST charging pump	Gear type 10.4 gal/min (39.2 L/min) at 2,000 min ⁻¹ (rpm) at 2.5 MPa (25 kgf/cm ²)
Transmission charging pump	Gear type 5.9 gal/min (22 L/min) at 2,000 min ⁻¹ (rpm) at 1.8 MPa (18 kgf/cm ²)
Hydraulic cylinders	
Type	Double acting type
No. x Bore x Stroke ...	Arm: 2 x 4.1 in x 28.0 in (2 x 105 mm x 710 mm) Bucket: 1 x 4.9 in x 17.5 in (1 x 125 mm x 445 mm)
Filters	Full-flow 10 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise	6.6 s
Lift arm lower	2.7 s
Bucket dump	1.6 s
Total	10.9 s

SERVICE REFILL CAPACITIES

Fuel tank	39.62 gal (150 L)
Engine coolant	4.20 gal (16 L)
Engine oil	2.80 gal (10.5 L)
Front axle differential & wheel hubs	3.70 gal (14 L)
Rear axle differential & wheel hubs	3.70 gal (14 L)
Hydraulic oil tank	39.62 gal (150 L)
DEF/AdBlue® tank	4.50 gal (17 L)

DIMENSIONS & SPECIFICATIONS



Bucket type			Standard arm		High lift arm
			General purpose		General purpose
			Bolt-on cutting edge		
Bucket capacity	ISO heaped	yd ³ (m ³)	2.0 (1.5)	2.4 (1.8)	2.0 (1.5)
	ISO struck	yd ³ (m ³)	1.6 (1.2)	1.5 (1.4)	1.6 (1.2)
A Overall length		ft (mm)	21.0 (6,545)	21.3 (6,650)	21.0 (7,105)
B Overall height		ft (mm)		10.5 (3,210)	
C Width over tires		ft (mm)		7.4 (2,270)	
D Wheel base		ft (mm)		8.9 (2,725)	
E Ground clearance		in (mm)		14.6 (370)	
F Tread		ft (mm)		6.0 (1,820)	
G Bucket width		ft (mm)		8.0 (2,450)	
H Turning radius (Centerline of outside tire)		ft (mm)		16.2 (4,915)	
H' Loader clearance circle, bucket in carry position		ft (mm)	17.8 (5,430)	17.9 (5,460)	18.4 (5,610)
I Overall operating height		ft (mm)	15.3 (4,650)	15.6 (4,760)	16.4 (4,990)
J Carry Height of bucket pin		ft (mm)	1.5 (455)	1.5 (455)	1.5 (455)
K Height to bucket hinge pin, fully raised		ft (mm)	11.7 (3,560)	11.7 (3,560)	12.8 (3,900)
L Dumping clearance 45 degree, full height		ft (mm)	8.9 (2,705)	8.6 (2,630)	10.0 (3,040)
M Reach, 45 degree dump, full height		ft (mm)	3.3 (1,010)	3.5 (1,080)	3.9 (1,190)
N Digging depth (Horizontal digging angle)		in (mm)	2.8 (70)	2.8 (70)	8.3 (210)
O Max. roll back at carry position		deg		49	50
P Roll back angle at full height		deg		56	52
Static tipping load *	Straight	lb (kg)	14,330 (6,500)	14,200 (6,440)	12,940 (5,870)
	Full 40 degree turn	lb (kg)	12,390 (5,620)	12,240 (5,550)	11,140 (5,050)
Breakout force		lbf (kgf)	16,840 (7,520)	14,970 (6,790)	16,590 (7,520)
		kN	74.9	66.6	73.8
Operating weight *		lb (kg)	18,590 (8,430)	18,760 (8,510)	19,850 (9,000)

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

: Static tipping load and operating weight marked with include 17.5-25-12PR (L-2) tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT & SPECIFICATION CHANGES

Option item	Operating weight lb (kg)	Tipping load lb (kg)		Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)
		Straight	Full turn			
Tire 17.5R25	±0	±0	±0	±0	±0	±0
Belly guard	+154 (70)	+132 (60)	+110 (50)	±0	±0	±0

BUCKET SELECTION GUIDE

