

R80-7 HYUNDAI Hydraulic Excavator Specification

Engine

Model		Kirloskar 4R 1040NA	
Type		Water cooled, 4 cycle diesel, 4 cylinder in line, direct injection	
Rated flywheel horse power	ISO 3046	Gross	76 HP (57 kW) @ 2200 rpm
		Net	70 HP (52 kW) @ 2200 rpm
Max. Torque		29.6 kgf.m (214 lbf.ft) @ 1400 rpm	
Piston displacement		4160 cc	

Hydraulic System

Main pump

Type	Two variable displacement piston pumps
Max. flow	2 x 75.6 lpm
Sub-pump for pilot circuit	Gear pump
Cross-sensing & fuel saving pump system	

Hydraulic motors

Travel	Two speed axial piston motor with counter balance valve and parking brake
Swing	Axial piston motor with automatic brake

Relief valve settings

Implement circuits	280 kgf/cm ²
Travel	280 kgf/cm ²
Swing circuit	210 kgf/cm ²
Pilot circuit	35 kgf/cm ²
Service valve	Installed

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	6400 kgf (11700 lbf)
Max. travel speed (high/low)	4.8 kmph /3.0 kmph
Gradeability	35° (70%)
Parking brake	Multi wet disc

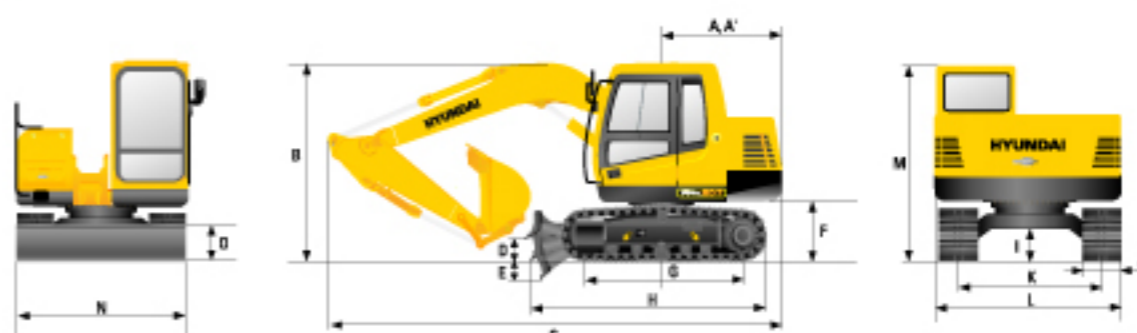
Swing System

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease bathed
Swing brake	Multi wet disc
Swing speed	12 rpm

Undercarriage

X-Leg type centre frame is integrally welded with reinforced box section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters, with shock absorbing spring and sprockets, and track chain with triple grouser shoes.	
Centre frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	38
No. of carrier rollers, each side	1
No. of track rollers, each side	5

Dimensions



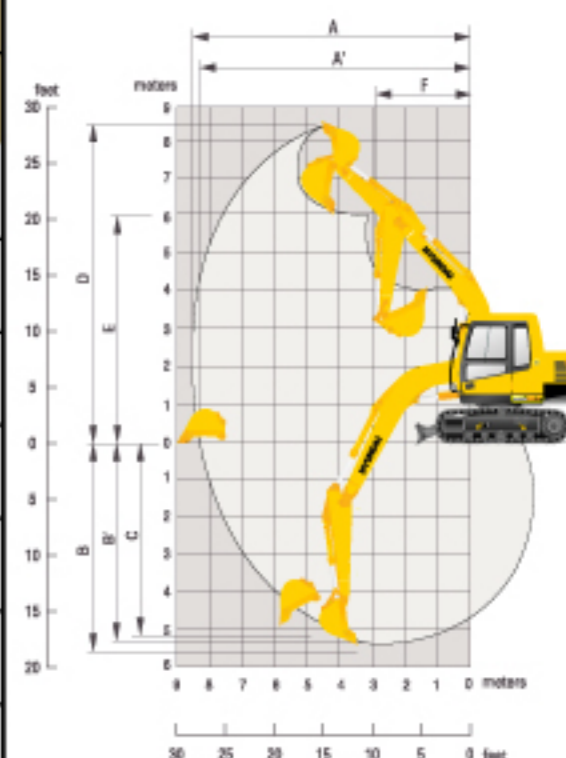
Dimensions

mm

A	Tail swing radius	1750
A'	Rear-end length	1727
B	Overall height of boom	2605
C	Overall length	6325
D	Ground Clearance of blade up	400
E	Depth of blade down	280
F	Ground clearance of counterweight	760
G	Tumbler distance	2130
H	Length of lower blade with dozer blade	3340
I	Min. ground clearance	360
J	Track shoe width	450
K	Track gauge	1750
L	Overall width of upperstructure	2250
M	Overall height of cabin	2650
N	Overall width of Undercarriage	2200
O	Height of blade	460

Working Ranges mm

Boom length (std.)		3700
Arm length (std.)		1670
A	Maximum Digging Reach.	6330
A'	Digging Reach on Ground.	6190
B	Max. Digging Depth.	4150
B'	Max. Digging Depth (8' level).	3810
C	Vertical Digging Depth.	3200
D	Maximum Digging Height.	7260
E	Maximum Dumping Height.	5170
F	Minimum Swing Radius.	1750



Operating Weight & Bucket Capacity

Operating weight	7800 kg
Bucket capacity	0.32 m ³ GP, 0.32 m ³ HD SAE Heaped