

# HX85A SPECIFICATIONS

**Net Power**  
65 hp (48.5 kW)  
/ 2,400 rpm

**Standard Bucket**  
0.37 yd<sup>3</sup> (0.28 m<sup>3</sup>)

**Operating Weight**  
19,030 lb (8,630 kg)

## ENGINE

|                         |                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------|
| Model                   | YANMAR 4TNV98C-PHYB                                                                          |
| Emissions certification | Tier 4 Final                                                                                 |
| Type                    | 4-cylinder, water-cooled, 4-cycle, direct-injection, electronically controlled diesel engine |
| Rated flywheel power    | J1995 (gross) 66.9 hp (49.9 kW) at 2,400 rpm                                                 |
| SAE power               | J1349 (net) 65.1 hp (48.5 kW) at 2,400 rpm                                                   |
| Max. torque             | 173 lbf·ft (235 Nm) at 1,560 rpm                                                             |
| Bore × stroke           | 3.86" × 4.33" (98 × 110 mm)                                                                  |
| Piston displacement     | 3,319 cc (203 cu in)                                                                         |
| Batteries               | 2 × 12 V × 100 Ah                                                                            |
| Starting motor          | 12 V × 3.0 kW                                                                                |
| Alternator              | 12 V × 100 A                                                                                 |

## HYDRAULIC SYSTEM

### MAIN PUMP

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Type                                   | Variable-displacement piston pump |
| Max. flow                              | 38.04 gpm (144 lpm)               |
| Sub-pump for pilot circuit (GEAR PUMP) | 4.3 gpm (16 lpm)                  |

\*Cross-sensing and fuel-saving pump system.

### AUXILIARY PRESSURE

|          |          |                        |
|----------|----------|------------------------|
| 2 Way    | Flow     | 13–26 gpm (50–100 lpm) |
|          | Pressure | 2,611 psi (180 bar)    |
| Rotating | Flow     | 10–15 gpm (38–57 lpm)  |
|          | Pressure | 4,062 psi (280 bar)    |

### HYDRAULIC MOTORS

|        |                                                                         |
|--------|-------------------------------------------------------------------------|
| Travel | 2-speed axial piston motor with counter balance valve and parking brake |
| Swing  | Axial piston motor with automatic brake                                 |

### RELIEF VALVE SETTING

|                    |                     |
|--------------------|---------------------|
| Implement circuits | 4,062 psi (280 bar) |
| Travel circuits    | 4,062 psi (280 bar) |
| Swing circuit      | 3,553 psi (250 bar) |
| Pilot circuit      | 507 psi (35 bar)    |
| Service valve      | Installed           |

### HYDRAULIC CYLINDERS

|                                 |                     |                                 |
|---------------------------------|---------------------|---------------------------------|
| No. of cylinders. Bore × stroke | Boom                | 1 – 4.7" × 34" (120 × 865 mm)   |
|                                 | Arm                 | 1 – 3.9" × 34" (100 × 860 mm)   |
|                                 | Bucket              | 1 – 3.5" × 27.0" (90 × 685 mm)  |
|                                 | Boom swing          | 1 – 4.3" × 27.8" (110 × 707 mm) |
|                                 | Dozer blade (STD)   | 1 – 4.3" × 7.5" (110 × 190 mm)  |
|                                 | Dozer blade (angle) | 1 – 5.5" × 7.1" (140 × 180 mm)  |
|                                 | Angle dozer blade   | 1 – 3.9" × 18.1" (100 × 461 mm) |

## NOISE LEVEL (CAB)

### DYNAMIC VALUE

|     |       |
|-----|-------|
| LwA | 99 dB |
| LpA | 76 dB |

## TRAVEL SYSTEM

|                                   |                             |                                           |
|-----------------------------------|-----------------------------|-------------------------------------------|
| Drive method                      |                             | Fully hydrostatic type                    |
| Drive motor                       |                             | Axial piston motor, in-shoe design        |
| Reduction system                  |                             | Planetary reduction gear                  |
| Max. drawbar pull                 |                             | 14,110 lbf (6,400 kgf)                    |
| Max. travel speed<br>(high / low) | Steel track &<br>Road Liner | 2.9 mph (4.6 km/hr) / 1.7 mph (2.8 km/hr) |
|                                   | Rubber track                | 3.2 mph (5.1 km/hr) / 1.9 mph (3.1 km/hr) |
| Gradeability                      |                             | 35° (70%)                                 |
| Parking brake                     |                             | Multi wet disc                            |

## CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| Pilot control          | Two joysticks with one safety lever (LH): arm swing, boom swing (RH): boom and bucket (ISO) |
| Traveling and steering | Two levers with pedals                                                                      |
| Engine throttle        | Electric, dial type                                                                         |

## SWING SYSTEM

|                           |                          |
|---------------------------|--------------------------|
| Swing motor               | Axial piston motor       |
| Swing reduction           | Planetary gear reduction |
| Swing bearing lubrication | Grease-bathed            |
| Swing brake               | Multi wet disc           |
| Swing speed               | 9 rpm                    |

## COOLANT & LUBRICANT CAPACITY

|                    |                         |
|--------------------|-------------------------|
| Fuel tank          | 30.4 gal (115.0 liters) |
| Engine coolant     | 3.4 gal (13.0 liters)   |
| Engine oil         | 2.8 gal (10.5 liters)   |
| Final drive (each) | 0.3 gal (1.1 liters)    |
| Hydraulic tank     | 12.3 gal (56.0 liters)  |
| Hydraulic system   | 23.9 gal (109.0 liters) |

## UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, track adjusters with shock-absorbing springs and sprockets, and rubber track.

|                                   |                     |
|-----------------------------------|---------------------|
| Center frame                      | X-leg type          |
| Track frame                       | Pentagonal box type |
| No. of cored bars on each side    | 75                  |
| No. of upper rollers on each side | 1                   |
| No. of lower rollers on each side | 5                   |

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 11' 8" (3,550 mm) mono boom, 6' 11" (2,100 mm) long arm, SAE heaped 0.37 yd<sup>3</sup> (0.28 m<sup>3</sup>) digging bucket, lubricant, coolant, hydraulic tank, fuel tank, add CWT, quick coupler, rubber track, operator 165 lbs (75 kg).

### OPERATING WEIGHT

|                  |                                     |
|------------------|-------------------------------------|
| Operating weight | 19,030 lb (8,630 kg)                |
| Ground Pressure  | 5.44 psi (0.38 kg/cm <sup>2</sup> ) |

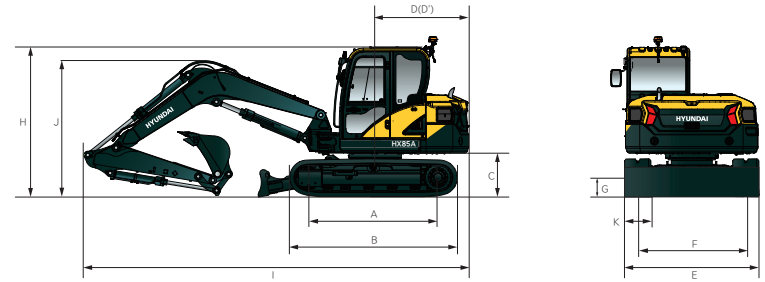
# HX85A

## SPECIFICATIONS

### DIMENSIONS

Unit: ft in (mm)

11' 8" (3,550) mono boom and 6' 11" (2,100) long arm

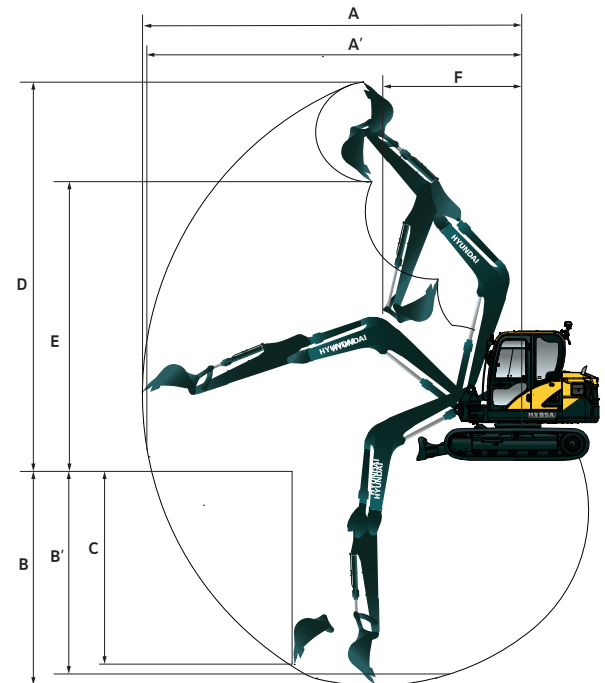


|                                            |                |                 |
|--------------------------------------------|----------------|-----------------|
| <b>A</b> Tumbler distance                  | 7' 7" (2,300)  |                 |
| <b>B</b> Overall length of crawler         | 9' 6" (2,885)  |                 |
| <b>C</b> Ground clearance of counterweight | 2' 5" (745)    |                 |
| <b>D</b> Tail swing radius                 | 5' 3" (1,600)  |                 |
| <b>D'</b> Rear-end length                  | 5' 5" (1,645)  |                 |
| <b>E</b> Overall width (w/foot board)      | 8' 5" (2,560)  |                 |
| <b>F</b> Track gauge                       | 6' 1" (1,850)  |                 |
| <b>G</b> Min. Ground clearance             | 1' 2" (360)    |                 |
| <b>H</b> Overall height of cab             | 8' 5" (2,560)  |                 |
| Boom length                                | 11' 8" (3,550) |                 |
| Arm length                                 | 5' 9" (1,750)  | 6' 11" (2,100)  |
| <b>I</b> Overall length                    | 21' 7" (6,585) | 21' 10" (6,655) |
| <b>J</b> Overall height of boom            | 7' 2" (2,175)  | 8' 1" (2,465)   |
| <b>K</b> Track shoe width                  | Steel track    | Rubber track    |
|                                            | 18" (450)      | 18" (450)       |

### WORKING RANGE

Unit: ft in (mm)

|                                           |                 |                 |
|-------------------------------------------|-----------------|-----------------|
| Boom length                               | 11' 8" (3,550)  |                 |
| Arm length                                | 5' 9" (1,750)   | 6' 11" (2,100)  |
| <b>A</b> Max. digging reach               | 23' 3" (7,090)  | 24' 4" (7,420)  |
| <b>A'</b> Max. digging reach on ground    | 22' 9" (6,940)  | 23' 11" (7,280) |
| <b>B</b> Max. digging depth               | 14' 1" (4,290)  | 15' 3" (4,640)  |
| <b>B'</b> Max. digging depth (8' level)   | 12' 11" (3,930) | 14' 2" (4,320)  |
| <b>C</b> Max. vertical wall digging depth | 12' 0" (3,660)  | 13' 2" (4,010)  |
| <b>D</b> Max. digging height              | 22' 11" (6,980) | 23' 9" (7,230)  |
| <b>E</b> Max. dumping height              | 16' 3" (4,950)  | 17' 0" (5,190)  |
| <b>F</b> Min. swing radius                | 8' 3" (2,515)   | 8' 11" (2,715)  |



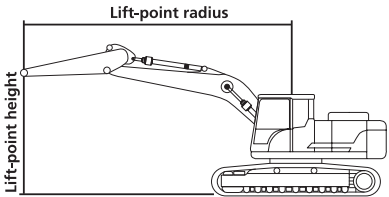
### DIGGING FORCE

|                      | Length | ft in (mm) | 5' 9" (1750)        |  | 6' 11" (2100)       |  |
|----------------------|--------|------------|---------------------|--|---------------------|--|
|                      |        |            |                     |  |                     |  |
| Arm                  | Weight | lb (kg)    | 368 (167)           |  | 428 (194)           |  |
|                      |        |            |                     |  |                     |  |
| Bucket Digging Force | SAE    | kN         | 52.9 (58.5)         |  | 53.0 (58.7)         |  |
|                      |        | kgf        | 5,401.0 (5,979.7)   |  | 5,401.0 (5,979.7)   |  |
|                      |        | lbf        | 11,907.2 (13,183.0) |  | 11,907.2 (13,183.0) |  |
|                      | ISO    | kN         | 61.6 (68.3)         |  | 61.6 (68.3)         |  |
|                      |        | kgf        | 6,289.9 (6,957.2)   |  | 6,289.9 (6,957.2)   |  |
|                      |        | lbf        | 13,853.7 (1,5338.0) |  | 13,853.7 (1,5338.0) |  |
| Arm Crowd Force      | SAE    | kN         | 39.7 (43.9)         |  | 35.7 (39.5)         |  |
|                      |        | kgf        | 4,042.0 (4,475.0)   |  | 3,639.5 (4,029.5)   |  |
|                      |        | lbf        | 8,911.0 (9,865.8)   |  | 8,023.8 (8,883.5)   |  |
|                      | ISO    | kN         | 41.4 (45.9)         |  | 37.1 (41.1)         |  |
|                      |        | kgf        | 4,221.6 (4,674.0)   |  | 3,782.4 (4,187.7)   |  |
|                      |        | lbf        | 9,307.1 (10,304.3)  |  | 8,338.8 (9,232.3)   |  |

Note : Arm weight includes bucket cylinder, linkage, and pin

# HX85A

## SPECIFICATIONS



### LIFTING CAPACITY

Boom: 11' 8" (3,550 mm)

Arm: 6' 11" (2,100 mm)

Bucket: without

Shoe 18" (450 mm) rubber track

Dozer: down

Counterweight: 2,210 lb (1,150 kg)

Capacities based on North American standard configuration  
in accordance with ISO condition 2 standard.

Rating over front 

Rating over side or 360 degrees 

| Lift-point height<br>ft (mm) |    |        | Lift-point radius                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |
|------------------------------|----|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              |    |        | 4.9 ft (1,500 mm)                                                                 |                                                                                   | 9.8 ft (3,000 mm)                                                                 |                                                                                   | 14.8 ft (4,500 mm)                                                                |                                                                                   | 19.7 ft (6,000 mm)                                                                  |                                                                                     | Capacity                                                                            | Reach                                                                               |
|                              |    |        |  |  |  |  |  |  |  |  |  |  |
| 19.7 (6,000)                 | lb |        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *4,250                                                                              | *4,250                                                                              | 12.7 (3,880)                                                                        |
|                              | kg |        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *1,930                                                                              | *1,930                                                                              |                                                                                     |
| 14.8 (4,500)                 | lb |        |                                                                                   |                                                                                   |                                                                                   | *3,660                                                                            | *3,660                                                                            |                                                                                   |                                                                                     | *3,590                                                                              | 3,150                                                                               | 17.8 (5,430)                                                                        |
|                              | kg |        |                                                                                   |                                                                                   |                                                                                   | *1,660                                                                            | *1,660                                                                            |                                                                                   |                                                                                     | *1,630                                                                              | 1,430                                                                               |                                                                                     |
| 9.8 (3,000)                  | lb |        |                                                                                   | *5,470                                                                            | *5,470                                                                            | *4,300                                                                            | 4,190                                                                             | *3,880                                                                            | 2,670                                                                               | *3,440                                                                              | 2,540                                                                               | 20.2 (6,150)                                                                        |
|                              | kg |        |                                                                                   | *2,480                                                                            | *2,480                                                                            | *1,950                                                                            | 1,900                                                                             | *1,760                                                                            | 1,210                                                                               | *1,560                                                                              | 1,150                                                                               |                                                                                     |
| 4.9 (1,500)                  | lb |        |                                                                                   | *9,790                                                                            | 7,170                                                                             | *5,470                                                                            | 3,950                                                                             | *4,170                                                                            | 2,580                                                                               | *3,640                                                                              | 2,340                                                                               | 21 (6,390)                                                                          |
|                              | kg |        |                                                                                   | *4,440                                                                            | 3,250                                                                             | *2,480                                                                            | 1,790                                                                             | *1,890                                                                            | 1,170                                                                               | *1,650                                                                              | 1,060                                                                               |                                                                                     |
| 0.0 (0.0)                    | lb |        |                                                                                   | *8,200                                                                            | 6,810                                                                             | *6,240                                                                            | 3,770                                                                             | *4,320                                                                            | 2,510                                                                               | *4,100                                                                              | 2,400                                                                               | 20.4 (6,210)                                                                        |
|                              | kg |        |                                                                                   | *3,720                                                                            | 3,090                                                                             | *2,830                                                                            | 1,710                                                                             | *1,960                                                                            | 1,140                                                                               | *1,860                                                                              | 1,090                                                                               |                                                                                     |
| -4.9 (-1,500)                | lb | *7,250 | *7,250                                                                            | *9,900                                                                            | 6,810                                                                             | *5,930                                                                            | 3,730                                                                             |                                                                                   |                                                                                     | *4,210                                                                              | 2,800                                                                               | 18.2 (5,560)                                                                        |
|                              | kg | *3,290 | *3,290                                                                            | *4,490                                                                            | 3,090                                                                             | *2,690                                                                            | 1,690                                                                             |                                                                                   |                                                                                     | *1,910                                                                              | 1,270                                                                               |                                                                                     |
| -9.8 (-3,000)                | lb |        |                                                                                   | *6,500                                                                            | *6,500                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *3,990                                                                              | *3,990                                                                              | 13.7 (4,160)                                                                        |
|                              | kg |        |                                                                                   | *2,950                                                                            | *2,950                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *1,810                                                                              | *1,810                                                                              |                                                                                     |

#### NOTES:

- Lifting capacities are based on ISO 10567.
- Lifting capacities of the HX-A series do not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The lift-point is the bucket pivot mounting pin on the arm (without bucket mass).
- (\*) indicates load limited by hydraulic capacity.



| ENGINE                                           | STD | OPT |
|--------------------------------------------------|-----|-----|
| YANMAR 4TNV98C-PHYB engine                       | ●   |     |
| Engine auto idle                                 | ●   |     |
| HYDRAULIC SYSTEM                                 |     |     |
| Load-sensing hydraulics                          | ●   |     |
| CAB & INTERIOR                                   |     |     |
| ISO STANDARD CABIN                               |     |     |
| 12 V power outlet (24 V DC to 12 V DC converter) | ●   |     |
| All-weather steel cab with 360° visibility       | ●   |     |
| Cabin front window rain guard                    |     | ●   |
| Cabin roof steel cover                           |     | ●   |
| Door and cabin locks, one key                    | ●   |     |
| Electric horn                                    | ●   |     |
| Lockable door                                    | ●   |     |
| Pilot-operated slidable joystick                 | ●   |     |
| Push start with key fob                          |     | ●   |
| Radio / USB player                               | ●   |     |
| Safety-glass windows                             | ●   |     |
| Sliding fold-in front window                     | ●   |     |
| Sliding side window                              | ●   |     |
| Storage compartment and ashtray                  | ●   |     |
| Sun visor                                        | ●   |     |
| Windshield wiper                                 | ●   |     |
| AUTOMATIC CLIMATE CONTROL                        |     |     |
| Air conditioner and heater                       | ●   |     |
| Defroster                                        | ●   |     |
| Starting aid (air grid heater) for cold weather  | ●   |     |
| CENTRALIZED MONITORING                           |     |     |
| Air filter sensor                                | ●   |     |
| Engine coolant temperature                       | ●   |     |
| Engine coolant temperature gauge                 | ●   |     |
| Engine oil pressure                              | ●   |     |
| Engine speed                                     | ●   |     |
| Fuel level                                       | ●   |     |
| Fuel level gauge                                 | ●   |     |
| Fuel prefilter                                   | ●   |     |
| Hydraulic oil temperature                        | ●   |     |
| Low battery                                      | ●   |     |
| SEAT                                             |     |     |
| Mechanical suspension with heater                | ●   |     |
| CABIN FOPS (ISO 10262) LEVEL 1                   |     |     |
| FOGS (Falling-Object Guard Structure)            | ●   |     |
| CABIN ROPS (ISO 12117-2)                         |     |     |
| ROPS (Roll Over Protective Structure)            | ●   |     |
| CABIN TOPS (ISO 12117)                           |     |     |
| TOPS (Tip-Over Protective Structure)             | ●   |     |

| SAFETY                                                           | STD | OPT |
|------------------------------------------------------------------|-----|-----|
| Arm holding system                                               |     | ●   |
| Automatic swing brake                                            | ●   |     |
| Battery master switch                                            | ●   |     |
| Beacon lamp (LED)                                                |     | ●   |
| Boom holding system                                              |     | ●   |
| Outside rearview mirror                                          | ●   |     |
| Rearview camera                                                  |     | ●   |
| Rear work lamp (halogen / LED)                                   |     | ●   |
| Safety lock valve for arm cylinder                               |     | ●   |
| Safety lock valve for boom cylinder with overload warning device | ●   |     |
| Three front working lights (LED)                                 |     | ●   |
| Three front working lights (halogen)                             | ●   |     |
| Travel alarm                                                     | ●   |     |
| OTHER SPECS                                                      |     |     |
| Accumulator for lowering work equipment                          | ●   |     |
| Additional counterweight                                         | ●   |     |
| Batteries (2 × 12 V × 100 Ah)                                    | ●   |     |
| Double-acting piping (breaker/thumb)                             | ●   |     |
| Hi MATE-mobile (4G) type                                         | ●   |     |
| Pattern change valve (2 patterns)                                | ●   |     |
| Quick coupler piping                                             | ●   |     |
| Quick coupler                                                    | ●   |     |
| Rotating piping                                                  | ●   |     |
| Thumb                                                            |     | ●   |
| Travel speed auto shift down                                     | ●   |     |
| BOOMS                                                            |     |     |
| 11' 8" (3,550 mm) mono boom                                      | ●   |     |
| 12' 10" (3,920 mm) 2-piece boom                                  |     | ●   |
| ARMS                                                             |     |     |
| 5' 9" (1,750 mm) arm with thumb bracket                          |     | ●   |
| 6' 11" (2,100 mm) arm with thumb bracket                         | ●   |     |
| BUCKET                                                           |     |     |
| 29" × 0.37 yd³                                                   | ●   |     |
| UNDERCARRIAGE                                                    |     |     |
| Dozer blade                                                      | ●   |     |
| 4-way angle dozer blade                                          |     | ●   |
| TRACK SHOES                                                      |     |     |
| Rubber track 18" (450 mm)                                        | ●   |     |
| Road liner track 18" (450 mm)                                    |     | ●   |
| Steel track 18" (450 mm)                                         |     | ●   |
| Steel track 24" (600 mm)                                         |     | ●   |

\* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.  
 \* The photos may include attachments and optional equipment that are not available in your area.  
 \* Materials and specifications are subject to change without advance notice.  
 \* All imperial measurements rounded off to the nearest pound or inch.