

**SPECIFICATION**

# SITE MASTER

THE ONE MACHINE FLEET



## COMPACT TOOL CARRIER | ICX

Gross power: 36kW (49hp)   Max dig depth: 3.08m   Shovel capacity: 0.28m<sup>3</sup>



# SITEMASTER THE ONE MACHINE FLEET

The ICX is an agile, compact machine that can tackle the toughest jobs without compromise on performance.

## SITEMASTER OF VERSATILITY

The JCB ICX compact excavator loader is one of the most versatile machines in the world. By combining an excavator and loader you get two machines in one.



## SITEMASTER OF MANOEUVRABILITY

The compact dimensions of the ICX enable it to fit through confined spaces, including doorways, and makes it easily transportable.

## SITEMASTER OF PERFORMANCE

The excavator can slide across the rear frame minimising machine repositioning and providing better visibility when digging in off-centre positions.



## SITEMASTER OF POWER & EFFICIENCY

A powerful engine is installed into this compact, agile machine, which together with their loading and digging capabilities enable them to tackle the toughest jobs.

## SITEMASTER OF COMFORT

The Sitemaster cab and canopy are designed for operator protection, and for day-long operator comfort with ergonomic and intuitive controls.

## ICX

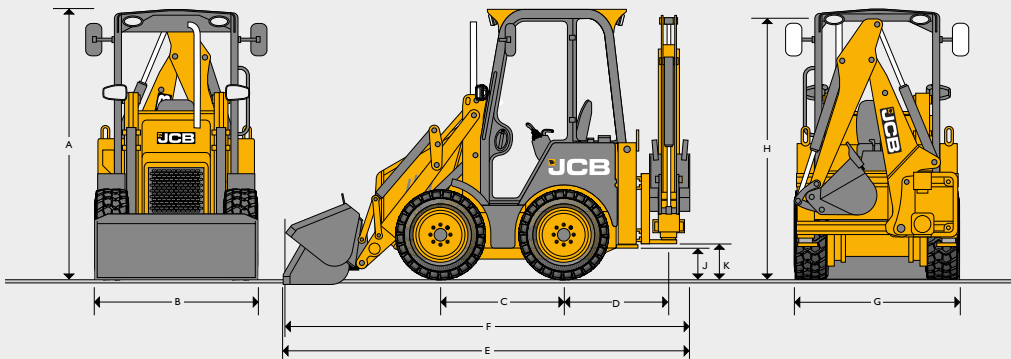
The JCB ICX comes as standard with a skid-steer quick hitch, 45 litres/minute hydraulics and a 2.55m fixed dipper, offering skid steer and excavator performance in one package.



## ICX PLUS

The ICX PLUS has added features as standard, including a cab with air conditioning for added operator comfort, and a 3.08m extending dipper, providing improved reach and dig depth.

## STATIC DIMENSIONS

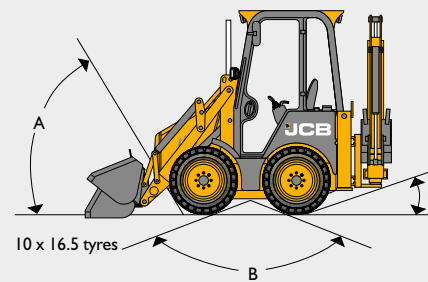


|   |                                                                 | 10x16.5 Tyres |
|---|-----------------------------------------------------------------|---------------|
| A | Cab roof height                                                 | m 2.25        |
| A | Cab roof height (low canopy)                                    | m 2.10        |
| B | Overall width (over shovel)                                     | m 1.58        |
| C | Axle centreline distance                                        | m 1.07        |
| D | Slew centre to rear axle centre distance                        | m 0.87        |
| E | Total travel length (short/long arm)                            | m 3.40 / 3.50 |
| F | Total travel length – shovel in carry position (short/long arm) | m 3.31 / 3.41 |
| G | Rear frame width (over stab leg feet)                           | m 1.56        |
| H | Total travel clearance (fixed dipper)                           | m 2.17        |
|   | Total travel clearance (extending dipper)                       | m 2.17        |
| J | Stabiliser feet clearance                                       | m 0.26        |
| K | Kingpost clearance                                              | m 0.32        |

## ENGINE

|                                   |         |                                                                                                                                  |
|-----------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------|
| Emissions standard                |         | Stage V                                                                                                                          |
| Manufacturer                      |         | Perkins 404J-E22T                                                                                                                |
| Aspiration                        |         | Turbocharged                                                                                                                     |
| Displacement                      | litres  | Common rail direct injection                                                                                                     |
| No. of cylinders                  |         | 4                                                                                                                                |
| Rated engine                      | rpm     | 2800                                                                                                                             |
| <b>Power ratings</b>              |         |                                                                                                                                  |
| Rated ISO 14396 (SAE J1995 Gross) | kW (hp) | 36.3 (49)                                                                                                                        |
| Max. torque @ 1600rpm             | Nm      | 190                                                                                                                              |
| Fuel type                         |         | Diesel                                                                                                                           |
| Fuel filter                       |         | Replaceable cartridge plus water/sediment separator prefilter                                                                    |
| Air cleaner                       |         | Dual element                                                                                                                     |
| Oil filter and lubrication        |         | Full flow, spin-on type filter. Engine oil service intervals 500 hours                                                           |
| Cooling system                    |         | Water, hot climate specification. Pressurised 1.0 bar, pusher fan. Pressurised tank with integral filler neck and overflow tank. |

## GROUND LINE ANGLES



|   |                                      |         |     |
|---|--------------------------------------|---------|-----|
| A | Approach angle                       | degrees | 52  |
| B | Interface angle/ramp to ground plane | degrees | 132 |
| C | Departure angle                      | degrees | 23  |
| D | Ground clearance                     | mm      | 180 |

## LOADER PERFORMANCE

|                                                | 6-in-1 shovel            |
|------------------------------------------------|--------------------------|
| Loader breakout – shovel •                     | 2350                     |
| Loader breakout – arms •                       | 2400                     |
| Tipping load •                                 | kg 1160 - 1320           |
| Payload rating as a percentage of tipping load | % 50                     |
| Rated operating capacity**                     | kg Range from 580 to 660 |

\*Loader breakout is calculated with standard loader arms.

\*\*Rated operating capacity as determined according to ISO 14397: 2007 (depending on specification).

## ELECTRICAL AND INSTRUMENTATION

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gauges               | Fuel Level, Hour meter                                                                                                                                                  |
| Warning system       | Audible and visual system, Autostop, Seatbelt warning, HEST/Regeneration, Ignition, working lights, park brake, alternator, main beam, engine oil pressure, water temp. |
| Battery              | 72A/hour                                                                                                                                                                |
| Pre-wire             | Beacon                                                                                                                                                                  |
| Horn                 | Controlled from both front and rear                                                                                                                                     |
| Alternator           | 85 amp (standard fit for Stage V)                                                                                                                                       |
| Front working lights | 2 adjustable 2000 Lumen LED                                                                                                                                             |
| Rear working lights  | 2 adjustable 2000 Lumen LED                                                                                                                                             |

## HYDRAULIC SYSTEM

|                                                    |          |
|----------------------------------------------------|----------|
| Open centre systems (gear pump) @2800 rpm services | l/min 45 |
| System relief pressure                             | bar 220  |

## TRANSMISSION

|               |                             |
|---------------|-----------------------------|
| Manufacturer  | Danfoss / Rexroth           |
| Type          | Hydrostatic                 |
| Travel speeds | 0-11 km/h forward & reverse |

## OPERATING WEIGHTS

|  | ICX (fixed dipper, standard canopy, 6 in 1 shovel and full fuel tank) | ICX PLUS (extending dipper, cab, 6 in 1 shovel and full fuel tank) |
|--|-----------------------------------------------------------------------|--------------------------------------------------------------------|
|  | kg 3240                                                               | 3455                                                               |

## BACKHOE DIMENSIONS

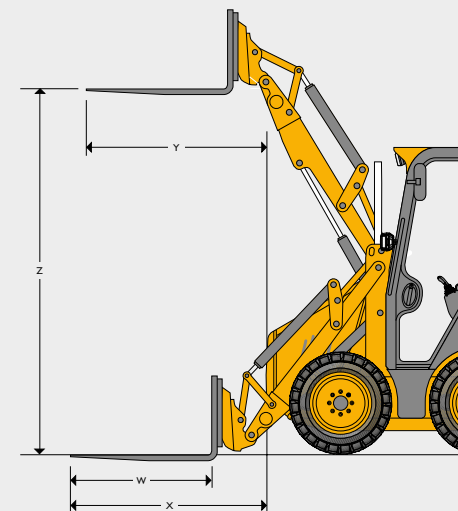
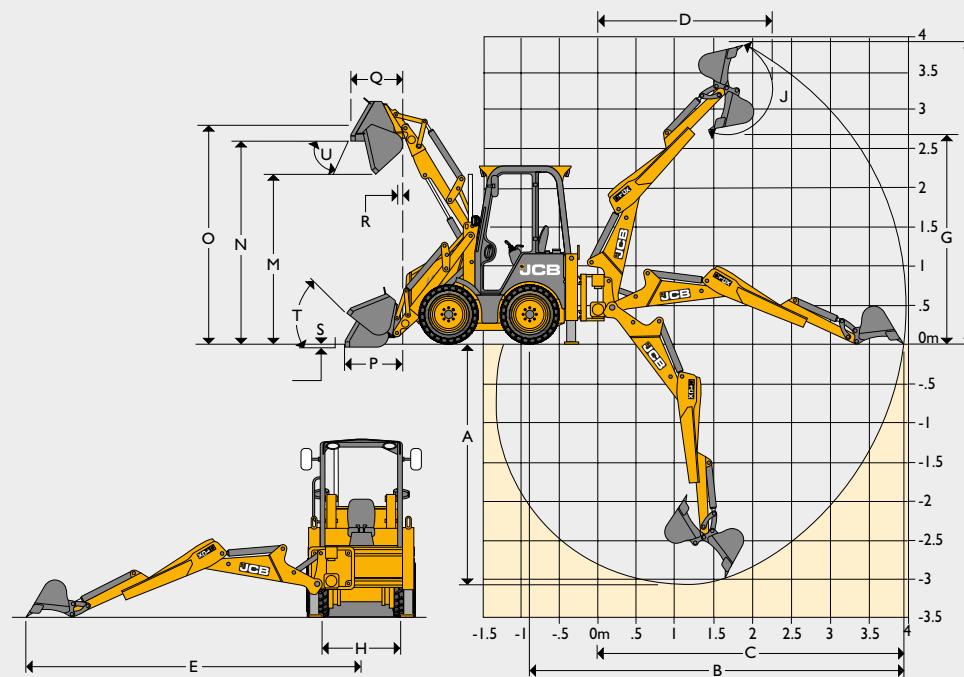
|   |                                                  |         | Fixed Dipper | Extended Dipper |
|---|--------------------------------------------------|---------|--------------|-----------------|
| A | SAE Maximum dig depth                            | m       | 2.54         | 3.07            |
|   | SAE Maximum dig depth 2ft flat bottom            | m       | 2.50         | 3.05            |
|   | ISO 8812 Maximum digging depth 2.5mm flat bottom | m       | 1.99         | 2.67            |
| B | Reach – ground level to rear wheel centre        | m       | 4.30         | 4.81            |
| C | Reach – ground level to slew centre              | m       | 3.36         | 3.88            |
| D | Reach – at full height to slew centre            | m       | 1.77         | 2.10            |
| E | Side reach – to centre line of machine           | m       | 3.87         | 4.36            |
| F | SAE operating height                             | m       | 3.50         | 3.86            |
| G | Maximum loadover height                          | m       | 2.31         | 2.72            |
| H | Total kingpost travel                            | m       | 0.99         | 0.99            |
| J | Bucket rotation                                  | degrees | 202          | 184             |
|   | Bucket tearout                                   | kgf     | 2201         | 2201            |
|   | Dipper tearout                                   | kgf     | 1488         | 1488            |

## LOADER DIMENSIONS - WITH SHOVEL

|   |                                            |         | Short Arms | Long Arms |
|---|--------------------------------------------|---------|------------|-----------|
| M | Dump height                                | m       | 2.10       | 2.16      |
| N | Load over height                           | m       | 2.50       | 2.58      |
| O | Loader hinge pin height                    | m       | 2.70       | 2.79      |
| P | Reach at ground (toe plate horizontal)     | m       | 0.80       | 0.86      |
| Q | Maximum reach at full height               | m       | 0.71       | 0.75      |
| R | Reach at full height fully dumped          | m       | 0.38       | 0.43      |
| S | Dig depth (toe plate horizontal) clearance | m       | 0.10       | 0.18      |
| T | Roll back at ground                        | degrees | 39         | 39        |
| U | SAE Dump angle                             | degrees | 41         | 42        |
|   | SAE Loader breakout – shovel               | kgf     | 2350       | 2350      |
|   | SAE Maximum hydraulic lift capacity        | kgf     | 1050       | 1000      |

## LOADER DIMENSIONS - WITH FORKS

|   |                                                            |    | Short Arms | Long Arms |
|---|------------------------------------------------------------|----|------------|-----------|
| W | Forks - tine length                                        | m  | 1.05       | 1.05      |
|   | Forks - tine width                                         | m  | 0.08       | 0.08      |
| X | Forks reach at Ground level                                | m  | 1.4        | 1.56      |
| Y | Forks reach at full height                                 | m  | 1.31       | 1.35      |
| Z | Forks lift height - max                                    | m  | 2.61       | 2.65      |
|   | Fork spacing - min                                         | m  | 0.2        | 0.2       |
|   | Fork spacing - max                                         | m  | 1.04       | 1.04      |
|   | SWL @ 500mm load centres - Fixed dipper                    | kg | 466        | 440       |
|   | SWL @ 500mm load centres - extending dipper                | kg | 513        | 454       |
|   | Payload rating as a percentage of tipping load ISO 14397-1 | %  | 50%        | 50%       |



| Loader Attachments – Direct Mount |              |               |
|-----------------------------------|--------------|---------------|
|                                   | GP shovel    | 6-in-1 shovel |
|                                   | Capacity SAE | Capacity SAE  |
| Width mm                          | Rated m³     | Rated m³      |
| 1580                              | 0.32         | 0.31          |

| Noise & Vibration Levels |                                                                                                                                                             |     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Internal                 | dB(A)                                                                                                                                                       | 82  |
| External                 | dB(A)                                                                                                                                                       | 101 |
| Vibration*               | Hand arm vibration does not exceed 2.5m/s² for all duties with the exception of rough road tracking which averages 3.4m/s²<br>Whole body vibration 0.29m/s² |     |

\*Calculated on ICX cab machine.

| Ditching Buckets |              |           |        |
|------------------|--------------|-----------|--------|
|                  | Capacity SAE |           | Weight |
|                  | Rated m³     | Struck m³ | kg     |
| Width 1000mm     | 0.12         | 0.10      | 52     |

| Backhoe Attachments – Standard Profile Bucket                     |              |           |                  |       |
|-------------------------------------------------------------------|--------------|-----------|------------------|-------|
| Width (Including sidecutters. Width less sidecutters deduct 25mm) | Capacity SAE |           | Weight (+ Teeth) |       |
| mm                                                                | Rated m³     | Struck m³ | kg               | Teeth |
| 230                                                               | 0.03         | 0.02      | 51               | 2     |
| 305                                                               | 0.04         | 0.04      | 52               | 3     |
| 460                                                               | 0.06         | 0.05      | 54               | 3     |
| 610                                                               | 0.08         | 0.06      | 57               | 4     |

| Standard Features - Cab and Canopy |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| Controls                           | EasyControl in Servo SAE/ISO or Switchable SAE/ISO                              |
| Machine features                   | Road lights, exterior mirrors, LED work lights                                  |
| Attachments                        | Skid-steer loader manual hitch, front 45 litres/min loader auxiliary, sideshift |
| Performance                        | Self-levelling loader                                                           |
| Servicing                          | LiveLink                                                                        |

| Optional Accessories        |                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| Tyres                       | Tyre size 10 x 16.5 Solideal 12 PLY                                                                               |
| Controls                    | ISO+ pattern excavator controls, SAE+ pattern excavator controls                                                  |
| Machine features            | Fully glazed ROPS/FOPS cab, face level fan                                                                        |
| Machine and site protection | Flashing beacon, reverse alarm, stabiliser street pads, front screen guard                                        |
| Attachments                 | Front shovel float, excavator bucket quickhitch, hammer/bi-directional auxilliary circuit, pallet forks and frame |





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