**Features**

- Short-tail machine
- Extra-wide blade for dozer applications
- Top-mounted boom cylinders for perfect protection of cylinders and larger range of application
- Comfort cab with perfect all-round visibility
- Increased productivity thanks to load sensing hydraulics
- Knickmatik® allows for working closely alongside walls
- Wide range of proven working tools

**Specifications**

- **Operating weight**: 2925 kg
- **Engine power**: 17.5 kW (24 HP)
- **Bucket capacity**: 38-110 l
- **Dig depth**: 2.8 / 3.0 m
- **Reach**: 4.8 / 5.0 m
**ENGINE**

Manufacturer, model: Mitsubishi, S4L-W462KL

- 0.36 m³
- 0.51 m³
- 210 bar
- 0.75 m³
- 0.52 m³
- 0.56 m³
- 0.78 m³
- 1300 mm
- 4700 mm
- 3.5 m
- 21,300 N

- Side
- End
- 1400 mm
- Side
- 0.37 m³
- 0.53 m³
- 0.38 m³
- Side
- 0.62 m³
- 0.67 m³
- 0.68 m³
- -
- 0.98 m³
- 0.39 m³
- 0.43 m³
- Side
- 1.04 m³
- 1.01 m³
- Side
- 1.41 m³
- 1.04 m³
- 0.67 m³
- 0.61 m³
- 0.51 m³
- 0.44 m³
- 0.38 m³
- 0.31 m³
- 0.30 m³
- 0.29 m³
- 0.28 m³
- 0.27 m³
- 0.26 m³
- 0.25 m³
- 0.24 m³
- 0.23 m³
- 0.22 m³
- 0.21 m³
- 0.20 m³
- 0.19 m³
- 0.18 m³
- 0.17 m³
- 0.16 m³
- 0.15 m³
- 0.14 m³
- 0.13 m³
- 0.12 m³
- 0.11 m³
- 0.10 m³
- 0.09 m³
- 0.08 m³
- 0.07 m³
- 0.06 m³
- 0.05 m³
- 0.04 m³
- 0.03 m³
- 0.02 m³
- 0.01 m³
- 0.00 m³

**TRANSMISSION**


- 2 speed ranges
- Towed speed, forward and reverse 0.2-1.6 km/h
- Disengagement max. 60 %
- Disengagement 3rd/4th 2nd speed range 2000/1500 Nm

**UNDERCARRIAGE**

Maintenance-free crawler type undercarriage. Full suspension with hydraulic crawler track tensioning.

- With metal tracks / steel crawler 300 mm
- Tread width 1100 mm
- Total length (equipment) 1300 mm
- Total length (undercarriage) 1800 mm

**DOZER BLADE**

Dozer blades available in "standard" and "extra-long" versions, independent of drive travel, sensitive control via hand levers.

- Width of blade (standard / extra-long) 1600 x 235 mm
- Dozer base in front 320 / 206 mm
- Dozer base in rear 206 x 406 mm
- Simple balance 9° / 8°

**STEERING**

Independent, individual control of crawler chains, also counterclockwise. Sensitive control via hand levers combined with hill speed. Pedal control serves as keeps right.

**SWING SYSTEM**

Hydraulically actuated, also acts as a rear stabilizer. Additional spring-loaded multi-disc brakes. Internally buffered ring gear.

Swing speed 0.5-5 rpm

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**HYDRAULIC SYSTEM**

Pump capacity max. 90 litres/min

Working pressure 210 bar

Working hydraulics: LS-axial-piston variable displacement pump, load sensing and load-independent fraction (VSD) for all work functions and travel drive. Simultaneous independent control of all movements.

Tank-included return filter with electrical contamination indicator, full flow filters. Hydraulic fluid temperature as standard.

Boom, dipperstick and articulated cylinders with end-positioning damping on both sides, bucket extends function with one-side end-position damping.

Output pressure as standard. All functions can be activated proportionally. Two-speed-controlled joystick controls for excavator operations. Shift-off of all functions when operator removes from machine.

Central control for work attachments (standard): Display shows P/Q provided on couplers

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**ELECTRICAL SYSTEM**

- Nominal voltage 12 V
- Battery 12 V / 17 Ah
- Generator 12 V / 30 A
- Starter 12 V / 2.0 kW

**OPERATING DATA, STANDARD EQUIPMENT**

Total weight (incl. bucket) 3805 kg

Operating weight acc. to ISO 6981 (incl. operator) 2825 kg

Total length (travel position) 2960 mm

Total length (loader transport position) 4700 mm

Total height (travel position) 3800 mm

Total weight 1480 mm

Uppercarriage (towing) 1300 mm

Uppercarriage (traveling) 1820 mm

Marking envelope 180° / 360° 3020 / 3500 mm

Emilain clearance 370 mm

Rudder digging force (ISO 6913) 31,300 N

Stick digging force (ISO 6913) 13,000 (11,900) N

Emilain pressure (rubber crawlers) 5200 N

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**DIMENSIONS**

- Width x height (standard / extra-long) 1410 x 325 mm
- Total length (undercarriage) 1830 mm
- Total length (sprocket - idler) 1390 mm
- Tread width 1100 mm
- Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler track tensioning.

**LIFTING CAPACITIES**

- Bucket hinge height
- Capacity in standard mm
- Lift range in working position mm
- Load range in center of rig gear mm
- Load range in side position mm

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All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket. In case of removable work attachments, the deadweights of the work attachments must be deducted from the permissible operating loads.

**CAB**

- Spacious, sound-insulated full-vision steel cab, FOPS** (acc. to ISO 3449) and TOPS (acc. to ISO 12117) certified. Two adequately large doors. Safety glass windows, thermo windows fitted in green. Skylight, thermo window, bracing trussed. Parachute rescue window. Front window supported by pneumatic springs, lockable for ventilation and inlet used under cab roof. Windshield wiper system. Storage compartment. Preparation for radio installation. Left-hand outside rear-view mirror.

- Fabric-cushioned operator's seat FSP010 with lap belt.

- Cab heating with windshield defroster through coolant heat exchanger and 2-speed fan, ventilating mode for ventilation and slidable under cab roof. Windshield washer system. Storage compartment. Preparation for radio installation. Left-hand outside rear-view mirror.

- Fabric-cushioned operator's seat FSP010 with lap belt.

- Instrument panel on the right hand side of the operator's seat with visual & acoustic warning device, hour-meter, instrument cluster with large fuel gauge.

- Cab heating with windshield defroster through coolant heat exchanger and 2-speed fan, ventilating mode for ventilation and slidable under cab roof. Windshield washer system. Storage compartment. Preparation for radio installation. Left-hand outside rear-view mirror.

- Fabric-cushioned operator's seat FSP010 with lap belt.

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**FLUID CAPACITIES**

- Fuel tank 52 l
- Hydraulic system (incl. tank 72 l) 85 l

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**KNICKMATIK®**

- Lateral parallel adjustment of boom arrangement full dig depth.
- Angle of articulation / lateral adjustment left 60° / 445 mm
- Angle of articulation / lateral adjustment right 97° / 595 mm

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**SPECIFICATIONS**

- Engine: Mitsubishi, S4L-W462KL
- Undercarriage: Maintenance-free crawler type undercarriage. Full suspension with hydraulic crawler track tensioning.
- Dozer blade: Available in "standard" and "extra-long" versions, independent of drive travel, sensitive control via hand levers.
- Steering: Independent, individual control of crawler chains, also counterclockwise. Sensitive control via hand levers combined with hill speed. Pedal control serves as keeps right.
- Swing system: Hydraulically actuated, also acts as a rear stabilizer. Additional spring-loaded multi-disc brakes. Internally buffered ring gear.
- Electrical system: Nominal voltage 12 V, battery 12 V / 17 Ah, generator 12 V / 30 A, starter 12 V / 2.0 kW.
- Operating data: Total weight (incl. bucket) 3805 kg, operating weight acc. to ISO 6981 (incl. operator) 2825 kg, total length (travel position) 2960 mm, total length (loader transport position) 4700 mm, total height (travel position) 3800 mm, total weight 1480 mm, uppercarriage (towing) 1300 mm, uppercarriage (traveling) 1820 mm.
- Lifting capacities: Bucket hinge height, capacity in standard mm, lift range in working position mm, load range in center of rig gear mm, load range in side position mm.
- Cab: Spacious, sound-insulated full-vision steel cab, FOPS** (acc. to ISO 3449) and TOPS (acc. to ISO 12117) certified. Two adequately large doors. Safety glass windows, thermo windows fitted in green. Skylight, thermo window, bracing trussed. Parachute rescue window. Front window supported by pneumatic springs, lockable for ventilation and inlet used under cab roof. Windshield wiper system. Storage compartment. Preparation for radio installation. Left-hand outside rear-view mirror.

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**WORKING RANGES & DIMENSIONS: MONOBLOC BOOM**

Diagram shows P/Q provided on couplers

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**Abbreviations:**
- S = Supported by blade, T = Traveling

*With dipperstick 1550 mm (optional)

**FOPS-approved only with skylight guard (optional)**
WORK ATTACHMENTS

BUCKETS

| Bucket, QAS | 250 mm wide, capacity 33 l |
| Bucket, QAS | 300 mm wide, capacity 41 l |
| Bucket, QAS | 400 mm wide, capacity 60 l |
| Bucket, QAS | 500 mm wide, capacity 80 l |
| Bucket, QAS | 600 mm wide, capacity 99 l |
| Ditch-cleaning bucket, QAS | 1000 mm wide, capacity 91 l |
| Ditch-cleaning bucket, QAS | 1200 mm wide, capacity 110 l |
| Swing bucket, QAS | 1000 mm wide, capacity 91 l |

GRABS

| Clamshell grab GL 1250, grab swing brake | set of shells 250 mm wide, capacity 45 l |
| Clamshell grab GL 1350, grab swing brake | set of shells 350 mm wide, capacity 65 l |
| Clamshell grab GL 1450, grab swing brake | set of shells 450 mm wide, capacity 85 l |

OTHER WORK ATTACHMENTS

| Hydraulic hammer | Cutting unit |
| Auger | Quick-change adapter for hydraulic hammer |
| Belt-on load hook for bucket rod | Further work attachments available on request |

OPTIONAL EQUIPMENT

BUCKETS

| Bucket, QAS | 250 mm wide, capacity 33 l |
| Bucket, QAS | 300 mm wide, capacity 41 l |
| Bucket, QAS | 400 mm wide, capacity 60 l |
| Bucket, QAS | 500 mm wide, capacity 80 l |
| Bucket, QAS | 600 mm wide, capacity 99 l |
| Ditch-cleaning bucket, QAS | 1000 mm wide, capacity 91 l |
| Ditch-cleaning bucket, QAS | 1200 mm wide, capacity 110 l |
| Swing bucket, QAS | 1000 mm wide, capacity 91 l |

GRABS

| Clamshell grab GL 1250, grab swing brake | set of shells 250 mm wide, capacity 45 l |
| Clamshell grab GL 1350, grab swing brake | set of shells 350 mm wide, capacity 65 l |
| Clamshell grab GL 1450, grab swing brake | set of shells 450 mm wide, capacity 85 l |

OTHER WORK ATTACHMENTS

| Hydraulic hammer | Cutting unit |
| Auger | Quick-change adapter for hydraulic hammer |
| Belt-on load hook for bucket rod | Further work attachments available on request |

BOOM OPTIONS

| Monobloc boom, with extended dipperstick 1550 mm |
| Steel crawler track, 300 mm wide |

HYDRAULIC SYSTEM

Schaeff 'Fingertip' control (electro proportional) for additional control circuit for work attachments on right joystick, actuation via rollers
Hose-rupture / load-retaining valve for boom with load warning device
Hose-rupture / load-retaining valve for dipperstick
Float position - front dozer blade

SCHAEFF 'Fingertip' control (electro proportional) incl. second additional control circuit on left joystick, actuation via rollers
Second additional control circuit (e.g. for sorting grab), foot pedal
Biodegradable hydraulic oil / ester-based HLP 68 (Penolin)

CAB

| Rain guard | FOPS - skylight guard |
| Cab-mounted working floodlight, front right | Cab-mounted working floodlight, rear right |
| Boom-mounted working floodlight | Radio set installation kit |
| Anti-theft device, coded key (immobilizer) | Electronic immobilizer, keypad operation |
| Yellow beacon | Motion alarm incl. horn (to be deactivated on demand) |

OTHER OPTIONAL EQUIPMENT

| Mechanical quick-attach system (QAS) | Front dozer blade - extra-long version |
| Quick-attach system, mechanical (genuine Lehnhoff system), type MS03 | Canopy with working floodlight (weight reduction: 80 kg) |
| Crane loading wire-rope harness | Special coating / adhesive films |
| Further optional equipment available on request |

DRIVER’S STAND

| Fabric-covered operator’s seat MSG 20 (standard version), lap belt, adjustable driver’s weight |
| Operator’s seat MSG 85 (comfort version), hydraulic damping, extra-high backrest, tilt-adjustable armrests, longitudinal-horizontal suspension, mechanical lumbar support |

SCHAEFF A YANMAR BRAND

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