

RASHA

Exclusive Representative Of Tractor Exporters

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1500



| PERFORMANCE | |
|---|-----|
| maximum hp (Bs.AU.141.a)@2200 rpm | 150 |
| Maximum torque Nm(Bs.AU.141.a)@1400 rpm | 650 |
| Max. power available hp@PTO shaft | 138 |

| ENGINE | |
|---------------------|------------------------------------|
| Model | MT660A - 150AD |
| Type | Diesel, Direct injection |
| Number of cylinders | 6 |
| Aspiration | Turbocharged |
| Bore | 100 mm |
| Stroke | 127 mm |
| Capacity | 3.984 litre |
| Compression Ratio | 17.5:1 |
| Starting aid | Thermostart |
| Cooling system | Water |
| Air cleaner | Dry, dual element with pre-cleaner |
| Fuel filter | Parallel Dual, with sedimentor |
| Exhaust | Vertical |

| ELECTRICAL SYSTEM | |
|-------------------|--|
| Voltage | 12 v , Negative earth |
| Battery | Dual battery 66 A.H |
| Alternator | 75 A |
| Starter | 3 Kw |
| Lights | Head, Position, Cabin, Number plate, brake and Rear plough |
| Other equipment | Horn, Trailer 7-pin plug and Digitaly panel |

| CLUTCH | |
|----------------|---------------------|
| Type | Double split torque |
| Plate diameter | 330 mm |

| TRACK ADJUSTMENT | |
|------------------|----------------|
| Front | 1900 - 2080 mm |
| Rear | 1728 - 2066 mm |

| TRANSMISSION | |
|--------------|----------|
| Type | ZF T3500 |

| POWER TAKE OFF | |
|-------------------|---|
| Type | Independent, hydraulic shiftable with lever |
| P.T.O speed | 540/1000 rpm at 2160/2140 rpm engine speed |
| Number of splines | 6/21 for 540 rpm / 1000 rpm |
| Shaft diameter | 35 mm |

| HYDRAULICS | |
|---------------------|---|
| Three Point linkage | Category2, Quick coupling |
| Accessories | Electrohydraulic draft, position and response control |
| Max. lift capacity | 5500 Kg@ lower links are horizontal |
| Hydraulic pump | Gear pump |
| Max. delivery | 45 lpm |
| Max. pressure | 220 bar |

| AUXILIARY HYDRAULIC | |
|---------------------|----------------------------------|
| Pump type | Engine mounted tandem gear pump |
| Max. delivery | 45 lpm @ 220 bar |
| Combined flow | 60 lpm |
| Spool valve | 1 valve (2 spools, 3 positions) |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| FRONT AXLE | |
|---------------|----------|
| Type | Carraro |
| Diff. lock | Autolock |
| Turning angle | 55° |

| BRAKES | |
|-------------------|--|
| Type | Oil immersed, Wet brakes |
| Function | Hydraulic, Independent or both wheels together |
| Plates diameter | 222.4 mm |
| Parking brake | Mechanical, Hand lever |
| Differential lock | Mechanical |

| TIRES | |
|------------------|-----------|
| Front | 16.9 - 26 |
| Rear (Disk type) | 20.8 - 38 |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| With full fuel, oil, water and front weights | |
| Weight on front axle | 2600 kg |
| Weight on rear axle | 3830 kg |
| Total Weight | 6430 kg |
| Length (Lower links are horizontal) | 5100 mm |
| Width | 2080 mm |
| Height(Over of Cabin) | 3100 mm |
| Height (Over of steering wheel) | 2310 mm |
| wheel base | 2920 mm |
| Turning radius (with braking) | 5700 mm |
| Height over ground (Drawbar beneath) | 490 mm |

| CAPACITIES | |
|------------------|-------------|
| Fuel tank | 380 litre |
| Hydraulic system | 56-60 litre |
| Engine sump | 15.3 litre |
| Cooling system | 30 litre |

| OTHER EQUIPMENT | |
|--|--|
| Drawbar | |
| Hydraulic quick couplers | |
| Toolkit | |
| Rear wheels weights | |
| Front weights | |
| Cabin with heating, air conditioning systems and radio | |
| Remote position control buttons | |

399

4WD



| PERFORMANCE | |
|---------------------------------|---|
| Rated engine power@2200 rev/min | 110 hp |
| Max engine torque@1200 rev/min | 444 N.m |
| Max P.T.O power | 95 hp |
| ELECTRICS | |
| Voltage | 12v, negative earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear work lights |
| Other | Horn - 7 pin trailer socket |
| CLUTCH | |
| Type | Split torque |
| Diameter | 330 mm(13 in) dia. |
| Material | Cerametalic |

| ENGINE | |
|---------------------|---------------------------------|
| Type | MN660A - 110AD |
| Number of cylinders | 6 |
| Injection | Diesel, Direct injection |
| Bore | 100 mm (3.937 in) |
| Stroke | 127.0 mm (5.0 in) |
| Capacity | 6 litre (365 in ³) |
| Compression Ratio | 16.5:1 |
| Starting Aid | Thermostart |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Dual, dry element |
| Air Pre-cleaner | Element Over-bonnet Centrifugal |
| Fuel filter | Dual, high capacity |
| Exhaust | Vertical |

| TRACK ADJUSTMENT | |
|------------------|-----------------|
| Front | 1769 mm-2093 mm |
| Rear - pressed | 1525 mm-2235 mm |

| TRANSMISSION | | | |
|--|---|------------|---------------|
| synchromesh 12 forward , 4 reverse manual change | | | |
| Road speeds-at rated engine speed, 16.9/15 - 38 | | | |
| Rear tires, mile/h.(Km/h) | | | |
| Forward | 1 | 1.3(2.1) | 7 5.4(8.7) |
| | 2 | 1.7(2.7) | 8 6.8(11.0) |
| | 3 | 2.0(3.2) | 9 8.0(13.0) |
| | 4 | 2.5(4.0) | 10 10.2(16.5) |
| | 5 | 3.6(5.8) | 11 14.8(23.8) |
| | 6 | 4.6(7.4) | 12 18.8(30.2) |
| Reverse | 1 | 2.0(3.2) | |
| | 2 | 2.5(4.0) | |
| | 3 | 8.1(13.0) | |
| | 4 | 10.2(16.5) | |

| POWER TAKE OFF | |
|-------------------------|---|
| Operation | Independent, hydraulic and shiftable P.T.O system |
| I.P.T.O speeds | 540 rev/min @ 1900 - engine rev/min |
| | 1000 rev/min @ 2000 - engine rev/min |
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines (rev/min) | 6(540),21(1000) |

| HYDRAULICS | |
|--|--|
| Function | Draft control , position control Response control |
| Max pressure | 231 bar |
| Max. lift capacity at lower links are horizontal | 3678 kg |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| INSTRUMENTATION | |
|-----------------|--|
| Gauges | Tachometer/hourmeter,Fuel, water temperature |
| Warning lights | Direction indicators electric charge Head light main beam, Diff lock engaged, Hand brake, low fuel, low engine oil pressure Engine air cleaner blockage , Transmission oil filter blockage , 4WD engaged |

| AUXILIARY HYDRAULIC | |
|-----------------------------------|--|
| Pump location | Engine mounted |
| Pump type | Tandum gear Pump |
| Max oil flow | 35 litre / min @ 175 bar (2500 lbf/in ²) |
| Combined flow with high flow pump | 63 litre/min |
| Control | selector valve |
| Spool valves | 2 spools, 3 positions |

| BRAKES | |
|---------------|------------------------------|
| Type | Multi disc oil immersed |
| No.of plates | 4 friction 2 steel each side |
| Diameter | 222.4 mm |
| Operation | Hydraulic independent |
| Parking brake | Mechanical , Hand lever |

| WHEELS AND TYRES | |
|------------------|-----------------|
| Front | 14.9 - 24 6 ply |
| Rear | 18.4- 34 8 ply |

| OPERATOR ENVIRONMENT | |
|----------------------|--------------------------|
| Seat | Spring suspension system |
| Fenders | Flat top |
| Tool box | With set of tools |

| WEIGHTS AND DIMENSIONS | |
|---|---------|
| weight with full fuel, oil and water, front weights | |
| Weight | |
| - front | 1680 kg |
| - Rear | 2030 kg |
| - Total | 3890 kg |
| Overall length | 4330 mm |
| Width - minimum | 1970 mm |
| Height - over of ROPS | 2630 mm |
| - over of steering wheel | 1910 mm |
| wheel base | 2640 mm |
| Turning radius Without braking | 9410 mm |
| Ground clearance | |
| - Under drawbar | 430 mm |
| - Under front axle | 490 mm |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 126 litre |
| Engine sump | 15.4 litre |
| Cooling system | 23 litre |
| Hydraulic system | 47.4 litre |

| OTHER EQUIPMENT | |
|--|--|
| Drawbar with heavy - trailer hitch Hydraulic quick couplers Hydraulic valve for implements Rear wheels(Disk type) weights Toolkit Front weights Roll-over protective structure(ROPS) | |

| OPTIONS | |
|--|--|
| Falling object protection (FOP) Cabin | |

399

2WD



| PERFORMANCE | |
|---------------------------------|---|
| Rated engine power@2200 rev/min | 110 hp |
| Max engine torque@1200 rev/min | 444 N.m |
| Max P.T.O power | 95 hp |
| ELECTRICS | |
| Voltage | 12v, negative earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear work lights |
| Other | Horn - 7 pin trailer socket |
| CLUTCH | |
| Type | Split torque |
| Diameter | 330 mm(13 in) dia. |
| Material | cerametalic |

| ENGINE | |
|---------------------|---------------------------------|
| Type | MN660 A - 110 AD |
| Number of cylinders | 6 |
| Injection | Diesel, Direct injection |
| Bore | 100 mm (3.937 in) |
| Stroke | 127.0 mm (5.0 in) |
| Capacity | 6 litre (365 in³) |
| Compression Ratio | 16.5:1 |
| Starting Aid | Thermostart |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Dry, dual element |
| Air Pre-cleaner | Element Over-bonnet centrifugal |
| Fuel filter | Dual, high capacity |
| Exhaust | Vertical |

| TRACK ADJUSTMENT | |
|------------------|-----------------|
| Front | 1370 mm-1980 mm |
| Rear - pressed | 1525 mm-2235 mm |

| TRANSMISSION | |
|--------------|--|
| Synchro | 12 forward , 4 reverse synchromesh, manual change |

| | | | | |
|---|---|----------|----|------------|
| Road speeds-at rated engine speed, 16.9/15 - 38 | | | | |
| Rear tires, mile/h.(Km/h) | | | | |
| Forward | 1 | 1.3(2.1) | 7 | 5.4(8.7) |
| | 2 | 1.7(2.7) | 8 | 6.8(11.0) |
| | 3 | 2.0(3.2) | 9 | 8.0(13.0) |
| | 4 | 2.5(4.0) | 10 | 10.2(16.5) |
| | 5 | 3.6(5.8) | 11 | 14.8(23.8) |
| | 6 | 4.6(7.4) | 12 | 18.8(30.2) |
| Reverse | | | 1 | 2.0(3.2) |
| | | | 2 | 2.5(4.0) |
| | | | 3 | 8.1(13.0) |
| | | | 4 | 10.2(16.5) |

| POWER TAKE OFF | |
|-------------------------|---|
| Operation | Independent, hydraulic and shiftable P.T.O system |
| I.P.T.O speeds | 540 rev/min @ 1900 - engine rev/min |
| | 1000 rev/min @ 2000 - engine rev/min |
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines (rev/min) | 6(540),21(1000) |

| HYDRAULICS | |
|--------------------|--|
| Function | Draft control , position control Response control |
| Max pressure | 231 bar |
| Max. lift capacity | 3678 kg |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| INSTRUMENTATION | |
|-----------------|--|
| Gauges | Tachometer/hourmeter,Fuel, water temperature |
| Warning lights | Direction indicators electric charge Head light main beam, Diff lock engaged, Hand brake, low fuel, low engine oil pressure Engine air cleaner blockage , Transmission oil filter blockage, 4WD engaged. |

| AUXILIARY HYDRAULIC | |
|-----------------------------------|-------------------------------------|
| Pump location | Engine mounted |
| Pump type | Tandum Pump |
| Max oil flow | 35 litre/min 175 bar (2500 lbf/in²) |
| Combined flow with high flow pump | 63 litre/min |
| Control | selector valve |
| Spool valves | 2 spools - 3 positions |

| BRAKES | |
|---------------|------------------------------|
| Type | Multi disc oil immersed |
| No.of plates | 4 friction 2 steel each side |
| Diameter | 222.4 mm |
| Operation | Hydraulic independent |
| Parking brake | Mechanical , Hand lever |

| WHEELS AND TIRES | | | |
|------------------|----------|-------|---------|
| Front | 7.50-18 | 8 ply | pressed |
| Rear | 18.4- 34 | 8 ply | pressed |

| OPERATOR ENVIRONMENT | |
|----------------------|--------------------------|
| Seat | Spring suspension system |
| Fenders | Flat top |
| Tool box | With set of tools |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| with full fuel, oil and water, front weights | |
| Weight | |
| - front | 1620 kg |
| - rear | 1990 kg |
| - Total | 3610 kg |
| Overall length | 4330 mm |
| Width - minimum | 1970 mm |
| Height - over of ROPS | 2630 mm |
| - over steering wheel | 1910 mm |
| wheel base | 2580 mm |
| Turning radius Without braking | 8430 mm |
| Ground clearance | |
| - Under drawbar | 430 mm |
| - Under front axle | 580 mm |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 126 litre |
| Engine sump | 15.4 litre |
| Cooling system | 23 litre |
| Hydraulic system | 47.4 litre |

| OTHER EQUIPMENT | |
|--|--|
| Drawbar with heavy – trailer hitch Hydraulic quick couplers Hydraulic valve for implements Rear wheels(Disk type) weights Toolkit Front weights ROPS | |

| OPTIONS | |
|--|--|
| Falling object protection (FOP) Cabin | |

800
4WD



| PERFORMANCE | |
|---------------------------------------|---------|
| Rated engine power at 2000 rpm | 82 hp |
| Max. engine torque at 1400 engine rpm | 360 N.m |
| Max. P.T.O. Power | 72 hp |

| ENGINE | |
|---------------------|-----------------------------------|
| Type | Turbocharge - MT440 C - 82 AD |
| Number of cylinders | 4 |
| Injection | Direct |
| Bore | 100 mm(3.937 in) |
| Stroke | 127.0 mm(5.0 in) |
| Capacity | 3.99 litre |
| Compression Ratio | 17.5:1 |
| Pollution standard | ECE R96, R24 - Stage II |
| Air inlet system | Turbocharge |
| Starting Aid | Thermostart |
| Thrott control | Hand/foot control |
| Cooling system | Water |
| Air cleaner | Dual,dry element with pre-cleaner |
| Fuel filter | High capacity,with sediment bowl |
| Exhaust | Vertical |

| ELECTRICS | |
|-----------|--|
| Voltage | 12 , negative ground |
| Starter | 2.8 KW |
| Lights | Head, Side, Brake, Rear and turn signals |

| CLUTCH | |
|----------|---------------|
| Type | split torque |
| Diameter | 305 mm(12 in) |

| TRANSMISSION | |
|--------------|-------------------------------|
| Synchromesh | 12 forward, 4 reverse, Manual |

| POWER TAKE OFF | |
|------------------------------------|---------------------------------------|
| Type | Independent, hydraulic and changeable |
| Engine speed at 540 / 1000 PTO rpm | 1900 / 2000 rpm |
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines | 6(540 rpm),21(1000 rpm) |

| HYDRAULICS | |
|---|---|
| Function | Draft, position and response control by central sensitive arm |
| Max lift capacity at lower links horizontal | 2227 Kg |
| Max flow pump | 27.6 Liter/ min |

| STEERING | |
|--------------------|----------------|
| Type | Hydrostatic |
| Pump position | Engine-mounted |
| Max. Turning angel | 55 degrees |

| EQUIPMENT | |
|--|--|
| Oil Pressure Switch, air Filter Blockage Switch, Starting Safety Switch, Differential Lock | |

| AUXILIARY HYDRAULIC | |
|-------------------------------|------------------------------------|
| Pump type | Engine mounted tandem gear pump |
| Max pump flow at 175 bar | 35 litre/min |
| Total flow (main & aux.pumps) | 63 litre/min |
| Control | selector valve |
| Spool valve | 1 valve with 2 spools(3 positions) |

| BRAKES | |
|---------------|------------------------------|
| Type | oil immersed |
| No.of disks | 5 friction 3 steel each side |
| Diameter | 222.4 mm |
| Function | Hydraulic |
| Parking brake | Mechanical , Hand lever |

| WHEELS AND TIRES | |
|------------------|------------------------|
| Front | 12.4 / 24 , 6 ply |
| Rear | 18.4 / 15 - 30 , 6 ply |

| OPERATOR ENVIRONMENT | |
|----------------------|--------------------------|
| Seat | Spring suspension system |
| Fenders | Flat top |
| Tool box | With set of tools |

| WEIGHTS AND DIMENSIONS WITH FULL FUEL OIL AND WATER | |
|---|---------|
| Weight front axle | 1710 kg |
| Weight rear axle | 1770 kg |
| Total | 3480 kg |
| Overall length | 4190 mm |
| Width | 2060 mm |
| Height(Over of ROPS) | 2520 mm |
| Height Over steering, wheel | 1850 mm |
| wheel base | 2290 mm |
| Turning radius(without braking) | 7740 mm |
| Ground clearance (Under drawbar) | 380 mm |

| CAPACITIES | |
|------------------------|-----------|
| Fuel tank | 126 litre |
| Engine sump | 8 litre |
| Cooling system (water) | 18 litre |
| Hydraulic system | 45 litre |

| OTHER EQUIPMENT | |
|----------------------------------|--|
| Drawbar with heavy trailer hitch | |
| Rear wheels (Disk type) weights | |
| Front weights | |
| Trailer hydraulic pipe | |

| OPTIONS | |
|---------------------------------|----------------|
| Falling object protection (FOP) | |
| Cabin | |
| Rear wheel | 13.6 / 12 - 38 |

RASHA

Exclusive Representative Of Tractor Exporters



800
2WD



| PERFORMANCE | |
|---------------------------------------|---------|
| Rated engine power at 2000 rpm | 82 hp |
| Max. engine torque at 1400 engine rpm | 360 N.m |
| Max. P.T.O. Power | 72 hp |

| ENGINE | |
|---------------------|-----------------------------------|
| Type | Turbocharge - MT440 C - 82 AD |
| Number of cylinders | 4 |
| Injection | Direct |
| Bore | 100 mm(3.937 in) |
| Stroke | 127.0 mm(5.0 in) |
| Capacity | 3.99 litre |
| Compression Ratio | 17.5:1 |
| Pollution standard | ECE R96, R24 - Stage II |
| Air inlet system | Turbocharge |
| Starting Aid | Thermostart |
| Throttle control | Hand/foot control |
| Cooling system | Water |
| Air cleaner | Dual,dry element with pre-cleaner |
| Fuel filter | High capacity,with sediment bowl |
| Exhaust | Vertical |

| ELECTRICS | |
|-----------|--|
| Voltage | 12 , negative ground |
| Starter | 2.8 KW |
| Lights | Head, Side, Brake, Rear and turn signals |

| CLUTCH | |
|----------|---------------|
| Type | split torque |
| Diameter | 305 mm(12 in) |

| TRANSMISSION | |
|--------------|-------------------------------|
| Synchromesh | 12 forward, 4 reverse, Manual |

| POWER TAKE OFF | |
|------------------------------------|---------------------------------------|
| Type | Independent, hydraulic and changeable |
| Engine speed at 540 / 1000 PTO rpm | 1900 / 2000 rpm |
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines | 6(540 rpm),21(1000 rpm) |

| HYDRAULICS | |
|---|---|
| Function | Draft, position and response control by central sensitive arm |
| Max lift capacity at lower links horizontal | 2227 Kg |
| Max flow pump | 27.6 liter / min |

| STEERING | |
|----------|---------------------------------|
| Type | Hydrostatic |
| Pump | Engine-mounted Tandum gear pump |

| EQUIPMENT | |
|--|--|
| Oil Pressure Switch, air Filter Blockage Switch, Starting Safety Switch, Differential Lock | |

| AUXILIARY HYDRAULIC | |
|-------------------------------|------------------------------------|
| Pump type | Engine mounted tandem gear pump |
| Max pump flow at 175 bar | 35 litre/min |
| Total flow (main & aux.pumps) | 63 litre/min |
| Control | selector valve |
| Spool valve | 1 valve with 2 spools(3 positions) |

| BRAKES | |
|---------------|------------------------------|
| Type | oil immersed |
| No.of disks | 5 friction 3 steel each side |
| Diameter | 222.4 mm |
| Function | Hydraulic |
| Parking brake | Mechanical , Hand lever |

| WHEELS AND TIRES | |
|------------------|------------------------|
| Front | 7.5 / 16 , 6 ply |
| Rear | 18.4 / 15 - 30 , 6 ply |

| OPERATOR ENVIRONMENT | |
|----------------------|--------------------------|
| Seat | Spring suspension system |
| Fenders | Flat top |
| Tool box | With set of tools |

| WEIGHTS AND DIMENSIONS WITH FULL FUEL OIL AND WATER | |
|---|---------|
| Weight front axle | 1500 kg |
| Weight rear axle | 1770 kg |
| Total | 3270 kg |
| Overall length | 4190 mm |
| Width | 2060 mm |
| Height(Over of ROPS) | 2520 mm |
| Height Over steering, wheel | 1850 mm |
| wheel base | 2290 mm |
| Turning radius(without braking) | 6940 mm |
| Ground clearance (Under drawbar) | 380 mm |

| CAPACITIES | |
|------------------------|-----------|
| Fuel tank | 126 litre |
| Engine sump | 8 litre |
| Cooling system (water) | 18 litre |
| Hydraulic system | 45 litre |

| OTHER EQUIPMENT | |
|----------------------------------|--|
| Drawbar with heavy trailer hitch | |
| Rear wheels (Disk type) weights | |
| Front weights | |
| Trailer hydraulic pipe | |

| OPTIONS | |
|---------------------------------|----------------|
| Falling object protection (FOP) | |
| Cabin | |
| Rear wheel | 13.6 / 12 - 38 |

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4WD



| PERFORMANCE | |
|---------------------------------|---------|
| Rated engine power@2000 rev/min | 82 hp |
| Max engine torque@1400 rev/min | 360 N.m |

| ENGINE | |
|---------------------|---------------------------------------|
| Type | MT 440C - 82AD |
| Aspiration | Turbocharged |
| Number of cylinders | 4 |
| Injection | Direct |
| Bore | 100 mm(3.976 in) |
| Stroke | 127.0 mm(5.0 in) |
| Capacity | 3.99 litre(247.7 in ³) |
| Compression Ratio | 17.5:1 |
| Starting Aid | Thermostart |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Dual,dry element |
| Fuel filter | Single, high capacity with sedimentor |
| Exhaust | Vertical |

| ELECTRICS | |
|----------------------|---|
| Alternator / Starter | 45 Amp / 2.8 KW |
| Battery | Dual Battery 66 A.H |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear work lights |
| Other | Horn |

| CLUTCH | |
|----------|-------------------------------|
| Type | Dual - Cerametalic |
| Diameter | 305 mm(12 in) dia.cerametalic |

| TRACK ADJUSTMENT | |
|------------------|--------------|
| Front | 1575-1930 mm |
| Rear - pressed | 1422-2134 mm |

| TRANSMISSION | |
|--------------|--|
| Syncho | 12 forward , 4 reverse synchromesh, manual change |

| POWER TAKE OFF | |
|-------------------------|----------------|
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines (rev/min) | 6(540) |

| BRAKES | |
|---------------|------------------------------|
| Type | Multi disc oil immersed |
| No.of plates | 5 Friction, 3 Steel eachside |
| Diameter | 222.4 mm |
| Parking brake | Mechanical , Hand lever |

| HYDRAULICS | |
|---|--|
| Function | Draft control , position control Response control |
| Max oil flow | 16.7 liter /min |
| Max pressure | 214 bar |
| Max lift capacity at lower links are horizontal | 2227 kg(8109 lb) |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| INSTRUMENTATION | |
|-----------------|--|
| Gauges | Tachometer/hourmeter,Fuel, water temperature |
| Warning lights | Direction indicators, electric charge |
| | Head light main beam, Diff lock engaged, Hand brake, low fuel, low engine oil pressure Engine air cleaner blockage, Transmission oil filter blockage, 4WD engaged.. |

| 4WD FRONT AXLE | |
|----------------|------------|
| Axle type | AG 85 |
| Engagement | mechanical |
| Turning deg | 55 |

| WHEELS AND TIRES | |
|------------------|----------------------|
| Front | 12.4 - 24 , 6 ply |
| Rear | 18.4/15 - 30 , 6 ply |

| WEIGHTS AND DIMENSIONS | |
|---|---------|
| Weight (with rear weight and full of fuel, oil and water) | |
| Weight - front axle | 1620 kg |
| - rear axle | 1760 kg |
| - Total | 3380 kg |
| Overall length | 4190 mm |
| Width | 2060 mm |
| Height - over of ROPS | 2520 mm |
| - over steering wheel | 1850 mm |
| wheel base | 2290 mm |
| Turning radius Without braking | 7740 mm |
| Ground clearance under drawbar | 380 mm |

| CAPACITIES | |
|------------------|-----------|
| Fuel tank | 126 litre |
| Engine sump | 8 litre |
| Cooling system | 18 litre |
| Hydraulic system | 43 litre |
| Steering pump | 1.1 litre |

| OTHER EQUIPMENT | |
|---|--|
| Trailer tipping pipe Rigid stabilizers ROPS Hydraulic spool valve kit Delux seat Heavy duty swinging drawbar Front weights Toolkit | |

| OPTIONS | |
|-------------------------------|------------|
| Cabin Sunroof Rear tire | 13.6*12-38 |

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2WD



PERFORMANCE

| | |
|---------------------------------|---------|
| Rated engine power@2000 rev/min | 82 hp |
| Max engine torque@1400 rev/min | 360 N.m |

ENGINE

| | |
|---------------------|---------------------------------------|
| Type | MT 440C - 82AD |
| Aspiration | Turbocharged |
| Number of cylinders | 4 |
| Injection | Direct |
| Bore | 100 mm(3.976 in) |
| Stroke | 127.0 mm(5.0 in) |
| Capacity | 3.99 litre(247.7 in ³) |
| Compression Ratio | 17.5:1 |
| Starting Aid | Thermostart |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Dual,dry element |
| Fuel filter | Single, high capacity with sedimentor |
| Exhaust | Vertical |

ELECTRICS

| | |
|----------------------|---|
| Voltage | 12v,negative earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Battery | Dual Battery 66 A.H |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear work lights |
| Other | Horn |

CLUTCH

| | |
|----------|-------------------------------|
| Type | Dual - Cerametalic |
| Diameter | 305 mm(12 in) dia.cerametalic |

TRACK ADJUSTMENT

| | |
|----------------|--------------|
| Front | 1370-1980 mm |
| Rear - pressed | 1422-2134 mm |

TRANSMISSION

| | |
|--------|--|
| Syncho | 12 forward , 4 reverse synchromesh, manual change |
|--------|--|

POWER TAKE OFF

| | |
|-------------------------|----------------|
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines (rev/min) | 6(540) |

BRAKES

| | |
|---------------|------------------------------|
| Type | Multi disc oil immersed |
| No.of plates | 5 Friction, 3 Steel eachside |
| Diameter | 222.4 mm |
| Parking brake | Mechanical , Hand lever |

HYDRAULICS

| | |
|---|--|
| Function | Draft control , position control Response control, intermix |
| Max oil flow | 16.7 liter /min |
| Max pressure | 214 bar |
| Max lift capacity at lower links are horizontal | 2227 kg(8109 lb) |

STEERING

| | |
|------|-------------|
| Type | Hydrostatic |
|------|-------------|

INSTRUMENTATION

| | |
|----------------|---|
| Gauges | Tachometer/hourmeter,Fuel, water temperature |
| Warning lights | Direction indicators, electric charge |
| | Head light main beam, Diff lock engaged, Hand brake, low fuel, low engine oil pressure Engine air cleaner blockage , Transmission oil filter blockage , 4WD engaged. |

WHEELS AND TIRES

| | |
|-------|----------------------|
| Front | 7.5 - 16 , 6 ply |
| Rear | 18.4/15 - 30 , 6 ply |

WEIGHTS AND DIMENSIONS

| | |
|--|---------|
| Weight(with rear weight and Full of fuel, oil and water) | |
| Weight - front axle | 1420 kg |
| - rear axle | 1720 kg |
| - Total | 3140 kg |
| Overall length | 4190 mm |
| Width | 2060 mm |
| Height - over of ROPS | 2520 mm |
| - over steering wheel | 1850 mm |
| wheel base | 2290 mm |
| Turning radius Without braking | 6940 mm |
| Ground clearance under drawbar | 380 mm |

CAPACITIES

| | |
|------------------|-----------|
| Fuel tank | 126 litre |
| Engine sump | 8 litre |
| Cooling system | 18 litre |
| Hydraulic system | 43 litre |
| Steering pump | 1.1 litre |

OTHER EQUIPMENT

| | |
|-----------------------------|--|
| Trailer tipping pipe | |
| Rigid stabilizers | |
| ROPS | |
| Hydraulic spool valve kit | |
| Delux seat | |
| Heavy duty swinging drawbar | |
| Front weights | |
| Toolkit | |

OPTIONS

| | |
|-----------|------------|
| Cabin | |
| Sunroof | |
| Rear tire | 13.6*12-38 |

475

4WD



| PERFORMANCE | |
|---------------------------------|---------|
| Rated engine power@2000 rev/min | 75 hp |
| Max engine torque@1400 rev/min | 295 N.m |

| ENGINE | |
|---------------------|---------------------------------------|
| Type | MN440 A - 75 AD |
| Number of cylinders | 4 |
| Injection | Direct |
| Bore | 100 mm(3.976 in) |
| Stroke | 127.0 mm(5.0 in) |
| Capacity | 3.99 litre(247.7 in ³) |
| Compression Ratio | 16.5:1 |
| Starting Aid | Thermostart |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Dry, with pre cleaner |
| Fuel filter | Single, high capacity with sedimentor |
| Exhaust | Vertical |

| ELECTRICS | |
|----------------------|---|
| Voltage | 12v, negative earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Battery | Dual battery 66 A.H |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear work lights |
| Other | Horn |

| CLUTCH | |
|----------|---------------|
| Type | Dual |
| Diameter | 305 mm(12 in) |

| TRACK ADJUSTMENT | |
|------------------|--------------|
| Front | 1575-1930 mm |
| Rear - pressed | 1422-2134 mm |

| TRANSMISSION | |
|--------------|--|
| Synchro | 12 forward , 4 reverse synchromesh, manual change |

| POWER TAKE OFF | |
|-------------------------|----------------|
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines (rev/min) | 6(540) |

| BRAKES | |
|---------------|------------------------------|
| Type | Multi disc oil immersed |
| No.of plates | 5 Friction, 3 Steel eachside |
| Diameter | 222.4 mm |
| Parking brake | Mechanical , Hand lever |

| HYDRAULICS | |
|---|--|
| Function | Draft control , position control Response control |
| Max oil flow | 16.7 liter /min |
| Max pressure | 214 bar |
| Max lift capacity at lower links are horizontal | 2227 kg(8109 lb) |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| INSTRUMENTATION | |
|-----------------|---|
| Gauges | Tachometer/hourmeter,Fuel, water temperature |
| Warning lights | Direction indicators, electric charge |
| | Head light main beam, Diff lock engaged Hand brake, low fuel, low engine oil pressure, Engine air cleaner blockage , Transmission oil filter blockage , 4WD engaged. |

| 4WD FRONT AXLE | |
|----------------|------------|
| Axle type | AG 85 |
| Engagement | mechanical |
| Turning deg | 55 |

| WHEELS AND TIRES | |
|------------------|----------------------|
| Front | 12.4 - 24 , 6 ply |
| Rear | 18.4/15 - 30 , 6 ply |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| Weight(with rear weight and full of fuel, oil and water) | |
| Weight - front axle | 1560 kg |
| - rear axle | 1760 kg |
| - Total | 3320 kg |
| Overall length | 4190 mm |
| Width | 2060 mm |
| Height - over of ROPS | 2520 mm |
| - over steering wheel | 1850 mm |
| wheel base | 2290 mm |
| Turning circle | |
| - less brakes | 7740 mm |
| Ground clearance under drawbar | 380 mm |

| CAPACITIES | |
|------------------|-----------|
| Fuel tank | 126 litre |
| Engine sump | 8 litre |
| Cooling system | 18 litre |
| Hydraulic system | 43 litre |
| Steering pump | 1.1 litre |

| OTHER EQUIPMENT | |
|---|--|
| Trailer tipping pipe Rigid stabilizers ROPS Hydraulic spool valve kit Delux seat Heavy duty swinging drawbar Front weights Toolkit | |

| OPTIONS | |
|------------------|------------|
| Cabin Sunroof | |
| Rear tire | 13.6*12-38 |

475

2WD



PERFORMANCE

| | |
|---------------------------------|---------|
| Rated engine power@2000 rev/min | 75 hp |
| Max engine torque@1400 rev/min | 295 N.m |

ENGINE

| | |
|---------------------|---------------------------------------|
| Type | MN440 A - 75 AD |
| Number of cylinders | 4 |
| Injection | Direct |
| Bore | 100 mm(3.976 in) |
| Stroke | 127.0 mm(5.0 in) |
| Capacity | 3.99 litre(247.7 in ³) |
| Compression Ratio | 16.5:1 |
| Starting Aid | Thermostart |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Dry, with pre cleaner |
| Fuel filter | Single, high capacity with sedimentor |
| Exhaust | Vertical |

ELECTRICS

| | |
|----------------------|---|
| Voltage | 12v, negative earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Battery | Dual battery 66 A.H |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear work lights |
| Other | Horn |

CLUTCH

| | |
|----------|--------------------|
| Type | dual |
| Diameter | 305 mm(12 in) dia. |

TRACK ADJUSTMENT

| | |
|----------------|--------------|
| Front | 1370-1980 mm |
| Rear - pressed | 1422-2134 mm |

TRANSMISSION

| | |
|---------|--|
| Synchro | 12 forward , 4 reverse synchromesh, manual change |
|---------|--|

POWER TAKE OFF

| | |
|-------------------------|----------------|
| Shaft diameter | 35 mm(1.38 in) |
| No.of splines (rev/min) | 6(540) |

BRAKES

| | |
|---------------|------------------------------|
| Type | Multi disc oil immersed |
| No.of plates | 5 Friction, 3 Steel eachside |
| Diameter | 222.4 mm |
| Parking brake | Mechanical , Hand lever |

HYDRAULICS

| | |
|---|--|
| Function | Draft control , position control Response control |
| Max oil flow | 16.7 liter /min |
| Max pressure | 214 bar |
| Max lift capacity at lower links are horizontal | 2227 kg(8109 lb) |

STEERING

| | |
|------|-------------|
| Type | Hydrostatic |
|------|-------------|

INSTRUMENTATION

| | |
|----------------|--|
| Gauges | Tachometer/hourmeter,Fuel, water temperature |
| Warning lights | Direction indicators, electric charge |
| | Head light main beam, Diff. lock engaged, Hand brake, low fuel, low engine oil pressure Engine air cleaner blockage , Transmission oil filter blockage , 4WD engaged. |

WHEELS AND TIRES

| | |
|-------|----------------------|
| Front | 7.5-16 , 6 ply |
| Rear | 18.4/15 - 30 , 6 ply |

WEIGHTS AND DIMENSIONS

| | |
|--|---------|
| Weight(with rear weight and full of fuel, oil and water) | |
| Weight - front axle | 1300 kg |
| - rear axle | 1760 kg |
| - Total | 3060 kg |
| Overall length | 4190 mm |
| Width | 2060 mm |
| Height - over of ROPS | 2520 mm |
| - over steering wheel | 1850 mm |
| wheel base | 2290 mm |
| Turning radius Without braking | 6940 mm |
| Ground clearance under drawbar | 380 mm |

CAPACITIES

| | |
|------------------|-----------|
| Fuel tank | 126 litre |
| Engine sump | 8 litre |
| Cooling system | 18 litre |
| Hydraulic system | 43 litre |
| Steering pump | 1.1 litre |

OTHER EQUIPMENT

| |
|-----------------------------|
| Trailer tipping pipe |
| Rigid stabilizers |
| ROPS |
| Hydraulic spool valve kit |
| Delux seat |
| Heavy duty swinging drawbar |
| Front weights |
| Toolkit |

OPTIONS

| | |
|-----------|------------|
| Cabin | |
| Sunroof | |
| Rear tire | 13.6*12-38 |

285

4WD



| PERFORMANCE | |
|---------------------------------|---------|
| Rated engine power@2000 rev/min | 75 hp |
| Max engine torque@1400 rev/min | 290 N.m |
| Max P.T.O power@540 rev/min | 63 hp |

| CLUTCH | |
|----------|--------|
| Type | Dual |
| Diameter | 305 mm |

| ELECTRICS | |
|----------------------|---|
| Voltage | 12v,negative earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Battery | Dual battery, 66 A.H |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear plough lamp |
| Other | Horn, 7 pin - trailer socket |

| TRACK ADJUSTMENT | |
|------------------|-------------------|
| Front | 1575 mm - 1930 mm |
| Rear - pressed | 1422 mm - 2134 mm |

| ENGINE | |
|---------------------|--------------------------------------|
| Type | MN440A - 75AD |
| Number of cylinders | 4 |
| Injection | Diesel, Direct injection |
| Bore | 100 mm |
| Stroke | 127 mm |
| Capacity | 3.99 litre |
| Compression Ratio | 16:1 |
| Starting Aid | Thermostart |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Oil bath |
| Air Pre-cleaner | Centrifugal over-bonnet |
| Fuel filter | Single, high capacity with prefilter |
| Exhaust | Vertical |

| TRANSMISSION | |
|--------------|----------------------|
| Type | Sliding-gear |
| 10 speed | 8 forward, 2 reverse |

| 4WD FRONT AXLE | |
|-----------------|------------|
| Axle type | AG 85 |
| Engagement | mechanical |
| Diff. lock | Automatic |
| Max turning deg | 55 |

| HYDRAULICS | |
|---|-------------------------------------|
| Linkage pump | Piston pump |
| Max oil flow | 16.7 liter /min |
| Max pressure | 214 bar |
| Three point linkage | Cat 2 |
| Function | Draft control |
| | Position control - Response control |
| Max lift capacity at Lower links are horizontal | 2227kg |

| REAR AXEL AND BRAKES | |
|----------------------|---|
| Brake type | Oil immersed 5- plate disc each side |
| Actuation | Mechanical independent or locked together |
| Diameter | 222.4 mm |
| Parking brake | Mechanical, Hand lever |
| Differential lock | Mechanical |

| WHEELS AND TIRES | |
|------------------|----------------------|
| Front | 12.4 - 24 6 ply |
| Rear | 18.4/15 - 30 , 6 ply |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 90 litre |
| Hydraulic system | 43 litre |
| Engine sump | 8 litre |
| Cooling system | 14.2 litre |
| Steering pump | 1.1 litre |

| WEIGHTS AND DIMENSIONS | |
|---|---------|
| with full fuel, oil and water and Front weights | |
| Weight | |
| - Front | 1420 kg |
| - Rear | 1694 kg |
| - Total | 3114 kg |
| Overall length | 4010 mm |
| Width | 2060 mm |
| Height - over of ROPS | 2528 mm |
| - over steering wheel | 1680 mm |
| Wheel base | 2290 mm |
| Turning radius Without braking | 7600 mm |
| Ground clearance under drawbar | 380 mm |

| POWER TAKE OFF | |
|----------------|---|
| Type/Speed | Single speed / 540 rev/min live at 1684 rpm |
| Shaft diameter | 35 mm |
| No.of splines | 6 |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| OTHER EQUIPMENT | |
|---|--|
| Drawbar with heavy – trailer hitch Hydraulic quick couplers Roll-over protective structure(ROPS) Disk type rear wheels weights Toolkit Front weights | |

| OPTIONS | |
|---------------------------------|-------------|
| Transmission (12+4) speed | Synchromesh |
| Falling object protection (FOP) | |

285

2WD



| PERFORMANCE | |
|---------------------------------|---------|
| Rated engine power@2000 rev/min | 75 hp |
| Max engine torque@1400 rev/min | 290 N.m |
| Max P.T.O power@540 rev/min | 63 hp |
| CLUTCH | |
| Type | Dual |
| Diameter | 305 mm |

| ELECTRICS | |
|----------------------|---|
| Voltage | 12v,negative earth |
| Alternator / Starter | 45 Amp /2.8 KW |
| Battery | Dual Battery, 66 A.H. |
| Lights | Headlights, Side lights - Brake lights Direction indicators - Rear plough lamp |
| Other | Horn, 7 pin - trailer socket |

| ENGINE | |
|---------------------|--------------------------------------|
| Type | MN 440 A - 75 AD |
| Number of cylinders | 4 |
| Injection | Diesel, Direct injection |
| Bore | 100 mm |
| Stroke | 127 mm |
| Capacity | 3.99 litre |
| Compression Ratio | 16.5:1 |
| Starting Aid | Thermostat |
| Throttle control | Hand and foot |
| Cooling System | Water |
| Air cleaner | Oil bath |
| Air Pre-cleaner | Over - bonnet bowltype |
| Fuel filter | Single, high capacity with prefilter |
| Exhaust | Vertical |

| TRACK ADJUSTMENT | |
|------------------|-------------------|
| Front | 1346 mm - 1753 mm |
| Rear - pressed | 1422 mm - 2134 mm |

| TRANSMISSION | |
|--------------|----------------------|
| Type | Sliding-gear |
| 10 speed | 8 forward, 2 reverse |

| HYDRAULICS | |
|---|--|
| Linkage pump | piston Pump |
| Max oil flow | 16.7 liter /min |
| Max pressure | 214 bar |
| Three point linkage | Cat 2 |
| Function | Draft control Position control - Response control |
| Max lift capacity at lower links are horizontal | 2227kg |

| REAR AXEL AND BRAKES | |
|----------------------|---|
| Brake type | Oil immersed |
| Actuation | Mechanical independent or locked together |
| Diameter | 222.4 mm |
| Parking brake | Mechanical Hand lever |
| Differential lock | Mechanical |

| WHEELS AND TIRES | |
|------------------|----------------------|
| Front | 7.5-16 , 6 ply |
| Rear | 18.4/15 - 30 , 6 ply |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 90 litre |
| Hydraulic system | 43 litre |
| Engine sump | 8 litre |
| Cooling system | 14.2 litre |
| Steering box | 0.9 litre |
| Steering pump | 1.1 litre |

| OTHER EQUIPMENT | |
|--|--|
| Drawbar with heavy – trailer hitch Hydraulic quick couplers Toolkit Front weights ROPS Disk type rear weights | |

| WEIGHTS AND DIMENSIONS | |
|---|---------|
| with full fuel, oil and water and front weights | |
| Weight | |
| - Front | 1118 kg |
| - Rear | 1694 kg |
| - Total | 2812 kg |
| Overall length | 4010 mm |
| Width | 2060 mm |
| Height - over of ROPS | 2520 mm |
| - over steering wheel | 1680 mm |
| Wheel base | 2290 mm |
| Turning radius With braking | 7600 mm |
| Ground clearance under drawbar | 380 mm |

| POWER TAKE OFF | |
|----------------|---|
| Type/Speed | Single speed/540 rev/min live at1684 rev/min engine |
| Shaft diameter | 35 mm |
| No.of splines | 6 |

| STEERING | |
|----------|---------------------------|
| Type | Hydraulic steering system |

| OPTIONS | |
|---|-------------|
| Transmission (12+4) speed | Synchromesh |
| Falling object protection (FOP) Hydraulic valve for implements | |

470

4WD



| PERFORMANCE | |
|---------------------------------|---------|
| Rated engine power@2250 rev/min | 47 hp |
| Max engine torque@1400 rev/min | 170 N.m |
| Max P.T.O power@540 rev/min | 37.7 hp |

| ENGINE | |
|---------------------|---------------------------------------|
| Type | MN325D - 47AD |
| Number of cylinders | 3 |
| Injection | Diesel direct injection |
| Bore | 91.4 mm |
| Stroke | 127.0 mm |
| Capacity | 2.5 litre |
| Compression Ratio | 18.5:1 |
| Starting Aid | Thermostart |
| Cooling | Water |
| Air cleaner | Dry |
| Fuel filter | Single, High capacity with sedimentor |
| Exhaust | Horizontal |

| ELECTRICS | |
|-------------|---|
| Voltage | 12v,negative earth |
| Starter | 2.8 KW |
| Alternation | 45 Amp |
| Battery | 66 AH |
| Lights | Headlights - Side lights -Brake lights Direction indicators - Rear plough lamp |
| Other | Horn, 7 pin -trailer socket |

| CLUTCH | |
|----------|--------|
| Type | dual |
| Diameter | 305 mm |

| TRACK ADJUSTMENT | |
|------------------|-----------------|
| Front | 1123 mm-1624 mm |
| Rear - pressed | 1227 mm-1930 mm |

| TRANSMISSION | |
|--------------|----------------------|
| Type | Sliding-gear |
| 10 speed | 8 forward, 2 reverse |

| HYDRAULICS | |
|---|-----------------|
| Max oil flow | 16.7 liter /min |
| Max pressure | 173 bar |
| Three point linkage | Cat 1&2 |
| Max lift capacity at lower links are horizontal | 1415 kg |

| WHEELS AND TIRES | | |
|------------------|----------|-------|
| Front | 7.5 - 18 | 6 ply |
| Rear | 12.4-28 | 6 ply |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 48 litre |
| Engine sump | 5.7 litre |
| Cooling system | 10.2 litre |
| Hydraulic system | 31 litre |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| With full fuel, oil and water, 12.4 / 28 rear tires weight | |
| Weight | |
| - front | 1050 kg |
| - rear | 1300 kg |
| - Total | 2350 kg |
| Overall length | 3290 mm |
| Width | 1670 mm |
| Height | |
| -over of ROPS | 2320 mm |
| -over stg, wheel | 1530 mm |
| wheel base | 2000 mm |
| Ground clearance under drawbar | 260 mm |

| POWER TAKE OFF | |
|----------------|---|
| Type | 540 rev/min live at 1789 rev/min engine |
| Shaft diameter | 35 mm |
| No.of splines | 6 |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| OTHER EQUIPMENT | |
|--|--|
| Drawbar with heavy – trailer hitch Hydraulic quick couplers Hinge roll-over protective structure(ROPS) Toolkit Front weights | |

| OPTIONS | |
|---------------------------------|--|
| Falling object protection (FOP) | |



470
2WD

| PERFORMANCE | |
|---------------------------------|---------|
| Rated engine power@2250 rev/min | 47 hp |
| Max engine torque@1400 rev/min | 170 N.m |
| Max P.T.O power@540 rev/min | 37.7 hp |

| ENGINE | |
|---------------------|---------------------------------------|
| Type | MN325D-47AD |
| Number of cylinders | 3 |
| Injection | Diesel, direct injection |
| Pollution standard | ECE R96,R24-STAGE 3A |
| Bore | 91.4 mm |
| Stroke | 127.0 mm |
| Capacity | 2.5 litre |
| Compression Ratio | 18.5:1 |
| Starting Aid | Thermostart |
| Cooling System | Water |
| Air cleaner | Dry |
| Fuel filter | Single, High capacity with Sedimentor |
| Exhaust | Horizontal |

| ELECTRICS | |
|-------------|---|
| Voltage | 12v,negative earth |
| Starter | 2.8 KW |
| Alternation | 45 Amp |
| Battery | 66 AH |
| Lights | Headlights - Side lights -Brake lights Direction indicators - Rear plough lamp |
| Other | Horn, 7 pin -trailer socket |

| CLUTCH | |
|----------|--------|
| Type | Dual |
| Diameter | 305 mm |

| TRACK ADJUSTMENT | |
|------------------|-----------------|
| Front | 1227mm -1836 mm |
| Rear - pressed | 1227 mm-1930 mm |

| TRANSMISSION | |
|--------------|----------------------|
| Type | Sliding - gear |
| 10 speed | 8 forward, 2 reverse |

| HYDRAULICS | |
|---|-----------------|
| Max oil flow | 16.7 liter /min |
| Max pressure | 173 bar |
| Three point linkage | Cat 1&2 |
| Max lift capacity at lower links are horizontal | 1415 kg |

| WHEELS AND TIRES | | |
|------------------|---------|-------|
| Front | 6-16 | 6 ply |
| Rear | 12.4-28 | 6 ply |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 48 litre |
| Engine sump | 5.7 litre |
| Cooling system | 10.2 litre |
| Hydraulic system | 31 litre |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| With full fuel, oil and water, 12.4 / 28 rear tires weight | |
| Weight | |
| - front | 890 kg |
| - rear | 1280 kg |
| - Total | 2170 kg |
| Overall length | 3290 mm |
| Width | 1670 mm |
| Height | |
| -over of ROPS | 2320 mm |
| -over stg, wheel | 1530 mm |
| wheel base | 2000 mm |
| Ground clearance under drawbar | 260 mm |

| POWER TAKE OFF | |
|----------------|---|
| Type | 540 rev/min live at 1789 rev/min engine |
| Shaft diameter | 35 mm |
| No.of splines | 6 |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| OTHER EQUIPMENT | |
|---|--|
| Drawbar with heavy – trailer hitch Hydraulic quick couplers Toolkit and front weights Hinge roll-over protective structure(ROPS) | |

| OPTIONS | |
|---------------------------------|--|
| Falling object protection (FOP) | |

240 4WD NEW



| PERFORMANCE | |
|---|------|
| Maximum hp(Bs.AU.141.a)@2250 rpm | 47 |
| Maximum torque Nm(Bs.AU.141.a)@1400rpm | 170 |
| Max. power available hp@PTO shaft | 44 |
| Max. power available hp@PTO shaft in 540rpm | 37.7 |

| ENGINE | |
|---------------------|--|
| Model | MN325D-47AD |
| Type | Diesel, Direct injection |
| Number of cylinders | 3 |
| Aspiration | Normal respiration |
| Pollution standard | ECE R96,R24-STAGE 3A |
| Bore | 91.4mm |
| Stroke | 127mm |
| Capacity | 2.5litre |
| Compression ratio | 18.5 :1 |
| Start aid | Thermostart |
| Cooling system | Water |
| Air cleaner | Dry , dual element with pre-cleaner |
| Fuel filter | Single , high capacity with sedimentor |
| Exhaust | Horizontal |

| ELECTRICS | |
|----------------------|--|
| Voltage | 12v, Negative to earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Battery | 66 AH |
| Lights | Head, Side, Brake, Rear plough Light, and Turn signals |
| Other equipment | Horn, Trailer 7 - pin plug |

| CLUTCH | |
|------------------|--------|
| Type | Dual |
| Main clutch size | 305 mm |

| TRANSMISSION | |
|--------------|-----------------------------------|
| Type | Sliding-gear , 8Forward, 2Reverse |

| POWER TAKE OFF | |
|----------------|---------------------------|
| Type | Single - speed , live |
| P.T.O. speed | 540rpm at 1789 rpm engine |
| Shaft diameter | 35 mm |
| No. Of splines | 6 |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| BRAKES | |
|-------------------|---|
| Type | Oil immersed, wet brakes |
| Function | Mechanical, Independent or both wheels together |
| Plates diameter | 222.4mm |
| Parking brake | Mechanical , Hand lever |
| Differential lock | Mechanical |

| WEIGHTS AND DIMENSIONS | |
|--|--------|
| With full fuel , oil , water and front weights | |
| Weight on front axle | 1050Kg |
| Weight on rear axle | 1300Kg |
| Total weight | 2350Kg |
| Length(Lower links are horizontal) | 3.29m |
| Width | 1.67m |
| Height(Over of ROPS) | 2.32m |
| Height(Over of steering wheel) | 1.53m |
| Wheel base | 2m |
| Turning radius(With braking) | 3m |
| Height over ground (Drawbar beneath) | 0.26m |

| HYDRAULICS | |
|---------------------|--------------------------------------|
| Three Point linkage | Category 1,2 Changeable |
| Accessories | Draft, position and response control |
| Max. lift capacity | 1415 Kg @ lower links are horizontal |
| Hydraulic pump | Piston pump |
| Max. delivery | 16.7lpm |
| Max. pressure | 173bar |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 48 litre |
| Hydraulic system | 31 litre |
| Engine Sump | 5.7 litre |
| Cooling system | 10.2 litre |
| Steering pump | 0.9 litre |

| OTHER EQUIPMENT | |
|--|--|
| Drawbar with heavy - trailer hitch | |
| Toolkit | |
| Front weights | |
| Hydraulic quick couplers | |
| Hinge roll - over protective structure(ROPS) | |

| OPTIONS | |
|---------------------------------|--|
| Falling object protection (FOP) | |

RASHA

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240
2WD NEW



| PERFORMANCE | |
|-----------------------------------|---------|
| Rated engine power @ 2250 rev/min | 47 hp |
| Max engine torque @1400 rev/min | 170 N.m |
| Max P.T.O horse power@540 rev/min | 37.7 hp |

| ENGINE | |
|---------------------|---------------------------------------|
| Model | MN325D-47AD |
| Type | Diesel, direct injection |
| Number of cylinders | 3 |
| Bore | 91.4 mm |
| Stroke | 127 mm |
| Capacity | 2.5 litre |
| Compression Ratio | 18.5:1 |
| Starting Aid | Thermostart |
| Cooling system | Water |
| Air cleaner | Dry type with dual elements |
| Fuel filter | Single, High capacity with Sedimenter |
| Exhaust | Horizontal |

| ELECTRICS | |
|----------------------|--|
| Voltage | 12v, Negative earth |
| Alternator / Starter | 45 Amp / 2.8 KW |
| Battery | 66 AH |
| Lights | Head, Side, Brake, Rear plough Light, and Turn signals |
| Other equipment | Horn, Trailer 7 - pin plug |

| CLUTCH | |
|------------------|--------|
| Type | Dual |
| Main clutch size | 305 mm |

| TRANSMISSION | |
|----------------|----------------------|
| Sliding - gear | 8 Forward, 2 Reverse |

| POWER TAKE OFF | |
|--|-----------------------|
| Type | Single - speed , live |
| P.T.O. speed, at engine speed: 1789 rpm | 540 rpm |
| Shaft diameter | 35 mm |
| No. Of splines | 6 |
| Max. Lift capacity at lower links horizontal | 1415 kg |
| Hydraulic pump | Piston pump |
| Max. Pump flow | 16.7 liter/min |
| Max. Pressure | 173 bar |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| BRAKES | |
|-------------------|---|
| Type | Oil immersed, wet brakes |
| Actuation | Mechanical independent or locked together |
| Parking brake | Hand level wired control |
| Differential lock | Mechanical |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| weight with full fuel, oil and water and front weights | |
| weight | |
| - Front | 890 kg |
| - Rear | 1280 kg |
| - Total | 2170 kg |
| Length(with rear link at horizontal position) | 3290 mm |
| Width | 1670 mm |
| Height - over of ROPS | 2320 mm |
| - over of steering wheel | 1530 mm |
| Wheel base | 2000 mm |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 48 litre |
| Hydraulic system | 31 litre |
| Engine Sump | 5.7 litre |
| Cooling system | 10.2 litre |

| OTHER EQUIPMENT | |
|--------------------------------------|--|
| Drawbar with heavy-trailer hitch | |
| Toolkit | |
| Front weights | |
| Hydraulic quick couplers | |
| Roll-over protective structure(ROPS) | |

| OPTIONS | |
|---------------------------------|--|
| Garden horizontal exhaust | |
| Falling object protection (FOP) | |

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455
4WD

| PERFORMANCE | |
|--------------------------------------|-----|
| Maximum hp (ECE-R120)@2250 rpm | 55 |
| Maximum torque Nm(ECE-R120)@1500 rpm | 210 |
| Max. power available hp@PTO shaft | 46 |

| ENGINE | |
|---------------------|---|
| Model | MT325A |
| Type | Diesel, Direct injection |
| Number of cylinders | 3 |
| Aspiration | Turbocharger |
| Bore | 91.4 mm |
| Stroke | 127 mm |
| Capacity | 2.5 litre |
| Compression Ratio | 18:1 |
| Start aid | Thermostart |
| Cooling system | Water |
| Air cleaner | Dry, dual element with pre-cleaner |
| Fuel filter | Single , Hiith Capacity With Sedimentor |
| Exhaust | Vertical |

| ELECTRICAL SYSTEM | |
|-------------------|---|
| Voltage | 12 v , Negative to earth |
| Battery | 66 A.H |
| Alternator | 45 A |
| Starter | 2.8 Kw |
| Lights | Head, Position, Number plate, brake and Rear plough |
| Other equipment | Electrical Overrun Fuel Cut-Off,Digital Panel ,Horn,Trailer7-Pin Plug |

| CLUTCH | |
|----------------|--------|
| Type | Dual |
| Plate diameter | 305 mm |

| TRACK ADJUSTMENT | |
|------------------|-------------|
| Front | 1123 - 1624 |
| Rear | 1227 - 1930 |

| TRANSMISSION | |
|--------------|--------------------------------|
| Type | Sliding-Gear,8Forward,2Reverse |

| POWER TAKE OFF | |
|-------------------|----------------------------------|
| Type | Single Speed, Live With Engine |
| P.T.O speed | 540 rpm at 1790 rpm engine speed |
| Number of splines | 6 |
| Shaft diameter | 35 mm |

| HYDRAULICS | |
|---------------------|-------------------------------------|
| Three Point linkage | Category1.2 Changeable |
| Accessories | Draft,PositionAnd Response Control |
| Max. lift capacity | 1415 Kg@ lower links are horizontal |
| Hydraulic pump | Piston Pump |
| Max. delivery | 16.7 lpm |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| FRONT AXLE | |
|---------------|-------|
| Type | AG 65 |
| Turning angle | 55° |

| BRAKES | |
|-------------------|--|
| Type | Oil immersed, Wet brakes |
| Function | Mechanical , Independent or both wheels together |
| Plates diameter | 222.4 mm |
| Parking brake | Mechanical, Hand lever |
| Differential lock | Mechanical |

| TYRES | |
|------------------|-------------------|
| Front | 7.5 - 18 6Ply |
| Rear (Disk type) | 12.4*11 - 28 6Ply |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| With full fuel, oil, water and front weights | |
| Weight on front axle | 1160 kg |
| Weight on rear axle | 1340 kg |
| Total Weight | 2500 kg |
| Length (Lower links are horizontal) | 3290 mm |
| Width | 1670 mm |
| Height(Over of ROPS) | 2320 mm |
| Height (Over of steering wheel) | 1530 mm |
| wheel base | 2070 mm |
| Turning radius (with braking) | 3000 mm |
| Height over ground (Drawbar beneath) | 260 mm |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 48 litre |
| Hydraulic system | 31 litre |
| Engine sump | 5.7 litre |
| Cooling system | 11.7 litre |
| Steering Pump | 0.9 litre |

| OTHER EQUIPMENT | |
|--|--|
| Drawbar With Heavy - Trailer Hitch | |
| Hydraulic quick couplers | |
| Hinge Roll-Over Protective Structure(ROPS) | |
| Toolbox Kit | |
| Front weights | |

| Options | |
|-----------------------|---------------|
| Sun Roof Canapy | |
| Auxiliary Hydraulic | |
| Front Tyre | 9.5-20- 6ply |
| Rear Tyre (Disk Type) | 13.6-28- 6ply |

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4120

4WD

| PERFORMANCE | |
|---|-----|
| maximum hp (Bs.AU.141.a)@2200 rpm | 120 |
| Maximum torque Nm(Bs.AU.141.a)@1600 rpm | 480 |
| Max. power available hp@PTO shaft | 96 |

| ENGINE | |
|---------------------|------------------------------------|
| Model | MT660A -120 AD |
| Type | Diesel, Direct injection |
| Number of cylinders | 6 |
| Aspiration | Turbocharger |
| Bore | 100 mm |
| Stroke | 127 mm |
| Capacity | 6 litre |
| Compression Ratio | 16.5:1 |
| Starting aid | Thermostart |
| Cooling system | Water |
| Air cleaner | Dry, dual element with pre-cleaner |
| Fuel filter | Dual, with sedimentor |
| Exhaust | Vertical |

| ELECTRICAL SYSTEM | |
|-------------------|---|
| Voltage | 12 v , Negative earth |
| Battery | Dual battery, 66 A.H |
| Alternator | 45 A |
| Starter | 2.8 Kw |
| Lights | Head, Position, Number plate, brake and Rear plough |
| Other equipment | Horn, Trailer 7-pin plug |

| CLUTCH | |
|----------------|--------------|
| Type | Split torque |
| Plate diameter | 330 mm |

| TRACK ADJUSTMENT | |
|------------------|----------------|
| Front | 1769 - 2093 mm |
| Rear | 1525 - 2235 mm |

| TRANSMISSION | |
|--------------|--------------------------------------|
| Type | Synchromesh (12 Forward , 4 Reverse) |

| POWER TAKE OFF | |
|-------------------|---|
| Type | Independent, hydraulic shiftable with lever |
| P.T.O speed | 540/1000 rpm at 1900/2000 rpm engine speed |
| Number of splines | 6/21 for 540 rpm / 1000 rpm |
| Shaft diameter | 35 mm |

| HYDRAULIC | |
|---------------------|--------------------------------------|
| Three Point linkage | Category2, fixed |
| Accessories | Draft, position and response control |
| Max. lift capacity | 3678 Kg@ lower links are horizontal |
| Hydraulic pump | Piston pump |
| Max. delivery | 27.6 lpm |
| Max. pressure | 231 bar |

| AUXILIARY HYDRAULIC | |
|---------------------|------------------------------------|
| Pump type | Engine mounted tandem gear pump |
| Max. delivery | 35 lpm @ 175 bar |
| Combined flow | 63 lpm |
| Spool valve | 1 valve with 2 spools(3 positions) |

| STEERING | |
|----------|-------------|
| Type | Hydrostatic |

| FRONT AXLE | |
|---------------|----------|
| Type | AG105 |
| Diff. lock | Autolock |
| Turning angle | 55° |

| BRAKES | |
|------------------------------|--|
| Type | Oil immersed, Wet brakes |
| Function | Hydraulic, Independent or both wheels together |
| Plates diameter | 222.4 mm |
| Parking brake | Mechanical, Hand lever |
| Differential lock- Rear Axle | Hydraulic, with electrical control |

| TIRES | |
|------------------|----------------------|
| Front | 14.9 * 13 - 24 6 Ply |
| Rear (Disk type) | 18.4 * 15 - 34 8 Ply |

| WEIGHTS AND DIMENSIONS | |
|--|---------|
| With full fuel, oil, water and front weights | |
| Weight on front axle | 1940 Kg |
| Weight on rear axle | 2100 Kg |
| Total Weight | 4040 Kg |
| Length (Lower links are horizontal) | 4.48 m |
| Width | 1.97 m |
| Height(Over of ROPS) | 2.63 m |
| Height (Over of steering wheel) | 1.91 m |
| wheel base | 2.64 m |
| Turning radius (with out braking) | 9.41 m |
| Height over ground (Drawbar beneath) | 0.43 m |

| CAPACITIES | |
|------------------|------------|
| Fuel tank | 105 litre |
| Hydraulic system | 47.4 litre |
| Engine sump | 15.4 litre |
| Cooling system | 25 litre |

| OTHER EQUIPMENT | |
|--------------------------------------|--|
| Drawbar with heavy- trailer hitch | |
| Hydraulic quick couplers | |
| Hydraulic valve for implements | |
| Rear wheels(Disk type) weights | |
| Toolkit | |
| Front weights | |
| Roll-over protective structure(ROPS) | |

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950

| Engine specification | |
|--|---------------------------------|
| Type | 3.152 |
| Maximum hp(Bs.AU.141.a)@2250 rpm | 45 hp |
| Cooling system | Water |
| Number of cylinders | 3 |
| Clutch | |
| single plate with pedal control | |
| Brakes | |
| Drum Brake | |
| mechanical on rear wheel | |
| Transmission | |
| 9 Speeds - 6 speed forward & 3 reverse | |
| Weight | |
| Front | 870 kg |
| Rear | 400 kg |
| Total | 1270 kg |
| Power take off | |
| Type | Single-speed , Live with engine |
| P.T.O speed | 540 rpm@ 1841 rpm engine speed |
| Differential | |
| Hydraulically controlled through a pedal | |
| actioned simultaneously onthe 4 wheels | |
| Lift | |
| Three point hydraulic lift (cat 1) | |
| Tires | |
| 8.25 - 16 | |
| Steering | |
| type | Hydraulic , Articulate |