

IRAN
TRACTOR
INDUSTRIAL GROUP



IRAN TRACTOR
INDUSTRIAL GROUP
ITM Co

www.itmco.ir



2 - 43

INTRODUCTION	4
ITM 1500	6
ITM 399 4 WD	8
ITM 399 2 WD	10
ITM 800 4 WD	12
ITM 800 2 WD	14
ITM 485 4 WD	16
ITM 485 2 WD	18
ITM 475 4 WD	20
ITM 475 2 WD	22
ITM 285 4 WD NEW	24
ITM 285 2 WD NEW	26
ITM 285 4 WD	28
ITM 285 2 WD	30
ITM 470 4 WD	32
ITM 470 2 WD	34
ITM 240 4 WD NEW	36
ITM 240 2WD NEW	38
ITM 240 4 WD	40
ITM 240 2 WD	42
ITM 950	44



46 - 53

BACKHOE LOADER TDL 100S 4WD	49
BACKHOE LOADER TDL 130	51
PRODUCTS	53



54 - 67

3.152 AGRICULTURAL ENGINE	56
1006.6 AGRICULTURAL ENGINE	57
MN440A- 45GN GENSET POWER (NG)	58
MN440A-60GD GENSET POWER	59
MTI 440C -100GD	60
4.248 GENERAL INDUSTRIAL	61
PHASER 135TI	62
4.248 COMPRESSOR ENGINE	63
21.26M GENERATING SET	64
E40-47AMF GENERATING SET	65
55.68M GENERATING SET	66
Mobile Water Pump SET	67



68 - 74

TECHNOLOGY & PATTERN SHOP	70
QUALITY CONTROL	73
SAMPLES OF PRODUCTION	74



Iran Tractor Manufacturing Co.





IRAN TRACTOR INDUSTRIAL GROUP

On the ground of economic co-operation between Iran and Romania, an agreement was reached in 1966 to establish a tractor manufacturing company in the country. Within this framework, Iran Tractor Manufacturing Company (ITMCO) was founded in 1968. The company is located in the outskirts of the industrial city of Tabriz in the north-west of Iran. The initial objective of this enterprise was to manufacture 10000 units of tractors, ranging from 45-65 horse power engines, with single and double differential gearboxes. After eight years of production, based on re-evaluation of local market requirements, Massy Ferguson of England began assembling in 1976 with an up-to-date technology and a higher total production capacity rate of 13000 units per annum. In this scenario, it was decided that a significant number of the parts used in assembly must be produced in Iran either by ITMCO itself or its associated organizations. Accordingly, there was a requirement to build workshops to meet the annual demands of 36000 units of diesel engines, 35000 tons of foundry cast iron, and 32000 tons of forging parts.

Due to the success of ITMCO products in the domestic markets, the company began its export activities in the year 1990 and has continued to make rigorous endeavors in expanding its export base in the international arena. Correspondingly, ITMCO closely co-operated with Giad, a company based in Sudan, by establishing a highly sophisticated assembly line in Sudan to meet the specific expectations of the local market. Moreover, ITMCO, as the major shareholder, sowed the seeds of further success by initiating joint venture enterprises in Venezuela and Tajikistan.

To date, the company has accomplished export orders to the following countries:

- | | | |
|-------------|-------------|------------|
| Afghanistan | Lebanon | Tajikistan |
| Algeria | Libya | Kyrgyzstan |
| Armenia | Macedonia | Tanzania |
| Azerbaijan | Malaysia | Thailand |
| Bangladesh | Netherlands | Tunisia |
| Botswana | Nigeria | Turkey |
| Chili | Philippines | UAE |
| Djibouti | Qatar | Uganda |
| Egypt | Romania | Ukraine |
| Ethiopia | Senegal | Venezuela |
| Ivory coast | Sierra Leon | Yemen |
| Jordan | Seri Lanka | Zambia |
| Kenya | Sudan | Zimbabwe |
| Kuwait | Syria | |

ITM 1500

ITM 1500 IRAN TRACTOR

INDUSTRIAL GROUP



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	
Make	Motorsazan
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	Thermostat
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	

ITM 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	
Make/Type	Motorsazan / 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

ITM 399 4 WD

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	

ITM 399 2 WD



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	
Make/Type	Motorsazan / 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 in ³)
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

ITM 399 2 WD

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	2.0(3.2)
	2		3	2.5(4.0)
	3		4	8.1(13.0)
	4		5	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/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 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	

ITM 800 4 WD



ITM 800
ITM 800 4 WD
 IRAN INDUSTRIAL GROUP
 TRACTOR

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	
Make/Type	Motorsazan / 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

ITM 800 2 WD



ITM 800
ITM 800 2 WD
 IRAN INDUSTRIAL GROUP
 TRACTOR

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	
Make/Type	Motorsazan /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

ITM 485 4 WD

ITM 485
IRAN TRACTOR
INDUSTRIAL GROUP

ITM
485 4 WD



PERFORMANCE

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

ENGINE

Make/Type	Motorsazan / 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

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	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

ITM 485 2 WD

IRAN TRACTOR

INDUSTRIAL GROUP



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

ITM 485 2 WD

ENGINE	
Make/Type	Motorsazan / 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	
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, 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

ITM 475 4 WD

ITM 475 4 WD

INDUSTRIAL GROUP

IRAN TRACTOR



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

ENGINE	
Make/Type	Motorsazan / 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	
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	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

ITM 475 2 WD



ITM 475
IRAN TRACTOR
INDUSTRIAL GROUP

ITM 475 2 WD

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

ENGINE	
Make/Type	Motorsazan / 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	
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.

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

IRAN TRACTOR

ITM 285 4 WD NEW

INDUSTRIAL GROUP



PERFORMANCE	
Rated engine power@2000 rev/min	82 hp
Max engine torque@1500 rev/min	345 N.m



ITM 285 4 WD NEW

ENGINE	
Make/Type	Motorsazan /MT 441A
Number of cylinders	4
Injection	Diesel, Direct injection
Aspiration	Turbocharged
Bore	101 mm
Stroke	127 mm
Capacity	4.07 litre
Compression Ratio	16:1
Air cleaner	Dual, dry element with pre-cleaner
Fuel filter	Single, high capacity with prefilter
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 plough lamp
Other	7 pin trailer socket

CLUTCH	
Type	Dual
Diameter	305 mm

TRANSMISSION	
Sliding - gear	8Forward, 2 reverse speeds, manual change

STEERING	
Type	Hydrostatic

POWER TAKE OFF	
Type	Live with engine and transmission
Shaft diameter	35 mm
No.of splines	6

REAR AXEL AND BRAKES	
Brake type	Oil immersed
Actuation	Mechanical independent or locked together
Parking brake	Mechanical, Hand lever
Differential lock	Mechanical

4WD FRONT AXLE	
Type	AG 85
Engagement	mechanical
Diff. lock	Automatic
Turn angel	55

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 weight	
Front	1180 kg
Rear	1694 kg
Total	2874 kg
Overall length	4010 mm
Wheel base	2290 mm
Ground clearance under drawbar	380 mm
Width	2060 mm
Height - Over of ROPS	2520 mm
- Over of steering wheel	1680 mm

HYDRAULICS	
Linkage pump	Piston Pump
Max oil flow	16.7 liter /min
Max pressure	214 bar
Three point linkage	Cat 2
Max lift capacity at lower links are horizontal	2227kg

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

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

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

OPTIONS	
Falling object protection (FOP)	
Synchronesh transmission (12+4) Speeds	

IRAN TRACTOR

ITM 285 2 WD NEW

INDUSTRIAL GROUP



ITM 285 2 WD NEW

PERFORMANCE	
Rated engine power@2000 rev/min	82 hp
Max engine torque@1500 RPM	345 N.m

ENGINE	
Make/Type	Motorsazan /MT 441A
Number of cylinders	4
Injection	Diesel, Direct injection
Bore	101 mm
Stroke	127 mm
Capacity	4.07 litre
Compression Ratio	16:1
Air cleaner	Dry, dual element with pre cleaner
Fuel filter	Single, high capacity with prefilter
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 plough lamp
Other	7 pin trailer socket

CLUTCH	
Type	Dual
Diameter	305 mm

TRANSMISSION	
Sliding-gear	8Forward, 2 reverse speeds, manual change

STEERING	
Type	Hydrostatic

POWER TAKE OFF	
Type/Speed	Live with engine/ 540 rev/min at 1684 rev/min engine
Shaft diameter	35 mm
No.of splines	6

REAR AXEL AND BRAKES	
Brake type	Oil immersed
Actuation	Mechanical independent or locked together
Parking brake	Mechanical, Hand lever
Differential lock	Mechanical

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 , water and front weights	
- Front	1118 kg
- Rear	1694 kg
- Total	2812 kg
Overall length	4010 mm
Width	2060 mm
Height - Over of ROPS	2520 mm
- Over of steering wheel	1680 mm
Wheel base	2290 mm
Ground clearance under drawbar	380 mm

HYDRAULICS	
Linkage pump	Piston Pump
Max oil flow	16.7 liter /min
Max pressure	214 bar
Three point linkage	Cat 2
Max lift capacity at lower links are horizontal	2227kg

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

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

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

OPTIONS	
Falling object protection (FOP)	
Synchromesh transmission (12+4 speeds)	

IRAN INDUSTRIAL GROUP TRACTOR

ITM 285 4 WD



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

ITM 285 4 WD

ENGINE	
Make/Type	Motorsazan / 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)	

IRAN TRACTOR

INDUSTRIAL GROUP

ITM 285 2 WD



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

ITM 285 2 WD



ENGINE	
Make/Type	Motorsazan / 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	

ITM 470 4WD

IRAN INDUSTRIAL GROUP TRACTOR



ITM 470 4 WD

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	
Make/Type	Motorsazan /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)	

ITM 470 2 WD

IRAN TRACTOR

INDUSTRIAL GROUP



ITM 470 2 WD

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	
Make/Type	Motorsazan - 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)	

IRAN TRACTOR

INDUSTRIAL GROUP

ITM 240 4 WD NEW



ITM 240 4 WD 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	
Make	Motorsazan
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)	

ITM 240 2WD NEW

IRAN TRACTOR

ITM 240 2WD NEW

INDUSTRIAL GROUP



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	
Made	Motorsazan Co
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)	

ITM 240 4 WD

IRAN TRACTOR

INDUSTRIAL GROUP

ITM 240 4 WD



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
Max P.T.O horse power	44 hp

ENGINE	
Model	3.152
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	Oil bath with pre cleaner
Fuel filter	Single, High capacity with Sedimentor
Exhaust	Vertical

HYDRAULICS	
Three point linkage	Cat 1&2 interchangeable
Function	Draft control, position control, Response control
Max. lift capacity	1415 Kg@ lower links are horizontal
Max oil flow	16.7 liter /min
Max pressure	173 bar
Hydraulic pump	Piston pump

STEERING	
Type	Hydrostatic

TRANSMISSION	
Type	Sliding - gear
Speeds	8 forward , 2 reverse

P.T.O	
Type	Single Speed
P.T.O speed	540 rev/min @1789 engine rev/min
No. Of splines	6
Shaft diameter	35 mm

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

BRAKES AND REAR AXLE	
Type	Oil immersed , Wet brakes
Function	Mechanical ,Independent or both locked together
Plates diameter	222.4 mm
Parking brake	Mechanical , Hand lever
Differential lock	Mechanical

WHEELS & TIRES		
Front	6-16	6 Ply
Rear	12.4*11 - 28	6 Ply

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

WEIGHTS AND DIMENSIONS	
weight with full fuel, oil and water and front weights	
Weight	
- Front	1050 kg
- Rear	1260 kg
- Total	2310 kg
Length	3390 mm
Width	1800 mm
Height - over of ROPS	2430 mm
- over of steering wheel	1620 mm
Wheel base	1890 mm
Turning radius with braking	3000 mm
Ground clearance Under drawbar	260 mm

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	
Hydraulic quick couplers	
Toolkit	
Front weights	
Roll-over protective structure(ROPS)	

OPTIONS	
Garden horizontal exhaust	
Garden fenders	
Falling object protection (FOP)	

CLUTCH	
Type	Dual
Diameter	305 mm

IRAN TRACTOR

INDUSTRIAL GROUP

ITM 240 2 WD



ITM 240 2 WD

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
Max P.T.O horse power	44 hp

ENGINE	
Model	3.152
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	Oil bath with pre cleaner
Fuel filter	High capacity with sedimentor
Exhaust	Vertical

HYDRAULICS	
Three point linkage	Category1 , 2 Changeable
Function	Draft , position and Response control
Max. lift capacity	1415 Kg@ lower links are horizontal
Max oil flow	16.7 liter /min
Max pressure	173 bar
Hydraulic pump	Piston pump

STEERING	
Type	Hydrostatic

TRANSMISSION	
Type	Sliding - gear,
Speeds	8 forward , 2 reverse

P.T.O	
Type	Single Speed , Live with engine
P.T.O speed	540 rev/min @1789 engine rev/min
No. Of splines	6
Shaft diameter	35 mm

ELECTRICS	
Voltage	12v, Negative earth
Alternator / Starter	45 Amp / 2.8 KW
Battery	66 AH
Lights	Head, Position, Number plate Brake and Rear plow
Other	Digitally panel Horn, trailer7 - pin plug

BRAKES	
Type	Oil immersed, wet brake
Actuation	Mechanical independent or locked together
Parking brake	Mechanical , Hand lever
Differential lock	Mechanical

WHEELS & TIRES		
Front	6-16	6 Ply
Rear	12.4*11 - 28	6 Ply

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

WEIGHTS AND DIMENSIONS	
with full fuel, oil, water and front weights	
Weight	
- Front	870 kg
- Rear	1200 kg
- Total	2070 kg
Length	3210 mm
Width	1800 mm
Height - over of ROPS	2430 mm
- over of steering wheel	1680 mm
Wheel base	1890 mm
Turning radius with braking	3000 mm
Ground clearance Under drawbar	260 mm

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	
Hydraulic quick couplers	
Toolkit	
Front weights	
Roll-over protective structure(ROPS)	

OPTIONS	
Garden horizontal exhaust	
Garden fenders	
Falling object protection (FOP)	

ITM 950

IRAN TRACTOR

INDUSTRIAL GROUP



ITM 950

Engine specification	
Make / Type	Motorsazan / 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 on the 4 wheels	
Lift	
Three point hydraulic lift (cat 1)	
Tires	
8.25 - 16	
Steering	
type	Hydraulic , Articulate



**Iran Tractor Industrial Services Company
(ITIS.Co)**



Backhoe Loader TDL100S 4WD



General Dimension

Capacities	
Fuel tank	120 lit.
Engine oil tank	8 lit.
Hydraulic oil tank	120 lit.
Hydraulic System	150 lit.
Gear box oil	43 lit.
Cooling tank	23 lit.

Hydraulic System	
Pump type	Gear model
Hydraulic pump's flow	116 lit/min
Max. Working pressure	260 bar

Electric System:	
Battery	12 V, 150 Ah

Engine	
Power	hp82
Type	Perkins Turbo MT4-248
No. of cylinders	4
Capacity	lit.4.06

Transmission	
Type	Shuttle
Forward	8 Speed
Reverse	8 Speed
System	4WD

Tyres	
Front	12.5 / 80 - 18 14 ply
Rear	17.5 - 25 16 ply

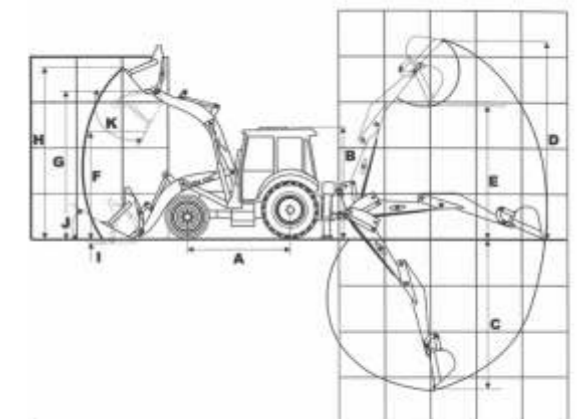
Total Weight of Machine: 6550 kg

Specification

Dimensions	
Overall length	6180 mm
Max. digger height	3680 mm
A: Wheel base	2305 mm
B: Height to top of cabin	2700 mm
Width of machine	2250 mm

Loader	
F: Dump height on 45°	2740 mm
G: Height to hinge pin	3470 mm
H: Max. working height	4230 mm
I: Digging depth	80 mm
J: Max. angle when loading	56°
K: Max. angle when unloading	45°
Capacity of bucket	760 lit.
Loader bucket width	2200 mm

Backhoe	
Max. Rotation angel of backhoe	170°
C: Digging depth Max.	3980 mm
D: Working height Max.	5340 mm
E: Loading height	3800 mm
Width of bucket	600 mm
Bucket capacity	193 lit.
Air Conditioning & Cab with Radio / Tape	



Specification are subject to change without notice.



Backhoe Loader TDL130



Total Weight of Machine: 7500 kg

General Dimension

Specification

Capacities	
Fuel tank	120 lit.
Engine oil tank	15.4 lit.
Hydraulic oil tank	120 lit.
Hydraulic System	150 lit.
Gear box oil	47.4 lit.
Cooling tank	30 lit.

Hydraulic System	
Pump type	Gear model
Hydraulic pump's flow	116 lit/min
Max. Working pressure	260 bar

Electric System	
Battery	2 x 12 V, 70 Ah

Engine	
Power	hp110
Type	Perkins 1006
No. of cylinders	6
Capacity	lit.6

Transmission	
Type	Shuttle
Forward	8 Speed
Reverse	8 Speed
System	4WD

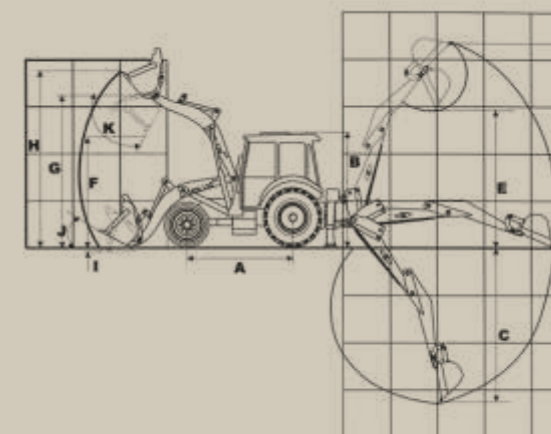
Tyres	
Front	12.00 - 20 16 ply
Rear	20.50 - 25 16 ply

Dimensions	
Overall length	6350 mm
Max. digger height	3690 mm
A: Wheel base	2570 mm
B: Height to top of cabin	2800 mm
Width of machine	2310 mm

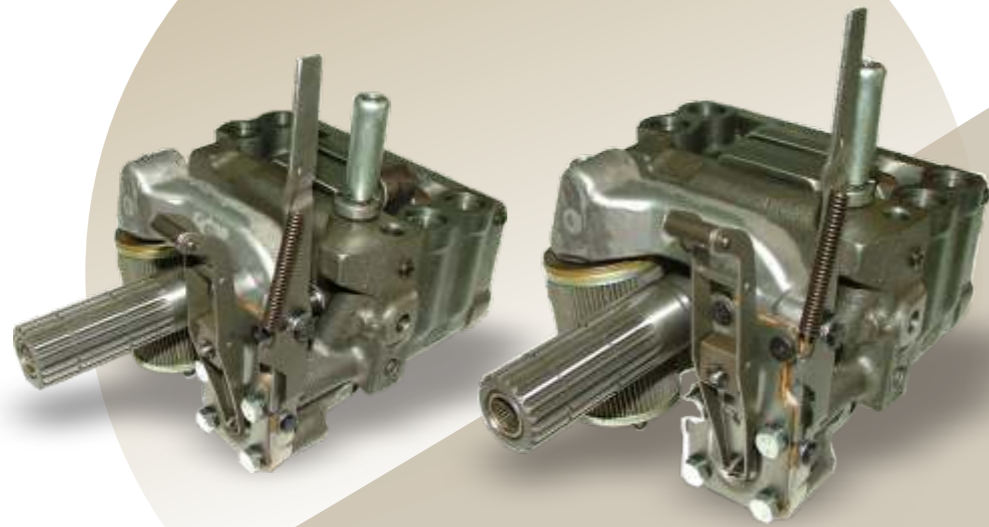
Loader	
F: Dump height on 45°	2740 mm
G: Height to hinge pin	3510 mm
H: Max. working height	4370 mm
I: Digging depth	100 mm
J: Max. angle when loading	45°
K: Max. angle when unloading	49°
Capacity of bucket	1200 lit.
Loader bucket width	2200 mm

Backhoe	
Max. Rotation angel of backhoe	170°
C: Digging depth Max.	3980 mm
D: Working height Max.	5340 mm
E: Loading height	3800 mm
Width of bucket	600 mm
Bucket capacity	193 lit.

Possible additional options	
Air Conditioning	
Cab with Radio / Tape	



Specification are subject to change without notice.



Hydraulic Lift Pump

ITM 240 - ITM 470
No: 3761330 M 91



Brake Cylinder

ITM 399 2WD - ITM 399 4WD
No: 3614780 M 91



Pressure Maintaining Valve

ITM 399 2WD - ITM 399 4WD
No: 3759547 M 93



Dashboard Assy.

ITM 475 - A5344
ITM 399- A5830



Selector Valve

ITM 399 - ITM 485 - ITM 800
No: 1682842 M 94



Spool Valve

ITM 399
No: 1696239 M 93

MOTORSAZAN

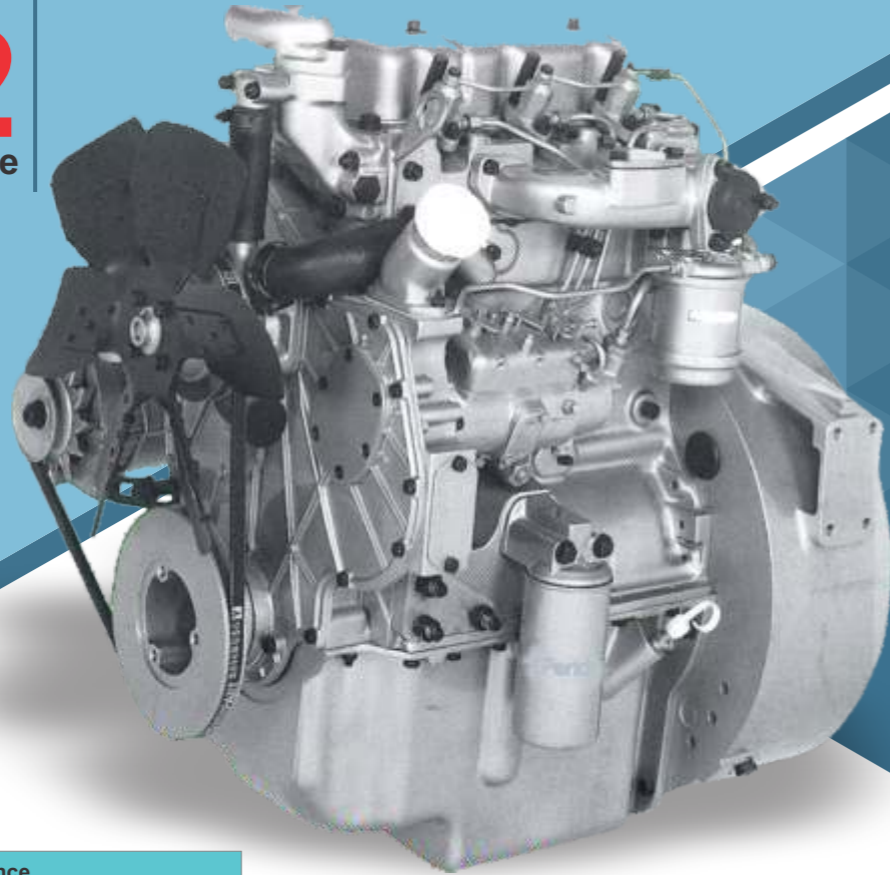


MOTORSAZAN



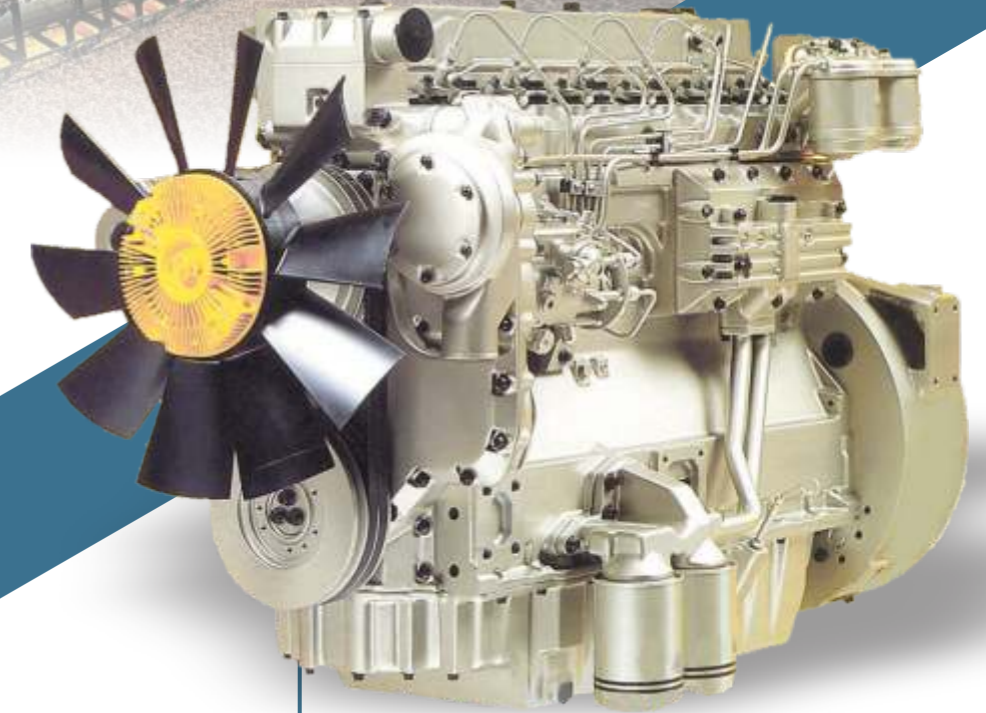
3.152

Agricultural Engine



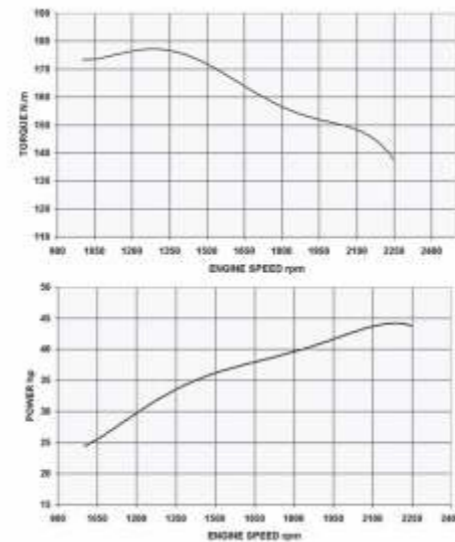
1006.6

Agricultural Engine



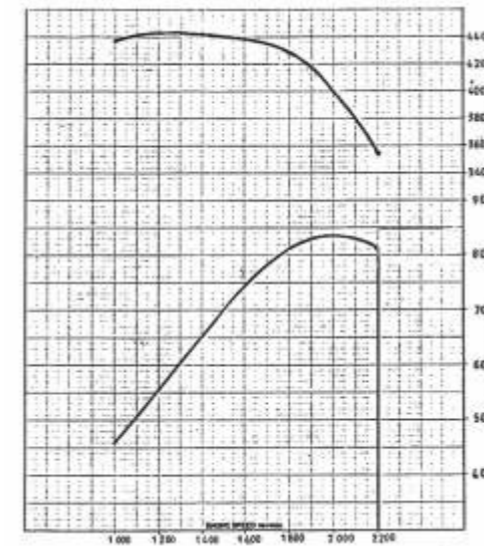
Performance	
Max power	35 kW at 2250 rpm
Max torque	170 N.m at 1400 rpm

Basic technical data	
Bore	91.4 mm(3.6 in)
Stroke	127 mm (5 in)
Number of cylinder	3
Cylinder arrangement	Vertical, Inline
Cubic capacity	2.5 litres (152.7 in ³)
Induction system	Naturally aspirated
Combustion system	Direct Injection
Compression ratio	18.5:1
Direction of rotation	Clockwise viewed from front
Cooling	Liquid
Weight*	270 kg
Overall dimensions* :	
Length	700 mm
Width	520 mm
Height	780 mm



Performance	
Max power	81.5 kW at 2200 rpm
Max torque	444 N.m at 1200 rpm

Basic technical data	
Bore	100 mm(3.937 in)
Stroke	127 mm (5 in)
Number of cylinder	6
Cylinder arrangement	Vertical, Inline
Cubic capacity	6 litres (365 in ³)
Induction system	Naturally aspirated
Combustion system	Direct Injection
Compression ratio	16.5:1
Direction of rotation	Clockwise viewed from front
Cooling	Liquid
Weight*	410 kg
Overall dimensions* :	
Length	944 mm
Width	632 mm
Height	780 mm



Approximate only and depends on application.

MN440A- 45GN

GENSET POWER (NG)



Standard specifications

Air Filter:
Mounted air filter

Fuel system:(Natural Gas, %25 Psi)
Single diaphragm air gas valve carburetor/mixer
Electrical governing-controlled by ECU
Shut off valve, gas filter included

Lubrication system:
Gray cast iron oil-sump with filler and dipstick
Spin-on full-flow oil filter
Water cooled oil cooler

Cooling system:
Belt driven circulating pump
22" Belt driven fan
Mounted radiator and pipework

Electrical equipment:
12 volts starter motor
12 volts, 55 Amps alternator with DC output
Switch for oil pressure
12 volts, 4 Amps ECU & throttle

Flywheel and Housing:
High inertia flywheel to SAE J620 size 10/11 1/2
Cast iron SAE3 flywheel housing

Mountings:
Front mounting brackets

Optional equipment:
Coolant temperature gauge
Lubrication oil pressure gauge and sender
Flywheel and coupling suitable for double bearing alternators
Rear mounting brackets

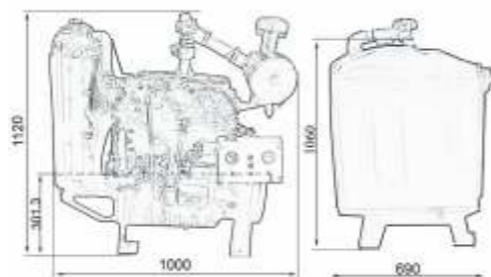
Basic technical data

Number of cylinder: 4
Cylinder arrangement: Vertical, Inline
Cycle: 4 stroke
Induction system: Naturally aspirated
Cubic capacity: 3.99 Litres (244 cu-in)
Bore: 100mm (3.935 in)
Stroke: 127 mm(5 in)
Compression ratio: 9.5:1
Direction of rotation: Clockwise viewed from front
Firing order: 1,3,4,2
Total Lubrication system capacity: 7.5 liter
Coolant capacity (including radiator): 16 liter
Engine total weight (dry): 424kg
Engine total weight (wet): 447kg

Performance

Engine speed rev/min	Type of operation	Typical generator output(net) kVA	Engine Power kW	bhp
1500	Standby power	33	30	40

Fuel consumption M ³ / hour	
Power rating	1500 rev/min
Standby power	13
75% of prime power	10.6
50% of prime power	8.3
25% of prime power	6



MN440A-60GD

GENSET POWER



Standard specifications

Air Filter:
Mounted air filter

Fuel system:
Rotary fuel injection pump
Mechanical governing
Single cartridge fuel filter and prefilter

Lubrication system:
Gray cast iron oil-sump with diller and dipstick
Spin-on full-flow oil filter

Cooling system:
Belt driven circulating pump
22" belt driven fan
Mounted radiator and pipework

Electrical equipment:
12 volts starter motor
12 volts, 55Amps alternator with DC output
Switch for oil pressure
12 volts shut down solenoid
Cold start aid

Flywheel and Housing:
High inertia flywheel to SAE J620 size 10/11 1/2
Cast iron SAE3 flywheel housing

Mountings:
Front mounting brackets

Optional equipment:
Coolant temperature gauge
Lubrication oil pressure gauge and sender
Heater/Starter switch
Flywheel and coupling suitable for double bearing alternators
Rear mounting brackets

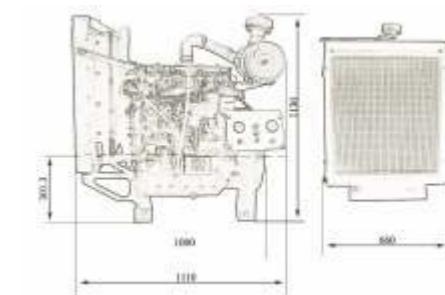
Basic technical data

Number of cylinder: 4
Cylinder arrangement: Vertical, Inline
Cycle: 4 stroke
Induction system: Naturally aspirated
Cubic capacity: 3.99 Litres
Bore: 100mm
Stroke: 127 mm(5 in)
Compression ratio: 16:1
Direction of rotation: Clockwise viewed from front
Firing order: 1,3,4,2
Total Lubrication system capacity: 7.5 liter
Coolant capacity (including radiator): 16 liter
Engine total weight (dry): 455kg
Engine total weight (wet): 478kg

Performance

Engine speed rev/min	Type of operation	Typical generator output(net) kVA	Engine Power kW	bhp
1500	Prime power	45	40	53.6
	Standby power	49.5	44	58.9

Fuel consumption Litres / hour	
Power rating	1500 rev/min
Standby power	11.5
Print power	9.2
75% of prime power	6.4
50% of prime power	4.1
25% of prime power	2.2



MTI 440C-100GD

GENSET POWER



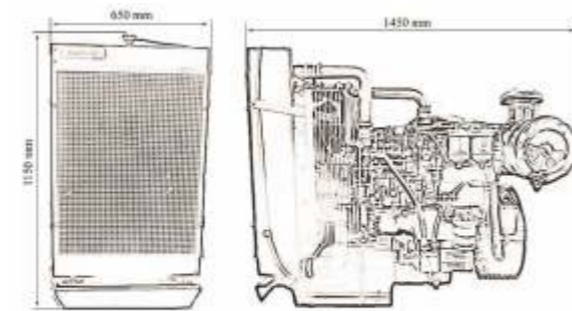
Standard specifications

- Air Filter:**
Mounted air filter
- Fuel system:**
In-Line fuel injection pump
Mechanical governing
Twin cartridge fuel filter and prefilter
Sedimenter/water trapfilter supplied loose
- Lubrication system:**
Mild steel sheet with filler and dipstick
Spin-on full-flow oil filter
- Cooling system:**
Gear driven circulating pump
22" belt driven, pusher type, polyamide fan
Mounted radiator, intercooler and pipework
Lubricating oil cooler
- Electrical equipment:**
12 volts starter motor
12 volts, 55 Amps alternator with DC output
Switch for oil pressure
12 volts shut down solenoid energized to run Thermostart
cold start aid
- Flywheel and Housing:**
High inertia flywheel to SAE J620 size 10/11½
Cast iron SAE3 flywheel housing
- Mountings:**
Front mounting brackets
- Optional equipment:**
Coolant temperature gauge
Lubrication oil pressure gauge and sender
Heater/Starter switch
Flywheel and coupling suitable for double bearing alternators
Rear mounting brackets

Performance

Engine speed rev/min	Type of operation	Typical generator output(net) kVA	Engine Power	
			kW	bhp
1500	Prime power	72	64.3	85.7
	Standby power	80	71.4	95.2

Fuel consumption Litres / hour	
Power rating	1500 rev/min
Standby power	15.5
Print power	14.7
75% of prime power	11
50% of prime power	7.3



All dimensions are in mm

4.248

General Industrial



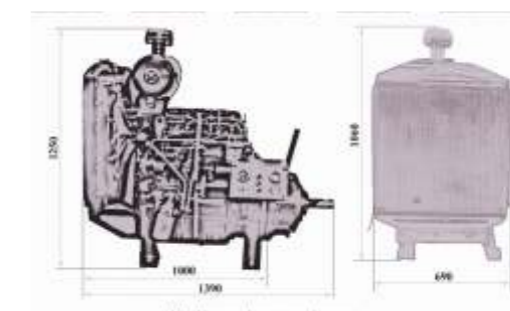
Standard specifications

- Air Filter:**
Mounted air filter
- Fuel system:**
Rotary fuel injection pump
Mechanical governing
- Lubrication system:**
Gray cast iron oil-sump with filler and dipstick
Spin-on full-flow oil filter
- Cooling system:**
Belt driven circulating pump
22" belt driven fan
Mounted radiator and pipework
- Electrical equipment:**
12 volts starter motor
12 volts, 55 Amps alternator with DC output
Switch for oil pressure
12 volts shut down solenoid
Cold start aid
- Flywheel and Housing:**
High inertia flywheel to SAE J620 size 10/11½
Cast iron SAE3 flywheel housing
- Mountings:**
Front and rear mounting brackets
- PTO:**
Single plate, SAE 3, Manual operated clutch with drive shaft.
- Control panel:**
Starter switch
Alternator Ammeter
Coolant temperature gauge
Heater button
Safety shutdown system for high coolant temperature and low lubricating oil pressure

Performance

Max power (intermittent)	44 kW at 1500 rpm
Max power (continues)	40 kW at 1500 rpm
Max torque (intermittent)	280 N.m
Max No-load speed	1575 rpm
Low idle speed	750 rpm

Fuel consumption Litres / hour	
Power rating	1500 rev/min
Max intermittent power	11.9
Max continues power	9.5
75% of max continues power	6.6
50% of max continues power	4.3
25% of max continues power	2.3



All dimensions are in mm

Basic technical data

- Number of cylinder: 4
Cylinder arrangement: Vertical, Inline
Cycle: 4 stroke
Induction system: Naturally aspirated
Cubic capacity: 4 Litres (248 cu-in)
Bore: 101mm(3.975 in)
Stroke: 127 mm(5 in)
Compression ratio: 16:1
Direction of rotation: Clockwise viewed from front
Firing order: 1,3,4,2
Total Lubrication system capacity: 7.5 liter
Coolant capacity (including radiator): 16 liter
Engine total weight (dry): 554kg
Engine total weight (wet): 577kg



4.248

Air Compressor Engine

Phaser 135Ti

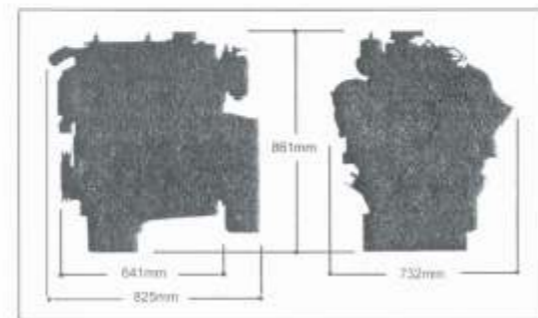
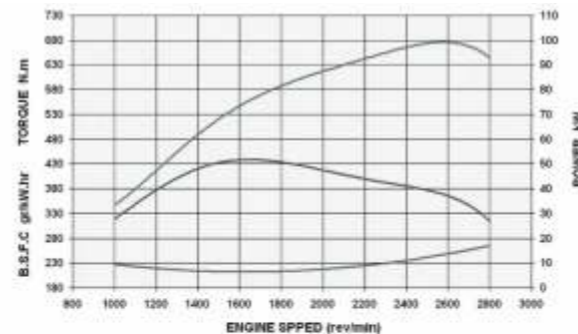
Performance

Euro II
101kW / 135bhp

Basic technical data

Bore/Stroke:	101 mm(3.937 in) / 127 mm
Number of cylinder:	4 in-line Vertical
Cubic capacity:	3.99 litres
Cycle:	4 stroke
Aspiration:	Turbocharged, intercooled
Combustion system:	Fastram direct Injection
Compression ratio:	17.25:1
Firing order:	1.3.4.2
Rotation:	Clockwise viewed from front
Fuel pump:	Bosch rotary, with boost control
Governing:	Mechanical
Cooling:	Liquid, belt driven water pump
Weight*:	330kg (727lb)
Thread form:	Metric
Electrical system:	12 volts (24 volts optional)
Power take-off :	From crankshaft axially or radially. Gear driven PTO from timing case on LHS beneath fuel pump
Air compressors:	Bendix 150 with steering pump PTO in tandem
Vacuum pump :	Clayton H175(optional)

* Engine without fan drive, flywheel, flywheel housing and starter motor. Weight does include alternator and filters.



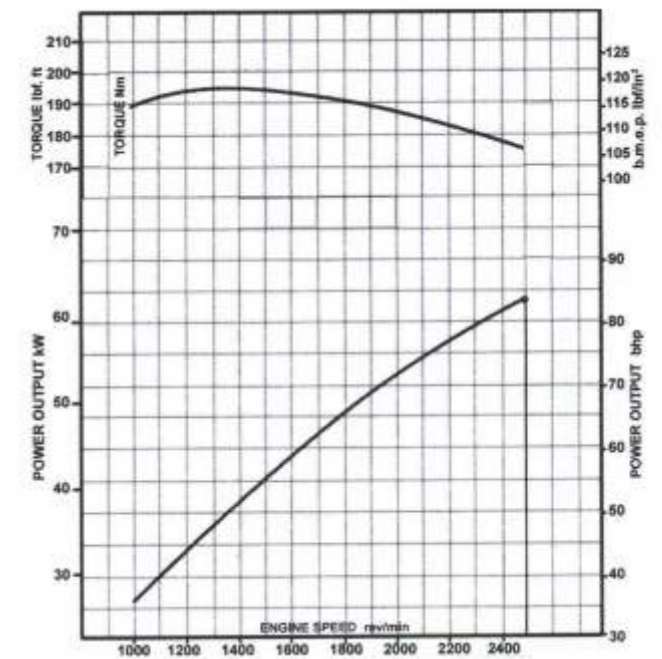
Performance

Max power	60 kW at 2500 rpm
Max torque	263 N.m at 1400 rpm

Basic technical data

Bore:	101 mm(3.975 in)
Stroke:	127 mm (5 in)
Number of cylinder:	4
Cylinder arrangement:	Vertical, Inline
Cubic capacity:	4/07 litres (248 in ³)
Induction system:	Naturally aspirated
Combustion system:	Direct Injection
Compression ratio:	16:1
Direction of rotation:	Clockwise viewed from front
Cooling:	Liquid
Electrical system:	12V
Power take off (P.T.O):	Additional crankshaft V belt pulley or axial P.T.O choice of two optional timing case P.T.O position.
Weight *:	272 kg
Overall dimensions *:	
Length:	678.7 mm
Width:	560 mm
Height:	748 mm

* Approximate only and depends on application



21.26M GENERATING SET

Engine:
Make: Motorsazan
Model: D3.152
Number of cylinders: 3
Cylinder arrangement: Vertical, Inline
Cycle: 4 stroke
Induction system: Naturally aspirated
Cubic capacity: 2.5 litres (152.7 cu-in)
Bore: 91.4 mm (3.6 in)
Stroke: 127 mm (5 in)
Compression ratio: 18.5:1
Firing order: 1,3,2
Direction of rotation: Clockwise viewed from front
Air filter: Mounted air filter
Fuel system: Rotary fuel injection pump, mechanical governing, single cartridge fuel filter and pre-filter
Lubrication system: Gray cast iron oil-sump with filler and dipstick, spin-on full-flow oil filter
Cooling system: Belt driven circulating pump, 17" belt driven fan, mounted radiator and pipework
Total lubrication system capacity: 6 litres
Coolant capacity (including radiator): 11 litres
Genset total weight approximately (dry): 731 kg

Alternator:
Make: Newage International Limited-England
Model: Stamford BCI184F
Specification: Single bearing, 4 poles, 3 phases
Voltage: 380 V
Frequency: 50 HZ

Chassis:
 Sheet metal of 5mm thickness, daily usage fuel tank, engine and alternator securely coupled and mounted on flexible rubber mountings.

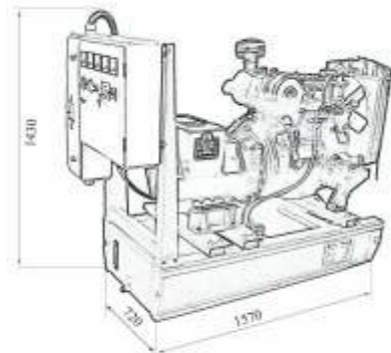
Electrical system:
 Twin sheet metal cases, 1.5 mm metal thickness, special rubber mountings to minimize panel vibration
 Manual Deepsea PLC Model 701 HC with hour counter
 Automatic shut down device on fault conditions for high coolant temperature and low lubricating oil pressure
 Ammeters
 Voltmeter with 7 positions selector switch
 Frequency meter
 Engine coolant temperature gauge
 Charge alternator current ammeter
 Emergency stop push button
 50 Amp C.B. switch mounted on secondary case
 Maintenance free 12V battery (optional)



Performance

Engine speed rev/min	Type of operation	Output rating kVA	Max output current (Amp) 3 phases - 380 v
1500 (50 HZ)	Prime power	23.4	35.6
	Standby power	25.7	39

Fuel consumption Litres / hour	
Power rating	1500 rev/min
Standby power	7.3
Print power	4.9
75% of prime power	3.8
50% of prime power	2.8
25% of prime power	1.9



All dimensions are in mm



E40-47AMF GENERATING SET

Engine:
Make: Motorsazan
Model: 4.248 G
Air filter: Mounted air filter
Fuel system: Rotary fuel injection pump, mechanical governing, single cartridge fuel filter and prefilter
Lubrication system: Gray cast iron oil-sump with filler and dipstick, spin-on full-flow oil filter
Cooling sydtem: Belt driven circulating pump, 22"polyamide pusher type fan, mounted radiator and pipework
Number of cylinders: 4
Cylinder arrangement: Vertical, Inline
Cycle: 4 stroke
Induction system: Naturally aspirated
Cubic capacity: 4 litres
Bore: 101 mm (3.975 in)
Stroke: 127 mm (5 in)
Compression ratio: 16:1
Direction of rotation: Clockwise viewed from front
Firing order : 1,3,4,2
Total lubrication system capacity : 7.5 litres
Coolant capacity (including radiator): 16 litres

Alternator:
Make: Newage International Limited-England
Model: Stamford UCDI224C1
Specification: Single bearing, 4 poles, 3 phases
Voltage: 380 V

Chassis:
 Sheet metal of 5mm thickness, daily usage fuel tank, Anti-vibration pads are fixed between the engine/alternator feet and the base frame.

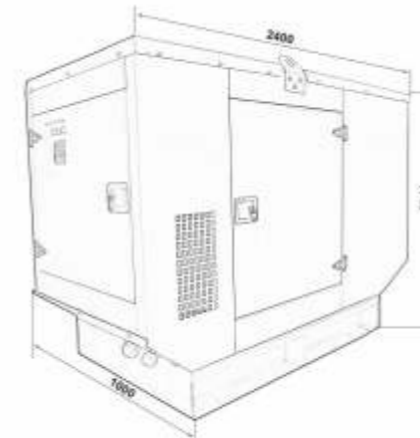
Electrical system:
 Automatic main failure
 Automatic engine starting and stopping and automatic crank disconnect
 Automatic load transfer switch
 Automatic shut down and alarm on fault conditions
 Emergency stop push button
 65 Amps automatic switch
 Frequency meter
 1.5mm steel sheet metal case, electrostatically painted
 Battery charger
 Maintenance free 12V battery (optional)

Canopy:
 1.5 mm sheet metal case, electrostatically painted
 High density P.V.C laminated foam for sound absorbing and inside shielding
 Without welding assembly, Doors on each side, All metal canopy parts are painted by electrostatic polyester powder paint, Exhaust silencer is protected against invironment influences, Thermally insulated engine exhaust system, Emergency stop push button is installed outside of the canopy, Easy lifting and moving and Easy maintenance and operation.

Performance

Engine speed rev/min	Type of operation	Output rating kVA
1500 (50 HZ)	Prime power	42.5
	Standby power	46.8

Fuel consumption Litres / hour	
Power rating	1500 rev/min
Standby power	11.9
Print power	9.5
75% of prime power	6.6
50% of prime power	4.3
25% of prime power	2.3



All dimensions are in mm

55.68M GENERATING SET

Engine:
Make: Motorsazan
Model: 1006.6
Number of cylinders: 6
Cylinder arrangement: Vertical, Inline
Cycle: 4 stroke
Induction system: Naturally aspirated
Cubic capacity: 5.985 litres (364.9 cu-in)
Bore: 100 mm(3.937 in)
Stroke: 127 mm(5 in)
Compression ratio: 16.5:1
Firing order: 1,5,3,6,2,4
Direction of rotation: Clockwise viewed from front
Air filter: Mounted air filter
 Fuel system Rotary fuel injection pump, mechanical governing, twin cartridge fuel filter and pre-filter
Lubrication system: Flat cast iron oil-sump with filler and dipstick, spin-on full-flow oil filter
Cooling system: Belt driven circulating pump, 20" belt driven fan, mounted radiator and pipework
Total lubrication system capacity: 17 litres
Coolant capacity (including radiator) : 27 liters
Genset total weight approximately (dry):

Alternator:
Make: Newage International Limited-England
Model: Stamford UCI224F
Specification: Single bearing, 4 poles, 3 phases
Voltage: 380 V, 72.5 kVA
Frequency: 50 HZ

Chassis:
 Sheet metal of 5mm thickness, daily usage fuel tank, engine and alternator securely coupled and mounted on flexible rubber mountings.

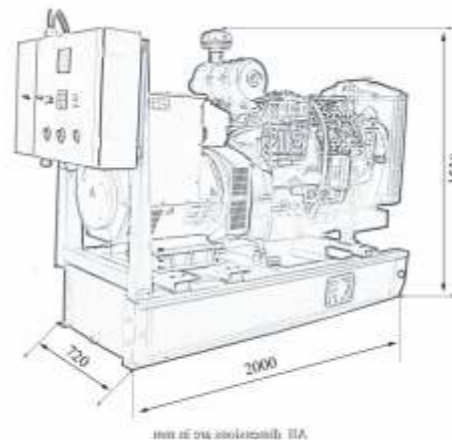
Electrical system:
 Twin sheet metal cases, 1.5 mm metal thickness, special rubber mountings to minimize panel vibration
 Manual Deepsea PLC Model 701 HC with hour counter
 Automatic shut down device on fault conditions for high coolant temperature and low lubricating oil pressure
 Ammeters
 Voltmeter with 7 positions selector switch
 Frequency meter
 Engine coolant temperature gauge
 Charge alternator current ammeter
 Emergency stop push button
 100 Amp C.B. switch mounted on secondary case
 Maintenance free 12V battery (optional)



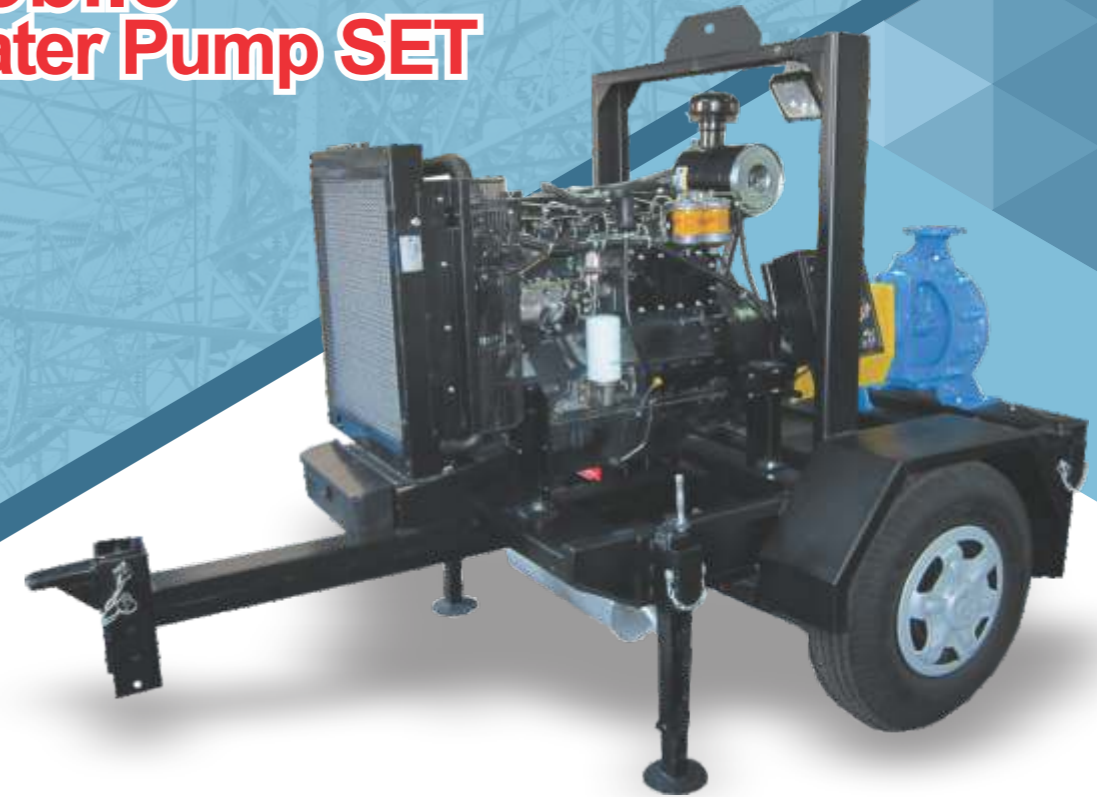
Performance

Engine speed rev/min	Type of operation	Output rating kVA	Max output current (Amp) 3 phases - 380 v
1500 (50 HZ)	Prime power	61.5	93
	Standby power	67.6	103

Fuel consumption Litres / hour	
Power rating	1500 rev/min
Standby power	16
Print power	14.5
75% of prime power	11.4
50% of prime power	8.1



Mobile Water Pump SET



- Strong and sustainable chasis
- 4 Stabilizer jacks
- Tool box and repairing tools
- Emergency lights
- Adjustable draw-bar

Standard Specifications

Engine:
Make: Motorsazan
Model: 6.60 G
Number of cylinders: 6
Max. power (intermittent): 60 kW at 1500rpm
Max. power (continuous): 55kW at 500rpm
Max. Torque: 390 N.m
Fuel tank capacity: 110 litres
Cooling system capacity: 27 litres
Lubrication system capacity: 17 litres

Pump specifications:
Head: 53 m
Capacity: 150 m³/h
Inlet diameter: 123 mm
Outlet diameter: 97 mm
Operating temperature range : -50° C to 110° C

Pump specifications can be changed according to customer demand and regarding engine power.

Fuel consumption Litres / hour	
Power rating	1500 rev/min
Intermittent power	16
Continues power	14.5
75% of prime power	11.4
50% of prime power	8.1
25% of prime power	5.3



Iran Tractor Foundry Co.

The Designer and Manufacturer of Complex
Cast - Iron Parts for Vehicles & Industries

Iran tractor foundry company was established in 1987 and is an independent company working with ITMCO group. This company is equipped with the latest modern automatic lines and facilities in industries , having 35 years of experience in producing all types of cast iron parts with annual capacity of 65000 ton. ITFCO has paid special attention to sustainable development and integral management systems for adaption of quality management system to attain strategic decision making for the organization , helping to improve its performance with regard to customer satisfaction.





Technology & Pattern Shop

In I.T.F Co. pattern shop utilizes experts as well as special computer aided facilities such as Solid Work, Power Shape, Power Mill, Simulation Softwares & etc. Different types of patterns, core boxes and fixtures for a variety of cylinder blocks, cylinder heads, central housings, hubs, axels, etc, have been desinged and manufactured, according to customers requirments. Also , tooling department is equipped with high-tech CNC(s), different types of universal milling machines, and CMM machine. This department has the capability of producing various methods of casting patterns, such as lost foam, green-sand, die-cast and other industrial facilities.



Core - shop

There are over 30 core producing machines in 5 types capable of producing more than 25,000 tons of complex cores. The method of core production is cold-box system . For large and complex components several cores are assembled ,coated and placed in molds by special fixtures rendering more accuracy.



Fettling shop

In fettling shop there are 100 grinding stations using manual grinding stand & automatic snag grinding.



Melting shop

Melting shop is equipped with 5 coreless induction furnaces each with 15 tons capacity , and 2 channel holding furnaces each with 45 tons capacity. There are also automatic melt pouring machines ranging from 7 to 10 tons of melt per-hour . Around 90,000 tons of melt can be supplied yearly to 4 molding lines consisting of gray & ductile, cast-iron types .



Line A

Molding line A, with 240 mold capacity per-hour and flask dimensions of 610 * 457 *152 * 152 mm, can produce cast-parts from 100 g, up to 35 kg . The speciality of this line is its great flexibility in manufacturing small size cast-parts using high pressure & high - speed squeeze technology.



Line B

Line B with 180 mold capacity per-hour and flask dimensions of 965*711*305*305mm can produce cast-parts up to 80 kg . This unique line has a very high-tech of computer controlled operation to achieve modern specifications of top quality molds & cast-parts. The Dynapulse process causes a high degree of uniform density throughout the mold,that is each area of the molding sand is pressed with a pre-set and desired pressure to obtain higher dimensional accuracy and smoother cast-part surface.





Line C

Molding line C , with 110 molding capacity per-hour and flask dimensions of 1,420*915*405*405 mm , is one of the greatest molding lines incorporating great dimension, high speed and consequently great cast-parts both in quality and volume, up to 300 kg . This Line is generally for production of several kinds of cylinder blocks and other heavy duty requirements of gray and cast-iron components . Jolt, high pressure and squeeze methods are applied in this line to reach optimum cast-part quality.



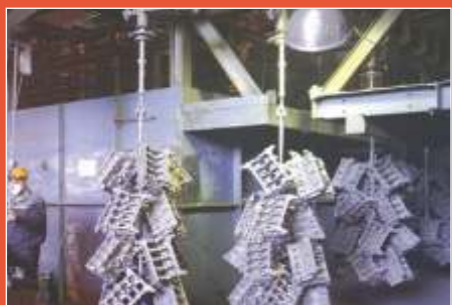
Line E

Line E with 180 molding capacity and flask dimensions of 700*550*280*280 mm, is a high-tech line with regard to its economical productivity. Also manual molding is done in this workshop, up to 500Kg.



Sand-shop

Sand-shop in I.T.F co. has modern equipment to supply molding sand mixture needed in three lines (A.B.C) through huge conveyor-belts. About 400 tons, per-hour , of prepared molding sand is supplied to molding lines undergoing nearly 20 specific property tests in laboratories.



Shot blast

Shot blast workshop consists of 8 types of shot-blast machines. This workshop has the capacity to shot 250 tons of cast-parts everyday, rating from 0.5 kg to 500 kg .



Quality control

One of the key factors in competitive markets is quality attainments.

Quality control department in I.T.F Co. has three tasks :

- 1- Controlling of inlet materials .
- 2- Supervising the production process.
- 3- Final complete control of mechanical , metallurgical properties and specifications of components .

Of course modern equipment have been of great aid and importance in measuring and coordinating product quality by constant testing in sand , mechanical , wet chemistry, metallographic, none-destructive tests , quantometer , and X-ray laboratories that do their best to give the customer the desired standard end-product.



Samples of Production





Tabriz Office:

P.O.Box: 51978-15863 Sardroud Road- IRAN
TRACTOR MANUFACTURING COMPANY

Tel: +98 41 342 458 50

Fax: +98 41 342 458 58

Tehran Office:

Corner of Nakh Zarin Ave., Opposite of Shahab
Khodro, 9th Kilometer of Special Road of Karaj.

Tel: +98 21 445 132 01-2

Fax: +98 21 445 132 03

Web Site: www.itmco.ir , <https://en.itmco.ir> E-mail: info@itmco.ir