



DM4

DOLMAR[®]

**4-Stroke
Engine Series**

CLEANER Output
LEANER Consumption
GREENER Savings

www.dolmarpowerproducts.com

DO MORE
WITH **DOLMAR[®]**

PB-251.4

- Easy-starting, powerful and smooth running OHV 4-stroke engine
- Low fuel consumption and low exhaust emissions
- Powerful airflow for moving debris including leaves, dirt, litter and even powdered snow

motor displacement	1.5 cu. in (24.5 cc)
weight	10.4 lbs
power	0.81 kW (1.10 bhp)
max air volume	320 cfm
max air speed	150 mph
fuel tank capacity	17.9 oz
sound output	65 dB(A)

PB-251.4



PB-7601.4

- Powerful, high-output, commercial OHV 4-stroke engine
- Automatic decompression valve system for easy starting
- Low exhaust emissions and low fuel consumption rate provide 80+ minutes operation on full tank of fuel

motor displacement	75.6 cc
weight	23.6 lbs
power	2.8 kW (3.8 bhp)
max air volume	720 cfm
max air speed	195 mph
fuel tank capacity	64.0 oz

PB-7601.4



IDEAL

MP-352.4

- Easy-starting, powerful and smooth running OHV 4-stroke engine
- Low fuel consumption and low exhaust emissions
- Enormous power in an easy-operating and lightweight package for ultimate portability

motor displacement	33.5 cc
weight	16.5 lbs
max pumping volume	34 gal/min
max delivery (head)	147 ft
max suction (lift)	26 ft
fuel tank capacity	21.9 oz

MP-352.4



Clean Exhaust Emissions

Easy Maintenance

2-Stroke Engine
Exhaust Gas is 1/10



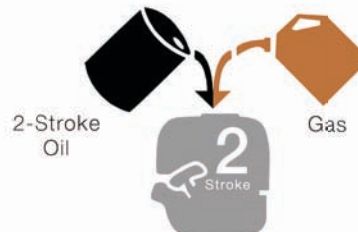
Layered Scavenging 2-Stroke Engine
Exhaust Gas is 1/2



4-Stroke Engine
HC+NOx: only 27g/kWh



Conventional 2-Stroke Engine



DM4
DOLMAR
4-Stroke Engine Series



Only 10% of 2-stroke emission!

Eliminate downtime mixing fuel!

Thanks to innovative development the DOLMAR **DM4** series of 4-stroke engines are the ideal power source for portable power equipment. Technological advantages are noticeable at every level of performance, both for the operator and for the environment!

POWER

For Portable Power Equipment

Cleaner Exhaust Emission

Easy Maintenance

Compact and Lightweight

Low Sound Output

Minimum Fuel Consumption

Reduced Operating Costs



MS-245.4 C

- Automatic decompression valve system with primer bulb for easy starting
- Ergonomic rubber handles and low sound output for more comfortable operation
- Environmentally friendly designed engine with low exhaust emissions and low fuel consumption rate

cutting swath	16"
engine type	4-stroke
motor displacement	1.5 cu. in (24.5 cc)
power	0.7 kW (0.9bhp)
weight	11.5 lbs
Fuel tank capacity	16.9 oz.

MS-245.4 U

- Automatic decompression valve system with primer bulb for easy starting
- Ergonomic rubber handles and low sound output and multi-position harness connection for more comfortable operation
- Environmentally friendly designed engine with low exhaust emissions and low fuel consumption rate

cutting swath	8"
engine type	4-stroke
motor displacement	1.5 cu. in (24.5 cc)
power	0.7 kW (0.9bhp)
weight	12.6 lbs
Fuel tank capacity	16.9 oz.

*Powerful Comfort
Economical Operation
Environmentally Friendly*

Compact and Lightweight



More Balanced Handling

Low Sound Output

2-Stroke Engine

94.5dB

DM4
DOLMAR
4-Stroke Engine Series

87.7dB

Noise valve for One 2-stroke engine corresponds to that of Five 4-stroke engine.

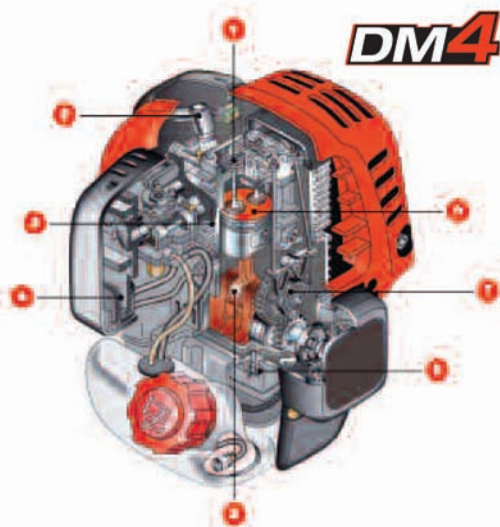
Quieter Operation

Minimum Fuel Consumption - Reduced Operating Costs



Shown at right are comparisons of the **DM4** engine series in several model configurations. Our comparisons indicate the superiority of the DOLMAR 4-stroke engines as compared to conventional 2-stroke engines. The advantages illustrated prove lower exhaust emissions for more environmentally friendly performance, and lower overall costs for more economical operation.

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- 1 Valve stem
- 2 Spark plug
- 3 Chromed cylinder
- 4 Double layer felt and foam filter
- 5 Connecting rod with needle bearings both sides
- 6 Check valve
- 7 Automatic decompression
- 8 Piston

... environmentally friendly

4-stroke engine			
Displacement	24.5cc	33.5 cc	75.6 cc
Compliant Emission Standard	50 g/kW/hr	50 g/kW/hr	72 g/kW/hr
Certified Emission Level	27 g/kW/hr	21 g/kW/hr	13 g/kW/hr
comparable 2-stroke engines			
Displacement	24.5cc	30.5 cc	48.6 cc
Certified Emission Level	224 g/kW/hr	201 g/kW/hr	204 g/kW/hr
Carbon NHC and Nitrous oxide NOX comparison	27	224	
	4-stroke	2-stroke	
	21	201	
	4-stroke	2-stroke	
	13	204	
	4-stroke	2-stroke	

Cleaner Exhaust Emissions: exhaust emissions are reduced significantly when compared to similar 2-stroke models. DOLMAR 4-stroke engines meet emission regulations of CARB Tier 3 and EPA Phase 3.

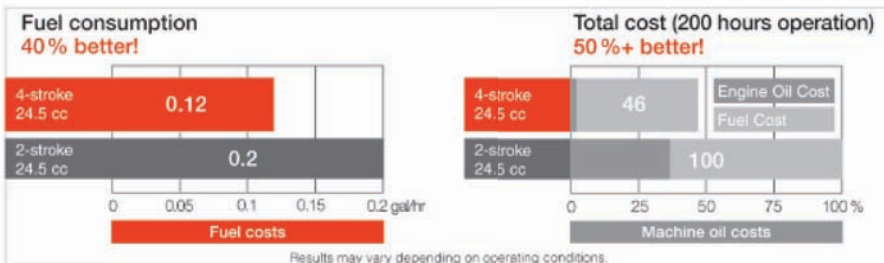
Below regulatory requirements by up to **80%!**

24.5 cc examples - hand held blower, string trimmer, brushcutter:

200 Hrs. Use Comparison	4-stroke engine (24.5 cc) Regular Gasoline	2-stroke engine (24.5cc) 50:1 Mixed Fuel
Fuel Use	0.12 (gal/hr)	0.2 (gal/hr)
Fuel Cost	0.12 (gal/hr) X \$3.00 (gal) X 200 (hr) = \$72	0.2 (gal/hr) X \$3.00 (gal) X 200 (hr) = \$120
Oil use	0.08 (Qt) X 4 (oil chng) X \$4.98 (Qt) = \$1.60	\$0.99 (per 2.6oz) X 40 (gal-fuel) = \$39.60
TOTAL Cost	\$73.60	\$159.60

A Savings of \$86 thanks to the 4-stroke engine (200 hours of operation)

Low Operating Costs In comparison: DOLMAR 24.5cc 4-stroke engine to a comparable 2-Stroke engine.



75.6 cc example - back pack blower:

	4-stroke engine (75.6cc) Regular Gasoline	2-stroke engine (62.0cc) Mixed Gasoline
Fuel Use	0.33 (gal/hr)	0.47 (gal/hr)
Fuel Cost	0.33 (gal/hr) X \$3.00 (gal) X 200 (hr) = \$198	0.47 (gal/hr) X \$3.00 (gal) X 200 (hr) = \$282
Oil use	0.23 (Qt) X 4 (oil chng) X \$4.98 (Qt) = \$4.60	\$0.99 (per 2.6oz) X 94 (gal-fuel) = \$93.00
TOTAL Cost	\$203	\$375

Save on running cost up to \$172 (per 200 hrs of operation). In case of 1 year use (800 hrs operation), that's a savings of \$688!

Low Operating Costs In comparison: DOLMAR 75.6cc 4-stroke Hand Held Blower to a comparable 2-stroke blower.

