

SELECTION

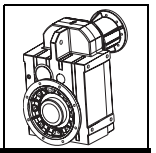
MOTORIZED SHAFT MOUNT REDUCER (MSM)

OIL QUANTITIES

The quantities shown in the following tables are reference values only.

Type	Red. stage	Mounting position															
		Foot Mounted															
		B3		B3-01		B6		B6-02		B8		B8-01		V5		V6	
(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)
MW38	2	2.5	1.2	2.5	1.2	3.2	1.5	1.7	0.8	2.5	1.2	2.5	1.2	3.6	1.7	4.2	2.0
	3	2.5	1.2	2.3	1.1	3.2	1.5	1.7	0.8	2.5	1.2	2.3	1.1	4.2	2.0	4.2	2.0
MW48	2	3.8	1.8	3.8	1.8	4.2	2.0	3.0	1.4	3.8	1.8	3.8	1.8	6.3	3.0	6.1	2.9
	3	3.8	1.8	3.6	1.7	4.2	2.0	3.2	1.5	3.8	1.8	3.6	1.7	6.1	2.9	6.1	2.9
MW68	2	8.0	3.8	8.0	3.8	9.5	4.5	5.9	2.8	8.0	3.8	8.0	3.8	10.1	4.8	12.3	5.8
	3	7.8	3.7	7.6	3.6	9.3	4.4	6.1	2.9	7.8	3.7	7.6	3.6	13.5	6.4	12.0	5.7
MW88	2	16.5	7.8	16.9	8.0	18.4	8.7	14.2	6.7	16.5	7.8	16.9	8.0	21.8	10.3	24.7	11.7
	3	16.3	7.7	15.9	7.5	18.4	8.7	13.7	6.5	16.3	7.7	15.9	7.5	26.6	12.6	24.1	11.4
MW108	2	24.9	11.8	25.4	12.0	30.4	14.4	18.8	8.9	24.9	11.8	25.4	12.0	31.7	15.0	40.4	19.1
	3	24.7	11.7	23.7	11.2	29.4	13.9	19.2	9.1	24.7	11.7	23.7	11.2	39.9	18.9	39.7	18.8
MW128	2	45.4	21.5	45.6	21.6	58.5	27.7	30.0	14.2	45.4	21.5	45.6	21.6	58.5	27.7	71.9	34.0
	3	45.0	21.3	43.5	20.6	57.3	27.1	31.5	14.9	45.0	21.3	43.5	20.6	72.9	34.5	73.1	34.6
MW148	2	67.0	31.7	66.6	31.5	84.1	39.8	46.1	21.8	67.0	31.7	66.6	31.5	90.9	43.0	103.6	49.0
	3	65.9	31.2	62.6	29.6	82.2	38.9	47.1	22.3	65.9	31.2	62.6	29.6	109.1	51.6	104.4	49.4
MW168	2	103.8	49.1	104.0	49.2	133.8	63.3	67.8	32.1	103.8	49.1	104.0	49.2	139.3	65.9	148.1	70.1
	3	102.3	48.4	97.4	46.1	131.0	62.0	69.1	32.7	102.3	48.4	97.4	46.1	168.4	79.7	149.2	70.6

Type	Red. stage	Mounting Position											
		Flange Mounted											
		B5		B5-01		B5-02		B5-03		V1		V3	
(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)		
MW38	2	3.2	1.5	2.5	1.2	1.7	0.8	2.5	1.2	3.6	1.7	4.2	2.0
	3	3.2	1.5	2.3	1.1	1.7	0.8	2.5	1.2	4.2	2.0	4.2	2.0
MW48	2	4.2	2.0	3.8	1.8	3.0	1.4	3.8	1.8	6.3	3.0	6.1	2.9
	3	4.2	2.0	3.6	1.7	3.2	1.5	3.8	1.8	6.1	2.9	6.1	2.9
MW68	2	9.5	4.5	8.0	3.8	5.9	2.8	8.0	3.8	10.1	4.8	12.3	5.8
	3	9.3	4.4	7.6	3.6	6.1	2.9	7.8	3.7	13.5	6.4	12.0	5.7
MW88	2	18.4	8.7	16.9	8.0	14.2	6.7	16.5	7.8	21.8	10.3	24.7	11.7
	3	18.4	8.7	15.9	7.5	13.7	6.5	16.3	7.7	26.6	12.6	24.1	11.4
MW108	2	30.4	14.4	25.4	12.0	18.8	8.9	24.9	11.8	31.7	15.0	40.4	19.1
	3	29.4	13.9	23.7	11.2	19.2	9.1	24.7	11.7	39.9	18.9	39.7	18.8
MW128	2	58.5	27.7	45.6	21.6	30.0	14.2	45.4	21.5	58.5	27.7	71.9	34.0
	3	57.3	27.1	43.5	20.6	31.5	14.9	45.0	21.3	72.9	34.5	73.1	34.6
MW148	2	84.1	39.8	66.6	31.5	46.1	21.8	67.0	31.7	90.9	43.0	103.6	49.0
	3	82.2	38.9	62.6	29.6	47.1	22.3	65.9	31.2	109.1	51.6	104.4	49.4
MW168	2	133.8	63.3	104.0	49.2	67.8	32.1	103.8	49.1	139.3	65.9	148.1	70.1
	3	131.0	62.0	97.4	46.1	69.1	32.7	102.3	48.4	168.4	79.7	149.2	70.6



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MOTORIZED SHAFT MOUNT REDUCER (MSM)

OIL QUANTITIES

The quantities shown in the following tables are reference values only.

Type	Red. stage	Mounting Position											
		Shaft Mounted											
		H-01		H-02		H-03		H-04		H-05		H-06	
		(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)	(pints)	(liters)
MW38	2	3.2	1.5	1.7	0.8	2.5	1.2	2.5	1.2	3.6	1.7	4.2	2.0
	3	3.2	1.5	1.7	0.8	2.5	1.2	2.3	1.1	4.2	2.0	4.2	2.0
MW48	2	4.2	2.0	3.0	1.4	3.8	1.8	3.8	1.8	6.3	3.0	6.1	2.9
	3	4.2	2.0	3.2	1.5	3.8	1.8	3.6	1.7	6.1	2.9	6.1	2.9
MW68	2	9.5	4.5	5.9	2.8	8.0	3.8	8.0	3.8	10.1	4.8	12.3	5.8
	3	9.3	4.4	6.1	2.9	7.8	3.7	7.6	3.6	13.5	6.4	12.0	5.7
MW88	2	18.4	8.7	14.2	6.7	16.5	7.8	16.9	8.0	21.8	10.3	24.7	11.7
	3	18.4	8.7	13.7	6.5	16.3	7.7	15.9	7.5	26.6	12.6	24.1	11.4
MW108	2	30.4	14.4	18.8	8.9	24.9	11.8	25.4	12.0	31.7	15.0	40.4	19.1
	3	29.4	13.9	19.2	9.1	24.7	11.7	23.7	11.2	39.9	18.9	39.7	18.8
MW128	2	58.5	27.7	30.0	14.2	45.4	21.5	45.6	21.6	58.5	27.7	71.9	34.0
	3	57.3	27.1	31.5	14.9	45.0	21.3	43.5	20.6	72.9	34.5	73.1	34.6
MW148	2	84.1	39.8	46.1	21.8	67.0	31.7	66.6	31.5	90.9	43.0	103.6	49.0
	3	82.2	38.9	47.1	22.3	65.9	31.2	62.6	29.6	109.1	51.6	104.4	49.4
MW168	2	133.8	63.3	67.8	32.1	103.8	49.1	104.0	49.2	139.3	65.9	148.1	70.1
	3	131.0	62.0	69.1	32.7	102.3	48.4	97.4	46.1	168.4	79.7	149.2	70.6

- Density of Standard Oil VG220: 7.51 lb./gal. (1.98 lb./ltr.)

MSM Reducers are furnished with fill, oil level and drain plugs. Before starting operations, the fill plug must be replaced with the separately supplied breather plug.

Speed reducers are shipped with their lubricant quantity. **Mounting position must to be given with the order.**

Oil quantities are approximate and will vary dependant on the ratio of the unit. If in question about the required level, the correct oil level can be determined by checking the oil level plug. MW38 (2- and 3-stage gear units) have one oil plug, ventilation is not necessary.

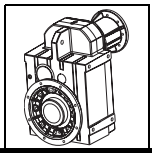
Do not mix oil of different manufacturers. If a change to another type of oil is made, the lubrication should be drained and the gear-case flushed with clean mineral spirits to avoid any possible compatibility problems between the previous lubrication and the new oil. The recommended list below shows the alternatives to the standard factory filled lubricant. This is not an exclusive recommendation and equivalent lubricants of other manufacturers can be used.

Lubrication selection table

The standard factory filled lubricant is mineral oil ISO 220.

Ambient temperature	Marking according to	Examples of lubricants			
		MOBIL	TRIBOL	EXXON	AGMA
+10°C to +40°C (+50°F to +104°F)	Mineral Oil ISOVG220 STD	Mobilgear 630 STD	Tribol 1100 ISO220 STD	Spartan EP220 STD	5EP 5ep
-10°C to +10°C (+14°F to +50°F)	Mineral Oil ISOVG100 RL05	Mobilgear 627 RL05	Tribol 1100 ISO100 RL05	Spartan EP100 RL05	3EP RL05
-35°C to -10°C (-30°F to +14°F)	Synthetic Oil SOVG220	Mobil SHC-630 RL01	Tribol 800/150 ISO150 RL03	---	4S
Mineral Grease (for ball and roller bearings)		Mobilith AW3, AW2	---	Unirex N2, N3	---

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MOTORIZED SHAFT MOUNT REDUCER (MSM)

Other brands upon request. For assistance contact application engineering.

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