



# ELSCINT AUTOMATION



## Elscint Single / Double Reduction Gear Boxes / Geared Motors :

*Elscint has been manufacturing Gear Boxes since 1983 and is a reputed name for quality F.H.P. Worm Reduction Gear Boxes.*

*Elscint Speed reducers are required in many applications and the selection of the right type of speed reducer for a particular application is most important. Elscint geared motors and gear boxes are compact and are suitable for low speed, high torque applications. Elscint reducers are available in single and double reduction versions. They can be mounted in most convenient manner. And more suitable where space is at premium.*

### Construction :

Elscint Gear box is directly mounted on the front motor flange. Elscint can offer Cast Iron and Al housing as per customers need. Elscint gear boxes with flange mounting output shaft are also available. The worm is of hardened and ground alloy steel. Worm is directly mounted on the motor shaft and other end is supported in the housing with the help of anti-friction ball bearings. Worm wheel is of Phosphorus bronze material with tin (5%) more than 7% to 8%. The output shaft is supported in anti friction ball bearings. Ground profile of worm and hob cut worm wheel with proper lubrication and correct methods of assembling, ensure high efficiencies during working conditions. Generally Elscint gear boxes are either oil or Grease Lubricated. If the selection and mounting of the gear box / geared motor is proper then only maintenance work that is to be performed is of topping the oil/grease at predetermined interval. Elscint geared motors and gear boxes are also available in double reduction units with reduction ratios of as high as 3600:1 in DM 38.58 model and 4200:1 in DM 38.52 model. Any permutation and combination of the standard ratios are possible. Elscint Model DM 38.52 offer same ratios higher torque capacity upto 10 KGM Torque. Convenient mounting positions for foot mounted geared motors are available are designed for easy adaptability and reduce assembly time at customers end. Flange mounted geared motors are also available for direct mounting.

### Ratios :

Standard Ratios 6:1, 12:1, 18:1, 24:1, 36:1, 48:1, 59:1, 60:1 in Model DM 58 and 12:1, 18:1, 24:1, 36:1, 48:1, 70:1 in Model DM 52. Other ratios are available on request for single Reduction and multiple ratios in Double reduction Units.

### Types of Motors :

3 phase, 440 Volts, Foot mounted, tefc, 0.18 kw / 0.25 HP to 1 HP Motors with 1400 rpm or 2800 rpm are provided. Single Phase Motors and PMDC Motors can also be provided.

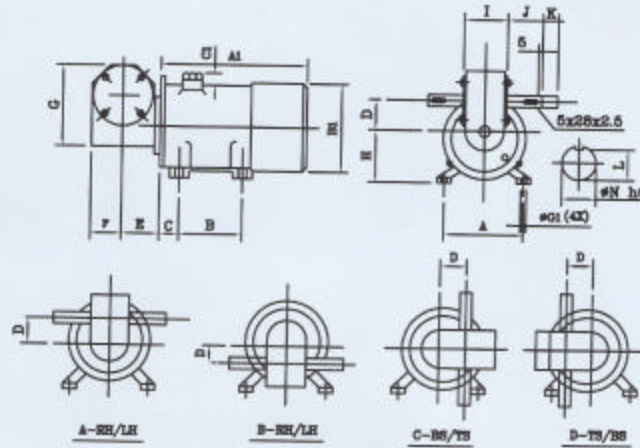
### Lubrications :

1/8 BSP plug is provided at two places for model DM58, DM52 and DM 38.52 models for the purpose of filling and removing the lubricating oils. Recommended Lubricant is Grade S20 Elscint dispatched geared motors and gearboxes are filled with oil for operation from 10 degrees Celsius to 44 degrees Celsius. For long life from the reducers it is necessary to observe the leakage and preventive refilling of the oil from time to time. To ensure that gear is not running in dry condition. The oil level should be checked and adjusted if required. Speed reducers in normal operations can generate temperatures 75 degrees Celsius depending upon the application and the severity of the application (Loading, duration of service and ambient temperatures)

### Oil Seals :

Elscint uses high quality oil seals.

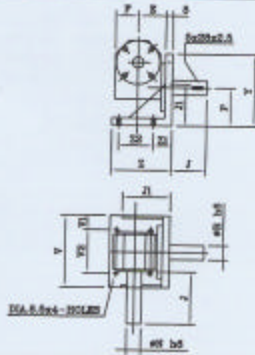
[www.elscintautomation.com](http://www.elscintautomation.com)



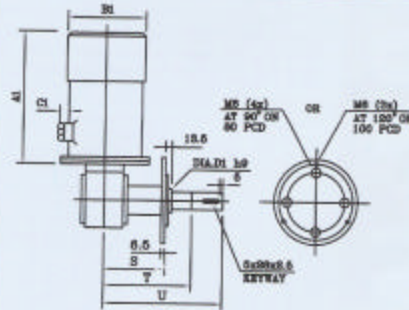
A, B, C, D POSITION OF HOUSING  
 LH - LEFT HAND OUTPUT SHAFT  
 RH - RIGHT HAND OUTPUT SHAFT  
 BS - BOTTOM SIDE OUTPUT SHAFT

TS - TOP SIDE OUTPUT SHAFT  
 S - STANDARD OUTPUT SHAFT  
 L - EXTRA LONG OUTPUT SHAFT

**GEARED MOTOR FOOT MOUNTED IN MODEL DM 38 & DM 52**



**BRACKET MOUNTED GEARBOX IN MODEL DM 38 & DM 52**



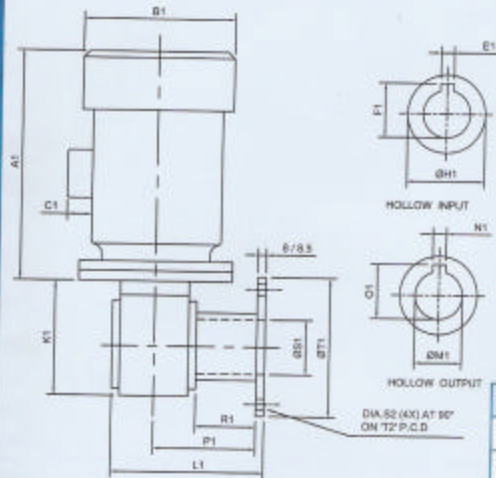
**GEARED MOTOR FLANGE MOUNTED SOLID SHAFT IN MODEL DM 38 & DM 52**

SR.	FRAME NO.	H	A	B	C	H1	E1	F+0.2	G1	A1	B1	C1	MODEL	TORQUE (kgcm)
1	63	63	100	80	25	11	4	13	7	170	125	50	DM-38	80-130
2	71	71	112	90	35	14	5	16.5	7	190	140	50	DM-38	80-130
3	80	80	125	100	50	19	6	22	10	220	195	50	DM-52	250-300

SR.	MODEL	D	D1	E	F	G	I	J	K	L	M	N	P	R	S	T	U	V	X	Y	Z	Z1	Z2	V1	V2	M	N1	O1	
1	DM-38	38	60	45	40	102	55	44	68	20	12.5	5	15	60	15	68	117	175	110	4	135	100	25	60	20	60	-	-	-
2	DM-52	52	60	75	60	134	78	59	78	20	17.5	5	20	75	19	78	122	182	135	6	145	130	30	80	25	80	20	6	23

Standard Ratio : 6:1, 12:1, 18:1, 24:1, 36:1, 48:1, 55:1 and 60:1 in Model DM38, and 12:1, 18:1, 24:1, 36:1, 48:1 and 70:1 in Model DM52. Other Ratios on request for single reduction.  
 Torque Output : For DM-38 : 80 to 100 kgcm. For DM-52 : 250 kgcm to 300 kgcm.

**ELSCINT SINGLE REDUCTION F.H.P. MOTOR UNITS : MODELS DM 38**

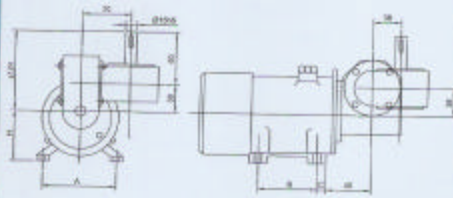


**GEARED MOTOR FLANGE MOUNTED HOLLOW OUTPUT IN MODEL DM 38 & DM 52**

MODEL	K1	L1	P1	R1	S1	T1	S2	T2
DM 38	88	91	64	25	50	100	6.5	80
DM 52	133	125	79	38	52	125	12	90

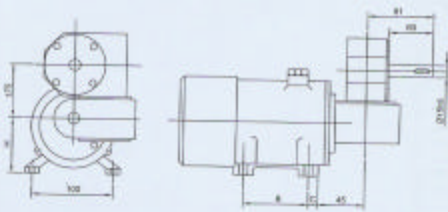
**ELSCINT DOUBLE REDUCTION F.H.P. MOTOR UNITS : MODELS DM 38-38** (Output torque 150 kgcm)

**HOUSING POSITION-A**



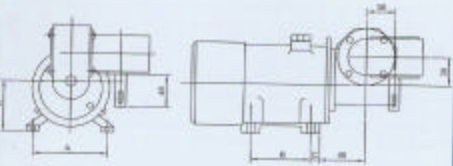
**OUTPUT SHAFT UPWARD R.H. OR L.H. (MIRROR IMAGE)**

**HOUSING POSITION-C**

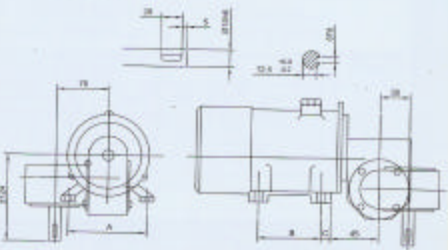


**INLINE VERSION**

**HOUSING POSITION A & B**

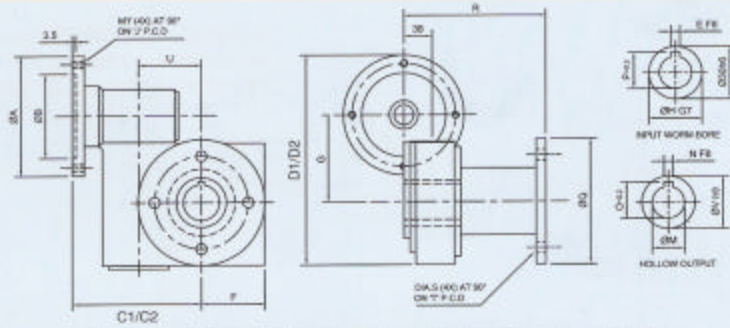


**OUTPUT SHAFT DOWNWARD R.H. OR L.H. CAN BE AVAILABLE**



**OUTPUT SHAFT DOWNWARD L.H. OR R.H. CAN BE AVAILABLE**

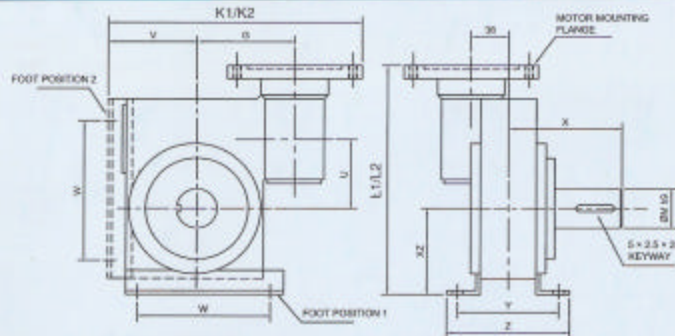
**DOUBLE REDUCTION GEAR BOX  
FLANGE MOUNTED HOLLOW OUTPUT**



MODEL	F	G	ΦQ	ΦM	N	O	R	S	T	U	ΦV
DM 3838	49	71	100	15	5	17.5	102	7	80	38	30
				20		22.5					
DM 3852	68	90	125	20	6	23	118	13	90	52	40
				25		29					

C1, D1 FOR DM 3838 AND C2, D2 FOR DM 3852

**DOUBLE REDUCTION GEAR BOX  
FOOT MOUNTED SOLID OUTPUT**



MODEL	G	ΦM	U	V	W	X	Y	Z	XZ
DM 3838	71	15	38	62	81	98	88	108	47
		20							
DM 3852	90	20	52	99	110	113	98	115	77
		25							

K1, L1 FOR DM3838 & K2, L2 FOR DM3852

STANDARD RATIO : 144:1, 216:1, 324:1, 432:1, 648:1, 1296:1, 4200:1 OTHER RATIOS ON REQUEST.  
TORQUE OUTPUT : 10 KG-M WITH SERVICE FACTOR 1

SR.NO.	MOTOR	A	B	C1	C2	D1	D2	E	P	H	I	J	K1	K2	L1	L2
1	0.25 HP	138	95	104	114	193	235	4	13	11	8	115	202	258	152	191
2	0.5 HP	160	100	104	114	204	246	5	16.5	14	8	130	213	269	152	191
3	1.0 HP	200	130	-	116	-	266	6	22	19	10	165	-	289	-	193

C1, D1, K1, L1 FOR DM 3838 AND C2, D2, K2, L2 FOR DM 3852

**ELSCINT AUTOMATION**

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# ELSCINT AUTOMATION

## Single / Double Reduction Motor unit

### Models :

DM 38 and DM 52 in Single Reduction and DM 38.52 in Double Reduction Units

### Construction :

Directly mounted on motor flange having four different mounting possibilities for output shaft, with cast iron / aluminium housing, hob cut ph. bronze worm gear, heat treated, ground alloy steel worm, fixed directly on the motor shaft with end support in the housing. Output shaft of alloy steel is supported in anti friction ball bearings. Oil / grease lubricated, totally enclosed construction.



Single / Double Reduction Motor Units and Gear Box.

### Ratios:

Standard ratios 12:1, 18:1, 36:1, 55:1, 60:1 in Model DM 38 and 12:1, 18:1, 36:1, 48:1, 70:1 in Model DM 52. Other ratios on request for Single Reduction and multiple ratios in Double Reduction Units.

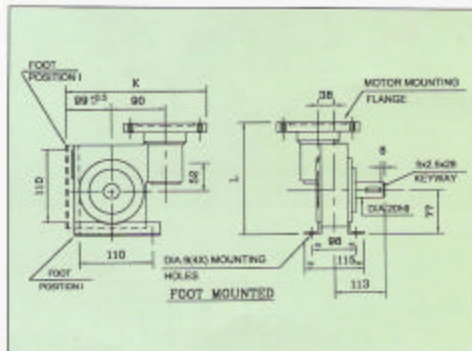
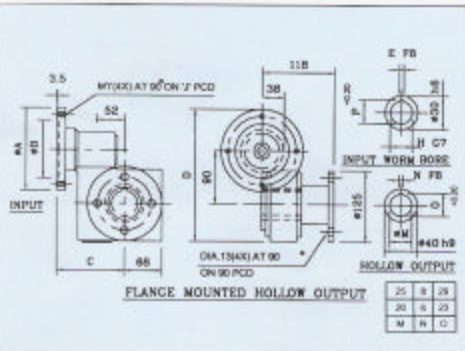
### Motor :

3 phase, 440 volts, foot mounted, TEFC, 0.18 kw to 1HP motors with 1400 rpm or 2800 rpms. Other motors on request. PMDC motors are also available.

### Application :

Due to compact size and integral construction, these units are most suitable for low speed, high torque, continuous duty applications.

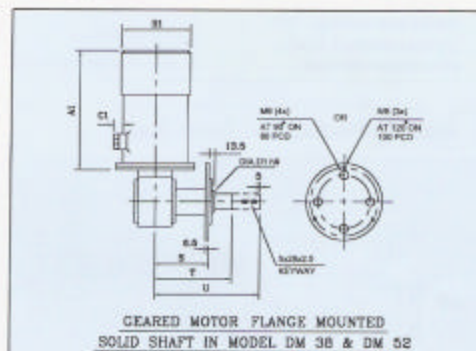
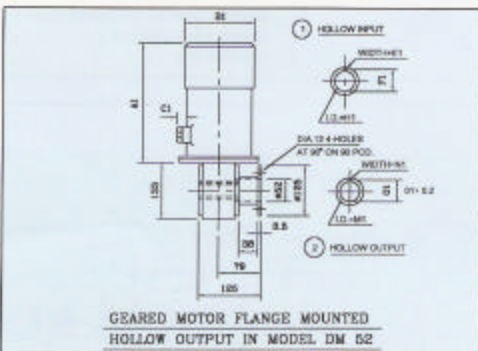
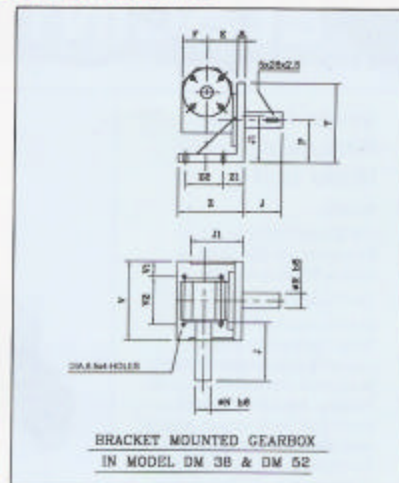
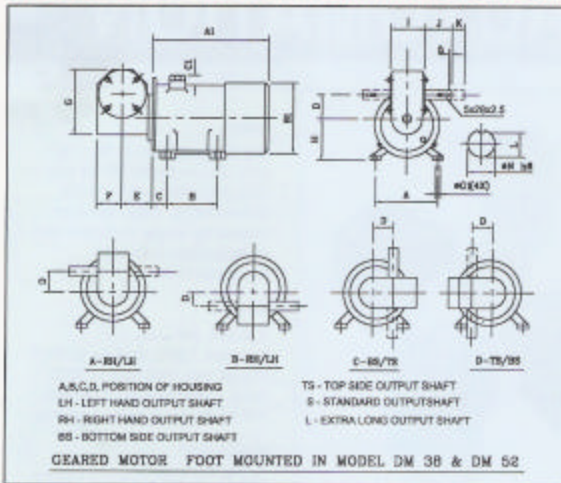
## Double Reduction Gear Box



STANDARD RATIO : 144:1, 216:1, 324:1, 432:1, 648:1, 1296:1, OTHER RATIOS ON REQUEST  
TORQUE OUTPUT : 10 KG-M WITH SERVICE FACTOR 1.

3	1.0 HP	200	130	116	266	6	22	19	10	165	289	193
2	0.5 HP	160	100	114	246	5	16.5	14	8	130	269	191
1	0.25 HP	138	95	114	235	4	13	11	8	115	258	191
SR.NO.	MOTOR	A	B	C	D	E	P	H	I	J	K	L

ELSCINT SINGLE REDUCTION F.H.P. MOTOR UNITS : MODELS DM 38, DM 52



ELECTRIC MOTOR BASE DETAILS																			
SRL	FRAME NO.	H	A	B	C	H1	E1	F=0.2	G1	A1	B1	C1	MODEL	TORQUE(kgcm)					
1	63	63	100	80	25	11	4	13	7	170	125	50	DM-38	80-130					
2	71	71	112	90	35	14	5	16.5	7	190	140	50	DM-38	80-130					
3	80	80	125	100	50	19	6	22	10	220	195	50	DM-52	250-300					

SRL	MODEL	D	D1	E	F	G	I	J	J1	K	L	M	N	P	R	S	T	U	V	X	Y	Z	Z1	Z2	V1	V2	M1	N1	O1
1	DM-38	38	60	45	45	102	55	44	66	20	12.5	5	15	60	15	68	117	175	110	4	155	106	25	60	20	60	-	-	-
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