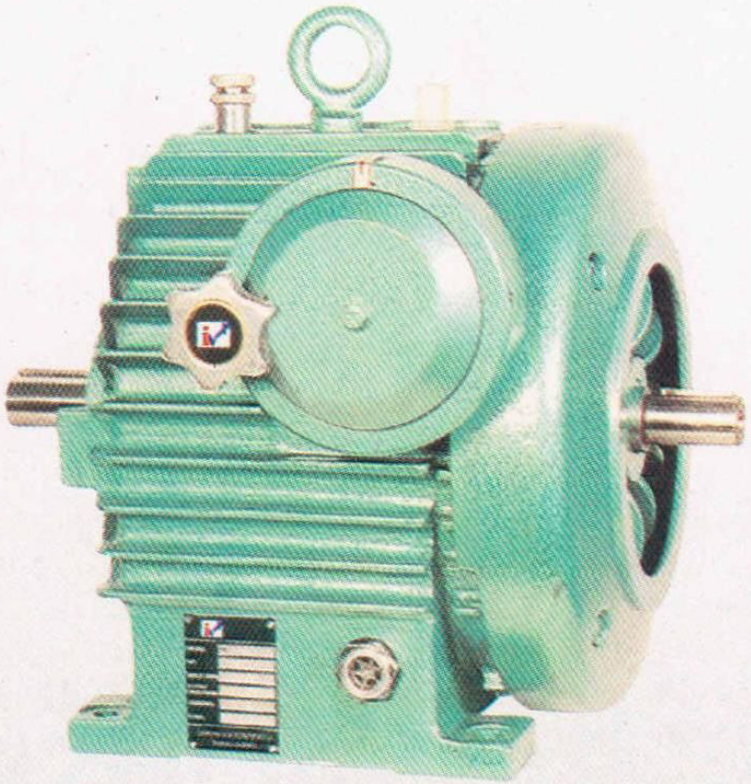
INDEQUIP VARIATOR

MECHANICAL VARIABLE SPEED DRIVES SUITABLE FOR WIDE RANGE OF INDUSTRIES SUCH AS

CABLE, CEMENT, COAL, FOOD, LEATHER, MACHINE TOOLS, PAPER, PHARMACEUTICAL, PLASTIC, POLYMER, PRINTING, PUMP, RAYON, RUBBER, TEXTILE, TOBACCO, WIRE & MANY OTHER INDUSTRIES.



ADVANTAGES

- High Power Capacity
- High Efficiency Of 85% To 94%
- High Reliability And Long Life
- High Output Torque Up To 6 Times The Input Torque
- High Speed Holding Capacity Of 0.05% Nett.,
- Infinitely Variable Output Speed Between Lowest 1/7th Of Input Speed And Highest 1.7 Times Of Input Speed.
- Wide Speed Range to a Maximum Of 1 : 12
- No Slipage
- No Maintenance Except Change Of Oil
- Suitable For Dusty, Dirty, Flame Proof And Wet Environment

MANUFACTURED BY :

N S ENGINEERING

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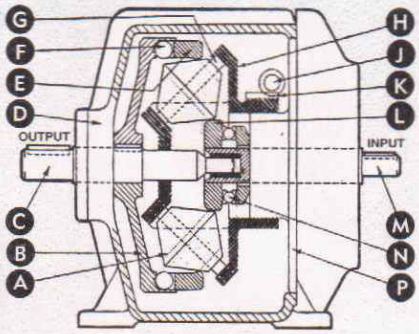


GENERAL DESCRIPTION OF VARIATOR

The design of variator has been based on our Principals' wide knowledge of mechanical friction drives and has enabled much higher horse powers to be transmitted.

The variator consists of on outer casing (D) and end cover (P) in which the co-axial shafts (C and M) are mounted. These rotate in opposite directions. Power is transmitted from the input shaft through a pressure device (N) to the drive disc (L) thence to a series of double conical drive rollers (A) which are free to rotate on fixed inclined spindles (G).

The carrier (H) in which the spindles are located is held on the end cover boss and is so arranged that it can be moved axially by means of the rack (K) and pinion (J). From the drive rollers, power is transmitted to the outer ring (E) and pressure device (F) and thence to the output shaft through the drive flange (B). Due to the geometry of the power transmitting components, the input and output shaft rotate in opposite directions.

SELECTION LIST FOR INDEQUIP VARIATORS

INPUT SPEED 1500 R.P.M. MB=OUTPUT TORQUE IN CMkg. nB =OUTPUT SPEED CONSTANT INPUT H.P.

H.P.↓	SIZE→	K- 1.0	K- 2.5	K- 6	K- 16	K- 30
0.5	nB MB	200-2200 160				
0.75	nB MB	265-2200 180				
1.0	nB MB	325-2200 200				
1.25	nB MB	380-1820 210				
1.5	nB MB		212-2560 365			
2.0	nB MB		270-2500 415			
2.5	nB MB		320-2500 460	220-2650 720		
3.0	nB MB		385-2345 512	230-2650 810		
4.0	nB MB		500-2000 515	270-2560 950		
5.0	nB MB			300-2560 1050		
7.5	nB MB			400-2100 1200	240-2650 1870	
10.0	nB MB				280-2650 2150	
12.0	nB MB				310-2650 2400	290-2600 2660
15	nB MB				360-2350 2650	320-2600 2750
20	nB MB				440-1800 2940	375-2600 3150
25	nB MB					440-2480 3500
30	nB MB					500-2000 3800

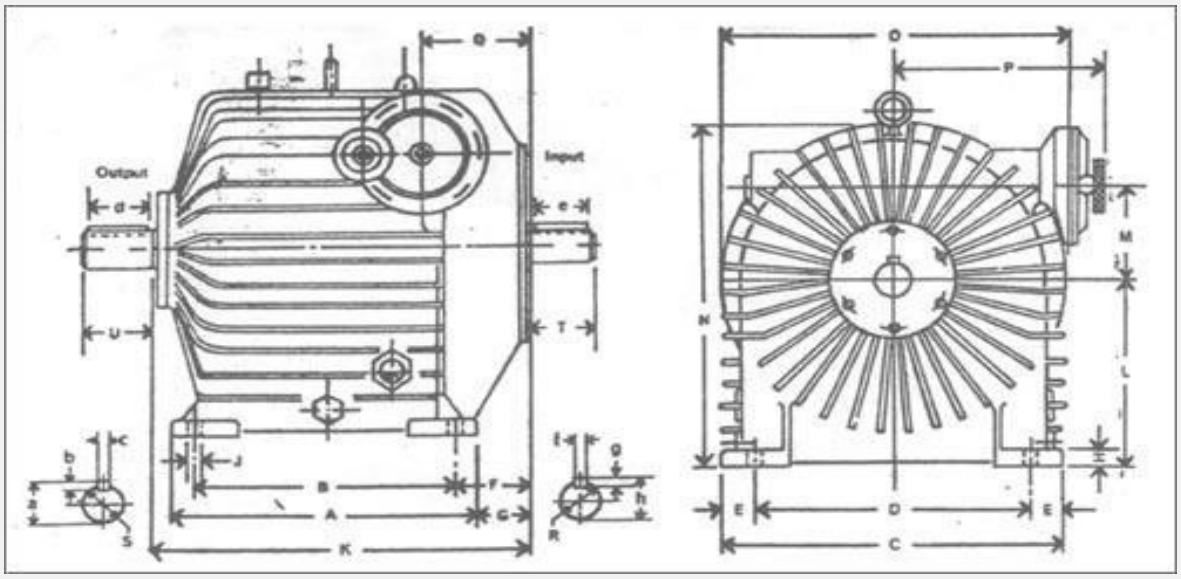
HP CAPACITY FOR TRANSMITTING CONSTANT TORQUE — INPUT SPEED 1400-1500 R.P.M.

SIZE ↓		SPEED RANGE R							
		4	5	6	7	8	9	10	12
K-30	MB	1210	1210	1000	830	700	-	-	-
	nB	400-1600	320-1600	320-1920	300-2100	300-2400	-	-	-
	NA	30	30	30	27	26	-	-	-
K-16	MB	930	930	670	670	580	480	370	320
	nB	375-1500	300-1500	300-1800	256-1800	250-2000	240-2200	240-2400	220-2650
	NA	22	22	19	19	18	16	14	12
K-6	MB	380	380	285	255	200	200	140	120
	nB	375-1500	300-1500	300-1800	285-2000	275-2200	240-2200	250-2500	220-2650
	NA	9	9	8	8	7	7	5.5	5
K-2.5	MB	170	160	142	126	100	100	7.3	62
	nB	375-1500	320-1600	300-1800	285-2000	275-2200	240-2200	240-2400	212-2560
	NA	4	4	4	4	3.5	3.5	2.75	2.5
K-1.0	MB	60	60	60	40	40	40	29	2.9
	nB	375-1500	300-1500	250-1500	278-1950	242-1950	217-1950	220-2200	185-2220
	NA	1.40	1.40	1.40	1.20	1.20	1.20	1.0	1.0

MB : MAX. OUTPUT TORQUE IN CM.KG — nB OUTPUT SPEED R.P.M. — NA : MAX. INPUT H. P.

MECHANICAL SPEED VARIATOR

MOUNTING DIMENSIONS



SIZE	MOUNTING										BODY					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
K50	460	380	475	380	47.5	94	54	30	18	564	300	155	561	523	295	145
K30	400	340	450	360	45	100	70	25	18	491	280	132	509	41	296	145
K16	285	245	372	300	36	70	50	25	16	362	212	120	416	408	270	117
K6	265	230	305	270	17.5	54.5	37	24	13	320	180	95	350	340	252	102
K2.5	235	205	252	200	26	17	2	20	13	242	150	78	278	278	197	58
K1.0	180	155	180	155	12.5	15	25	14	8	185	100	-	200	201	132	85

SIZE	SHAFT				KEY								
	Rh6	Sh6	T	U	a	b	c	d	e	f	g	h	NET WEIGHT
K50	50	55	80	100	60	10	16	80	70	14	10	55	296 KG
K30	50	50	80	87	55	10	16	80	70	16	10	55	194 KG
K16	40	45	75	80	49	9	14	70	65	10	8	43.5	120 KG
K6	30	35	52	65	38.5	8	10	55	45	8	7	33	86 KG
K2.5	25	30	45	50	33	7	8	36	36	8	7	28	50 KG
K1.0	14	15	30	30	17	5	5	25	25	5	5	16	20 KG