



# NMRV Gear Reducer

## SPECIFICATION AND DIMENSION

### NMRV030-57mm

**INPUT FRAME** : 57mm

**INPUT SHAFT** : 6.35mm

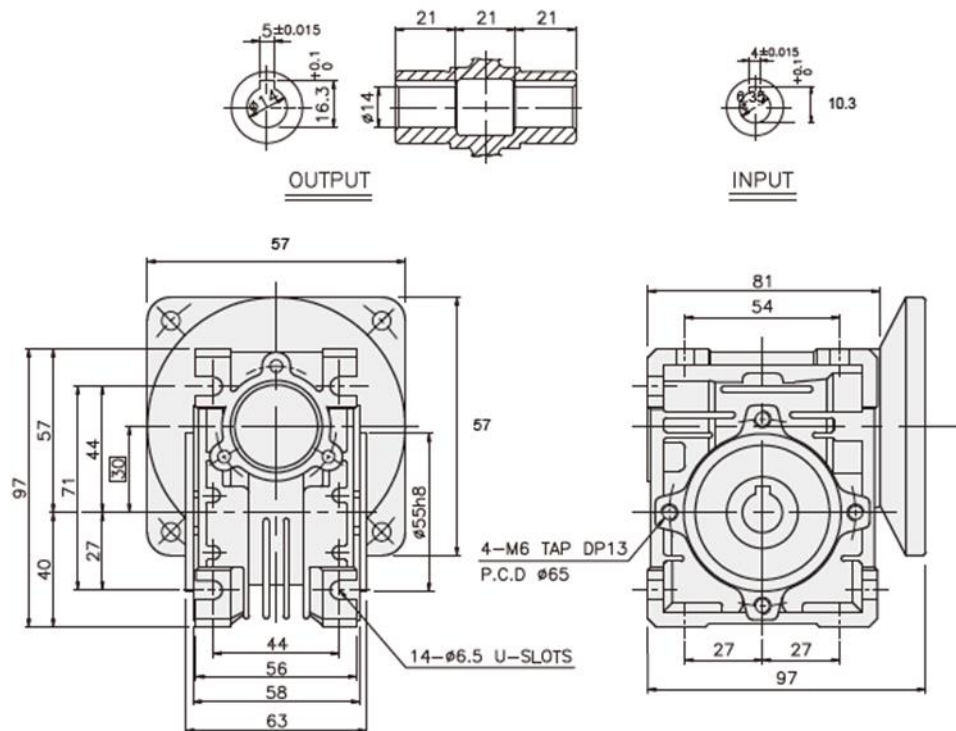
**OUTPUT SHAFT** : 14mm

**MOTOR REQUIRMENT** :  
STEPPER NEMA 23



PART	WEIGHT (KG)
MOTOR	1.0
GEAR HEAD	0.9

## DIMENSIONS





# NMRV Gear Reducer

## NMRV030-57mm

**INPUT FRAME : 57mm**

**INPUT SHAFT : 8mm**

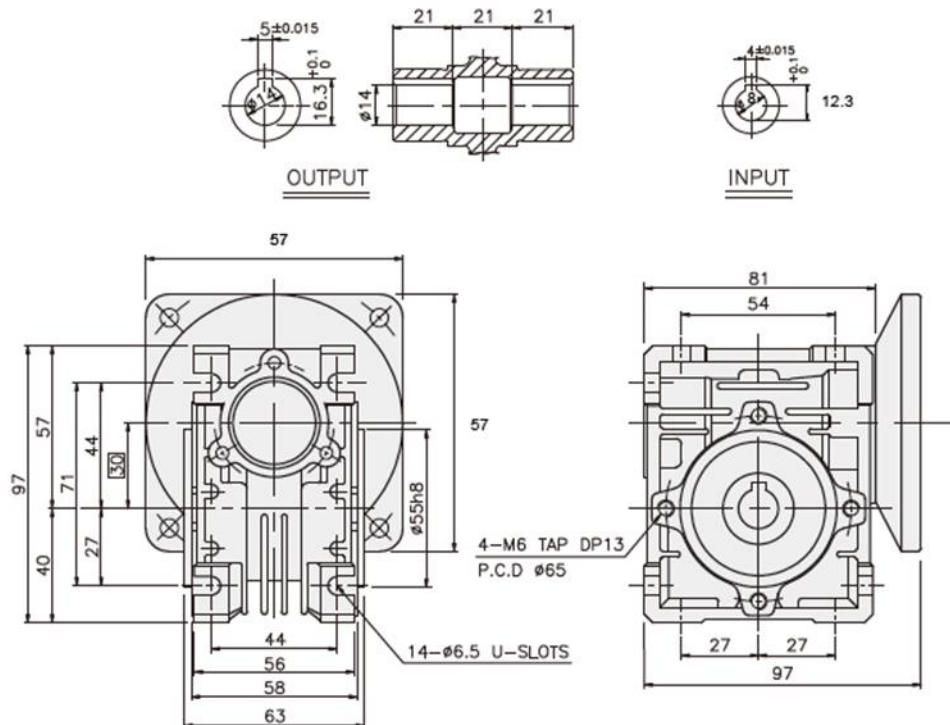
**OUTPUT SHAFT : 14mm**

**APPLICABLE MOTOR :  
STEPPER NEMA 23**



PART	WEIGHT (KG)
MOTOR	2.6
GEAR HEAD	1.2

## DIMENSIONS





# NMRV Gear Reducer

## NMRV030-90mm

**INPUT FRAME : 90mm**

**INPUT SHAFT : 11mm**

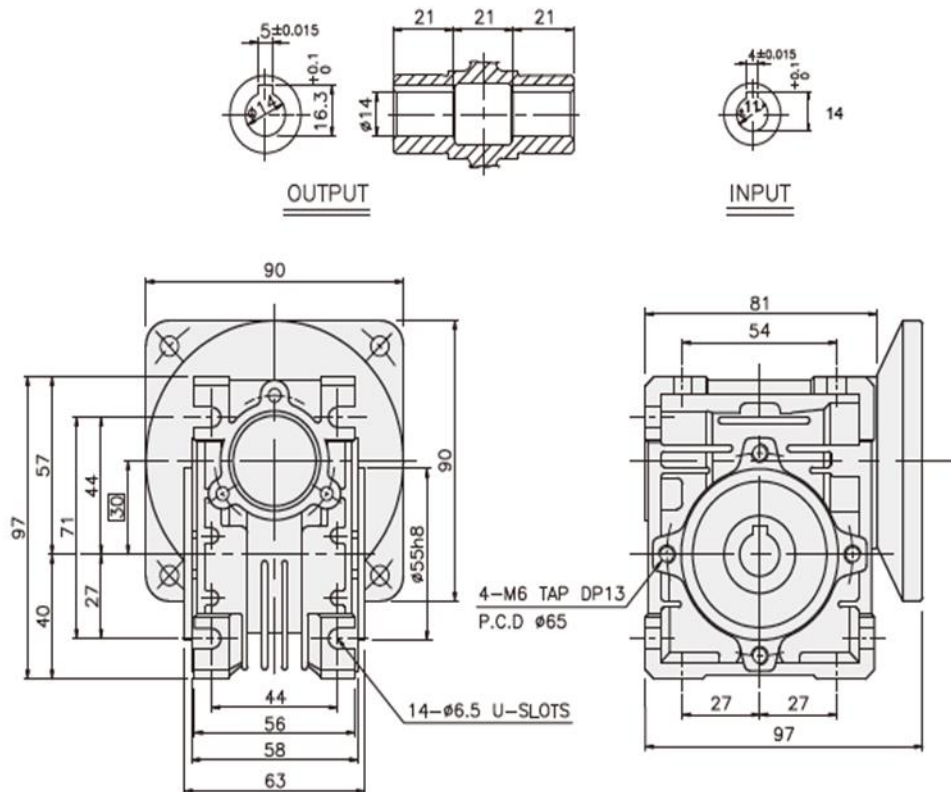
**OUTPUT SHAFT : 14mm**

**MOTOR REQUIRMENT :  
AC INDUCTION MOTOR**



PART	WEIGHT (KG)
MOTOR	3.2
GEAR HEAD	1.2

## DIMENSIONS





# NMRV Gear Reducer

## NMRV040-60mm

**INPUT FRAME :** 60mm

**INPUT SHAFT :** 14mm

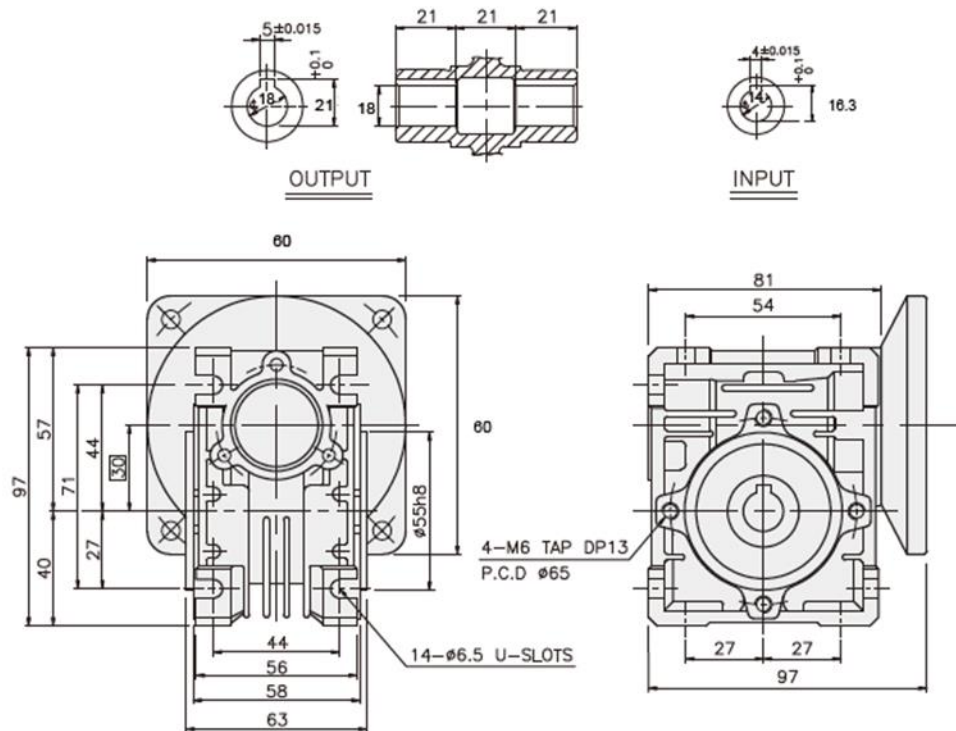
**OUTPUT SHAFT :** 18mm

**MOTOR REQUIRMENT :**  
SERVO MOTOR 200/400W



PART	WEIGHT (KG)
MOTOR	1.9
GEAR HEAD	1.2

## DIMENSIONS





# NMRV Gear Reducer

## NMRV040-86mm

**INPUT FRAME** : 86mm

**INPUT SHAFT** : 14mm

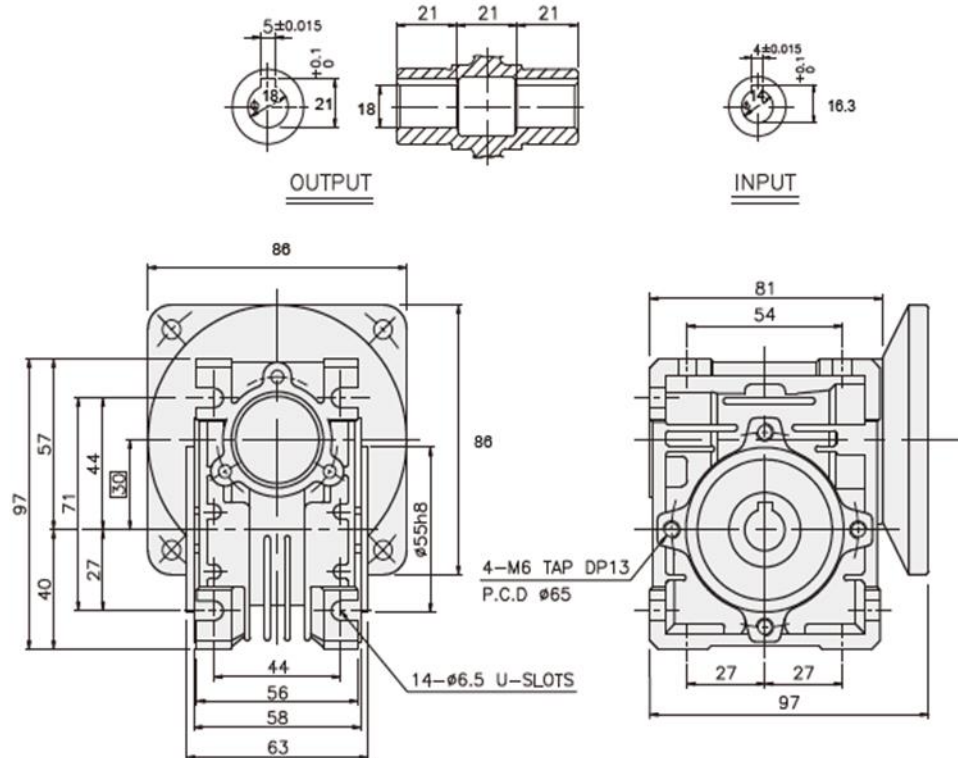
**OUTPUT SHAFT** : 18mm

**MOTOR REQUIRMENT** :  
STEPPER NAME 34



PART	WEIGHT (KG)
MOTOR	11.8
GEAR HEAD	2.3

## DIMENSIONS





# NMRV Gear Reducer

## WORM GEAR EFFICIENCY

Wormgear efficiency data i = RATIO     $\eta_d$  = efficiency in no load     $\eta_s$  = efficiency in load    , T = allowable torque

RV	i	5	7,5	10	15	20	25	30	40	50	60	80	100
30	$\eta_d$ (At 1400 RPM)	-	0,85	0,82	0,77	0,73	0,68	0,65	0,59	0,55	0,51	0,44	-
	$\eta_s$	-	0,67	0,63	0,55	0,5	0,43	0,39	0,35	0,31	0,27	0,23	-
	T(Nm)	-	15	15,3	14,9	15	17,5	16,6	15,3	13,8	14	10,5	-
40	$\eta_d$ (At 1400 RPM)	-	-	0,85	0,82	0,78	0,75	0,7	0,65	0,62	0,58	0,52	0,47
	$\eta_s$	-	-	0,67	0,6	0,55	0,51	0,45	0,4	0,36	0,32	0,28	0,24
	T(Nm)	-	-	33,2	33,6	32,5	31,3	36,8	33,2	31,6	30,3	28,3	25,3