

# ENGINES

## PETROL DRIVEN ENGINES

Co-operation with international engineering and design companies. Unique and stand alone in the design and performance.

## FOUR - LEVEL QUALITY CONTROL

- 1) Supplier evaluation and quality control
- 2) Components incoming inspection
- 3) 100% on line tests
- 4) Regular spot inspections



Higher efficiency

Lower fuel and noise consumption

Extra strong recoil starter

Low oil cut out protection

Full spares back-up

## REDUCTION ENGINE

Double chain gearbox

Ideal for concrete mixers, conveyors etc

ENGINE - HP	IPE 6.5HP	IPE 9.0HP	IPE 15HP	IPE 15HPE
ENGINE TYPE	AIR COOLED, SINGLE CYLINDER 4 STROKE OHV			
BORE & STROKE	68X54CC	77X58CC	90X66CC	90X66CC
DISPLACEMENT CC	196CC	270CC	420CC	420CC
COMPRESSION RATIO	8:04:01	8:02:01	8:00:01	8:00:01
NET POWER	4.0KW / 3600R/MIN	5.6KW / 3600R/MIN	8.5KW / 3600R/MIN	8.5KW / 3600R/MIN
NET TORQUE	11N.M / 2500 R/MIN	17N.M / 2500 R/MIN	25N.M / 2500 R/MIN	25N.M / 2500 R/MIN
PTO SHAFT ROTATION	COUNTER CLOCKWISE - (HORIZONTAL SHAFT OUTPUT)			
PTO SHAFT SIZE				
IGNITION SYSTEM TYPE	TRANSISTORIZED MAGNETO IGNITION (TCI)			
STARTING SYSTEM TYPE	RECOIL START			RECOIL & ELECTRIC START
CARBURETOR TYPE	FLAT SUCTION V VALVE CARBURETOR			
LUBRICATION SYSTEM	FORCED SPLASH			
OIL TYPE	20W50 ENGINE OIL			
OIL CAPACITY	0.6L	1.1L	1.1L	1.1L
FUEL TANK CAPACITY	3.6L	6.5L	6.5L	6.5L
FUEL CONSUMPTION	0.75L/H	0.86L/H	1.4L/H	1.4L/H
SPARK PLUG TYPE	BR8ES			
COOLING TYPE	AIR COOLED			
COLOR & AVAILABILITY	BLACK			
DIMENSIONS OF ENGINE	440 X 350 X 355 MM	415 X 392 X 425 MM	465 X 413 X 440 MM	465 X 413 X 440 MM
NET WEIGHT (DRY)	19.5 KG	26 KG	32.5 KG	33 KG

## DIESEL DRIVEN ENGINES

Air cooled Diesel Engines.

Compact and excellent performance.

Available with parallel or taper shaft.

Also in half speed reduction.

Self bleeding and low on fuel consumption.

Decompressor for easy starting.

Full spares back-up.



### MODEL

### TYPE

Ip170	4.2HP RECOIL START	PARALLEL SHAFT
Ip178	5.8HP RECOIL START	PARALLEL SHAFT
Ip188	12HP RECOIL START	PARALLEL / TAPER
IP188E	12HP ELECTRIC START	PARALLEL / TAPER