

POWER FAB

LIMITED



*The Better British Excavator...*

1700X





**ENGINE**

Compact water cooled industrial diesel featuring indirect injection for low noise and smooth running, filtered pressure lubrication, unique engine protection circuits, and electric start.

Model:	Perkins 103-10
Capacity:	954cc
Bore/Stroke:	75 / 72mm
Net continuous power:	18 BHP SAE @ 2600 RPM
Net continuous torque:	30 lb-ft SAE
Battery:	12 volt 45Ah.

**TRACK DRIVE**

Independent hydrostatic drive to each reinforced rubber track by high torque motors transferring power through hardened cast steel sprockets. Independent levers and hydraulic circuits permit accurate positioning of machine, and maximum power for dozing.

Travel speed (forward and reverse) : 1.8 Km/H.

**SWING / SLEW**

Upper body rotation by an orbit rotor motor with integral automatic brake valve operating as the control lever is returned to neutral where the action is positive. Drive to the body is via fully enclosed induction hardened gears mounted on a single ball race. Positive mechanical locking is provided to minimise damage in transit. Precise proportional flow operating controls with shock absorbing valves in the swing circuits ensure smooth stop and start minimising operator fatigue. Changeover pedal permits independent control of boom swing through 180° via main swing control lever with positive locking for offset digging operations.

Swing speed : 9 RPM.

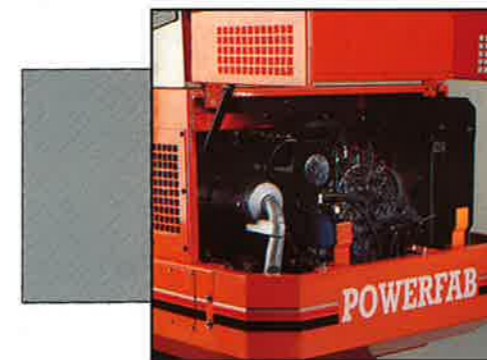
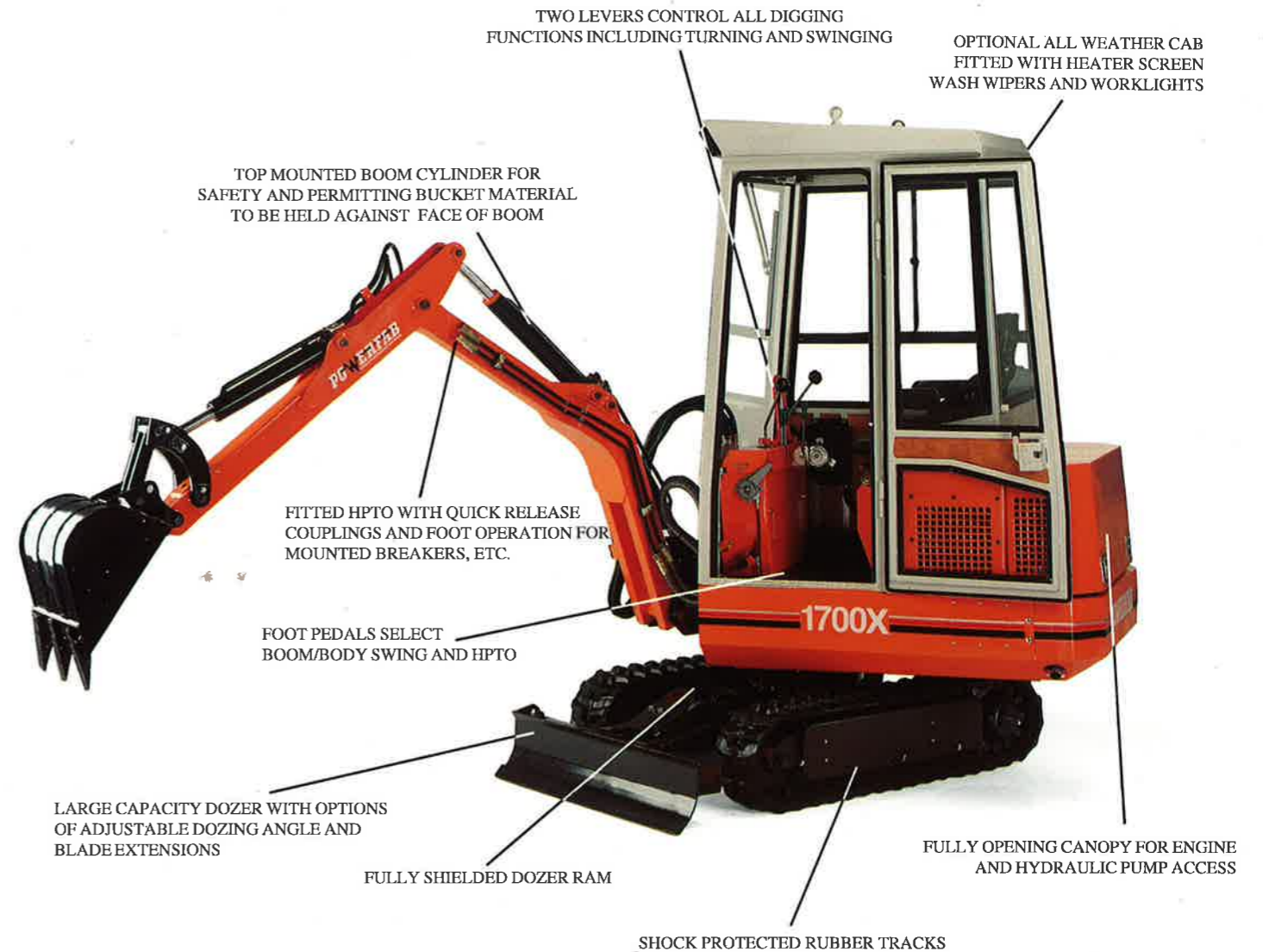
**HYDRAULICS**

A triple in line pump supplies power to a composite valve featuring precise proportional flow for smooth and progressive control, in line flow control automatically restrict velocities to minimise shock and spillage. Hydraulic circuits divided to optimise power and smooth operation, two pumps are allocated to boom, dipper, bucket and travel. Single pump allocated to blade operation for optimum dozing efficiency. Single changeover pedal switches power between upper body rotation and boom swing to permit continuous single lever control of slewing. High efficiency hydraulic oil cooler with forced air flow for heavy duty and high ambient temperature operation. Filtered flow and return with replaceable cartridge on main flow.

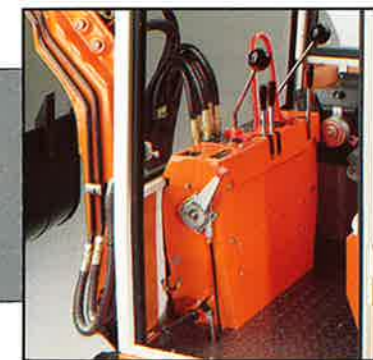
Hydraulic pump outputs:	13.75 LPM x 2 plus 10 LPM x 1
Main relief valve setting:	200 BAR
HPTO Relief Setting:	138 BAR
Hydraulic motors:	Travel, two high torque axial piston with counter balance valve. Swing, Orbit rotor motor with counter balance brake valve.
Cylinders 5 off:	Boom and dipper 2.375" diameter 15" stroke. Bucket and boom swing 2.375" diameter x 13" stroke. Dozer blade 2.375" diameter x 3" stroke

**CONSTRUCTION**

Very high specification all steel construction for long life in continuous heavy duty situations. Hardened lubricated pivot pins on boom, dipper and bucket pivots. Replaceable bolt-on hardened bucket teeth. Fully protected rams. Mounted on fabricated heavy duty chassis track frames fitted with 3 lubricated bottom rollers, mechanical track tensioning, and Rocoil shock absorbers.



EASY ACCESS TO ENGINE AND HYDRAULIC OIL COOLER



TWO LEVERS CONTROL ALL DIGGING FUNCTIONS. FOOT PEDAL SELECTION OF BOOM/BODY SWING AND HPTO

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## GENERAL SPECIFICATION

**Mass:**

Operating; 1.25 tonnes canopy type  
1.35 tonnes cab type

**Capacity:**

Powerfab 16"(standard) bucket;  
0.045 cm SAE (0.04 cm GECE)  
Tear out force 1.7 tonnes at root of bucket teeth.

**HPPTO:**

Boom mounted hydraulic power take off with self seal quick release couplings foot operated on/off control.  
27.5 LPM max. flow @ 138 Bar

**Digging dimensions - Max:**

**Ht:**

2.9 m

**Dump ht:**

2.045 m

**Depth:**

2.257 m (Optional 2.49m with 380mm stroke extendable dipper)

**Vertical dig:**

1.4 m

**Radius:**

3.59 m

**Tail swing:**

1.15 m

**Boom Swing:**

140° continuous, 180° operator selectable

**Dozer:**

1000mm x 230mm Std. , Lift 200mm, Drop 130mm.

**Gradeability:**

58% (30°)

**Noise:**

LWA 101 & LPA 83

**Tracks:**

200mm wide steel reinforced heavy duty continuous rubber.

**Ground pressure:**

0.31 Kg/cm sq. Canopy, 0.33 Kg/cm sq. Cab

**Buckets:**

4" & 8" clay, 9", 12", 16", 24" & 27" digging  
36" ditching and 36" blade, 4" ripping tool

Due to our policy of continual improvement, we reserve the right to amend the design or specification without prior notice. Patents Pending.  
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DEALER:

# POWERFAB

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