

HAZARD IDENTIFICATION, RISK ASSESSMENT AND CONTROL

COMPANY: WACKER AUSTRALIA PTY. LTD.

PLANT/EQUIPMENT: MOTORIZED DRIVE UNIT FOR FLEXIBLE SHAFT SUBMERSIBLE PUMPS AND INTERNAL VIBRATORS


PLANT/TASK DESCRIBED: PUMPING OF WATER WITH OR WITHOUT SOLIDS, VIBRATING CONCRETE.

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OPERATING SAFETY

Familiarity and proper training are required for the safe operation of equipment!

Equipment operated improperly or by untrained personnel can be dangerous! Read operating instructions and Safety Guidelines to familiarise yourself with the location and proper use of all instruments and controls. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AT ALL TIMES!

HAZARD IDENTIFICATION	RISK ASSESSMENT	PRACTICABILITY (It is practicable to remove or mitigate the hazard or risk?)		RISK CONTROL
		YES	NO - Why not?	
INJURY DUE TO: BURNS ON EXHAUST PROTECTION GUARD OR ENGINE COOLING FINS	MEDIUM RISK		ONLY EXPENSIVE AND IMPRACTICLE ENCLOSURES COULD MITIGATE THE RISK	<u>IMPRINT ON GUARD</u> DO NOT TOUCH EXHAUST GUARD OR ENGINE COOLING FINS! 
CONTACT WITH ROTATING COUPLING INSIDE BELL HOUSING	MEDIUM RISK	✓		NEVER OPERATE DRIVE UNIT WITHOUT PUMP CONNECTED!! DO NOT PUSH FINGERS INTO BELL HOUSING OPENING!! BELL HOUSING DESIGNED WITH LONG GUIDING SLEEVE TO AVOID ACCIDENTAL CONTACT BY FINGERS OF THE OPERATOR. ALWAYS SWITCH OFF ENGINE BEFORE CONNECTING OR DISCONNECTING FLEXIBLE SHAFT!!
OPERATOR SLIPPING, TRIPPING, FALLING	MEDIUM RISK		ENVIRONMENT IN WHICH MACHINES ARE OPERATED CANNOT BE CONTROLLED BY THE SUPPLIER	BE CAREFULL WHEN PLACING DRIVE UNIT, PUMP AND DELIVERY HOSE INTO OPERATING POSITION OR OPERATE VIBRATOR!
LIFTING OF DRIVE UNIT	MEDIUM RISK	✓		<u>DO NOT LIFT BY YOURSELF!!</u> PROTECTIVE FRAME ALLOWS SUFFICIENT NUMBER OF PERSONS TO LIFT MACHINE SAFELY.
LIFTING OF PUMP	LOW RISK	✓		<u>DO NOT LIFT BY YOURSELF, WHEN TRANSPORTING:</u> USE ROPE ATTACHED TO LIFTING EYE PROVIDED TO LIFT PUMP BODY OUT OF TRENCH.

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PLANT/EQUIPMENT: *MOTORIZED DRIVE UNIT FOR FLEXIBLE SHAFT SUBMERSIBLE PUMPS AND INTERNAL VIBRATORS*

PLANT/TASK DESCRIBED: *PUMPING OF WATER WITH OR WITHOUT SOLIDS, VIBRATING CONCRETE.*

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HAZARD IDENTIFICATION	RISK ASSESSMENT	PRACTICABILITY (It is practicable to remove or mitigate the hazard or risk?)		RISK CONTROL
		YES	NO - Why not?	
INJURY DUE TO: INCORRECT STARTING OF DRIVE UNIT	LOW RISK			1. SEE OPERATING INSTRUCTION MANUAL!! 2. WEAR P.P.E.!
PLANT TIPPING, ROLLING OVER	LOW RISK	✓		PROTECTIVE FRAME ON SWIVEL DISH PROVIDES SECURE BASE. ALWAYS BE SURE MACHINE IS PLACED IN SECURE POSITION!
EXPLOSION OR FIRE	MEDIUM RISK		WHEN REFUELING MACHINE, FLAMMABLE LIQUIDS ARE EXPOSED AND VAPOURS ARE PRESENT, WHICH CANNOT BE AVOIDED.	ALWAYS USE APPROPRIATE CARE WHEN HANDLING PETROL OR DIESEL AND READ INSTRUCTION MANUAL!
PUMPING OF CORROSIVE CHEMICALS OR WATER CONTAINING TOXIC SUBSTANCES	MEDIUM RISK		WACKER PUMPS ARE DESIGNED TO PUMP WATER ONLY THERE IS NO TECHNICAL WAY TO REMOVE THIS HAZARD, AS THE SUPPLIER CANNOT CONTROL THE ACTIONS OF THE USER.	DO NOT PUMP FLAMMABLE FLUIDS, FUELS, CORROSIVE CHEMICALS OR FLUIDS CONTAINING TOXIC SUBSTANCES. THESE FLUIDS CAN CREATE POTENTIALLY DANGEROUS HEALTH AND ENVIRONMENTAL HAZARDS.
CONTACT WITH VIBRATING HEAD OF INTERNAL VIBRATOR	LOW RISK		HAZARD REMOVAL NOT POSSIBLE AS IT IS THE VIBRATORS PURPOSE TO REMOVE AIR FROM CONCRETE WITH VIBRATION.	<u>DO NOT TOUCH OR HOLD</u> VIBRATING HEAD OF INTERNAL VIBRATOR, WHEN ENGINE IS RUNNING! WEAR P.P.E.!
SUFFOCATE OR SUFFER ILL HEALTH DUE TO: EXHAUST FUMES & FUEL VAPOURS, ESPECIALLY WHEN USED IN CONFINED SPACES	HIGH RISK		EXHAUST FUMES AND PETROL VAPOURS ARE UNAVOIDABLE.	ALWAYS OPERATE & REFILL IN WELL VENTILATED AREAS ONLY!