

CUMFLOW RP50XD MK2 ROTATING PAN MIXER

PARTS & OPERATION MANUAL

WINGET LIMITED
PO BOX 41
EDGEFOLD INDUSTRIAL ESTATE
PLODDER LANE
BOLTON
LANCS
BL4 0LR

Tel: ++ 44 (0) 1204 854650 crokersales@winget.co.uk parts@winget.co.uk service@winget.co.uk www.winget.co.uk

INDEX

SECTION 1	GENERAL INFORMATION
1.1.	Company Details
1.2.	Important Notice
1.3.	Mixer Operational and Safety Requirements
1.4	Installation Drawing
SECTION 2	INSTALLATION AND OPERATING INSTRUCTIONS
2.1.	Pre Installation Notes
2.2.	Installation Instructions
2.3.	Operating Instructions
SECTION 3	TECHNICAL SPECIFICATION AND MAINTENANCE
3.1.	Technical Specification
3.2.	Shutdown Procedure and Maintenance
3.3.	Lubrication
3.4.	Gear Unit Maintenance
SECTION 4	MIXER SPARE PARTS
4.1.	Mixing Pan & Drive
4.2.	Mixing Star & Drive
4.3.	Mixing Star Assembly
4.4.	Mixing Star Lifting Arrangements
4.5.	Layout of Guards
4.6.	Micro Switch Cam & Proximity Switch
4.7.	Electrical Switch Gear
4.8.	Decals & Logos
SECTION 5	ANCILLIARY EQUIPMENT SPARE PARTS
5.1	Pan Trolley Four Wheels
5.2	MoD Additional Parts

SECTION 6 ELECTRICAL SYSTEM

6.1 Electrical Instructions6.2 Wiring Diagrams

SECTION 7 MISCELLEANEOUS

7.1 Noise Details

The contents of this handbook although correct at the time of publication, may be subject to alteration by the manufacturers without notice and Winget Limited can accept no responsibility for any errors or omissions contained within the following pages. Nor can we accept any liability whatsoever arising from the use of this manual howsoever caused.

Winget Limited operate a policy of continuous product development. Therefore, some illustrations or text within this publication may differ from your machine

Winget Limited can accept no responsibility for incorrectly supplied parts unless the machine serial number, part number and a full description of the items required is given when the order is placed.

NOTE

Imperial fixings (bolts, setscrews, nuts, washers etc) have been progressively changed to Metric. If in doubt as to whether you have a Metric or Imperial fixing please order the metric items listed, i.e. bolt or setscrew and associated or flat and spring washers to replace the existing items

NOTE

Electrical cables particularly those with copper conductors suffer from a condition known as 'relaxation' which may cause wiring to work loose over a period of time, it is recommended that the tightness of wiring connections and terminals are checked following the first month in service.

OPERATING

AND

MAINTENANCE MANUAL

SECTION 1 GENERAL INFORMATION RP50XD MK2

COMPANY DETAILS AND GENERAL INFORMATION

For any spares or service work, please contact:-

Winget Limited
P.O. Box 41
Edgefold Industrial Estate
Plodder Lane
Bolton
Lancs
BL4 0LR

Telephone No: ++ 44 (0) 1204 854650

'E Mail' crokersales@winget.co.uk

parts@winget.co.uk service@winget.co.uk

ORDERING SPARES

To help us to complete your order promptly and correctly we need:-

- Machine type and serial number
- Description and quantity of parts required
- The full address to which the parts are to be sent

Winget Limited can accept no responsibility for incorrectly supplied parts unless the machine serial number, part number and a full description of the items required is given when the order is placed.

IMPORTANT NOTICE

The CUMFLOW RP50XD MK2 is a high performance mixer

The following precautions are necessary to obtain the best results and to avoid damage to the MIXING STAR and PAN DRIVE

AGGREGATES

Strict control of graded aggregates must be maintained Maximum size 19mm

Oversize lumps of aggregate or rogue materials must be prevented from entering the Pan

MIXING STAR BLADES

They are to a special shape and material to prolong wear life. They should not be modified in any way and only replaced with GENUINE 'CROKER' spares obtained from WINGET LIMITED.

A daily check is advisable to ensure that the Blades/Wearing parts are secure and undamaged.

MAXIMUM BATCH LOADS

<u>UNDER NO CIRCUMSTANCES</u> should the Maximum Batch Loads quoted be exceeded nor should the mixer be stopped or re-started when there is a mix in Pan

MIXING PAN

Ensure that the Mixing Pan is rotating concentrically and that the pan base is Horizontal.

WARNING

THE MANUFACTURER ACCEPTS NO RESPOSIBILITY FOR ANY DAMAGE OR FAILURE RESULTING FROM OPERATIONAL MISUSE OR MALPRACTICE. ANY MODIFICATIONS TO THE MACHINE WILL AFFECT ITS WORKING PARAMETERS AND

SAFETY FACTORS. REFER TO THE MANUFACTURERS BEFORE FITTING ANY NON STANDARD EQUIPMENT OR PARTS.

THE MANUFACTURERS ACCEPT NO RESPONSIBILITY FOR ANY MODIFICATIONS MADE AFTER THE MACHINE HAS LEFT THE FACTORY, UNLESS PREVIOUSLY AGREED IN WRITING. THE MANUFACTURERS WILL ACCEPT NO LIABILITY FOR DAMAGE TO PROPERTY, PERSONNEL OR THE MACHINE IF FAILURE IS BROUGHT ABOUT DUE TO SUCH MODIFICATIONS, OR THE FITMENT OF SPURIOUS PARTS.

RP50XD MK2 OPERATIONAL AND SAFETY REQUIREMENTS

PRE-DELIVERY

- 1.1 Drive coupling alignments, pan and star meshing of pan rack and drive gear.
- 1.2 Operating clearances star blade to pan. Fixed blade to pan wall.
- 1.3 Correct oil level in gearboxes. All grease points charged. Gear teeth greased.
- 1.4 No load test. Correct rotations.

PRE INSTALLATION

- 2.1 Check consignment.
- 2.2 Offload equipment using certified lifting gear of suitable capacity, by a competent person (see separate chart for nett weight).

INSTALLATION

- 3.1 Refer to contract arrangement and site instructions.
- 3.2 Mixer to be mounted on supports of adequate strength and rigidity to prevent undue vibration when mixing and securely bolted.
- 3.3 Mixer frame to be level on structure, add packers as required.
- 3.4 Check that pan is correctly seated and that pan rack and drive gear are in correct mesh.

ELECTRICAL SERVICES

4.1 Refer to wiring diagram in Ops Manual. All wiring to be undertaken by competant electrician, it is recommended that the mains electrical supply is provided via an earth leakage circuit breaker. **NOTE:** electrical cables particularly those with copper conductors suffer from a condition known as 'relaxation' which may cause wiring to work loose over a period of time, it is recommended that the tightness of wiring connections and terminals are checked following the first month in service.

OPERATION

- 5.1 Correct oil level in the gearboxes.
- 5.2 Check the Mixing pan clear of loose nuts and bolts to prevent damage to fingers and blades.
- 5.3 Check correct rotation mixing star anti clockwise; mixing pan anti clockwise. All when viewed from the top.
- 5.4 Blade operating clearances adjust in line with maintenance instructions.
- 5.5 Never exceed manufacturer's maximum capacity as detailed in specification.

SHUTDOWN

- 6.1 Prior to any work being carried out mixer to be isolated and physically locked off
- 6.2 Follow the procedures detailed in your companies Heath and Safety Policy at all times.
- 6.3 Ensure all storage bins containing materials to be mixed are isolated.

MAINTENANCE

- 7.1 Ensure that all maintenance is carried out in accordance with the Parts and Operating manuals and proprietary manufacturer's specific instruction.
- 7.2 Isolate electrical and other services to the mixer as section 6 above.
- 7.3 Service at recommended intervals.
- 7.4 Use **Croker** manufactured replacement parts available from **WINGET LIMITED**.
- 7.5 Ensure all safety guards and interlocks are reinstated prior to operating mixer.

GENERAL

8.1 Under on circumstances should the Maximum Batch Loads be exceeded by either weight and volume as stated in Technical Specification.

- 8.2 Mixer star blades to be checked daily for damage.
- 8.3 Pan rim and base wearing plates must be replaced before excessive wear causes distortion.
- 8.4 Ensure mixing pan is rotating concentrically and pan base is rotating in horizontal plane.
- 8.5 Mixer must not be stopped and started when there is mix in the pan.
- 8.6 Refer to the Contract Drawing for scope of supply and the Site instruction notes outlining weights etc.
- 8.7 Refer to Method Statement when installation and commissioning is responsibility of Croker.

Nett Weights Max (kgs)

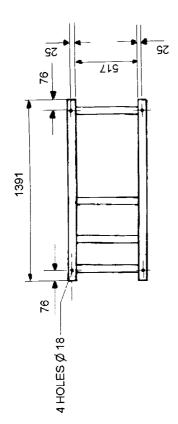
9.1	RP50XD	800	RP1250XD	4840
	RP100XD	900	RP1500XD	4980
	RP200XD	1400	RP3000XD	7112
	RP400XD	2000	FP1000	4040
	RP550XD	2150	FP1500	4065
	RP850XD	2600	FP2000	4100

- 9.2 Refer to technical specification for nett weights of ancillary equipment.
- 9.3 Refer to contract drawing for nett weights of ancillary equipment.

Miscellaneous

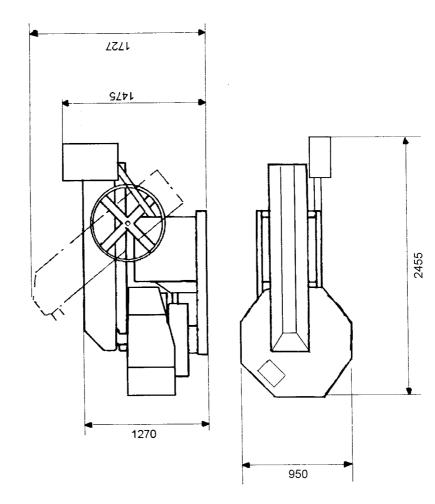
10.1 Noise. Measured in accordance with Article V of Directive 2000/14/EC Noise Emission in the Environment by Equipment for Use Outdoors:- 105Lwa

INSTALLATION DRAWING



STAR DRIVE MOTOR 2.2Kw (BROWN GROUP BH302)
PAN DRIVE MOTOR 1.1Kw (BROWN GROUP BH202)
MACHINE WEIGHT RP50XD MK2 800KG APPROX

NOTES



OPERATING

AND

MAINTENANCE MANUAL

SECTION 2

INSTALLATION AND OPERATING INSTRUCTIONS

PRE-INSTALLATION

On arrival of the equipment it is advisable to check that all packages listed on the consignment note have been received.

The equipment must be offloaded using certified lifting gear of suitable capacity, by a competent person.

An outline drawing and bolt hold plan is normally sent prior to the despatch of the machine and will enable preparations to be made for the installation. With the 'picture' of what the machine will look like when it is assembled, the ancillary equipment dismantled for transport can easily be identified.

INSTALLATION

Please refer to the contract arrangement and site instructions as applicable.

It is recommended that a concrete foundation (to take foundation bolts – not supplied) should be provided for the machine to be mounted on

Before completing the installation, check that the main mixer frame is level with a spirit level. Packings should be inserted as required under the main frame. Check that the pan is seated and that the pan rack and drive gear are in mesh.. Also check that all the blade clearances are in line with the maintenance instructions.

On connecting to the power supply, the wiring diagram must be referred to. Note:- it is recommended that the mains electrical supply is taken via an earth leakage circuit breaker.

The wiring is correctly connected to the motors when the pan and star drive rotate as follows:-

• The mixing pan and mixing star rotate anti-clockwise when looking from the top.

NOTE:- the proximity sensors below the pan and star drive lifting mechanism are fitted with small LED's which light up when the sensors are operating correctly.

OPERATING THE MIXER

Prior to start up, the following points should be checked:-

- 1) That there is oil in a) the pan drive gearbox
 - b) the star drive gearbox
- 2) The mixing pan should be clear of loose nuts, bolts, spanners, etc as these will damage the fingers and blades.
- 3) Check that the blade clearances are correct and if necessary adjust, in line with the maintenance instructions.
- 5) To raise the mixing star out of the mixing pan, turn the hand wheel in a clockwise direction until the arm is at 45'
- To lower, turn the hand wheel anti-clockwise and lower gently. The mixer will automatically start if the mixing pan is in position. When the mixing pan is removed the mixer cannot be operated as the proximity switches need to sense the pan in position to complete the electrical circuit
- 7) On completion of the mixing cycle the raising of the mixing star operates a limit switch which automatically stops all moving parts
- 8) The pan can then be removed by hand or with the special lifting trolley available as an option

IMPORTANT:

After each mix the contents of the pan must be completely discharged. At the end of each period of operation the mixing pan, mixing blades, and fingers, must be washed down to prevent product setting on them and so impairing the efficiency of the machine. NOTE:- isolate the electrical supply before washing down the mixer and do not aim the water jet directly at the electrical control panel or related switch gear or sensors

OPERATING THE MIXER

SAFETY NOTES

Never operate the mixer unless you have read and fully understand the contents of the Operators Manual

Never operate the mixer whilst wearing loose fitting clothing

Never reach inside the Pan whilst it is rotating

Never operate any equipment unless you have received adequate training

Cement, certain other minerals and organic compounds can cause skin irritation leading to Dermatitis. Always use Personal Protective Equipment i.e. gloves etc to protect the skin from direct contact. If in any doubt about the materials being used consult your employers COSHH manual

Wear Eye protection to protect your eyes from dust and liquid splashes

Do not attempt to remove the pan single handedly, obtain assistance, use the Pan Trolley (if provided) or use suitable lifting equipment

Do not operate the mixer with any of the guards removed, safety devices or interlocks disconnected. They are there to offer you some protection, ensure they are correctly maintained

Carry out the daily maintenance before operating the mixer and report defects to your supervisors

Oils, Greases and Lubricants are skin irritants and prolonged direct skin contact can cause skin cancer. PPE or barrier creams should be used when carrying out maintenance work, wash your hands on completion

Always dispose of waste oils and lubricants in a proper manner, it is illegal to pour it down drains or bury it. Contact your local authority for a list of authorised disposal sites

Always disconnect the power supply at the mains before carrying out any maintenance work or cleaning the equipment down. Do not turn on the power until everything has dried out

Do not allow waste from the wash down process to enter the public drainage system unless it has been properly filtered

Decals and Instruction Plates are attached to the equipment to warn against hazards and assist in the safe operation of the equipment, if they become damaged or defaced they must be replaced.

OPERATING INSTRUCTIONS FOUR WHEEL PAN TROLLEY

The Four-Wheel Pan Trolley is designed to allow the safe and speedy removal and transportation of the pan and mixed materials to wherever they may be required within the plant. The following instructions should be followed to ensure the Four Trolley is used safely and correctly.

- 1) It is recommended that the Trolley be used only on firm level ground.
- 2) On no account should the laden Trolley be left unattended on anything other than a level surface unless the castors are securely chocked.
- 3) The area around the mixer should be kept free from any build up of waste material.
- 4) Ensue the Pan Lifting Lugs and Hoop attached to the pan are in good condition, secure and free from any build up of waste material.
- 5) Position the Trolley in front of the mixer so that the wheels are equally spaced to each side of the mainframe/chassis.
- 6) Fully raise the Mixing Star by means of the handwheel and allow the pan to come to a complete stop. Manually rotate the pan until two of the Pan Lifting Lugs are at right angles to the mainframe/chassis. This will allow the Trolley, when correctly positioned below the pan to cleanly lift the pan clear of the rack.
- 7) Push the Trolley under the pan until the 'V' support arms on the Trolley are aligned below the Pan Lifting Lugs, brace the Trolley by placing a foot in the rear centre of lower fixed frame and pull back on the handle until the 'V' supports are engaged with the Pan Lifting Lugs, continue pulling back on the handle until it abuts the stops, at which point the pan will be clear of the rack. Manoeuvre both pan and Trolley clear of the mixer. The Trolley complete with the pan can now be carefully pushed or pulled to wherever the mixed material is required. Be aware of the increased inertia inherent in the combined weight of the Trolley, Pan and Material.
- 8) Before tipping the pan to discharge the material it is recommended that the handle is moved fully forward to lower the upper moving frame of the Trolley

firmly onto the lower fixed frame. When the material has been discharged the trolley can be braced as described above, the handle pulled backwards against the stops and the pan transported back to mixer where the pan can be easily and quickly positioned over the rack and lowered into place.

- 9) On no account must attempts be made to engage the trolley with the mixer mainframe/chassis unless the Star Drive is raised and the rack stationary.
- 10) Do not 'swing' on the Trolley Handles, doing so may cause the Trolley to become unstable and it may tip backwards especially if the pan is empty causing injury to either yourself or nearby persons.

START PROCEDURE CROKER RP50XD, RP100XD & RP150XD RANGE MIXERS

- 1) Raise the mixing star assembly by way of the large hand wheel, rotate the wheel in a clockwise direction to raise the star assembly
- 2) Ensure the mixing pan is in place on the pan rack (gear) and correctly seated down.
- 3) Turn the power on at the red isolator switch on the control panel
- 4) Ensure the red emergency stop plunger on the front of the control panel is not depressed.
- 5) Press the green start button.
- 6) With both hands on the hand wheel, rotate the hand wheel anti-clockwise and lower the mixing star slowly and gently down into the mixing pan. The motors driving the pan and star should start automatically as the star enters the pan.

Note: do not allow the mixing star assembly to drop in an uncontrolled manner into the mixing pan, lower it slowly with both hands on the hand wheel.

OPERATING

AND

MAINTENANCE MANUAL

SECTION 3

TECHNICAL SPECIFICATION AND MAINTENANCE

RP50XD MK2 USA/CANADA SPECIFICATION 480V 60Hz

The Star and Pan Drive Motors and Control Panel fitted to USA/Canada Specification mixers are intended for operation with a supply voltage of 480V 3 Ph 60Hz and not 415V 3 Ph 50Hz as listed overleaf. When ordering spares for the motors, gearbox or control panel it is important that this is state

Star Drive Gearmotor Unit Specification USA/Canada

C302N0250D100K4, 68 RPM Output Shaft, Motor Speed 1692 RPM, 2.2Kw, 480V 60Hz

Pan Drive Gearmotor Unit Specification USA/Canada

C202N0155D90S4, 111 RPM Output Shaft, Motor Speed 1692 RPM, 1.1Kw, 480V 60Hz

TECHNICAL SPECIFICATION OF CUMFLOW RP50XD MK2

CAPACITIES: Maximum Batch Capacity by Weight 82 kgs

by Volume 56.5 litres

Batch capacity and outputs will vary with material densities.

FEED MATERIAL: Maximum Size 19 mm

MIXER FRAME: Strongly constructed from welded Steel Channel

MIXING PAN: Steel Base Pan removed by hand, forklift or with the aid of a

special optional pan lifting trolley.

MIXING STAR: Two spring mounted mixing star blades and fixed scraper blade

MIXING STAR

CONTROLS 762mm(30") diameter handwheel raises mixing star clear of the

pan

POWER UNITS (415V): Mixing pan drive 1.1kw totally enclosed geared electric motor to

suit 3 phase, 50 cycles, 380/420 volts a/c supply. Mixing star drive 2.2kw totally enclosed geared electric motor to suit 3 phase,

50 cycles, 380/420 volts a/c supply.

POWER UNITS (240V): Mixing pan drive 1.1kw totally enclosed geared electric motor to

suit 1 phase, 50 cycles, 240 volts a/c supply. Mixing star

drive 2.2kw totally enclosed geared electric motor to suit 1 phase,

50 cycles, 240 volts a/c supply.

ELECTRICAL

CONTROLS Direct on line starter controls both motors. Automatic safety

control switch operates when mixing star is raised out of

the pan with proximity switch to sense pan position

GUARDING All gears are guarded to comply with the relevant PUWER and

Supply of Machinery Safety Regulations

SPEEDS Speed of Pan 16 rpm

Speed of Star 74 rpm

WEIGHTS (UNLADEN)

800kg (approx)

Weight of additional pan

64kg (approx)

PAN LIFTING TROLLEY RHS steel frame mounted on four industrial castors with tubular

section handle

MAINTENANCE OF MIXER

IMPORTANT NOTE:

Ensure that all maintenance is carried out in accordance with the Parts and Operating Manual and Proprietary Manufacturer's specific instruction.

PROCEDURE

- 1 ISOLATE ELECTRICAL AND OTHER SERVICES TO THE MIXER (see separate section).
- 2 Service at recommended intervals.
- 3 Use Croker manufactured replacement parts available from WINGET LIMITED.
- 4 Ensure all safety guards and interlocks are reinstated prior to operating the mixer.
- 5 Main items of wear (see Section 4).
 - A) Star Blades
 - B) Fixed Blade

Access to mixing pan internals is via the safety interlocks. Each of the above are bolted components and are replaced by simple method and usually achieved in situ without dismantling other components.

C) Other items prone to less wear are star blade fingers and mixing star. Each can be replaced again in situ but pan covers may require removal to provide the necessary access.

MAINTENANCE AND LUBRICATION

NOTE:

ALWAYS ENSURE APPARATUS IS ISOLATED FROM MAINS SUPPLY BEFORE

COMMENCING MAINTENANCE. IF NECESSARY A 'PERMIT TO WORK' SHOULD BE

OBTAINED

DAILY:

Charge the grease points using Total EP2 Grease 2 (or equivalent)

WEEKLY

Lubricate

Racks Apply Open Gear Lubricant (or equivalent)
Pinions Apply Open Gear Lubricant (or equivalent)

Inspect and top-up if necessary.

- 1. Star Gear Box (Brown Group BH302) Use Total Carter SP220 1.2 litres cap
- 2. Pan Drive Gear Box (Brown Group BH202) Use Total Carter SP220 0.80 litres cap

NOTE:- Total Carter SP220 is a synthetic oil and should not be mixed with mineral oils such as Mobil Mobilgear 630, unless the gearbox is thoroughly flushed out after draining.

INSPECT AND ADJUST-MONTHLY

- 1. Pan Gear and Pinion, grease Open Gear Lubricant (or equivalent), as required.
- 2. Adjust Star Blades, Fixed Blades and Discharge Blade to the following settings, also make sure that Blade Fingers are free in their bearings and that the springs are clear of obstruction.
- 3. Star Drive Bevel Pinions, remove cover and grease pinions with Open Gear Lubricant or equivalent as required. Check retaining grub screws and keys are tight.

MIXING BLADE 3mm clear of pan base. Adjust by moving the blade up or down its finger.

FIXED BLADES

6mm clear of pan base with the leading edge just touching the pan side. Adjust by moving the blade up or down its finger.

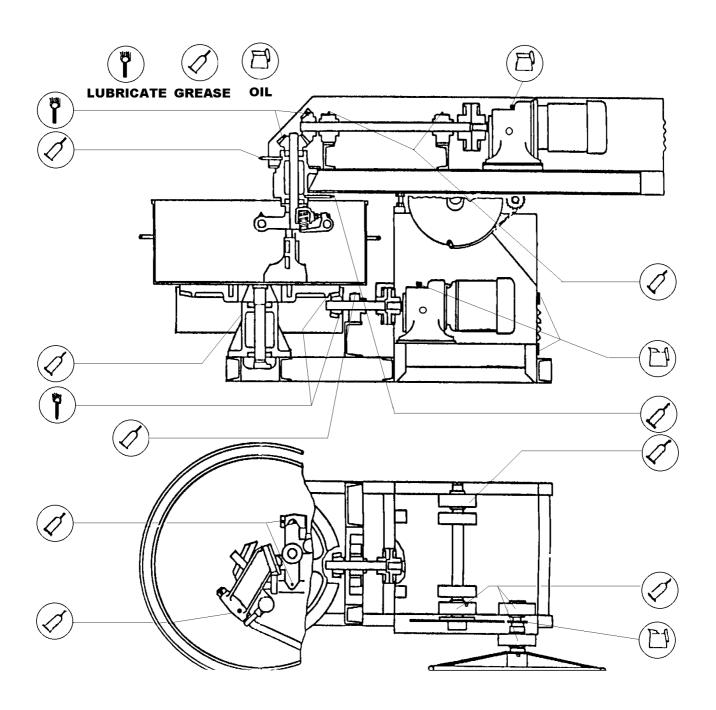
MAINTENANCE FOR GEAR UNITS

MAINTENANCE OF THE MOTORS

The surface of the housing as well as the cover lattice of the fan bonnet should be kept clean in order not to endanger the cooling of the motor with dust and dirt.

Although the bearings of the motor have life time lubrication, the oil in the gearbox of a new unit should be drained after the first <u>500</u> hours of operation and the case thoroughly flushed with a light flushing oil before refilling with fresh oil to the correct specification

LUBRICATION CHART

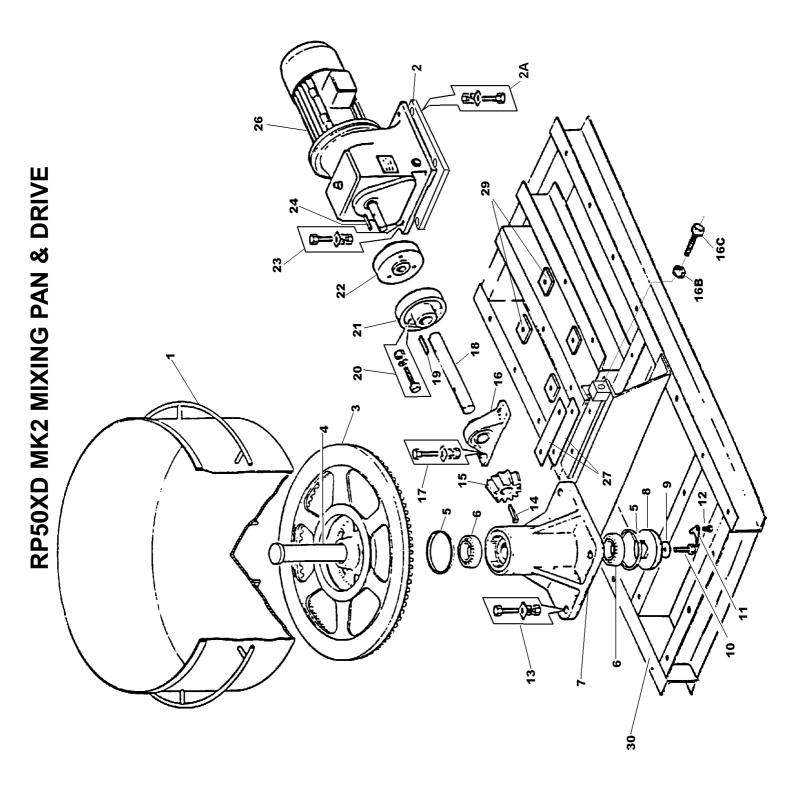


OPERATING

AND

MAINTENANCE MANUAL

SECTION 4 MIXER SPARE PARTS



RP50XD MK2 USA/CANADA SPECIFICATION 480V 60Hz

The Star and Pan Drive Motors and Control Panel fitted to USA/Canada Specification mixers are intended for operation with a supply voltage of 480V 3 Ph 60Hz and not 415V 3 Ph 50Hz as listed overleaf. When ordering spares for the motors, gearbox or control panel it is important that this is state

Star Drive Gearmotor Unit Specification USA/Canada

C302N0250D100K4, 68 RPM Output Shaft, Motor Speed 1692 RPM, 2.2Kw, 480V 60Hz

Pan Drive Gearmotor Unit Specification USA/Canada

C202N0155D90S4, 111 RPM Output Shaft, Motor Speed 1692 RPM, 1.1Kw, 480V 60Hz

RP50XD MK2 MIXING PAN & DRIVE

1 2 2A 2B 2C 3 4 5 6 7 7A 7B 8 9 10 11 12 12A 13 13A 13B	CR540382 CR53100864 8S05D 17S06 267S07 CR210136 CR520179 CR560006 CR150153 CR210137 333104020 176S01 CR210092 CR630047 11S06F CR530477 68S05C 17S05 8S06H 61S06 267S09	PLATE ADAPTOR MOUNTING, WELDED BOLT M12 X 40 WASHER SPRING M12 WASHER FLAT M12 PAN RACK CONICAL SHAFT FELT SEAL CONICAL SHAFT BEARING PAN CONICAL SUPPORT NIPPLE GREASE 1/4 BSP STRAIGHT COVER NIPPLE GREASE CONICAL END CAP KEY CAP WASHER KEY CAP BOLT M16 X 40	1 1 4 4 1 1 2 2 1 1 1 1 1 1 1 1 1 4 4 4 4
14 14A 15 16 16A 16B 16C 17 17A 17B	CR320021 CR320023 CR460022 CR150925 176S01 7S06 11S06P 8S05J 61S05 267S07	BEVEL PINION KEY, GIB HEAD 1/2 X 3/8 X4 ALTERNATIVE 1/2 X 7/16 X6 CUT TO SIZE BEVEL PINION BEVEL PINION SHAFT BEARING COVER NIPPLE GREASE NUT M16 SCREW SET M16 X 80 BOLT BEARING M12 X 65 NUT BINX M12 WASHER FLAT M12	1 1 1 1 2 2 2 2 2
18 19 20 20A 21 21A 21B 23 23A 23B 24 26 26 27 29 30	CR52100896 CR329015 8S05H 7S05 CR23100869 57S04E2 57S05D2 8S04F 17S05 267S06 CR329047 CR22100905 CR22100868 CR549006 555112100 CR26100866	BEVEL PINION SHAFT COUPLING, DRIVEN HALF FEATHER KEY BOLT, RIGID COUPLING M12 X 50 NUT, RIGID COUPLING M12 ASSEMBLY RIGID COUPLING SCREW GRUB M6 COUPLING DRIVING HALF SCREW GRUB M8 COUPLING DRIVEN HALF BOLT GEAR UNIT M10 X 50 WASHER SPRING M10 WASHER FLAT M10 COUPLING, DRIVING HALF FEATHER KEY GEAR MOTOR UNIT, PAN DRIVE, 240V 1PH 1.1KW (BH202) GEAR MOTOR UNIT, PAN DRIVE, 415V 3PH 1.1KW (BH202) SHIM PACK BEARING (4 SHIMS PER SET) SHIM PACKER, GEARED MOTOR UNIT CHASSIS FRAME	1 3 3 1 1 4 4 4 1 1 1 A/R

RP50XD MK2 USA/CANADA SPECIFICATION 480V 60Hz

The Star and Pan Drive Motors and Control Panel fitted to USA/Canada Specification mixers are intended for operation with a supply voltage of 480V 3 Ph 60Hz and not 415V 3 Ph 50Hz as listed overleaf. When ordering spares for the motors, gearbox or control panel it is important that this is state

Star Drive Gearmotor Unit Specification USA/Canada

C302N0250D100K4, 68 RPM Output Shaft, Motor Speed 1692 RPM, 2.2Kw, 480V 60Hz

Pan Drive Gearmotor Unit Specification USA/Canada

C202N0155D90S4, 111 RPM Output Shaft, Motor Speed 1692 RPM, 1.1Kw, 480V 60Hz

RP50XD MK2 STAR DRIVE ASSEMBLY

1	CR22100906	MOTOR GEAR UNIT STAR DRIVE 2.2KW 240V 1PH (BH202)	1
1	CR22100835	MOTOR GEAR UNIT STAR DRIVE 2.2KW 415V 3 PH (BH302)	1
1A	555114900	SHIM GEAR MOTOR UNIT, ALTERNATIVELY USE:-	A/R
		555109202, 555109203 SHIM PACKERS	A/R
1B	CR53100865	PLATE ADAPTOR GEAR MOTOR UNIT (BH302) PLAIN	1
1C	11S05C	SCREW SET M12 X 25	4
1D	17S06	WASHER SPRING M12	4
1E	267S07	WASHER FLAT M12	4
3	CR23100890	COUPLING ASSEMBLY. FLEXIBLE, FENNER HRC TYPE F	1
	nsists of Following		_
3A	CR23100908	COUPLING HALF FENNER HRC TYPE F	2
3B	CR23100891	INSERT, FLEXIBLE, FENNER HRC180	1
3C	CR66100892	BUSH TAPERLOCK DRIVING/MOTOR HALF 30MM DIA	1
3D	CR66100893	BUSH TAPERLOCK DRIVEN HALF 1 1/2" DIA	1
4A	CR329047	KEY DRIVING HALF COUPLING, SUPPLIED WITH GEARMOT	
5	CR329013	KEY DRIVEN HALF COUPLING	1
6	CR52100871	SHAFT TOP	1
6A	CR630209	SPACER BEVEL PINION	1
6B	57S05D2	SCREW GRUB	2 2
7	CR159006	BEARING ASSEMBLY TOP SHAFT	
7A	176S01	COVER GREASE NIPPLE	2
7B	CR549006	SHIM PACK BEARINGS (4 SHIMS PER SET)	A/R
7C	11S06M	SCREW SET M16 X 70	4
7D	7S06	NUT M16	6
7E	11S06K	SCREW SET M16 X 60	2
8	CR460024	GEAR BEVEL	2
8A	57S05D2	GRUB SCREW M8	6
8B	555116600	PLATE GEAR RETAINING	2
8C	11S04D	SCREW SET M10 X 30	2
8D	17S05	WASHER SPRING M10	
8E	267S06	WASHER FLAT M10	2 1
9	CR329046	KEY FEATHER BEVEL GEAR HORIZONTAL 1/2X5/16X2"	
9A	CR329093	KEY FEATHER BEVEL GEAR VERTICAL 1/2X5/16X3/4"	1
10 10A	CR210139 333104020	SUPPORT CONICAL STAR NIPPLE GREASE 1/4 BSP STRAIGHT	1 2
10A		COVER NIPPLE GREASE	2
11	CR529011	SHAFT STAR	1
12	CR529011	UPPER LIP SEAL CARRIER	1
13	CR529012	LOWER LIP SEAL CARRIER	1
14	8S02B	BOLTS CARRIER M6 X 30 (UPPER SEAL CARRIER)	4
14	8S02C	BOLTS CARRIER M6 X 35 (LOWER SEAL CARRIER)	4
14A		WASHER SPRING M6	8
15	CR150149	BEARINGS STAR SHAFT	2
16	CR569008	SEAL LIP UPPER	1
17	CR569007	SEAL LIP LOWER	1
21	CR529014	SPACER COLLAR STAR	1
23	8S06G	BOLTS STAR CONICAL M16 X 55	4
23A		WASHER FLAT M16	8
23B		WASHER SPRING M16	4
230		NUT PLAIN M16	4
24	8S05M	BOLTS TOP SHAFT BEARINGS M12 X 80	4
			•

RP50XD MK2 STAR DRIVE ASSEMBLY

24A	267S07	WASHER FLAT M12	4
24B	61S05	NUT BINX M12	4
25	11S04G	SCREW SET GEAR MOTOR UNIT M10 X 45	4
25A	17S05	WASHER SPRING M10	4
25B	267S06	WASHER FLAT M10	4
26	CR26100867	STAR ARM CHASSIS/FRAME	1

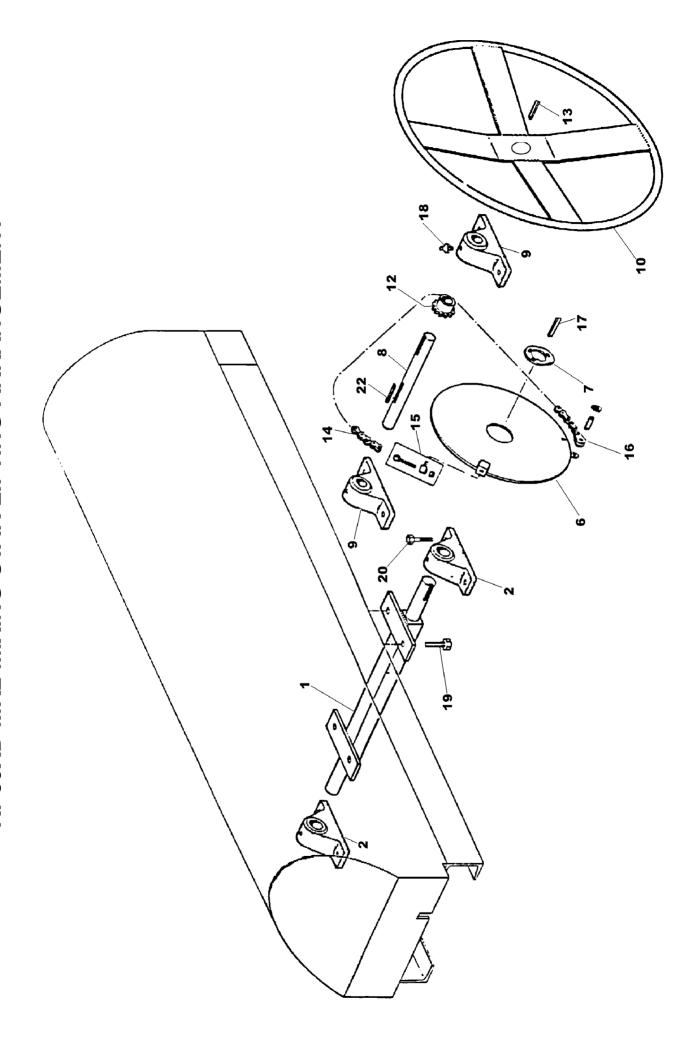
RP50XD MK2 STAR DRIVE ASSEMBLY

24A	267S07	WASHER FLAT M12	4
24B	61S05	NUT BINX M12	4
25	11S04G	SCREW SET GEAR MOTOR UNIT M10 X 45	4
25A	17S05	WASHER SPRING M10	4
25B	267S06	WASHER FLAT M10	4
26	CR26100867	STAR ARM CHASSIS/FRAME	1

RP50XD MK2 MIXING STAR ASSEMBLY

RP50XD MK2 MIXING STAR ASSEMBLY

14 14A 14B 17 18 19	CR529020 11S05D 17S06 CR210140 CR329053 CR757244 CR219009C	KEY CAP SCREW SET M12 X 30 WASHER SPRING M12 STAR MIXING KEY FEATHER MIXING STAR BLADE STAR CAST, OBSOLETE USE ITEM 19 BELOW BLADE STAR CAST, RIBBED	1 1 1 1 1
19A	CR219009P	BLADE STAR POLYUREATHANE, RIBBED	2
19B	CR219009SS	BLADE STAR STAINLESS STEEL, RIBBED	2
19C	CR219009SP	BLADE STAR POLYUREATHANE, NO RIBS, SMOOTH FINISH	2
19D	CR219009SC	BLADE STAR CAST, NO RIBS, SMOOTH FINISH	2
20	CR330061	SPRING COMPRESSION STAR BLADE	2
21 21A	11S05K	BOLT ADJUSTING BLADE FINGER M12 X 70	3 4
21A 22	7S05 8S05J	NUT M12 BOLT STAR BLADE M12 X 65	4
22A	267S07	WASHER FLAT M12	8
22B	17S06	WASHER SPRING M12	4
22C	7S05	NUT M12	4
26	CR260388	FINGER STAR BLADE	2
28	CR210142	BRACKET FIXED BLADE	1
28A	333104020	NIPPLE GREASE 1/4 BSP STRAIGHT	1
28B	176S01	COVER NIPPLE GREASE	1
29	CR260416	FINGER FIXED BLADE	1
31	CR531745	BLADE FIXED	1
32	CR531750	ANGLE BRACKET	1
33	CR639004	COLLAR SPACER	3
33A	10S31	WASHER FLAT	AR
33B	CR289002	GREASE NIPPLE 1/4 BSP 90' ANGLED	2
34	8S04J	BOLT, COLLAR M10 X 65	3
34A	61S04	NUT BINX M10	3
35 25 A	8S06F	BOLT M16 X 50	2
35A	17S08	WASHER, SPRING M16	2
35B 36	267S09 52S05H	WASHER FLAT M16 BOLT SHORT, FIXED BLADE M12 X 40	2 2
36A	267S07	WASHER FLAT M12	4
36B	17S06	WASHER FLAT M12 WASHER SPRING M12	4
36C	7S05	NUT M12	4
37	52S04K	BOLT LONG, FIXED BLADE ANGLE BRACKET M10 X 50	2
37A	17S05	WASHER, SPRING M10	2
37B	7S04	NUT M10	2
38	CR330022	SPRING FIXED BLADE	1



RP50XD MK2 MIXING STAR LIFTING ARRANGEMENT

1	CR52100823	PIVOT SHAFT	1
2	CR15100819	PIVOT SHAFT BEARING 40MM BORE	2
2A	176S01	COVER NIPPLE GREASE	2
6	CR26100816	PLATE, WHEEL, TAPERLOCK FITTING	1
6A	CR66100895	BUSH TAPERLOCK PLATE WHEEL	1
7	CR54100821	CAM, PROXIMITY SWITCH (SEE CAM & PROXIMITY SWITCH)	1
8	CR52100824	SHAFT, HANDWHEEL	1
9	CR15100818	BEARING, HANDWHEEL SHAFT	2
10	CR36100815	HANDWHEEL, TAPERLOCK FITTING	1
10A	CR66100832	BUSH TAPERLOCK HANDWHEEL	1
12	CR34100817	SPROCKET, CHAIN TAPERLOCK FITTING	1
12A	CR66100916	BUSH TAPERLOCK SPROCKET	1
13	304710825	KEY, HANDWHEEL BUSH, MAKE FROM 304708035	1
14	CR20100874	CHAIN, TILTING	1
14A	134104002	LINK SPLIT CHAIN	1
15	CR200134	BOLT & BLOCK, DRAW CHAIN	1
16	CR200072	LINK ATTACHMENT, CHAIN END	1
17	304712863	KEY, PLATE WHEEL BUSH, M12 X 8 X 63	1
18A	176S01	COVER NIPPLE GREASE	2
19	8S06H	BOLTS, PIVOT SHAFT M16 X 60	4
19A	267S09	WASHER FLAT M16	8
19C	61S06	NUT BINX M16	4
20	8S05F	BOLT, BEARINGS M12 X 50	8
20A	267S07	WASHER FLAT M12	16
20B	61S05	NUT BINX M12	8
21	CR22100886	SWITCH PROXIMITY, NOT ILLUSTRATED	1
21A	CR53100887	ANGLE BRACKET SWITCH MOUNTING, NOT ILLUSTRATED	1
21B	11S02A	SCREW SET M6 X 16, NOT ILLUSTRATED	2
21C	267S04	WASHER FLAT M6	2
21D	17S03	WASHER SPRING M6	2
22	30 <i>1</i> 708035	KEV DARALLEL SDROCKET RUSH	1

RP50XD MK2 COVERS & GUARDS

1	CR53100833	HOUSING ASSEMBLY PAN DRIVE MOTOR	1
1A	11S05D	SCREW SET M12 X 30	8
1B	267S07	WASHER FLAT M12	8
			0
1D	61S05	NUT BINX M12	8
2	CR54100820	GUARD, CHAIN UPPER	1
2A	7S04	NUT M10	2
2B	17S05	WASHER SPRING M10	2
2C	267S06	WASHER FLAT M10	2 2
3	CR53100814	COVER CHAIN LOWER	1
3A	11S05D	SCREW SET M12 X 30	8
3B	267S07	WASHER FLAT M12	16
3C	61S05	NUT BINX M12	8
4	CR54100862		1
4A	11S03B	SCREW SET M8 X 20	6
4B	267S05	WASHER FLAT M8	6
4C	17S04	WASHER SPRING M8	6
5	CR54100822	GUARD STAR DRIVE	1
5A	V2003215	DOOR PULL, NOT ILLUSTRATED	2
5B	11S02A	SCREW SET M6 X 20	4
5C	267S04	WASHER FLAT M6	4
5D	17S03	WASHER SPRING M6	4
5E	7S02	NUT M6	4
5F	11S05D	SCREW SET M12 X 30	6
5G	17S05	WASHER SPRING M12	6
5H	267S07	WASHER FLAT M12	6
6	CR53100897	COVER INSPECTION, HOUSING SIDE, R/H LARGE, NOT ILLUS	1
6A	11S03B	SCREW SET M8 X 20	4
6B	17S04	WASHER SPRING M8	4
6C	267S05	WASHER FLAT M8	4
6D	CR53100909	COVER INSPECTION, HOUSING SIDE, L/H SMALL, NOT ILLUS	1
6E	11S03B	SCREW SET M8 X 20	4
6F	17S04	WASHER SPRING M8	4
6G	267S05	WASHER FLAT M8	4
7	CR53100875	COVER FRONT LOUVERED, HOUSING, NOT ILLUSTRATED	1
7A	11S03B	SCREW SET M8 X 20	4
7B	17S04	WASHER SPRING M8	4
7C	267S05	WASHER FLAT M8	4
8	CR54100910	COVER DUST ASSEMBLY	1
8A	CR249505	CATCH INSPECTION HATCH	1
8B	11S03C	SCREW SET M8 X 25	5
8C	17S04	WASHER SPRING M8	5
8D	267S05	WASHER FLAT M8	5
9	CR540442	CLEAT, DUST COVER TO FRAME	2
9A	11S04C	SCREW SET M10 X 25 CLEAT TO DUST COVER	4
9B	267S06	WASHER FLAT M10	8
9C	17S05	WASHER SPRING M10	4
9D	7S04	NUT PLAIN M10	4
10	11S05D	SCREW SET M12 X 30 CLEAT TO FRAME	4
10A	267S07	WASHER FLAT M12	8
10B	17S06	WASHER SPRING M12	4
10C	7S05	NUT PLAIN M12	4
11	11S07T	SCREW SET STAR FRAME STOP M20 X 100	2

RP50XD MK2 COVERS & GUARDS

11A	7S07	NUT PLAIN M20	2
12	CR54100839	GUARD PAN DRIVE GEAR/PAN RIM	1
12A	11S04D	SCREW SET M10 X 30	4
12B	267S06	WASHER FLAT M10	8
12C	17S05	WASHER SPRING M10	4
12D	7S04	NUT M10	4
13	CR54100911	GUARD, PAN COVER SIDE, RH	1
13A	CR54100912	GUARD, PAN COVER SIDE, LH	1
13B	CR54100913	GUARD PAN COVER REAR, NOT ILLUSTRATED	1
13C	11S03B	SCREW SET M8 X 20	21
13D	17S04	WASHER SPRING M8	21
13E	267S05	WASHER FLAT M8	21
13F	7S03	NUT M8	9
14	CR570019	SEAL RUBBER	1
15	CR53100926	STOP ANGLE, STAR ARM CHASSIS, NOT ILLUSTRATED	1
15A	8S03C	BOLT	2
15B	267S05	WASHER FLAT	4
15C	61S03	NUT BINX SELF LOCKING M8	2
16	V2003199	TRIM EDGING, NOT ILLUSTRATED	A/R

PAGE INTENTIONALLY BLANK

RP50XD MK2 PROXIMITY SWITCHES & CAM

PARTS NOT ILUSTRATED

1	CR22100878	SWITCH PROXIMITY, PAN	2
2	CR22100886	SWITCH PROXIMITY, STAR LIFTING	1
3	CR53100887	ANGLE BRACKET, SWITCH MOUNTING STAR LIFTING	1
4	11S02C	SCREW SET M6 X 25	2
5	17S03	WASHER SPRING M6	2
6	267S04	WASHER FLAT M6	2
7	7 S02	NUT M6	2
8	CR54100821	CAM, SWITCH OPERATING, STAR LIFTING	1
9	11S02C	SCREW SET M6 X 25	2
10	17S03	WASHER SPRING M6	2
11	267S04	WASHER FLAT M6	2
12	CR54100863	BRACKET, PROXIMITY SWITCH PAN	2
13	11S03C	SCREW SET M8 X 25	4
14	267S05	WASHER FLAT M8	4
15	17S04	WASHER SPRING M8	2
16	7 S03	NUT M8	2
17	7000410	COVER SPIRAL GUARD	6MT
18	143200300	CLIP 'P'	2
19	11S02B	SCREW SET M6 X 20	2
20	267S04	WASHER FLAT M6	2
21	17S03	WASHER SPRING M6	2
22	7 S02	NUT M6	2
23	V2003252	GROMMET OPEN	2

RP50XD MK2 USA/CANADA SPECIFICATION 480V 60Hz

The Star and Pan Drive Motors and Control Panel fitted to USA/Canada Specification mixers are intended for operation with a supply voltage of 480V 3 Ph 60Hz and not 415V 3 Ph 50Hz as listed overleaf. When ordering spares for the motors, gearbox or control panel it is important that this is state

Star Drive Gearmotor Unit Specification USA/Canada

C302N0250D100K4, 68 RPM Output Shaft, Motor Speed 1692 RPM, 2.2Kw, 480V 60Hz

Pan Drive Gearmotor Unit Specification USA/Canada

C202N0155D90S4, 111 RPM Output Shaft, Motor Speed 1692 RPM, 1.1Kw, 480V 60Hz

RP50XD MK2 ELECTRICAL SWITCH GEAR

PARTS NOT ILLUSTRATED

1	CR22100907	CONTROL PANEL ASSEM, HIGH LEVEL MOUNTING 240V 1PH	1
1	CR22100901	CONTROL PANEL ASSEM, HIGH LEVEL MOUNTING 415V 3PH	1
1A	CR53100873	BRACKET SUPPORT CONTROL PANEL MOUNTING	1
1B	11S03C	SCREW SET M8 X 30	4
1C	267S05	WASHER FLAT M8	8
1D	17S04	WASHER SPRING M8	4
1E	61S03	NUT BINX M8	4
1F	11S02C	SCREW SET M6 X 25	8
1G	267S04	WASHER FLAT M6	16
1H	17S03	WASHER SPRING M6	8
IJ	7S02	NUT M6	8
2	CR229109	SP20 CONDUIT	6MT
3	CR229110	SP20/M20/TYPE B FITTINGS	7
4	191902200	TERMINAL RING 'CRIMP ON TYPE' BLUE	8
5	144700200	CABLE 1.5MM SQ G/Y (6491X H07)	8MT
6	7000410	COVER FLEXIBLE SPIRALGUARD	A/R
7	CR229112	COUPLER 20MM FEMALE GALVANISED	1
8	CR229103	CABLE 2.5MM SQ RED (6491X H07)	8MT
9	CR229104	CABLE 2.5MM SQ YELLOW (6491X H07)	8MT
10	CR229105	CABLE 2.5MM SQ BLUE (6491X H07)	8MT
11	CR229097	TERMINAL RING 'CRIMP ON TYPE'	2
12	CR229114	LOCK RINGS 20MM	2
13	CR22100879	CONVERTER PG16-M20	A/R
14			
15	143200300	CLIP 'P'	10
16	11S02C	SCREW SET M6 X 25	10
17	267S04	WASHER FLAT M6	10
18	17S03	WASHER SPRING M6	10
19	7S02	NUT M6	10
20	CR22100886	,	1
21	CR22100878	SWITCH PROXIMTY, PAN DRIVE PROTECTION	2

1 CROKER CUMFLOW RP50XD

2

Model	
Senai No.	
Engine No.	
Capacity	Mass (kg)
SRO No.	Power (kW)
Year Of Manuf.	Eng. (rpm) Drum (rpm)

4



5



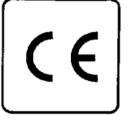
6



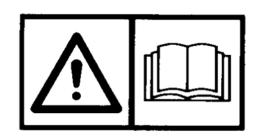
7



Q



9



10



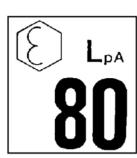
11



- The manufacturer's rated capacity must never be exceeded
- 8 Before carrying out any maintenance servicing, or greasing always ensure that the engine has been switched off. Never work on a machine while it is running.

M-2046-1499-1

12



13



14



15



RP50XD MK2 DECALS AND LOGOS

1	CR85100762	DECAL RP50XD	2
2	V2003037	PLATE SERIAL NUMBER	1
3	101S05D	RIVET POP	4
4	V2003039	DECAL 'WINGET' MEDIUM	2
5	V2003665	DECAL SLING POINT	4
6	V2003598	DECAL BRITISH MADE	2
7	V2004307	DECAL ELECTRICAL HAZARD	2
8	V2004223	DECAL 'CE' MARK (EU & NI ONLY)	1
9	V2004229	DECAL OPERATORS HANDBOOK	2
10	V2004744	DECAL EYE PROTECTION	2
11	504694600	DECAL SAFETY	1
12	V2004130	DECAL NOISE 80 LPA	1
13	V2003575	DECAL NOISE 105 LWA	1
14	V2006402	DECAL UKCA (GB ONLY)	1
15	V2006403	DECAL UKNI (NI USE ONLY)	1

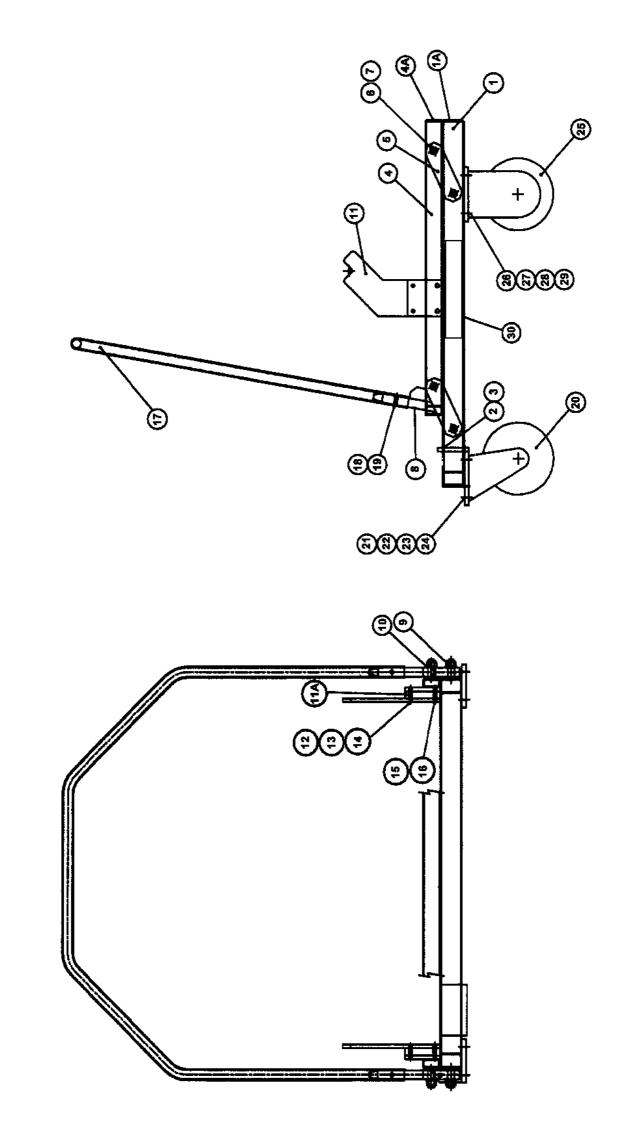
OPERATING

AND

MAINTENANCE MANUAL

SECTION 5

ANCILLARY EQUIPMENT SPARE PARTS



RP50XD MK2 FOUR WHEEL PAN TROLLEY

FROM MARCH 2001 ONWARDS

1	CR26100858	FRAME LOWER	1
1A	CR47100860	INSERT BLANKING 60 X 40	2 2
2	11S04G	STOP SCREWS M10 X 45	
3	7S04	NUT M10	4
4	CR26100857	FRAME UPPER	1
4A	CR47100861	INSERT BLANKING 50 X 25	2 2
5	CR53100849	PIVOT BAR FRONT	2
6	59S11	NUT NYLOC M16	4
7	267S09	WASHER FLAT M16	4
8	CR26100850	PIVOT BAR REAR C/W HANDLE CARRIERS	2
9	59S11	NUT NYLOC M16	4
10	267S09	WASHER FLAT M16	4
11	CR53100852	PLATE PICKUP, PAN SUPPORT	2
11A	CR53100921	BRACKET SPACER	2
12	11S03B	SCREW SET M8 x 20	4
12A	11S03D	SCREW SET M8 x 30	4
12C	61S03	NUT BINX M8	4
13	17S04	WASHER SPRING M8	4
14	267S05	WASHER FLAT M8	12
15	11S03B	SCREW SET M8 x 20	4
15A	11S03D	SCREW SET M8 x 30	4
16	267S05	WASHER FLAT M8	12
16A	17S04	WASHER SPRING M8	4
16B	61S03	NUT BINX M8	4
17	CR53100846	HANDLE TROLLEY	1
18	8S03E	BOLT HANDLE RETAINING M8 x 45	
19	61S03	NUT BINX M8	2 2 2
20	CR449001	CASTOR SWIVEL REAR ASSEMBLY	2
		MS AVAILABLE AS FOLLOWS	_
20A		WHEEL ASSEMBLY C/W BEARING	1
20B	CR449005	WHEEL CENTRE BUSH/SPACER	1
20C	11S05P	BOLT M12 x 80	1
20D	61S05	NUT BINX M12	1
21	11S04D	BOLT CASTOR RETAINING M10 x 30	8
22	267S06	WASHER FLAT M10	8
23	17S05	WASHER FEAT WITO WASHER SPRING M10	8
23 24	7S04	NUT M10	8
2 4 25	CR449000	CASTOR FIXED FRONT ASSEMBLY	2
		MS AVAILABLE AS FOLLOWS	2
			4
25A	CR449002	WHEEL ASSEMBLY C/W BEARING	1
25B	CR449005	WHEEL CENTRE BUSH/SPACER	1
25C	11S05P	BOLT M12 x 80	1
25D	61S05	NUT BINX M12	1
26	11S04D	BOLT CASTOR RETAINING M10 x 30	8
27	267S06	WASHER FLAT M10	8
28	17S05	WASHER SPRING M10	8
29	7S04	NUT M10	8
30	V2004636	DECAL WINGET SMALL	2

RP50XD MK2 ADDITIONAL PARTS REQUIREMENT MoD

ADDITIONAL PARTS LISTED BELOW ARE NOT ILLUSTRATED

1 2	V2005120 101S05D	PLATE - NOMENCLATURE/INSCRIPTION RIVET POP	1 4
3	V2005132	TOOL KIT	1
4	CR54100774	TOOL BOX	1
5	11S04B	SCREW SET M10	2
6	17S05	WASHER SPRING M10	2
7	7504	NUT M10	2

OPERATING AND MAINTENANCE MANUAL

SECTION 6 ELECTRICAL SYSTEM

RP50XD MK2 USA/CANADA SPECIFICATION 480V 60Hz

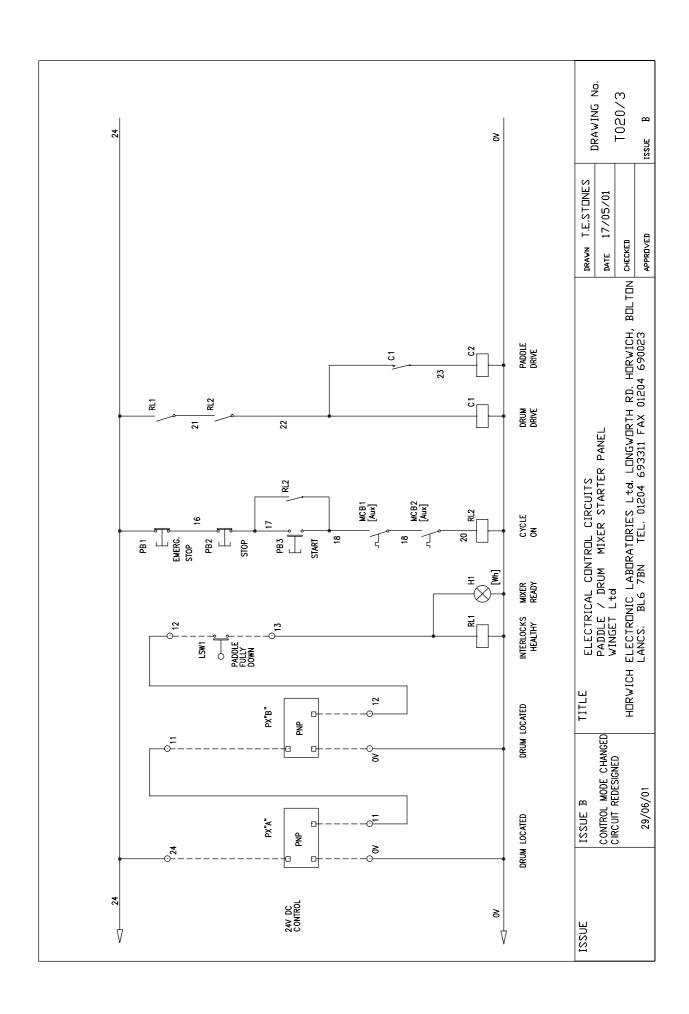
The Star and Pan Drive Motors and Control Panel fitted to USA/Canada Specification mixers are intended for operation with a supply voltage of 480V 3 Ph 60Hz and not 415V 3 Ph 50Hz as listed overleaf. When ordering spares for the motors, gearbox or control panel it is important that this is state

Star Drive Gearmotor Unit Specification USA/Canada

C302N0250D100K4, 68 RPM Output Shaft, Motor Speed 1692 RPM, 2.2Kw, 480V 60Hz

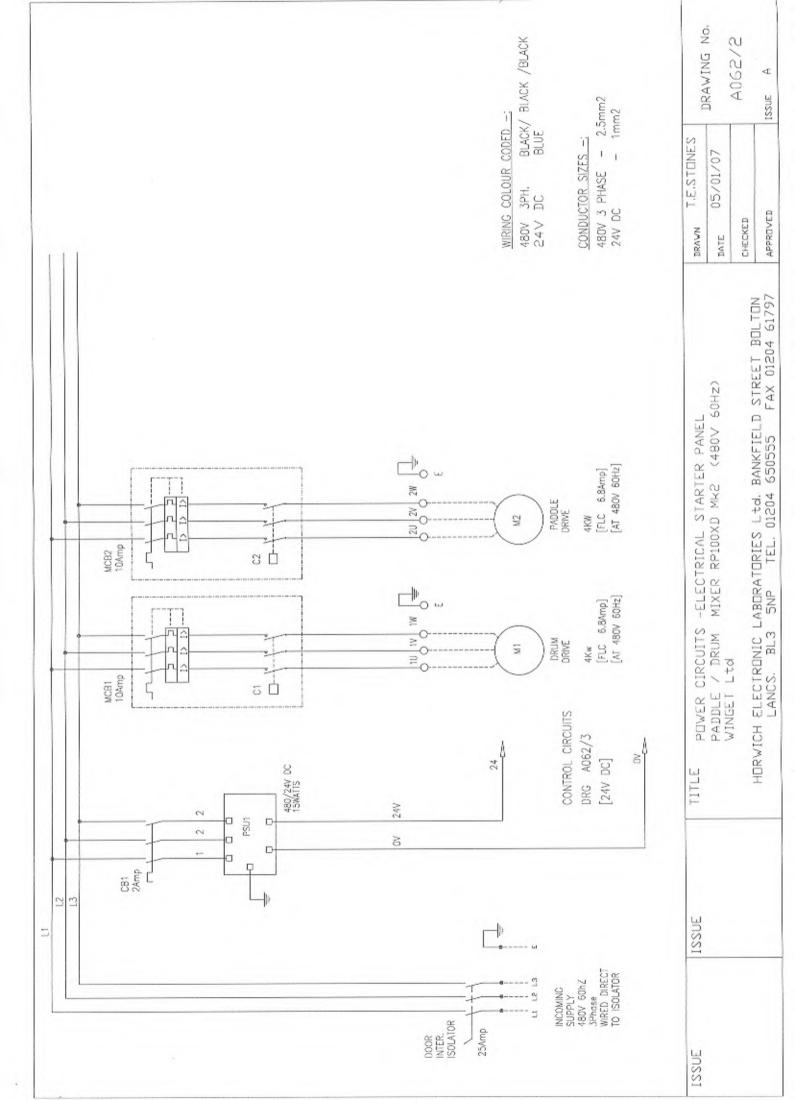
Pan Drive Gearmotor Unit Specification USA/Canada

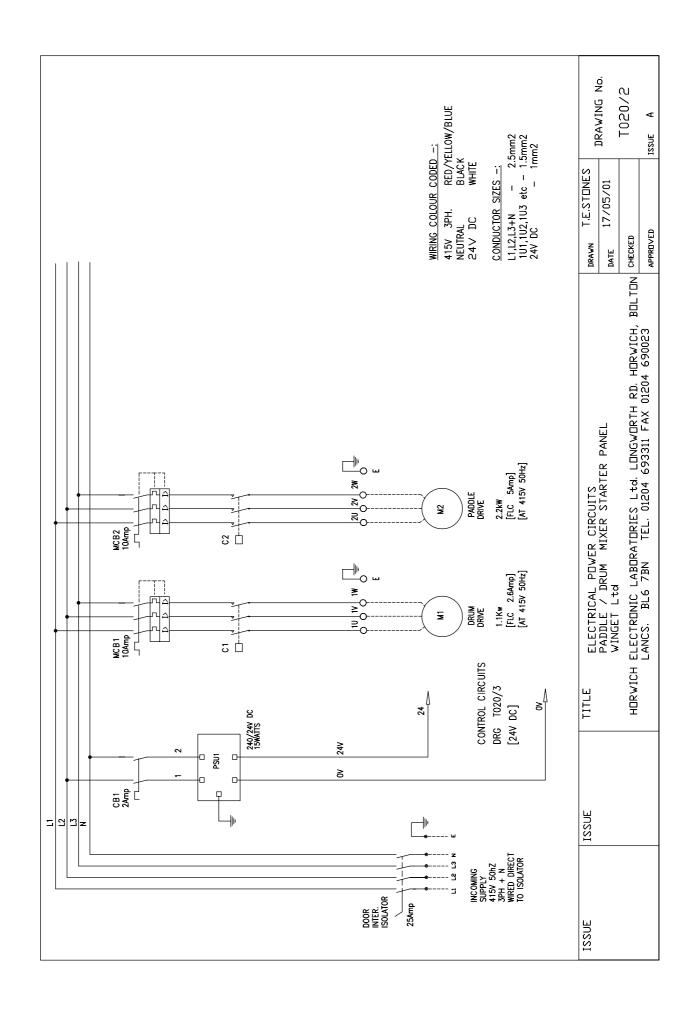
C202N0155D90S4, 111 RPM Output Shaft, Motor Speed 1692 RPM, 1.1Kw, 480V 60Hz

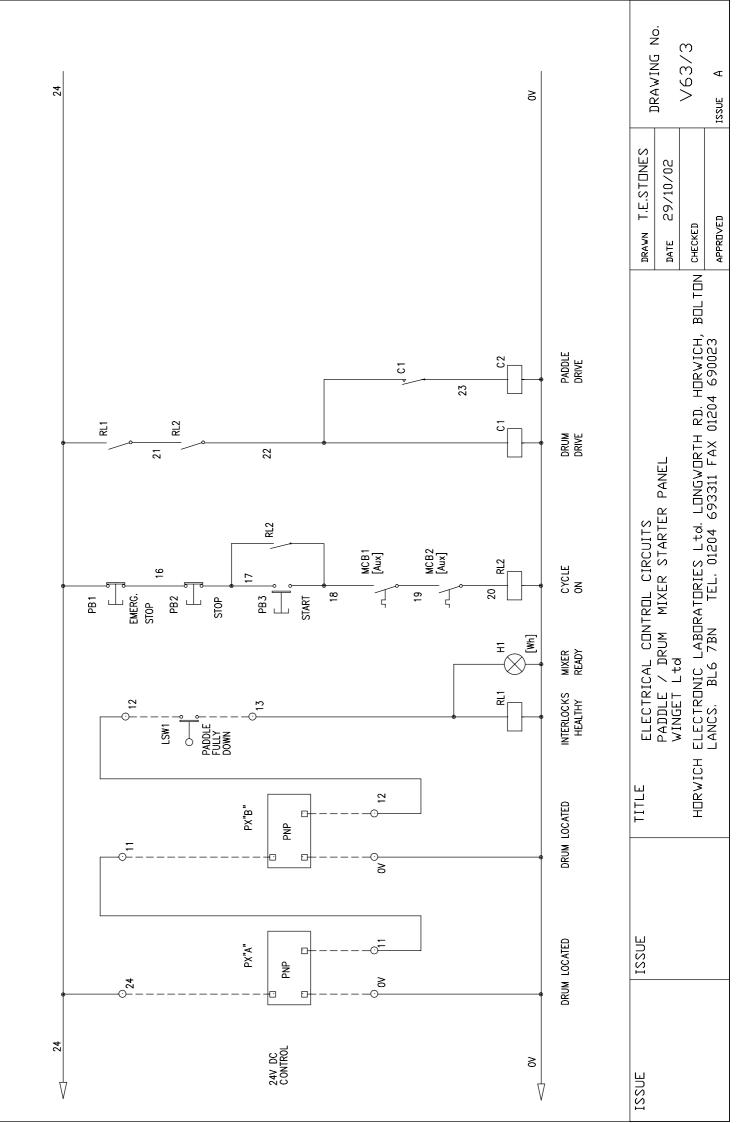


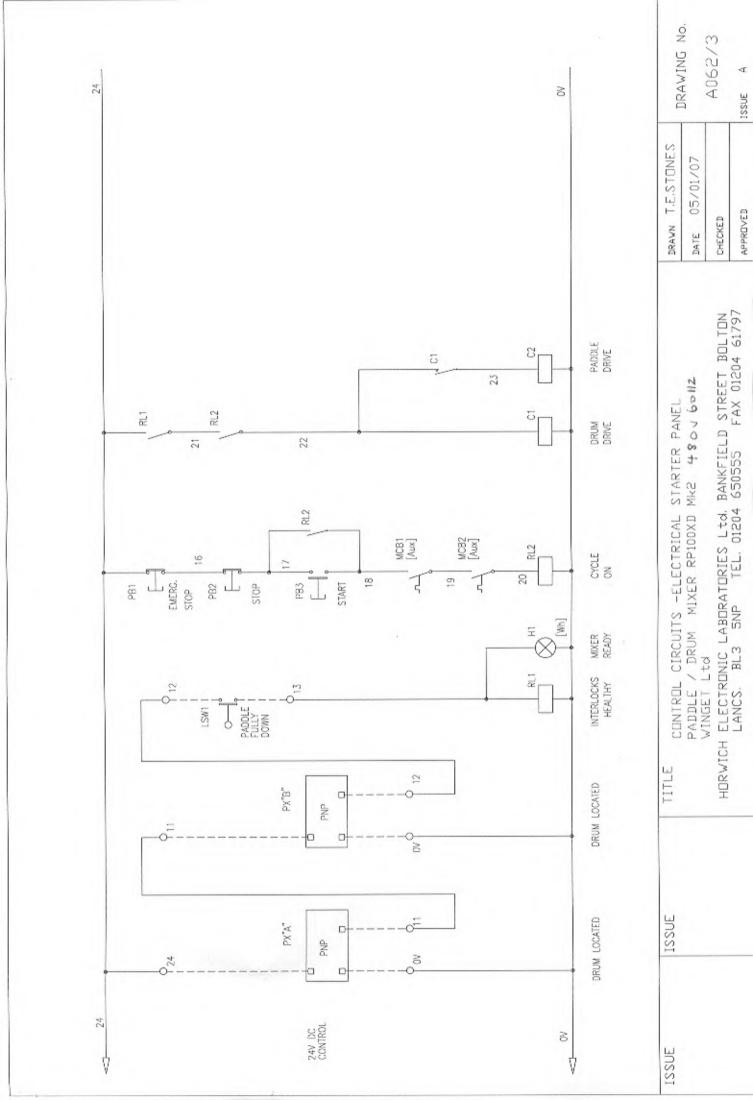
DRAWING No. V63/2 ⋖ ISSUE T.E.STONES 29/10/02

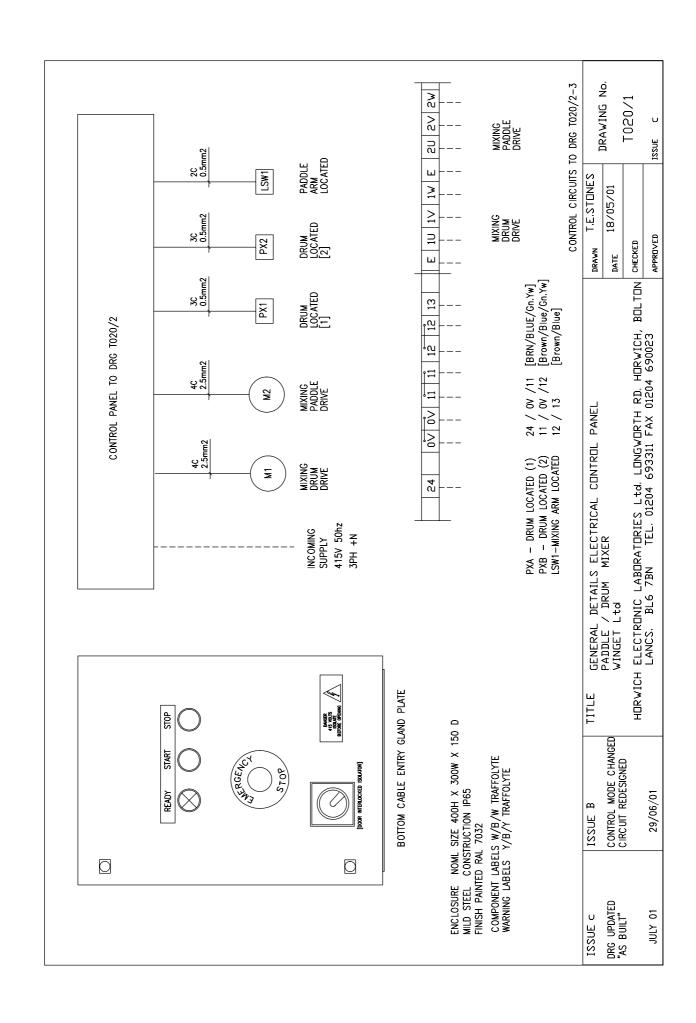
2.5mm2 1mm2

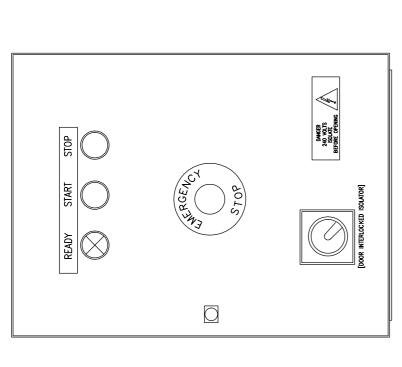








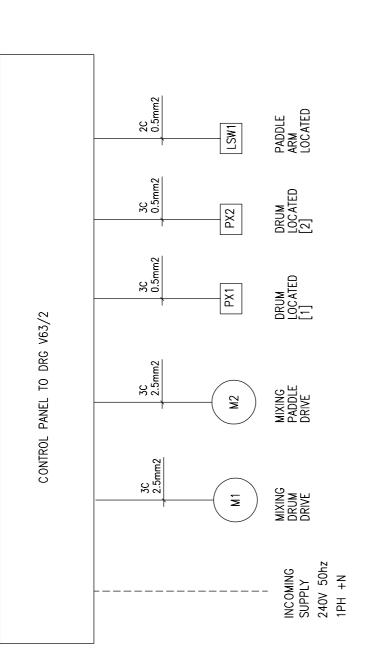


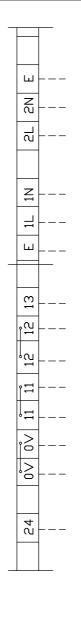


BOTTOM CABLE ENTRY GLAND PLATE

ENCLOSURE NOML SIZE 400H X 300W X 150 D MILD STEEL CONSTRUCTION IP65 FINISH PAINTED RAL 7032

COMPONENT LABELS W/B/W TRAFFOLYTE WARNING LABELS Y/B/Y TRAFFOLYTE



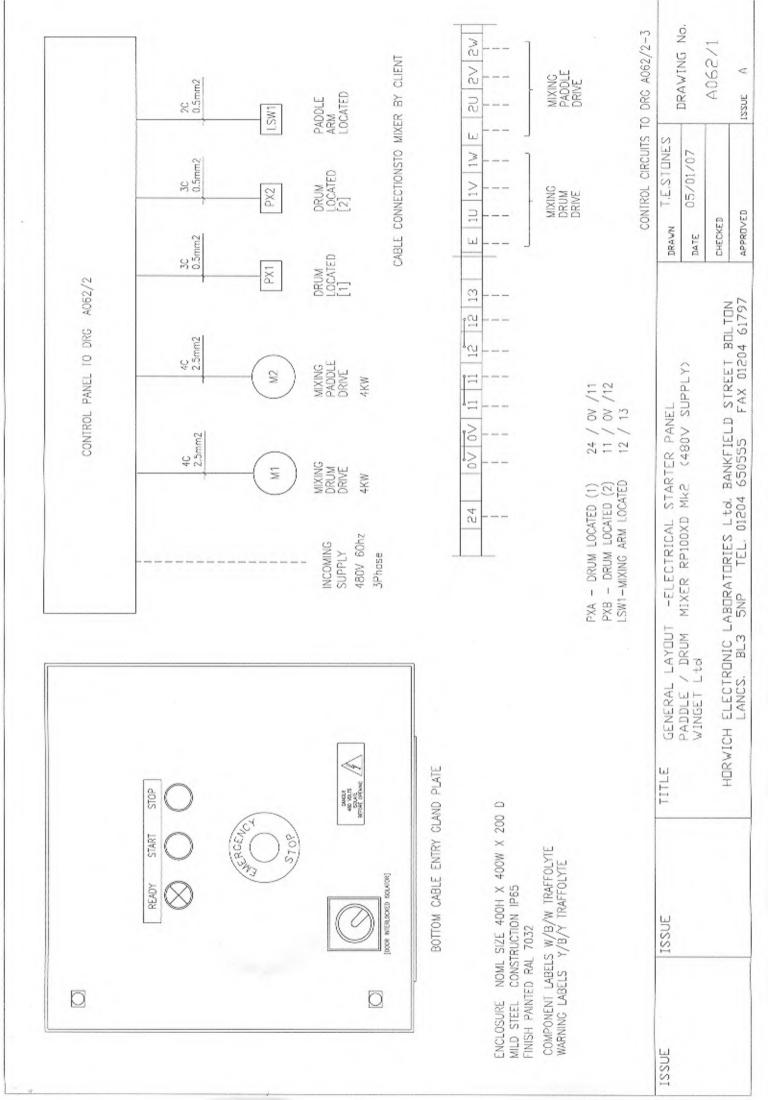


[BRN/BLUE/Gn.Yw] [Brown/Blue/Gn.Yw] [Brown/Blue] 24 / 0V /11 11 / 0V /12 | 12 / 13 PXA - DRUM LOCATED (1) PXB - DRUM LOCATED (2) LSW1-MIXING ARM LOCATED

MIXING PADDLE DRIVE

MIXING DRUM DRIVE

TO DRG V63/2—3	ON SULLY	, ON DAIL W LYG	V63/1	ISSUE A
CONTROL CIRCUITS TO DRG V63/2-3	DRAWN T.E.STONES	DATE 29/10/02	СНЕСКЕ	APPROVED
	TITLE GENERAL DETAILS ELECTRICAL CONTROL PANEL	MINER / DRUM MINER	HDRWICH ELECTRONIC LABORATORIES Ltd. LONGWORTH RD. HORWICH, BOLTON CHECKED	LANCS. BL6 7BN TEL. 01204 693311 FAX 01204 690023
	ISSUE			
	ISSUE			



ı		ı
ŀ	_	-
ľ		
		٠
	c)
t	۰	ì
ř		٠
	c)
	4	١
ŀ	v	4
	'n	7
	н	ď
	J)
r	7	٦
	4	,
ı		П
ľ	2	1
ľ	ŭ	١
	н	ď
r	v	١
١	ж	4
ĺ		D
	e	
ķ	÷	ı
ı		
١	`	
ı		ı
ľ	•	J
r		3
ľ	₹	ď
ı	•	3
ŀ	8	5
į	Ę	5
į	١	2
	Ş	5
	Ş	5
	į	
	, ,	
	2	5
	<u> </u>	
	2/0	2
	7 0 000	
		5 5 7 7 7
	11/C	
	St OWO 17	
	N N N N N N N N N N	
	0/L/ 0/MC 13/0	
	0/L/ 0/MO to 10	
	10/LL DWD 13/01	
	T 0WO 13 0H	
	Darte Ist Owo 11/0	
	Darte let 0WC 11/0	
	Darte St Owo 17/0	
	Darte St Owo 17/0	
	ייין/ כאיס לאן אלזיבע מוי	
	STA Darte 1st Own 11/0	
	teria Parto Ist Awa 11/0	
	ateria Parto Ist Awa 11/0	
	Ateria Parto 1st OWO 11/0	
	Vateria Parto 1st OWO 11/0	
	Wateria Parto Ist CWC 11/	

MATERIAL PARTS LISTS

SHT NO. 1 OF 1

		ULOCAIT ILN			クレビアコト
	CONTROL PANEL TO DRG	120/1 -3			
		Į Į Į	1	, i	
	1	MILD SIEEL ENCLOSURE	300 x 400 X 200 SIS -415	EIA	
1	ISOL	DOOR INTERLOCKED ISOLATOR	P1 $25/V/SVB + N1-P2$	KLOCKNER MOELLER	
_	CB1	CIRCUIT BREAKER 2Amp	S272-K2	ABB	
	MCB1	MOTOR CIRCUIT BREAKER	PKZM0-4 +NHi-11	KLOCKNER MOELLER	
1	MCB2	MOTOR CIRCUIT BREAKER	PKZMO-6.3 +NHi-11	KLOCKNER MOELLER	
2	MCB1/C1, MCB2/C2	COMBINED MOUNTING PLATE	C-PKZM	KLOCKNER MOELLER	
2	C1,C2	CONTACTOR	SE00-11-PKZ0	KLOCKNER MOELLER	
_	PSU1	POWER SUPPLY 240/24VDC/50W	PS5R-B-24V	DEC	
2	RL1-2inc	CONTROL RELAY 24V DC 4 POLE	111.A4.24VDC	KHUNKE	
	RL1-2inc	RELAY BASE 14 PIN	Z392.04	KHUNKE	
SET	_	TERMINALS	SAK 2,5	KLIPPON	
	PANEL DOOR COMPONENTS	S			
	PB1	EMERGENCY STOP BUTTON	RPV+BE3+EK01	KLOCKNER MOELLER	
	PB2	PUSHBUTTON RED	RDH -RT10 +BE3 +EK01	KLOCKNER MOELLER	
	PB3	PUSHBUTTON GREEN	RD-11 +BE3 +EK10	KLOCKNER MOELLER	
	H1	INDICATOR LAMP WHITE	RLF-WS+BE3+EF	KLOCKNER MOELLER	
	H1	FILAMENT BULB 28V	193-4976	R.S.COMPONENTS	
		COMPONENT LABEL	W/B/W TRAFFOLYTE	HEL	
	I	WARNING LABEL [415V]	Y/B/Y TRAFFOLYTE	HEL	
	1	EM STOP LABEL	1AK-299	KLOCKNER MOELLER	
				_	

	MATERIAL PARTS LISTS -ELECTRICAL CONTROL	PADDLE / DRUM MIXER STARTER PANEL WINGET Ltd	HDRWICH ELECTRONIC LABORATORIES Ltd. LONGWORTH RD. HORW LANCS. BL6 7BN TEL. 01204 693311 FAX 01204 690	
	TITLE		HDRWICH	
	ISSUE			
	ISSUE			

	DRAWN T.E.STONES	JINI//V GT
	рате 17/05/01	
RWICH, BOLTON	BOL TON CHECKED	T020F
90023	APPROVED	Issue A

DRAWING No.

T020PL1

to fiit	ı
ж	
Ţ	
J	2
Į	
π)
и	٢
	2
u	9
•	١
ж.	٩
$\boldsymbol{\sigma}$)
	1
α	3
٠.	٩
C	2
12/02 07:01:06	t
Į	
-	١
c	9
ь	t
7	ı
	١
c	9
\sim	ľ
	١
u	2
/	9
\sim	ſ
	١
7	
/	2
Į	
	ı
,	ı
·	2
-	1
-	i
-	
	ŕ
	ı
,	
	ı
ľ	
d	
Ыط٤	3
ззы	3
Ідку	3
เศะษบ	3
1063PI	200
NOGRAPI	200
VORSPI	2

MATERIAL PARTS LISTS

SHT NO. 1 OF 1

QTY	CIRCUII REFERENCES	DESCRIPTION	ITPE / CUDE NU.	MANUL ACIONER	KEMAKKS
	CONTROL PANEL TO DRG V63/1	V63/1 –3			
1	-	MILD STEEL ENCLOSURE	$300 \times 400 \times 200$ ST3 -415	ETA	
_	ISOL	DOOR INTERLOCKED ISOLATOR	P1 32/V/SVB	KLOCKNER MOELLER	
1	CB1	CIRCUIT BREAKER 2Amp	S272-K2	ABB	
_	MCB1	MOTOR CIRCUIT BREAKER	PKZM0-10 +NHi-11	KLOCKNER MOELLER	
_	MCB2	MOTOR CIRCUIT BREAKER	PKZMO-16 +NHi-11	KLOCKNER MOELLER	
2	MCB1/C1, MCB2/C2	COMBINED MOUNTING PLATE	C-PKZM	KLOCKNER MOELLER	
2	C1,C2	CONTACTOR	SE00-11-PKZ0-24V DC	KLOCKNER MOELLER	
1	PSU1	POWER SUPPLY 240/24VDC/15W	PS5R-B-24V	IDEC	
2	RL1-2inc	CONTROL RELAY 24V DC 4 POLE	111.A4.24VDC	KHUNKE	
2	RL1-2inc	RELAY BASE 14 PIN	2392.04	KHUNKE	
1 SET	1	TERMINALS	SAK 2,5	KLIPPON	
	PANEL DOOR COMPONENTS				
1	PB1	EMERGENCY STOP BUTTON	M22-PV-K01	KLOCKNER MOELLER	
1	PB2	PUSHBUTTON RED	M22-D-R+M22-K01	KLOCKNER MOELLER	
_	PB3	PUSHBUTTON GREEN	M22-D-G+M22-K10	KLOCKNER MOELLER	
_	±	INDICATOR LAMP WHITE	M22-L-W+M22-LED230-W	KLOCKNER MOELLER	
	I	വ	N	HEL	
1	1	WARNING LABEL [415V]	Y/B/Y TRAFFOLYTE	HEL	
_	I	EM STOP LABEL	M22-XBK1	KLOCKNER MOELLER	

		BOLT	
	TITLE MATERIAL PARTS LISTS -ELECTRICAL CONTROL PADDLE / DRUM MIXER STARTER PANEL	WINGE! LTG HORWICH ELECTRONIC LABORATORIES Ltd. LONGWORTH RD. HORWICH, BOLT LANCS. BL6 7BN TEL. 01204 693311 FAX 01204 690023	
	ISSUE		
	ISSUE		

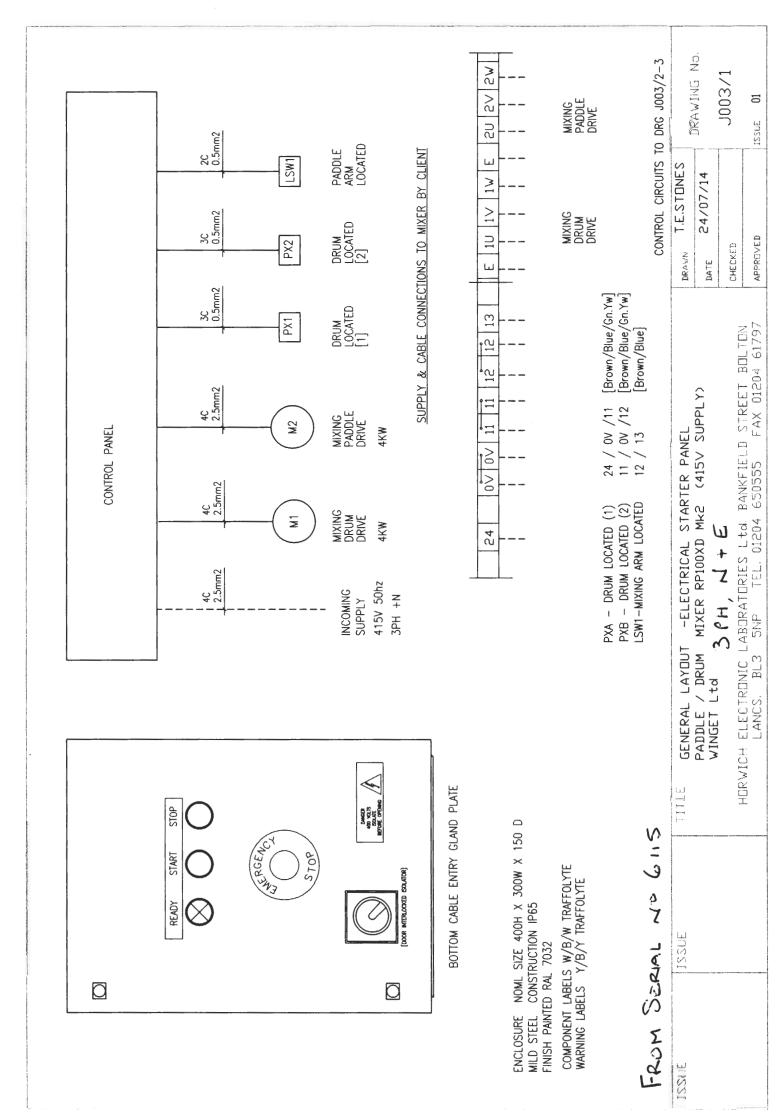
ON JULY)))))	V63PL1	ISSUE A
T.E.STONES	29/10/02		Œ.
DRAWN	DATE	СНЕСКЕВ	APPROVED
		NDLJ	

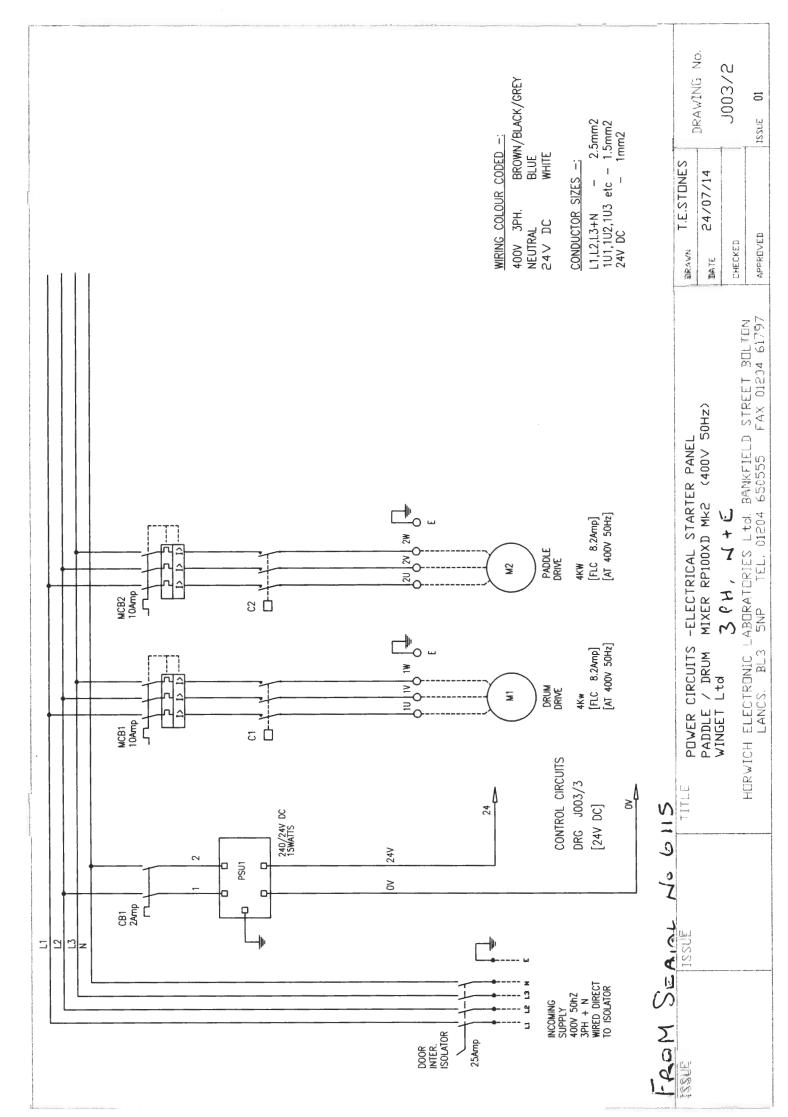
ĺ	0	
-	0	
è	011	
1	4	
	1	
	_	
Ç	0	
٠	-	
ſ	V	
	1	
í	4	
Ĺ	TAX	
1	EKIAL	
1	EKIAL	
1	EKIAL	
1		

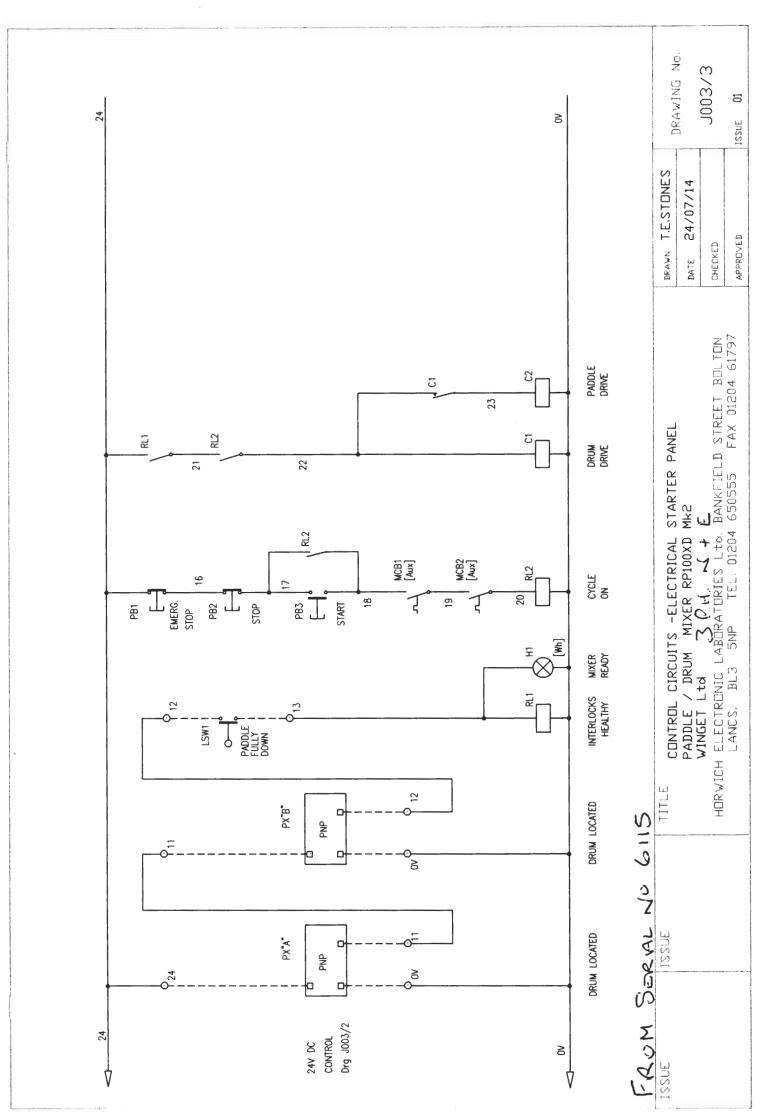
SHT NO. 1 OF 1

W Y	RENCES	DESCRIPTION	TPE / LUDE NO.	MANUT NO LONDA	NEMBANA
	CONTROL PANEL TO DRG A	A062/1			
	1	MILD STEEL ENCLOSURE	400 x 400 X 200 ST4 -420	ETA	
	TOSI	DOOR INTERLOCKED ISOLATOR	P1 25/V/SVB + N1-P2	KLOCKNER MOELLER	
	CB1	CIRCUIT BREAKER 3P 2Amp	S203-K2	ABB	
	MCB1	MOTOR CIRCUIT BREAKER	PKZM0-10 +NHi-11	KLOCKNER MOELLER	
	MCB2	MOTOR CIRCUIT BREAKER	PKZM0-10 +NHi-11	KLOCKNER MOELLER	
	MCB1/C1, MCB2/C2	COMBINED MOUNTING PLATE	C-PKZM	KLOCKNER MOELLER	
	01,02	CONTACTOR	SE00-11-PKZ0	KLOCKNER MOELLER	
	PSU1	POWER SUPPLY 500/24VDC/100W	454-2160	RS COMPONENTS	
	RL1-2inc	CONTROL RELAY 24V DC 4 POLE	111.A4.24VDC	KHUNKE	
	RL1-2inc	RELAY BASE 14 PIN	2392.04	KHUNKE	
SET	_	TERMINALS	SAK 2,5	KLIPPON	
	PANEL DOOR COMPONENTS				
	PB1	EMERGENCY STOP BUTTON	M22-PV-K01	KLOCKNER MOELLER	
	PB2	PUSHBUTTON RED	M22-D-R+M22-K01	KLOCKNER MOELLER	
	P83	PUSHBUTTON GREEN	M22-D-G+M22-K10	KLOCKNER MOELLER	
	H1	INDICATOR LAMP WHITE 24V	M22-L-W+M22-LED-W	KLOCKNER MOELLER	
	1	COMPONENT LABEL	W/B/W TRAFFOLYTE	HEL	
		WARNING LABEL [480V]	Y/B/Y TRAFFOLYTE	HEL	
	1	EM STOP LABEL	M22-XBK1	KLOCKNER MOELLER	

ISSUE	ISSUE		DRAWN T.E.STONES	DOALLTING NO
		PADDLE / DRUM MIXER RP100XD MK2 480/60M2	DATE 05/01/07	מון אינועם
		HORWICH ELECTRONIC LABORATORIES Ltd. BANKFIELD STREET BOLTON	снескер	A062PL1
		LANCS. BL3 5NP TEL. 01204 650555 FAX 01204 61797	APPROVED	Issue A







الم	FROM SERML No	No 6115	MATERIAL PARTS LISTS	<i>S</i>	SHT ND. 1 OF 1
QTY	CIRCUIT REFERENCES DESCRI	DESCRIPTION	TYPE /CODE NO.	MANUFACTURER	REMARKS
	CONTROL PAINEL TO DRG .	1-14			
-		MILD STEEL ENCLOSURE	300 x 400 X 200 ST3 -415	ETA	
-	ISOL	DOOR INTERLOCKED ISOLATOR	P1 32/V/SVB	KLOCKNER MOELLER	
	ISOL	ISOLATOR 4TH POLE	N-PI 2	KLOCKNER MOELLER	
2	ISOL	ISOLATOR SHROUDS	HP1	KLOCKNER MOELLER	
-	CB1	CIRCUIT BREAKER 2Amp	S202M-C2	ABB	
	CTTOATO				
C	MOIUR SIARIER ASST				
7	MCB 1,2	MOTOR CIRCUIT BREAKER	PKZMO-10	KLOCKNER MOELLER	
2	MCB 1,2	MCB AUX CONTACTS	NHi-11-PKZ0	KLOCKNER MOELLER	
2	- 1	CONTACTOR	DILM12-10 24V DC	KLOCKNER MOELLER	
2	MCB1/C1, MCB2/C2	MOUNTING KIT	PKZM0-XDM12	KLOCKNER MOELLER	
-	PSU1	240/24VDC,	428-455	RS COMPONENTS	
2	RL1-2inc	<u>¥</u>	111-A4-24V DC	KHUNKE	
	RL1-2inc	RELAY BASE 14 PIN	~`. 1	KHUNKE	
1 SET	l	TERMINALS	SAK 2,5	KLIPPON	
	PANEL DOOR COMPONENTS				
-	PB1	EMERGENCY STOP BUTTON	M22-PVT-K01	KLOCKNER MOELLER	
_	PB2	PUSHBUTTON RED	M22-D-R+M22-K01	KLOCKNER MOELLER	
	PB3	PUSHBUTTON GREEN	M22-D-G+M22-K10	KLOCKNER MOELLER	
-	Н1	INDICATOR LAMP WHITE	M22-L-W+M22-LED24-W	KLOCKNER MOELLER	
		COMPONENT LABEL	W/B/W TRAFFOLYTE	ISH	Dro .1003/4
_		WARNING LABEL [400V]	Y/B/Y TRAFFOLYTE	HEL	2
-		1 1	M22-XAK1	KLOCKNER MOELLER	
A AND AND PARTY OF THE PARTY OF	The state of the s	TO CONTRACT THE PROPERTY OF TH		HARRICALIST - ATTACA AMARAGAM AMARAGAN - Milandono - redecember peneriores re	emperativo (Albanderia de Arte
12.20E	ISSUE	L PARTS	LISTS - ELECTRICAL STARTER PANEL	MRAWN T.ESTONES	
		PADDLE / DRUM MI WINGET Ltd	MIXER RP100XD MK2	DMTE 24/1071/14	
	-	HURWICH ELECTRONIC LABORATORIES	TO BANKFIELD	TON	J003/PL1
	The second secon	270 900 000	405	U.S. C.	1836. 01

Motoranschluss

für Drehstrommotoren Elektrischer Anschluss

Motor connection

for A. C. motors Electrical connection





Seite 1 von 2 STÖBER ANTRIEBSTECHNIK

Kieselbronner Straße 12 . 75177 Pforzheim

1BD1 (3)-

1BD2

Bild 9

1BA1 V_{AC} 1BA2

-> Bild 11

Postfach 910103 • 75091 Pforzheim
Phone +49 (0) 7231 582-0 • Fax +49 (0) 7231 582-1000
eMail: mail@stoeber.de • Internet: http://www.stoeber.de

Bild 8

D



Schaltbild Drehstrommotor / Connection diagrammThree-Phase A.C. motor

Motor motor VDE 0530 / DIN EN 60034

Ausführung design	Δ	Υ
Betrieb running	-> Bild 1	-> Bild 2
Anlauf starting	direkt direct	direkt direct
	Y-∆-> Bild 3	

Anmerkung / Note

Bild 2

- Drehrichtungsänderung durch Vertauschen von 2 Zuleitungen -for reversing the sense of rotation change two supply lines - Schaltungsart und Anschluss

spannung siehe Leistungsschild - connection and supply voltage see rating plate







TEMPERATURWÄCHTER*) THERMAL PROTECTOR *)

->Kaltleiter (=>KALTL.) PTC-resistor ->Bimmetallschalter (=> BIMET) bimetallic switch

siehe Leistungsschild see rating-plate

Bild 4

Bild 5

DREHSTROMFREMDBELÜFTUNG *) / THREE PHASE A.C. SEPARATE VENTILATION *) siehe Abschnitt "Motor" see paragraph "moto

Einphasenfremdbelüftung in Steinmetzschaltung mit Betriebskondensator C_B *) -> Bild 5 single-phase separate ventilation according to "Steinmetz" with capacitor Co *) > Bild 5



Einphasenfremdbelüftung mit Betriebskondensator C_B *) >Bild6 single-phase separate ventilation with capacitor C_B *) -> Bild6



Bild 7

Einphasenfremdbelüftung *) -> Bild 7 single-phase separate ventilation *) -> Bild 7

INKREMENTALGEBER *) INCREMENTAL ENCODER *)

Typ**) type ITD 40 A4; ITD 61 A4; DG 60 B; DG60 BS Stiftbelegung in Anschlussdose pin assignment in the socket

Signal <i>signal</i>	Stift pin	Signal signal	Stift pin
А	5	A invertiert / inverted	6
В	8	B invertiert / inverted	1
N	3	N invertiert / inverted	4
+ UB **)	12	± OV	10/11
+ U sensor	2		

Ab 05/2006 wird PIN 9 nicht mehr im Geber kontaktiert. Since 05/2006 PIN 9 has not anymore contact with the encoder

BREMSE *) BRAKE*)

ohne Gleichrichter without rectifier -> Bild 8 Anschlussspannung V_{DC} siehe Leistungsschild

supply voltage V_{DC} see rating-plate -> mit Gleichrichter und externer Versorgung Vac -> Bild 9

with rectifier and external power supply V_{AC} -> Bild 9 Anschlussspannung V_{AC} siehe Leistungsschild supply voltage VAC see rating-plate

Wechselstromseitiges Schalten (mit Brücke B) A.C. -side connection (with jumper B)

Gleichstromseitiges Schalten (schnelles Einfallen der

Bremse)

D.C.-side connection (rapid break in of brake) Brücke B in --> Bild 9 entfernen und durch Schaltkontakt ersetzen und zusätzlich wechselstromseitig schalten

remove jumper B in --> Bild 9 and connect with a switch and switch A.C.- side connections additionally

-> mit Gleichrichter und externer Versorgung Vac von den Motorklemmen

with rectifier power supply V_{AC} directly from motor terminals Die beigelegten Verbindungsbrücken gemäß -> Bild 10 bzw. -> Bild 11 einbauen installation of the enclosed studs according to -> Bild 10 respectively to -> Bild 11

Achtung / take care: Für die Anschlussspannung der Bremse (V_{AC}) gemäß Leistungsschild und Netzspannung (UL) gilt:

for power supply of brake (VAC) according to rating plate and main voltage (U,);

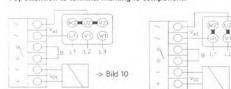


Anschließen der Bremse an Motorklemmen nur möglich, wenn Spannungen übereinstimmen

If the voltages differ , the connection of the brake to the motor terminals is not

Nur bei Direktanlauf am Netz zulässig. Only permissible if direct online starting.

-> mit Powerbox-Gleichrichter with power rectifier Anschlussspannung 220-277 V_{AC} / Supply voltage 220-277 V_{AC} Spulenspannung 115 (oder 127) V_{DC} /Coil voltage 115 (oder 127) V_{DC} Achtung: Anschlussbezeichnung auf Bauteil beachten! Pay attention to terminal marking fo component!



Andere Ausführungen oder andere Anbauteile, falls vorhanden, siehe separates Schaltbild other designs or other attachements, in case of existence, see separate connection diegrams ") falls vorhanden in case of existence **) siehe Leistungsschild see rating-plate

Motoranschluss darf nur unter Beachtung und Einhaltung der beilliegenden Sicherheitshinweise erfolgen. Anschlussbezeichnung beachten! Motorconnection may only occur, if the enclosed general safety instructions will be observed and kept. Pay attention to terminal marking!

Multiturn Absolutwertgeber / Multiturn absolute encoder

Signal/Versorgung signal/supply	Aderfarbe color of wire	Kontakt / contact 12pol
0V (UN)	weißgrün / white-green	10
+V (UP)	braungrün / brown-green	12
Daten	grau / grey	6
Daten	rosa / pink	5
Takt	violett / violet	1
Takt	gelb / yellow	8
frei		2, 3, 4, 7, 9, 11
frei	rot, schwarz, grün, blau, weiß, braun / red, black, green, blue, white, brown	

ACHTUNG!

Anschlussfehler können zu Beschädigungen der Komponenten führen. Im Zweifelsfall nach Anschlussbilder der STÖBER-Antriebe anschließen oder unsere Verkaufsbüros konsultieren. Bitte beachten Sie die Sicherheitshinweise, Impr.-Nr. 441598! Attention!

Connection mistakes may cause damages for the components. In case of doubt, please connect in reference of the wiring-pictures of the STÖBER drives or please contact our sales office. Please observe the safety regulations No. 441598!

Motoranschluss

für Drehstrommotoren Elektrischer Anschluss polumschaltbar

Motor connection

for A. C. motors Electrical connection pole-changing



Bild 9

Bild 10

V_{AC} 18A2

0



Seite 2 von 2 STÖBER ANTRIEBSTECHNIK

Kieselbronner Straße 12 • 75177 Pforzheim Postfach 910103 • 75091 Pforzheim Phone +49 (0) 7231 582-0 • Fax +49 (0) 7231 582-1000 eMail: mail@stoeber.de • Internet; http://www.stoeber.de





Schaltbild für polumschaltbaren Drehstrommotor mit 2 Drehzahlen Connection diagramm for pole-changing motor with 2 speeds

Motor / motor VDE 0530 / DIN EN 60034 Getrennte Wicklungen, Schaltung Y / Y (siehe Leistungsschild) 2 separate windings, connection Y/Y (see rating-plate) - niedrige Drehzahl / low speed -> Bild 1 - hohe Drehzahl / high speed -> Bild 2

Dahlanderwicklung, Schaltung A/YY oder Y/YY (siehe Leistungschild) Dahlander winding, connection A/YY or Y/YY (see rating-plate)









Bild 1

Bild 2

Bild 3

Bild 4

- -> mit 6 Anschlussklemmen (direktes Einschalten) with 6 connection terminals (direct online starting)
- ohne Polumschalter (Schaltung am Klemmbrett)
 without pole-changing switch (terminal board connection)
 niedere Drehzahl / low speed -> Bild 1 Schaltung A / connection A hohe Drehzahl / high speed
- Schaltung YY /connection YY

 mit Polumschalter / with pole changing switch -> Bild 4

 mit 9 Anschlussklemmen / with 9 connection terminals $(Y-\Delta-Anlauf$ in niedriger Drehzahl ist nur bei Δ/YY möglich) $(Y-\Delta-starting$ in the lower speed is possible, only if Δ/YY)
- ohne Anlasspolumschalter (Schaltung am Klemmbrett) without pole-changing starting switch (terminal board connection) Anlauf niedere Drehzahl starting low speed -> Bild 5 Betrieb niedere Drehzahl running low speed -> Bild 6
 Betrieb hohe Drehzahl running high speed -> Bild 7
- mit Anlasspolumschalter with pole-changing starting switch -> Bild 8









Bild 8

INKREMENTALGEBER *) INCREMENTAL ENCODER *) Typ**) type ITD 40 A4; ITD 61 A4; DG 60 B; DG60 BS Stiftbelegung in Anschlussdose pin assignment in the socket

Signal signal	Stift pin	Signal signal	Stift pir
А	5	A invertiert / inverted	6
В	8	B invertiert / inverted	1
N	3	N invertiert / inverted	4
+ UB **)	12	± 0V	10/11
+ U sensor	2		

Ab 05/2006 wird PIN 9 nicht mehr im Geber kontaktiert. Since 05/2006 PIN 9 has not anymore contact with the encoder

BREMSE *) BRAKE *)

- -> ohne Gleichrichter without rectifier Bild 9 Anschlussspannung V_{DC} siehe Leistungsschild supply voltage V_{PP} see rating-plate
- -> mit Gleichrichter und externer Versorgung Vac with rectifier and external power supply VAC Anschlussspannung Vxc siehe Leistungsschild supply voltage V_{AC} see rating-plate
- Wechselstromseitiges Schalten (mit Brücke B) A.C. -side connection (with jumper B)
- Gleichstromseitiges Schalten (schnelles Einfallen der Bremse) D.C.-side connection trapid break in of brakel

Brücke B in -> Bild 10 entfernen und durch Schalt-kontakt ersetzen und zusätzlich wechselstromseitig schalten remove jumper B in --> Bild 10 and connect with a switch

and switch A.C.- side connections additionally

--> mit Powerbox-Gleichrichter with Powerbox-rectifier Anschlussspannung 220-277 Vac Spulenspannung 115 (oder 127) Vac Supply voltage 220-277 Vac Coil voltage 115 (or 127) Vac

Achtung: Anschlussbezeichnung auf Bauteil beachten! Pay attention to terminal marking of component!

DREHSTROMFREMDBELÜFTUNG *) THREE PHASE A.C. SEPARATE VENTILATION *)

Ausführung	Δ	Y
Betrieb running	> Bild 11	-> Bild 12

Einphasenfremdbelüftung in

Steinmetzschaltung mit Betriebskondensator C_B *) -> Bild 13 single-phase separate ventilation according to "Steinmetz" with capacitor Cn *) --> Bild 13

Einphasenfremdbelüftung mit Betriebskondensator C_B *) -> Bild 14 single-phase separate ventilation with capacitor Co *) --> Bild 14











Bild 11

Bild 12

Bild 14

Bild 16

TEMPERATURWÄCHTER *) THERMAL PROTECTOR *)->Bild 16

- -> Kaltleiter (KALTL.) PTC-resitor
 -> Bimetallschalter (BIMET.) bimetallic switch siehe Leistungsschild see rating-plate

Andere Ausführungen oder andere Anbauteile, falls vorhanden, siehe separates Schaltbild. Other designs or other attachments, in case of existence, see separate connection diagramm *) falls vorhanden in case of existence **) siehe Leistungschild see rating-plate

Motoranschluss darf nur unter Beachtung und Einhaltung der beiliegenden Sicherheitshinweise erfolgen. Anschlussbezeichnung beachten!
Motor connection may only occur, if the enclosed general safety instructions will be observed and kept. Pay attention to terminal marking!

Multiturn Absolutwertgeber / Multiturn absolute encoder

Signal/Versorgung signal/supply	Aderfarbe color of wire	Kontakt / contact 12pol
0V (UN)	weißgrün / white-green	10
+V (UP)	braungrün / brown-green	12
Daten	grau / grey	6
Daten	rosa / pink	5
Takt	violett / violet	1
Takt	gelb / yellow	8
frei		2, 3, 4, 7, 9, 11
frei	rot, schwarz, grün, blau, weiß, braun / red, black, green, blue, white, brown	

ACHTUNG!

Anschlussfehler können zu Beschädigungen der Komponenten führen. Im Zweifelsfall nach Anschlussbilder der STÖBER-Antriebe anschließen oder unsere Verkaufsbüros konsultieren. Bitte beachten Sie die Sicherheitshinweise, Impr.-Nr. 441598!

Attention! Connection mistakes may cause damages for the components. In case of doubt, please connect in reference of the wiring-pictures of the STÖBÉR drives or please contact our sales office. Please observe the safety regulations No. 441598!

Ersatzteilliste

Spare Parts List

für Stirnradgetriebe - Fußausführung

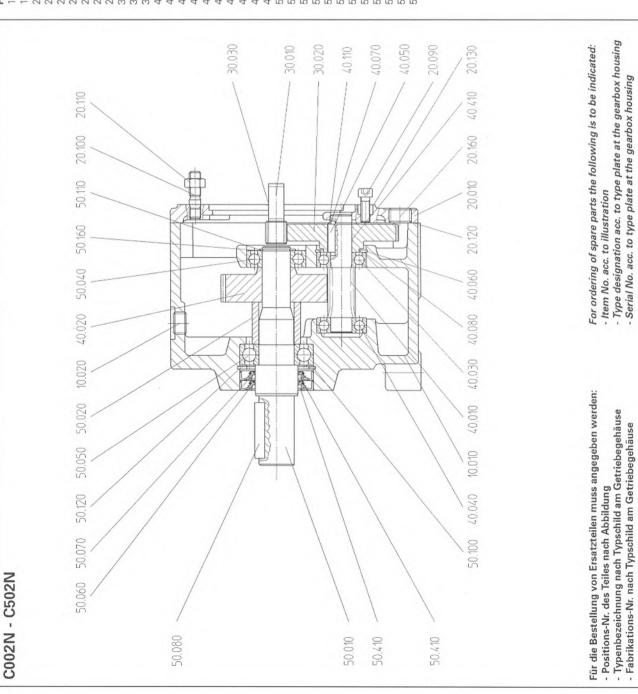
for helical gear units foot mounting Nr.: 440813.02

Seite 1 von 2 STÖBER ANTRIEBSTECHNIK

Kieselbronner Straße 12 • 75177 Pforzheim Postfach 910103 • 75091 Pforzheim Phone +49 (0) 7231 582-0 • Fax +49 (0) 7231 582-197 eMail: mail@stoeber.de • Internet: http://www.stoeber.de

STOBER

Dichtmasse (bei C0 Flachdichtung) Motoranschlussflansch /erschlussschraube /erschlussschraube Getriebegehäuse Zylinderschraube /orgelegewelle Rillenkugellager Rillenkugellager Rillenkugellager Rillenkugellager Wellendichtring Wellendichtring Sicherungsring Sicherungsring Sicherungsring Sicherungsring Distanzbuchse Flachdichtung Passscheibe Montagefett Stiftschraube Einsteckritzel Passscheibe Passscheibe Passscheibe Passfeder Passfeder Klebstoff Klebstoff Endwelle Zahnrad Zahnrad Mutter 20.090 20.100 20.110 20.120 20.130 20.160 30.010 30.020 30.030 40.010 40.110 40.020 40.030 40.040 40.050 40.060 50.010 50.040 50.060 50.070 50.080 50.100 50.110 50.120 50.160 50.410 40.070 40.080 50.020



Ersatzteilliste für Stirnradgetriebe - Fußausführung

Spare Parts List

for helical gear units foot mounting

Nr.: 440813.02

Seite 2 von 2
STÖBER ANTRIEBSTECHNIK

Kieselbronner Straße 12 • 75177 Pforzheim Postfach 910103 • 75091 Pforzheim Phone +49 (0) 7231 582-0 • Fax +49 (0) 7231 582-197 eMail: mail@stoeber.de • Internet: http://www.stoeber.de

Description Gearbox housing Screw plug Motor connection flange Cheese-head screw Locking screw stud Nut Sealing compound CO with flat aasket)		Spacer sleeve Deep-grooved ball bearing Deep-grooved ball bearing Oil seal Oil seal Circlip Circlip Shim Shim
Item No. 10.010 10.020 20.010 20.090 20.100 20.110	20.130 20.160 30.010 30.020 40.010 40.030 40.050 40.050 40.050 40.050 40.070 40.070 40.070 50.010	50.020 50.040 50.050 50.050 50.070 50.100 50.120 50.160

OPERATING

AND

MAINTENANCE MANUAL

SECTION 7 MISCELLANEOUS

7.1 NOISE DETAILS

Measured in accordance with Article V of Directive 2000/14/EC Noise Emission in the Environment by Equipment for Use Outdoors the noise levels should not exceed 105Lwa