DFG700-1 Diamond Floor Grinder Operating Manual

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This manual provides the basic information required and is only to be used as a guideline.

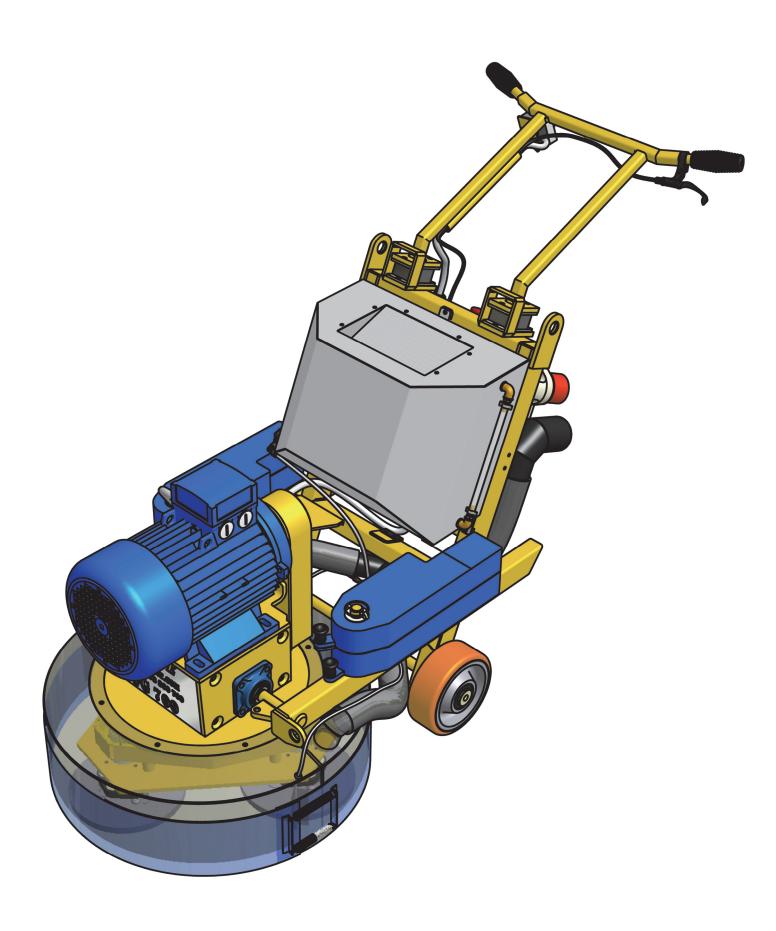
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DFG700 Triple Head Diamond Floor Grinder

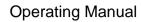
OPERATING MANUAL

This manual covers to the best of our knowledge the operation and maintenance of the **DFG 700 - 1** diamond floor grinder. Before operation of the equipment the manual should be read and understood by the operator. The safety regulations must be followed at all times. Service of electrical components should be carried out by authorised personnel.

WARNING

Failure to follow these instructions may result in serious personal injury or death. SPE disclaims all responsibility for damage to persons or objects arising as a consequence of incorrect handling of the machine and failure to inspect the machine for damage or other faults that may influence the operation prior to starting work.







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Operating Manual

STARTING WORK

- 1. BEFORE STARTING WORK ENSURE THAT THE GRINDING HEADS HAVE BEEN FITTED, SEE PAGE 2
- 2. Ensure the power supply is correct.DFG 700-1 This should be a 380/415v 32 amp supply from the mains or generated with a minimum of 20 kva on 50 cycles. The plug on the DFG700 machine is a 380/415v 32 amp 5 pin red plug.
- 3. Connect a vacuum hose or a water supply to control the dust. WARNING DO NOT ALLOW WATER TO MAKE CONTACT WITH ANY ELECTRICAL COMPONENTS.
- 4. Select the number of pivotal weights required for the process and position forward over the grinding head, ensuring the locking pins are secured.
- 5. After connecting the machine to the power supply turn the red isolator switch to the ON position. The red light will illuminate on the electric panel. Note: the DFG700 is fitted with an automatic phase correction system. This ensures the operator does not need to worry about the power supply being phased to suit the machine.
- 6. Turn the speed control knob on top of the electrical panel to between 1-2 speed setting.
- 7. Press the green button on top of the electrical panel. The green light will illuminate and the inverter is now powered up.
- 8. Turn on the vacuum or water supply.
- 9. Pull the dead man handle in, on the left handle bar, and press the green button on the right handle bar. The machine will now start to grind the floor.
- 10. To increase the grinding speed, turn the speed control knob on top of the electrical panel to the next level. With experience the operator will be able to feel the correct speed setting for the grinding process.
- 11. To stop the machine, release the dead man handle on the left handle bar.

Please note that if the isolator switch or red stop button is turned off, then immediately back on again, the inverter will not start with the green button on top of the panel for 3 minutes.



Operating Manual

FITTING GRINDING PLATES

- 1. Disconnect from the power supply.
- 2. Tip the DFG700 backwards on to its support bars. The machine must be secured and supported.

METAL GRINDING TOOLS

- 1. Fit the required metal tools to the 6451 drive plate and ensure M6 allen screws are securely tightened.
- 2. Place the drive plate onto the DFG700 machine and turn anti-clockwise into the locked position.
- 3. Fit the other two drive plates as above.
- 4. Lower the machine back onto the floor surface.

RESIN GRINDING TOOLS

- 1. Fit the required resin tool to the 6450. They fit on with a velcro system.
- 2. Place the drive plate onto the DFG700 machine and turn anti-clockwise into the locked position.
- 3. Fit the other two drive plates as above.
- 4. Lower the machine back onto the floor surface

DIAMOND GRINDING PLATES

It is possible to use the conventional DFG bolt on diamond plates with the DFG700. To fit this type of plate the 3no standard coupling plate part number 7337B, bolted to the flexible coupling must be removed and replaced with 3no 5064A adaptor plates.

- 1. Fit the diamond plate to the adaptor plate (5064A).
- 2. Ensure the grinding plate is seated to the adaptor plate correctly prior to inserting and tightening the 4no counter sunk screws diagonally to a maximum torque of 75NM.
- 3. Fit the other two grinding plates as above.
- 4. Lower the machine back onto the floor surface.

WET GRINDING/POLISHING

The DFG700 accessories can be used wet or dry however should water be required fill water tank to required level. Open the tap beneath the tank and water will be fed on to the grinding heads.

NOTE – ALWAYS USE THE SAME TYPE AND BOND OF TOOL ON EACH OF THE THREE HEADS. EQUALLY WORN TOOLS MUST BE FITTED AS A SET.

TO ENSURE THE CORRECT TOOL IS BEING USED CHECK WEAR RATES AFTER QUARTER OF AN HOUR AND AGAIN AT HALF HOURLY INTERVALS, THIS WILL GIVE AN INDICATION OF TOTAL WEAR RATES AND COST PER M



Operating Manual

MAINTENANCE

AFTER USE:

- Clean the machine to remove all build up of dust and surface residue. If using a hose pipe or
 pressure washer take care that water is not directed onto electrical components and switches.
 (Note: Motors and switches are not waterproof)
 Clean the filter at the bottom of the electric panel. Remove and blow out any dust. Replace
 with a new filter if damaged. See Fig 1
- The drive belts will give a long and trouble free operating life if basic procedures are followed. To inspect remove the belt guard. The drive belts are tensioned by sliding the tension pulley along the adjusting slot allowing 10mm belt deflection. See Fig 2. It is important that the drive belts are not over tensioned. Serious damage could be caused to the drive shaft, drive shaft bearings and drive motor if the belts are excessively tight.
- Periodically check the oil level in the drive gearbox (part no 7309) either through the sight level gauge or level plug depending on the model. See Fig 3. If oil comes out the inspection hole when level plug is removed the gearbox contains sufficient oil. If oil level is low top up to just above the main gear by removing the gearbox oil filler plug. See Fig 4. Access to the oil filler plug is gained by removing the drive motor and motor mount plate. If any oil is required, use an 'SY320' grade gear oil.



Fig 1 - Electric Panel Filter



Fig 2 - Belt Tension Pulley



Fig 3 - Oil Level Plug or Level Gauge site



Fig 4 – Gearbox Oil Filler Plug

The planetary gear case is sealed and should not require any maintenance. The internal gears are lubricated with lithium EPO grease.

- All components should be checked daily for tightness and the drive belts for tension weekly.
- The flexible drive couplings that support the grinding heads should be checked on a weekly basis, the couplings should be firm without excessive movement.
- Any excess vibration due to uneven plate wear should result in the grinding plates being changed to eliminate damage to couplings and bearing assembly support units.



Operating Manual

SAFETY

Only trained operatives should be allowed to work the **DFG700** range of floor grinders.

Note: It is possible that the noise level produced by the Diamond Floor Grinder could exceed 90dbA. Appropriate PPE must be worn and the equipment must be used in line with guidelines laid down by the Health & Safety Executive.

Always ensure that all power leads and hoses are disconnected before attempting to service the machine. Never tip the machine backwards until the grinding plates have stopped rotating and the machine has been isolated at the main supply.

Noise and vibration will occur at various levels dependent on the grinding attachments and work being completed. It is recommended that tests are taken on site to provide the operator with accurate information on using the equipment within the guidelines laid down by the Health & Safety Executive.

NOTE:

- 1. NEVER OPERATE THE DFG700 FLOOR GRINDER WITHOUT THE BELT GUARDS FITTED
- 2. NEVER OPERATE THE DFG700 FLOOR GRINDER OUTDOORS IN WET CONDITIONS AS THE ELECTRICAL COMPONENTS ARE NOT WATERPROOF
- 3. NEVER OPERATE THE DFG700 WITH THE HEADS RAISED FROM THE FLOOR



	Part No	Description	Application
000	6450	Resin Tool Drive Plate	Quick release drive plate with Velcro for the fitment of resin tools. Can be used wet or dry.
	6460	Combination Resin / Metal Tool 80 Grit Orange	Mixed bond ensures a very fine scratch profile for use after metal bond or directly onto power floated concrete leaves perfect surface for thin film coatings or polishing with a minimum number of stages. Can be used wet or dry.
	6461	Resin Tool 100 Grit Black	For the first stage of resin polishing leaves a matt finish. Can be used wet or dry.
	6462	Resin Tool 200 Grit Blue	For the second stage of resin polishing leaves a closed matt finish. Can be used wet or dry.
	6463	Resin Tool 400 Grit Red	For the third stage of resin polishing leaves a honed silk finish. Can be used wet or dry
	6464	Resin Tool 800 Grit White	For the forth stage of resin polishing leaves a light reflective finish suitable for most industrial and commercial applications. Can be used wet or dry



	Part No	Description	Application
	6465	Resin Tool 1500 Grit Yellow	For the final stage of resin polishing leaves a clear reflective shine ideal for decorative surfaces. Can be used wet or dry.
	6451	Metal Tool Drive Plate	Quick release drive plate for the bolt on fitment of metal tools. Can be used wet or dry.
3£081	6470	Metal Tool 16 Grit Hard Bond	For initial smoothing of rough surfaces, coating and adhesive removal from soft concrete. Can be used wet or dry.
SFLA0 86080	6471	Metal Tool 120 Grit Hard Bond	First Stage Tool for grinding / polishing soft concrete. Can be used wet or dry.
AE081	6472	Metal Tool 80 Grit Hard Bond	Second Stage Tool for grinding / polishing soft concrete. Can be used wet or dry.
SFL 150	6473	Metal Tool 120 Grit Hard Bond	Third Stage Tool for grinding / polishing soft concrete. Can be used wet or dry.



	Part No	Description	Application
NFL 16	6474	Metal Tool 16 Grit Medium Bond	For initial smoothing of rough surfaces, coating and adhesive removal. Can be used wet or dry.
MF L 30	6475	Metal Tool 30 Grit Medium Bond	First Stage Tool for grinding / polishing concrete and seamless terrazzo. Can be used wet or dry.
NF 20 38501	6476	Metal Tool 80 Grit Medium Bond	Second Stage Tool for grinding / polishing concrete and seamless terrazzo. Can be used wet or dry.
VFL 120 38502	6477	Metal Tool 120 Grit Medium Bond	Third Stage Tool for grinding / polishing concrete and seamless terrazzo. Can be used wet or dry.
HF L 1	6478	Metal Tool 16 Grit Soft Bond	For initial smoothing of hard rough surfaces, coating and adhesive removal from hard dense concrete. Can be used wet or dry.
HFL30 88667	6479	Metal Tool 30 Grit Soft Bond	First Stage Tool for grinding / polishing hard dense concrete. Can be used wet or dry.



	Part No	Description	Application
HFLSC SSGGS	6480	Metal Tool 80 Grit Soft Bond	Second Stage Tool for grinding / polishing hard dense concrete. Can be used wet or dry.
95 59 S 59	6481	Metal Tool 120 Grit Soft Bond	Third Stage Tool for grinding / polishing hard dense concrete. Can be used wet or dry.
	6486	Green PCD Tool 1 Segment Anti-clockwise	For the rapid removal of adhesive, coatings and failed latex from a hard substrate.
	6488	Green PCD Tool 2 Segment Anti-clockwise	For the rapid removal of adhesive, coatings and failed latex from a hard substrate.
	6498	Blue PCD Tool 1 Segment Clockwise	For the rapid removal of adhesive, coatings and failed latex from a hard substrate.
	6499	Blue PCD Tool 2 Segment Clockwise	For the rapid removal of adhesive, coatings and failed latex from a hard substrate.



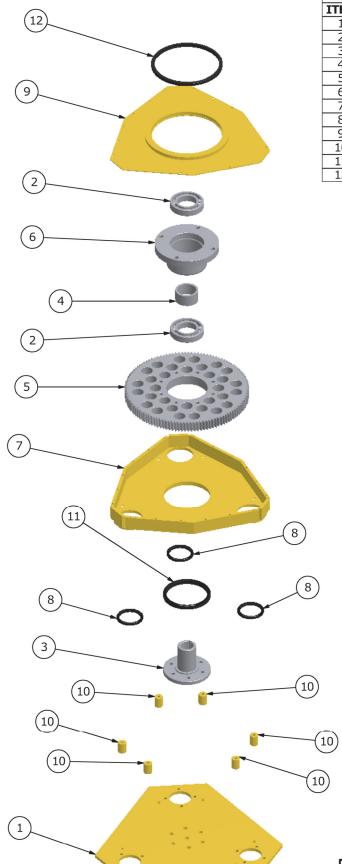
Part No	Description	Application
5064A	DFG700 250mm Adapter Plate	Allows conventional 250mm segmented diamond grinding plates to be fitted.
6401	10 Segment Blue, 250mm Diamond Plate	10 Segments, 10mm segment depth. Economical grinding of concrete and adhesive. Can be used wet or dry.
6402	10 Segment Red, 250mm Diamond Plate	10 Segments, 10mm segment depth. Removal of coatings and S/L. Coarse diamond grit. Can be used wet or dry.
6403	16 Segment Blue, 250mm Diamond Plate	16 Segments, 10m segment depth. Grinding of concrete in preparation for following on coatings. Excellent cost per square metre. Can be used wet or dry.
6403A	16 Segment Black, 250mm Diamond Plate	16 Segments, 10mm segment depth. Hard bond for softer surfaces. Grinding of concrete in preparation for following on coatings. Excellent cost per square metre. Can be used wet or dry.
6403B	16 Segment Grey, 250mm Diamond Plate	16 Segments, 10mm segment depth. Soft bond for hard surfaces. Grinding of concrete in preparation for following on coatings. Excellent cost per square metre. Can be used wet or dry.



Part No	Description	Application
6403C	16 Segment Purple, 250mm Diamond Plate	16 Segments, 10mm segment depth. Soft bond for hard surfaces. Second stage grinding of terrazzo and decorative concrete. Leaves a smooth flat finish.
6403Y	16 Segment Yellow, 250mm Diamond Plate	16 Segments, 10mm segment depth. Economical grinding of concrete in preparation for following on coatings. Excellent cost per square metre. Can be used wet or dry
6404	20 Segment Blue, 250mm Premium Diamond Plate	20 Segments, 10mm segment depth. Premium plate for concrete grinding, paint removal, 1st stage grinding of resin based terrazzo. Can be used wet or dry.
6405	16 Segment Button Head, 250mm Premium Diamond Plate	For the removal of thicker adhesive, on sand / cement screed whether open or closed. Will cope with large volume areas in a cost effective manner. To be used with softer elastomeric and thin film coatings







	Parts List						
ITEM	QTY	SPE PART NUMBER	DESCRIPTION				
1	1	7357B	Carrier Plate- [gear]				
2	2	7341	Main Bearing				
3	1	7340B	Main Shaft Hub - [gear]				
4	1	7342B	Bearing Spacer Main Shaft - [gear]				
5	1	7427	Spur Gear - drive				
6	1	7343B	Driving Hub Flange - [gear]				
7	1	7421	Gear Guard Bottom				
8	3	7426	Lipped Seal (driven shaft)				
9	1	7423	Gear Guard Top				
10	6	7422	Gear Guard Pillar				
11	1	7424	Lipped Seal (main shaft-lower)				
12	1	7425	Lipped Seal (main shaft-upper)				

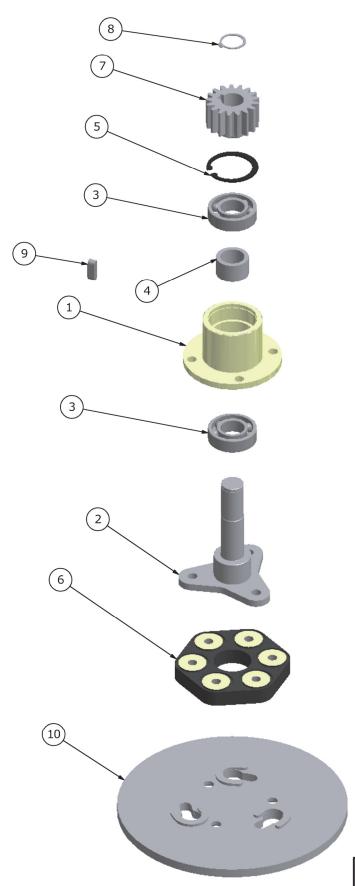
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Diawii	Head Drive Com	ibonents
D.G.A.		
Checked	Drawing No.	MACHINE
R.C.	DFG-700_HDr-21	DFG 700-1



	Parts List						
ITEM	QTY	SPE PART NUMBER	DESCRIPTION				
1	3	7334B	Bearing Housing - gear				
2	3	7335B	Drive Shaft - gear				
3	6	5058	Bearing				
4	3	7336	Bearing Spacer				
5	3	5059	Int. Circlip				
6	3	5226	Flexi Coupling				
7	3	7428	Spur Gear - driven				
8	3	7429	Ext. Circlip				
9	3	3065	8x25 Parallel Key				
10	3	7337B	Coupling Plate [ccw]				

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Drawn D.G.A.

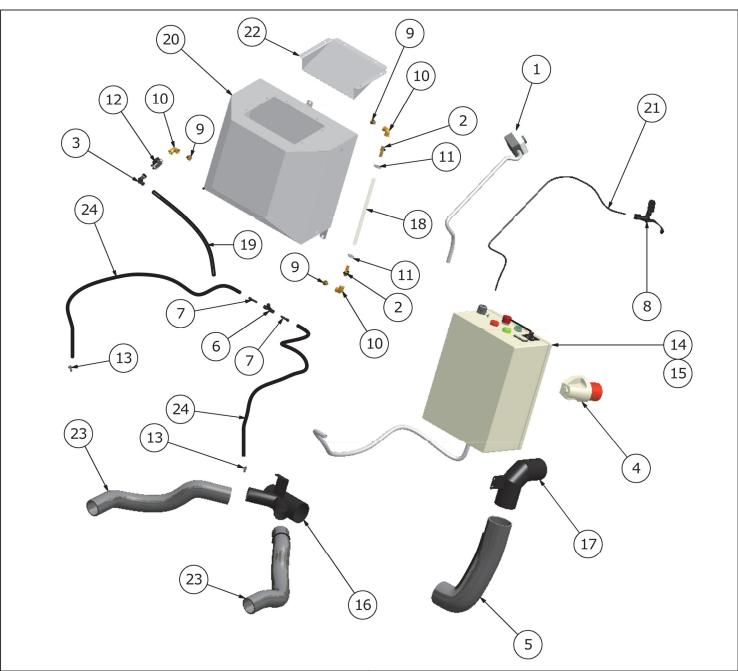
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R.C.

Drawn TITLE Grinding Head (3 per machine)

MACHINE

DFG-700_GrH-21 DFG 700-1



	Parts List					Parts List			
ITEM	QTY	SPE PART NUMBER	DESCRIPTION	ITEM	QTY	SPE PART NUMBER	DESCRIPTION		
1	1	5018	Switch	13	2	7370	Extended Grommet		
2	2	7358	1/4" Hose Tail	14	1	7400	Electrical Panel (400v)		
3	1	7359	1/4"x8mm Connector	15	1	7400A	Electrical Panel (440v)		
4	1	SP630	Surface Mounted Plug	16	1		Vac 'Y' Piece (50/75)		
5	1	7360	Vac Hose (75mm)	17	1		Vac Exhaust (75mm)		
6	1	7361	8mm Equal Tee	18	1		Level Tube		
7	2	7362	8x6mm Reducer	19	1		Flexi Pipe (8mm)		
8	1	7365	Dead Man Lever	20	1	7376	Water Tank		
9	3	7366	1/4" Reducing Bush	21	1	7371	Dead Man Cable		
10	3	7367	1/4" Elbow	22	1	7377	Tank Filler Plate		
11	2		"O" Clip	23	2	7363	Vac Hose (50mm)		
12	1	ADAPT 045	1/4" Ball Valve	24	2	7364	Flexi Pipe (6mm)		

<u>Note</u>

Tank Filler Plate (7377)

and

1/4" Reducing Bush (7366) are inside the water tank

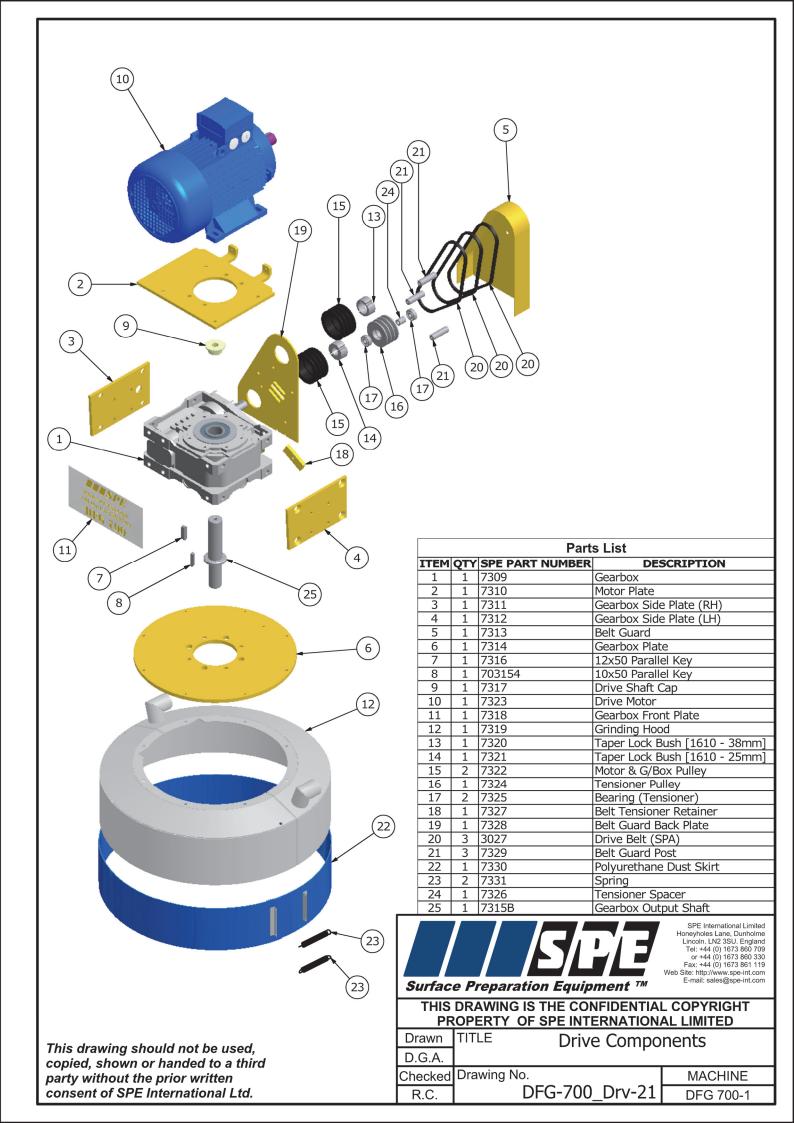
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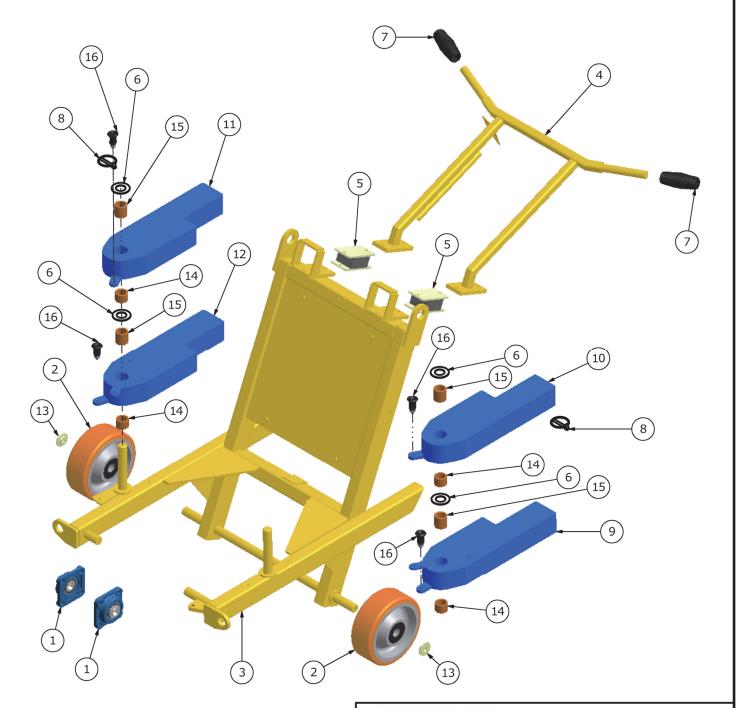
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Drawn	TITLE Utility Compo	nents
D.G.A.		
Checked	Drawing No.	MACHINE
R.C.	DFG-700 Utl-21	DFG 700-1



Parts List					Parts List		
ITEM	QTY	SPE PART NUMBER	DESCRIPTION	ITEM	QTY	SPE PART NUMBER	DESCRIPTION
1	2	6012	Flange Bearing	9	1	7302	Weight - Lower L/H
2	2	7306	Wheel	10	1	7303	Weight - Upper L/H
3	1	7300	Frame	11	1	7304	Weight - Upper R/H
4	1	7301	Handlebar	12	1	7305	Weight - Lower R/H
5	2	5017	Flexible Mounting	13	2	07035	Hub Cap
6	4	5098	Spacer	14	4	7307	Bush - Short
7	2	9104	Handlebar Grip	15	4	7308	Bush - Long
8	2	5029	Locking Pin	16	4	7379	Weight Lock Pin





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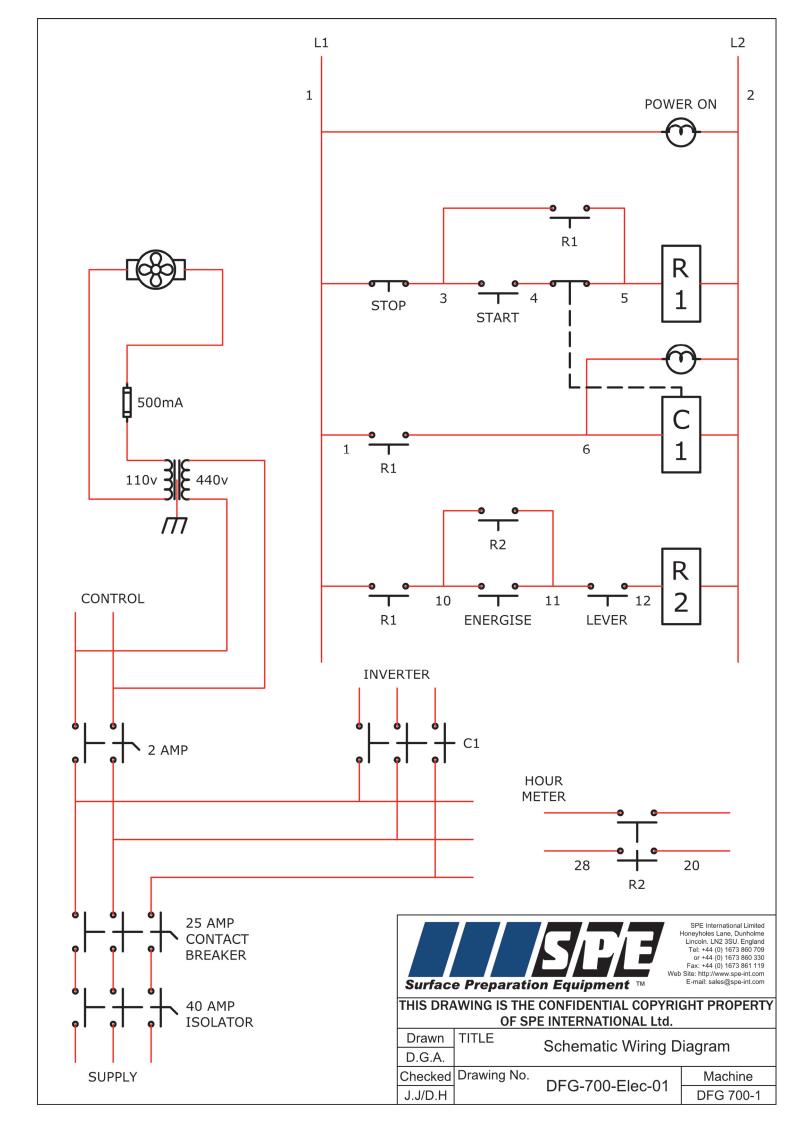
DFG 700-1

Surface Preparation Equipment ™

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Frame Components TITLE Drawn This drawing should not be used, copied, shown or handed to a third party without the prior written consent of SPE International Ltd. D.G.A. Checked Drawing No. **MACHINE** DFG-700_Frm-21

R.C.





Operating Manual

ELECTRIC PANEL COMPONENTS

QTY	DESCRIPTION	SPE PART NO.
1	Panel & Back Plate	SP83318
1	Frequency Inverter	7401
1	Mains Filter	7402
1	Panel Fan	7403
1	Panel Fan Filter	7404
1	Panel Fan Grille	7405
1	Panel Fan Lead	7406
1	Panel Fan Transformer	7407
1	Contactor (400v only)	SPLC1D25V7
2	Contactor (400v only)	SPLC1D09V7
1	Timer	SPLADR4
1	Limit Switch	SPZCKE05
1	Micro Switch-Body	SPZCKJ1H29
1	Micro Switch-Roller	SPZCKY11
1	Isolator 40 amp	SPVCCF2
1	Stop Button	SPZB4BS44
1	Start Button	SPZB4BA3
1	Start Switch	SPZB4BZ101
1	Stop Switch	SPZB4BZ102
1	Lens	SPZB4BV04
1	Lens	SPZB4BV03
2	Panel Lamp (400v only)	SPZB4BV5
1	Trip-3 Pole 25 amp	SP60HD325
1	Trip-2 Pole 2 amp	SP60HD202
1	Hour Run Meter	SPH7ET-N
1	Speed Con Knob Kit	11124
2	Gland	SPCG/LNM20
1	Gland	SPCG/LNM25
1	Bush Lock Nut	SP608-828
1	Compression Gland	SP542-188
1	Bush Lock Nut	SP608-828
2	Brass Bush 20mm Short	SP608-222
2	Bush Lock Nut	SP608-812
1	415v 32 amp 5 pin Surf Plug	SP630
1	Return Spring	7332
1	Cable Guide	7333
1	Contactor (440v USA only)	SPLC1D25R7
1	Contactor (440v USA only)	SPLC1D09R7
2	Panel Lamp (440v USA only)	SPZB4BV8



DFG700 - 1Operating Manual

SPECIFICATION SHEET

Type	DFG 700 Electric				
Part number	DFG700-1				
Power output	11 kw				
Voltage	380/415				
Cycles	50				
Head speed r.p.m.	180~400 variable				
Engine/motor speed r.p.m.	2800				
Machine dimensions (mm)					
Length	1570				
Width	680				
Height	1090				
Weight (kg)	292				



DFG700 - 1Operating Manual

WARRANTY

The standard warranty period of this equipment is **12 months** from the despatch date in accordance with the company Conditions of Sale (copy attached).

Warranty start date:	As despatch date
Model:	DFG 700-1
Serial no:	
Customer name:	
Customer Address:	
Manufacturer:	SPE International Ltd
	Honeyholes Lane
	Dunholme
	Lincoln
	LN2 3SU
	England
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Γ=	
Distributor:	



DFG700 - 1Operating Manual

DECLARATION OF CONFORMITY

WE SPE INTERNATIONAL LTD

OF Honeyholes Lane Dunholme Lincoln LN2 3SU

DECLARE that under our sole responsibility for the supply/manufacture of the product

(Description/name) DFG 700 Floor Grinder

(Model/type) **DFG 700 - 1**

to which this declaration relates is in conformity with the following standards and other normative documents following the provisions of Directive 2006/42/EC.

B fills:

Brian Jacklin – Technical Manager SPE INTERNATIONAL LTD



CONDITIONS OF SALE

DFG700 - 1Operating Manual

The quotation overleaf and any order placed following such quotation are subject to the following conditions of sale in which SPE International Limited is referred to as the "Company".

1. Validity of quotation

No order received from a customer by the Company shall constitute a contract until accepted in writing by the Company.

2. Prices

Prices quoted by the Company are firm for 30 days only or until previously withdrawn. Unless otherwise stated all prices are exclusive of any applicable Value Added Tax for which the customer shall be additionally liable to the Company.

3. Delivery

Delivery periods and dates are given in good faith but are not the subject of any warranty or condition and time shall not be of the essence of the contract in these respects. No liability will attach to the Company if delivery periods or dates are not met for any reason whatsoever.

4. Payment

Save as may otherwise be agreed in writing the customer shall pay the price in full on or before the estimated delivery date whereupon the Company shall raise a receipted invoice. Each invoice includes an Overdue Account Levy of 5% of the total invoice value inclusive of VAT. Subject to payment in full being made on or before the due date a sum equal to the Overdue Account Levy shall be credited to the customers account with the Company. Until such time as payment in full has been made the Company shall be under no obligation to allow or effect of any goods to the customer.

5. Warranty

The Company warrants that all goods supplied by it will correspond to their specifications and will be free from defects in materials or workmanship for a period of 12 months from the date of delivery. The Company's obligation in the event of a breach of this warranty is limited to the repair or replacement of any defective goods which shall be returned at the cost and expense of the customer to the Company. This warranty is given in lieu of all the other warranty or conditions expressed or implied (whether by statute or otherwise) and is subject to the following conditions:-

- **5.1** Claims must be notified in writing to the Company within seven days from the date of delivery or (where the defect is not apparent on reasonable inspection) as soon as practicable after discovery of the defect.
- **5.2** The Company shall be under no liability in respect of any defect in the goods arising from any drawing, design or specification supplied by the customer.
- **5.3** The Company shall be under no liability if the defect or failure in the reasonable opinion of the Company arises from wilful damage or misuse, negligence by the customer or any third party. Failure to follow the Company instructions, usage of non-recommended parts and materials, alteration or repair of the goods without the prior approval of the Company or non-recommended maintenance.
- 5.4 The Company shall be under no liability if the price for the goods has not been paid by the due date for payment.
- 5.5 The above warranty does not extend to:-
- **5.5.1** Parts, materials or equipment not manufactured by the company in respect of which the customer shall be entitled only to the benefit of any such warranty or guarantee as is given by the manufacturer to the Company.
- **5.5.2** Any component part of the goods or associated parts coming into contact with abrasive elements or dust within surface Preparation equipment.
- 5.5.3 Fair wear and tear of moving parts within the goods.
- **5.6** Except in the case of death or personal injury caused by the Company negligence, the Company shall not be liable for any consequential loss or damage (whether for loss of profit or otherwise) or other claims for consequential compensation.

6. Carriage

Packing, carriage and insurance charges in respect of delivery of the goods to the customer will be charged to the customer at cost to the company.

7. Damage in Transit

The company does not accept any liability for loss or damage to the goods while in transit to the customer.

8. Risk

The risk in the goods shall pass to the customer on delivery to the customer or (if earlier) when possession of the goods is taken by a carrier for delivery to the customer.

9. Force Majeure

The Company shall not be liable to the customer or be deemed to be in breach of any contract with the customer by reason of any delay in performing or any failure to perform any obligation of the Company obligation in relation to the goods if the delay or failure was due to force majeure or to any other cause beyond the Company's reasonable control.

10. Reservation of Title

The goods sold under these conditions shall remain the absolute property of the Company and legal title in the goods shall remain vested in the Company until payment in full of all amounts invoiced or due to the Company in respect of the goods. If the customer shall enter into liquidation have a winding up order made against it or have a Liquidator, receiver, administrator or administrator receiver shall be appointed over its assets, income or any part there of before the property in the goods has passed in accordance with this condition the Company shall be entitled immediately after giving notice of its intention to repossess any goods to enter upon the premises of the customer with such transport as may be necessary and to repossess any goods to which it has title under this condition. No liquidator, receiver, administrator or administrative receiver of the customer shall have authority to sell goods to which the Company has title without the prior written consent of the Company.

11 Insolvency of Customer

If the customer being a body corporate, shall pass a resolution or suffer an order of the Court to be made for winding – up, or if a Receiver, Administrator or Administrative Receiver shall be appointed or, being an individual or partnership, shall suspend payment, propose or enter into any composition or arrangement with his or their creditors, or have a bankruptcy order made against him or them, then the Company shall have the right, without prejudice to any other contract with the customer, not to proceed further with the contract and shall be entitled to charge for work already carried out (whether completed or not) and for goods and materials already purchased for the customer such charge to be an immediate debt due from the customer.

12. Patent Rights, etc

The acceptance of a quotation includes the recognition by the customer of the Company under any patents, trademarks, registered designs or other intellectual property rights relating to the goods and the customer undertakes that patent numbers, trademarks or other trade markings on goods supplied shall not be obliterated, altered or defaced.

13. Applicable Law

These conditions shall be governed by and construed in accordance with English law and parties acknowledge and accept the exclusive jurisdiction of the English Courts.