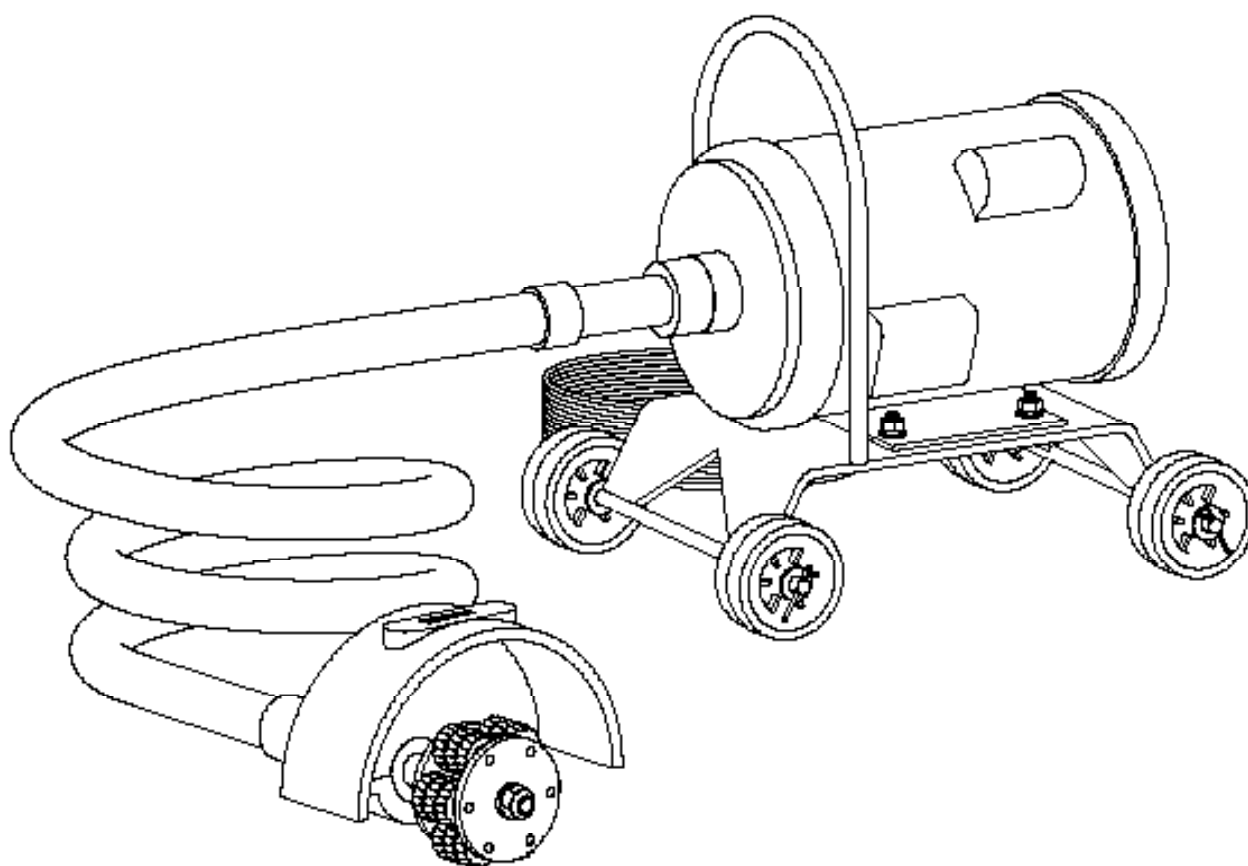




Operation and Maintenance Guide



TEFD75-110V & 220V

Models	Descriptions	IMPA Number
TEFD 75-110V	Electric Flexible Descaler TEFD75-110V	59 12 17
TEFD 75-220V	Electric Flexible Descaler TEFD75-220V	59 12 18

Read this manual carefully before installing, operating or servicing this equipment. It's the responsibility of the employer to ensure this manual is read by the operator. Please preserve this manual.

Table of Contents

3	Introduction
3	Technical Data
3	Operating Instructions
4	Disassembly and Re-assembly
5	Exploded View for TEFD75
6	Bill of Materials for TEFD75
8	Eu Declaration Of Conformity
9	Warranty Certificate

Introduction

Teryair Electric de-Scaling Machines are lightweight electric machines for continuous heavy duty use. An ideal unit for de-rusting and de-scaling jobs. They are portable and fitted with wheels. Can be used with a 110 volt or 220 volt AC power supply.

Technical Data

IMPA Number Equivalent	Model No	Voltage	H.P	KW	No Load Speed R.P.M	Weight, Kgs
59 12 17	TEFD75-11V	110V	0.75	0.55	2800	48
59 12 18	TEFD75-220V	220V	0.75	0.55	2850	48

Forward

At the outset we sincerely thank you for choosing our product. We at TERYAIR always believe in offering high quality products at the most reasonable prices. This belief has helped us to innovate and incorporate new ideas and thus enjoy a high degree of customer satisfaction.

This manual is designed keeping in mind all the requirements of the customer in knowing the product and its use. This product is almost maintenance free. Only the electric supply required to run the electric motor should be smooth

Operating Instructions

Place Electric Motor with trolley on floor. Open Hose assembly. On one of the ends - Of rotary socket has female threads. Screw on this socket on motor shaft. Tighten it fully. Then screw on fixing adaptor on motor end shield. With little force this will fit tight on motor. Then select which of these assemblies do you prefer to use.

Following is the guideline for selection

- For Heavy rusting - Use No.1 H.D.Tool (59 12 55)
- For Light rusting - Use either No.2 L.G.Brush (59 12 60)
- For wide rusting - Use Hammer Head (59 12 66) equipment.

After selecting proper assembly, screw it on to the another end of hose assembly. Also fit rubber guard over the flexible shaft (tool end) connect it with electric socket. Hold scaling device (selected assembly) in hand and switch on the button. Hold revolving part against the surface to be de-scaled. If the selection of assembly is properly done as per application, you will get the surface cleaned in very short time.

General Precautions

- 1) Ensure that the shaft is always driven in the correct direction i.e. Anti-clockwise as seen from front of the tool end.
- 2) Do not drag the unit with the help of flexible shaft.
- 3) Excessive force on the outer casing or on the inner shaft while disconnecting from Motor or tool end will damage the shaft. Avoid excessive force.
- 4) At least once in a month, remove the inner shaft and lubricate with graphite grease or multipurpose 3 grease to get the better life of the shaft.
- 5) Do not weld or braze the inner end fittings.
- 6) The stiffeners are provided at either ends of both outer casings to prevent excessive bending of the shaft at the ends. Do not apply excessive load on the stiffeners while Working.
- 7) On initial running after re-greasing or on fitment of new inner shaft. The inner shaft Will beat up heavily for few minutes before setting to run smoothly. Hence run it Without any assembly screwed on the tool end, till the initial vibration settles down And then screw on any selected assembly on the tool end.
- 8) Recommended minimum operating radius for the shaft is 500mm.
- 9) Incorrect method of starting the shaft, gives deformation to inner components. The Shaft should be stored straight in racks with proper flat support of wooden planks.

Contents

1. A tool Kit Containing : -
 - a) 2 Nos - Fixed Spanner 20/22
2. 1 No - Electric Motor mounted on trolley
3. 5 meter cable - 1 No. - 342 91 27
4. Rubberised shaft Assembly (342 9733)
5. Rubber Wheel Guard & Clamp (342 40 16)

6. Accessories : -

No.1 H.D.Tool (59 12 55)

No.2 L.G.Brush (59 12 60)

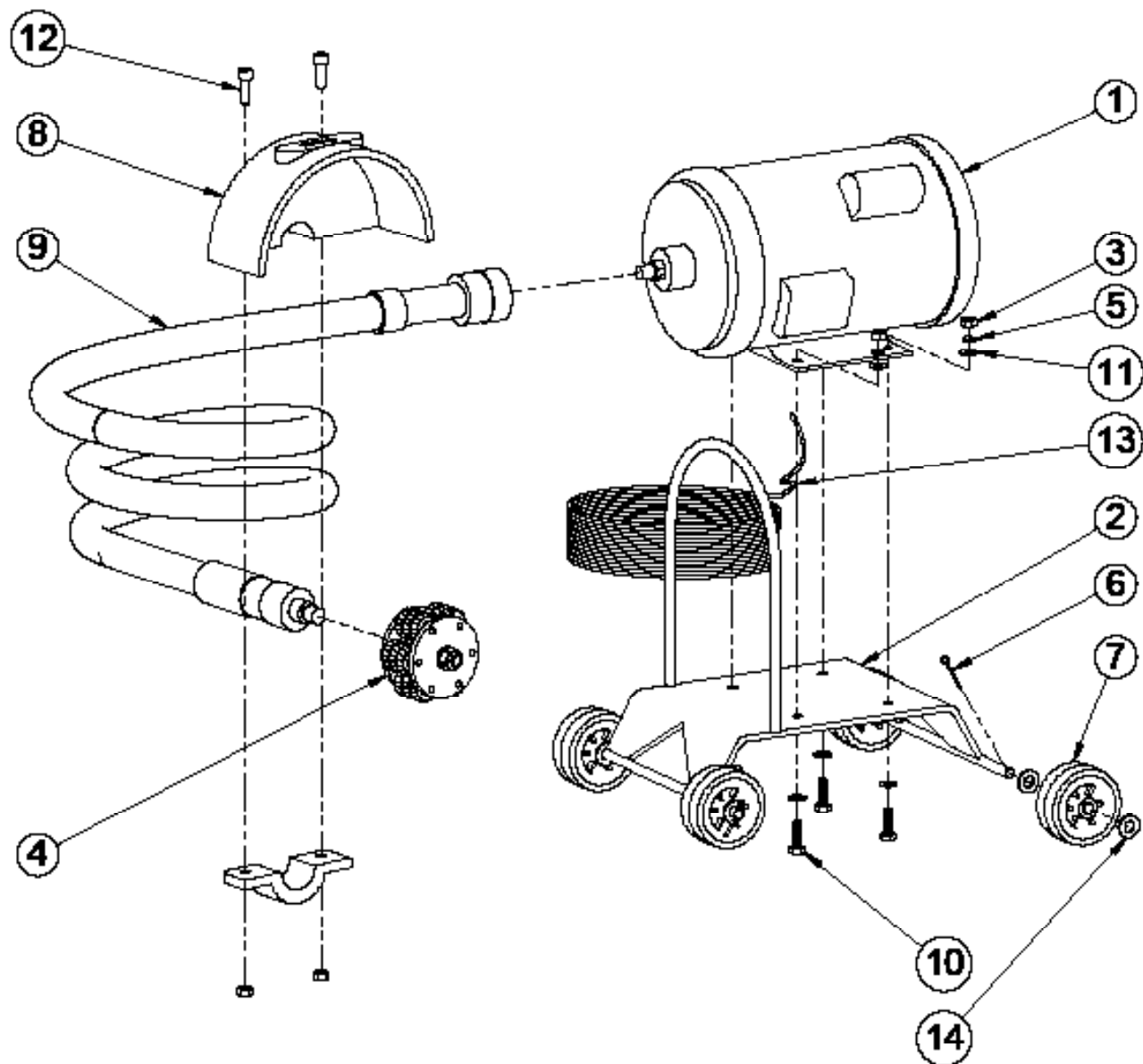
No.4 Hammer Head (59 12 66)

Wire Wheel Brush Complete (59 12 73 A)

Disassembly and Re-assembly

- a. Shut off air supply and water supply allow residual Pressure to bleed off.
- b. Unscrew Cutter set (4) from Shaft (9) and replace it with new ones. (If found damaged/worn-out)
- c. Remove Split pin (6), Plain washer (14), Wheel (7) & Plain washer (14) from Base plate (2) and replace it with new ones. (If found damaged/worn-out)
- d. Unscrew Hex Nut (3) with Spring washer (5) and Plain washer (11) from Hex bolt (10) to remove Motor (1) and replace it with new one. (If found damaged/worn-out)
- e. Unscrew Allen bolt (12) from Hex nut (3) to remove Wheel cover (8) from Shaft (9) and replace it with new one. (If found damaged/worn-out)
- f. Now follow the above steps in reverse manner to reassemble the TEFD-75.

Exploded View for TEFD75



Bill of Materials for TEFD75

Illustration Number	Part Number	Description	TEFD75 -110V	TEFD75-220V
1	3429141	MOTOR (110V)	1	-
1	3429115	MOTOR (220V)	-	1
2	3423225/A	BASE PLATE	1	1
3	0224021	HEX NUT	6	6
4	59.12.55	CUTTER SET	1	1
5	1999047	SPRING WASHER	4	4
6	23.24.80.1.2	SPIT PIN	4	4
7	3424023	WHEEL	4	4
8	3424016	WHEEL COVER	1	1
9	3429733	SHAFT	1	1
10	3429046	HEX BOLT	4	4
11	1719050	PLAIN WASHER	8	8
12	3429026	ALLEN BOLT	2	2
13	3429127	CABLE	5	5
14	2109036	PLAIN WASHER	8	8

Parts Required for Different Accessories



Part No	Qty	Description
No. 1 H.D. Tool 59 12 55 Consists of		
59 12 56	18	Cutter # 1:1
59 12 57	6	Disc Pin # 1:2
59 12 58	1	1-3 Centre Bolt with Nut & Washer
59 12 59	2	Disc # 2:4



Part No	Qty	Description
No. 2 L.G. Brush 59 12 60 Consists of		
59 12 61	72	L.G. Blade # 2:1
59 12 62	6	Disc Pin # 2:2
59 12 63	1	2-3 Centre Bolt with Nut & Washer
59 12 64	2	Disc # 2:4



Part No	Qty	Description
No. 4 Hammer Head 59 12 66 Consists of		
59 12 67	12	Hammer Head #4:1
59 12 68	3	Disc Pin #4:2
59 12 69	1	4-3 Centre Bolt with Nut & Washer
59 12 70	2	Disc # 4:5
59 12 71	1	Collar #4:5
59 12 72	15	Washer # 4:6

EU DECLARATION OF CONFORMITY

We hereby certify that the Listed Product stipulated below comply with all relevant provisions of the machinery directive (2006/42/EC) and the national laws and regulations adopting this directive.

Description : Electric Flexible Descalers

Model Number : TEFD75 Series

Is in conformity with the provisions of the following European Directives: (2006/42/EC) Machinery Safety and Harmonized standards

ISO 12100-1: 2010: Safety of Machinery –general Principles for Design –Risk Assessment and Risk Reduction.

Registered Office : TERYAIR EQUIPMENT PVT. LTD.
A-1, Tirupati Udyog Nagar, Sativali Road,
Vasai(E), Palghar – 401 208. Maharashtra, India

Web site : www.teryair.com

Works : A-1, Tirupati Udyog Nagar, Sativali Road, Vasai East,
Palghar – 401208, Maharashtra, India.

CE certification registration no – C E 16831/2

Issued by – BMQR Certifications Pvt Ltd.
www.cemarking-india.com

Valid Till – 03/11/2025

Signed for and on behalf of

TERYAIR EQUIPMENT PVT. LTD.


Place of Issue : Vasai



Warranty Certificate

Every product manufactured by Teryair
is built to meet the highest standards of quality.

Teryair warrants that the Products, accessories and parts manufactured or supplied by the company be free from defects in material and workmanship for a period of six months from date of Teryair authorized dealer invoice to customer, or one year from date of Teryair invoice to dealer, whichever is earlier. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Teryair products and parts is beyond our control, Teryair cannot guarantee the suitability of any product or part for a particular application and Teryair shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Teryair does not warranty bought out products or components such as electric motors and hardware but will assist in directing warranty queries to the dealer/manufacturer responsible. Teryair responsibility is limited solely to replacement or repair of defective Teryair products or components.

Dealer/End User shall have no right or remedy and Teryair shall have no liability or obligation under the warranty, if: (i) a Product is altered, changed, modified or tampered with in any way; (ii) a Product is damaged after deposit with the transporter for shipment; (iii) a Product is not properly preserved, packaged, stored, processed or handled after receipt; (iv) a Product is not used and maintained in accordance with Teryair's recommended operating and maintenance manuals, instructions and procedures, if any; (v) a Product is not properly incorporated or installed in, or not properly combined with, an Other Product; (vi) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, a failure, substandard performance or other issue with another product, material, component or part not supplied by Teryair; (vii) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, compliance with any design, specification or other specific requirement of Dealer/End User; (viii) a Product is used in a manner, with a substance or for a purpose other than the normal manner, substance and purpose for which it is intended or is otherwise subjected to abnormal use or service; (ix) a Product is subjected to a power surge, brown out or other similar occurrence; (x) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, normal wear and tear of such Product (including, without limitation, things such as worn seals, diaphragms, balls, O rings, gaskets, chisels, cutters, hoses and other such wearing components; (xi) the issue with a Product is directly or indirectly.

Model Number : TEFD75 Series

M. Yadav, Q.A. Manager
(Company Seal)

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