

TCM-V2



Tube Cleaning Machine

Industrial/ Marine Application

Model: TCM-V2

Functions & Features

The LKS electrical driven tube-cleaning machine is especially design for cleaning tube, juice heater and vacuum pan tubes. This TCM model is also a economy tube cleaning machine which is an electrical type and is suitable for all type of boiler provided the tubes size is in between ½" to 4" internal diameter. The smallest bending radius is 250mm at 180° degree.

Complete system



Description

The Model LKS-TCM is a machine that removal of scale from evaporator tubes can be an irksome and very tiring task, as well as being costly, but it is one which is essential for the efficient running and operation of every palm oil mill and general industries. The job needs to be done quickly and effectively, at the lowest possible cost while at the same time damage to the tube walls must be avoided. LKS tube cleaning equipment is in operation in most sugar producing countries of the world and is a popular acquisition. It is backed by more than 60 years of field experience.

Tools and Type

The latest, very comprehensive range of tools and equipment is range of tools and equipment is available for all tube bore diameters from ½ inch (12mm) to 4 inches (102mm) and suit all manner of scale conditions. Both electric and air drive are available, for use when cleaning evaporator, juice heater and vacuum pan tubes, while water drives are also available; these have been found to extremely useful in many varied mill conditions.

Recommendation

Conditions inevitably vary from mill to mill, and client are encouraged to acquaint the manufacturers with any problems they may have be made for the best selection of tools or brushes for expeditious and effective cleaning.

Line Voltage

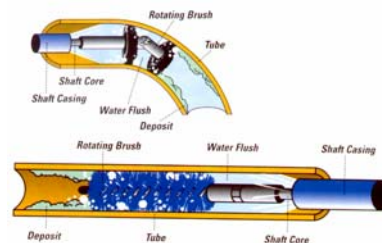
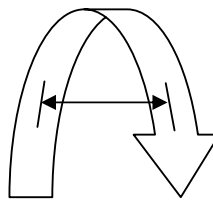
240 VAC / 50 Hz

415 VAC / 50 Hz

Approximate weight

2 Hp Machine	22 Kg
3 Hp Machine	25 Kg
Flexible drive (26' x ½")	16 Kg
Tool (PH 2½")	0.4 Kg

Minimum Bending Radius



Curve or Straight Tube Flexible Shaft

TCM Tube Cleaner Flexible Shaft for Cleaning Tubes/Pipes 1" (25.4mm) I.D. and Up

The impressive TCM Tube Cleaner Shaft incorporates the same operating principles as the TCM but at double the horsepower. Equipped with a full 2HP (15 kW) or 3HP drive motor and heavy-duty flexible shaft, this machine has the strength needed to clean tubes/pipes 1" (25.4mm) I.D. and up. Flexible shafts and accessories are available for either wet or dry applications.

Abrasion Resistant Blue Nylon Casing



Distributor:

Manufacture: LKS (M) SDN. BHD.

No.15, Jalan Anggerik Mokara 31/63, Kota Kemuning, Shah Alam, 40460 Selangor, Malaysia.

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Cleaning Tools

Cone Cutter Assemblies are designed for removing scale deposit from straight and curved tubes; Assemblies should be slightly smaller than tube I.D. The innovative design of then cones ensures a through cleaning. In water tube boilers, cone cutters are the most effective cleaning tools for all conditions

Single and Double Cone Assemble

Assemblies consisting of one or two cone elements are used for cleaning straight tubes 1.1/8" ~ 2.5/16" (29 ~ 59mm) I.D. and curved tubes 1.1/4" ~ 2.3/8" (32 ~ 60mm) I.D.

Disc Cone Assemblies

Assemblies consisting of three cone elements are used for cleaning straight tube 2.3/8" ~ 3.3/4" (60 ~ 95mm) I.D. and curved tubes 2.1/2" ~ 4" (64 ~ 102mm) I.D.

Straight Tube Wheel Brush Assemblies

Recommended for removing soft and light scale deposits in straight or ferrous tubes. Each assembly consists of four stainless steel wire wheel brush attached to a universal joint. Brush should be 1/8" to 1/4" (3.2-6.4mm) smaller than tube I.D.

Curve Tube Wheel Brush Assemblies

Recommended for removing soft and light scale deposits in straight or ferrous tubes. Each assembly consists of a single stainless steel wire wheel brush attached to each end of a universal joint. Brush should be 1/4" to 3/8" (6.4-9.5mm) smaller than tube I.D.

Single Cone Assemblies Part No: SCA



Double Cone Assemblies Part No: DCA



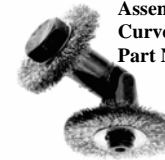
Disc Cone Assemblies Part No: CDC



Drill Cone Assemblies Part No: DDC



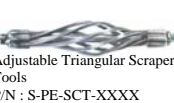
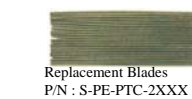
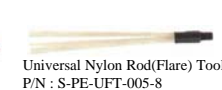
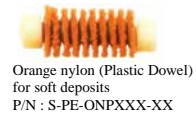
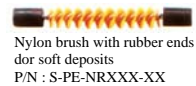
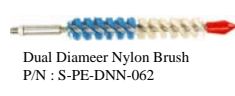
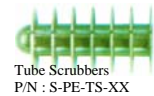
Wheel Brush Assembly for Curved Tube I.D. Part No: WBC



Wheel Brush Assembly for Straight Tube I.D. Part No: WBS



Others tools that applicable



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ORDERING INFORMATION

MODEL NO.

ELECTRICAL DRIVE MOTOR CAPACITY

1. 2HP & 415 VAC/ 50 HZ
2. 2HP & 240 VAC/ 50 HZ
3. 3HP & 415 VAC/ 50 HZ

FLEXIBLE DRIVE

- 15 – 15' (381mm) x ¾" (19.05mm) x ½" Core
- 25 – 25' (635mm) x ¾" (19.05mm) x ½" Core
- 35 – 35' (889mm) x ¾" (19.05mm) x ½" Core
- 50 – 50' (1270mm) x ¾" (19.05mm) x ½" Core

TOOLS & SPARE

Single Cone Assembly	Double Cone Assembly	Straight Tube Wheel Brush Ass.
SCA-100 – 1.1/4"	DCA-100 – 1.1/4"	WBS-100 – 1.1/8"
SCA-112 – 1.1/2"	DCA-112 – 1.1/2"	WBS-125 – 1.3/8"
SCA-125 – 1.3/4"	DCA-125 – 1.3/4"	WBS-150 – 1.5/8"
SCA-150 – 2"	DCA-150 – 2"	WBS-175 – 2.1/8"

Disc Cone Assembly	Drill Cone Assembly	Curve Tube Wheel Brush Ass.
CDC-101 – 2.1/2"	DDC-100 – 1"	WBC-100 – 1.1/4"
CDC-102 – 3.1/8"	DDC-125 – 1.1/4"	WBC-125 – 1.1/2"
CDC-103 – 3.11/16"	DDC-175 – 1.3/4"	WBC-150 – 1.3/4"
*(Others Please specified)		WBC-175 – 2"

TCM-V2 - 3 50 - (Specified)

Distributor: