



# **BETON** **PELLEGRINI**

**IL NUOVO SISTEMA  
DI TAGLIO A FILO  
DIAMANTATO PER  
CEMENTO ARMATO**

**DIAMOND WIRE  
CUTTING SYSTEM  
FOR CONCRETE**

# TELEDIAM TD**b** 25



Diamond wire saw for vertical, horizontal and oblique cuts.

The 18 kW 6-pole main motor is controlled by an inverter and drives a 60 cm flywheel that can be rotated mechanically over 360° for cuts at any angle. A mobile control panel contains all electrical systems and the electronic system that controls the wire tension.

Track: in two parts, each 2.5 m long, with a central rack, plus a ramp for easy placing of the machine on the track.

FEATURE	PERFORMANCE (*)
WIRE ROTATION MOTOR POWER	25 CV
FLYWHEEL DIAMETER	600 mm
GUIDE WHEEL DIAMETER	300 mm
MAX. ABSORPTION OF WIRE MOTOR	37 A
MAX. HEIGHT	1.00 m
MAX. WIDTH	0.8 m
MAX. LENGTH	1.35 m
WEIGHT	600 Kg – 1320 lb
Minimum square measure of copper feeding cables lenght ≤ 100 m	10 mm <sup>2</sup>
Minimum power of generating set for each machine.	50 KVA

(\*) SUPPLY : 3-ph 400 V 50 Hz.

# TELEDIAM TD**b** 45/55/65



Diamond wire saw for vertical, horizontal and oblique cuts.

The main electric motor (30, 37 or 45 kW, 6 poles) is controlled by an inverter, and the motor shaft carries the 80 cm aluminium flywheel. The motor-flywheel assembly also carries two 40 cm wire guide-wheels. Two reducers assemblies with electric drive allow 360° rotation and lateral shift of the fly-wheel so that two parallel cuts can be made, at distances from 130 to 200 cm. .

MACHINE :	TD <b>b</b> 45	TD <b>b</b> 55	TD <b>b</b> 65
FEATURES	PERFORMANCE		
WIRE ROTATION MOTOR POWER	40 CV	50 CV	60 CV
MAX CURRENT ABSORPTION	60 A (*)	72 A (*)	84 A (*)
FLYWHEEL DIAMETER	800 mm		
GUIDE WHEELS DIAMETER	380 mm		
MAX. HEIGHT	1,2 m		
MAX. WIDTH	1,2 m		
MAX. LENGTH	2,15 m		
	TD <b>b</b> 45	TD <b>b</b> 55	TD <b>b</b> 65
WEIGHT [Kg]	1650	1700	1700
Minimum square measure of copper feeding cables length ≤ 100 m. [mm <sup>2</sup> ]	16	25	25
Minimum power of generating set (Compound device equipped) for each machine. [KVA]	80	100	120

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(\*) SUPPLY : 3-ph 400 V 50 Hz.

# TELEDIAM TD**b** 80/100



Diamond wire saw for vertical, horizontal and oblique cuts.

The main electric motor (55 kW, 8 poles or 75kw , 10 poles) is controlled by an inverter, and the motor shaft carries the 102 cm aluminium flywheel. The motor-flywheel assembly also carries two 40 cm wire guide-wheels. Two reducers assemblies with electric drive allow 360° rotation and lateral shift of the fly-wheel so that two parallel cuts can be made, at distances from 100 to 210 cm.

FEATURES	PERFORMANCE	
	TD <b>b</b> 80	TD <b>b</b> 100
WIRE ROTATION MOTOR POWER	75 HP	100 HP
MAXIMUM WIRE ROTATION MOTOR ABSORPTION	115 A (*)	145 A (*)
FLYWHEEL DIAMETER	1000 mm	
GUIDE WHEEL DIAMETER	380 mm	
MAX. HEIGHT	2,50 m	
MAX. WIDTH	1,60 m	
MAX. LENGTH	2,80 m	
WEIGHT	3000 Kg	
Minimum square measure of copper feeding cables length ≤ 100 m	35 mm <sup>2</sup>	50 mm <sup>2</sup>
Minimum power of generating set for each machine.	150 KVA	200 KVA

(\*) SUPPLY : 3-ph 400 V 50 Hz.

# ACCESSORIES

## FLYWHEEL AND WIRE-GUIDES



These can be dismantled to allow use of replaceable rubber rings.

## HIDRAULIC PRESS ABOUT 5 TONS



Equipped with double-hole crimping moulds suitable for either male/female joints or copper coupling sleeves.

## KIT FOR CUT HORIZONTAL



This consists of a trestle and flywheel with a support that can be set at any angle, allowing horizontal cuts at ground level to be made.

## BICYCLE



Complete with flywheels  $\varnothing$  380 mm and anchorage. Used to avoid early cut closing for down-cut and to re-direct the wire as for example in galleries

## TRESTLE



With flywheel  $\varnothing$  380 mm used to help start cutting, particularly when very long cuts have to be made.

# BETON PELLEGRINI



**I** ROLLER BETON è un impianto automatico ideale per tagliare con filo diamantato travi, strutture e altri elementi in cemento precompresso ad alta resistenza, armato e molto armato con diverse caratteristiche e geometrie.



**GB**

ROLLER BETON is an automatic machine that can cut, using diamond wire, prestressed concrete beams and other prefabricated structures even with heavy reinforcing, and with a variety of shapes.

**D**

ROLLER BETON ist eine automatische Anlage, ideal für den Diamantseil-Schnitt von Balken und anderen Strukturen und Elementen aus vorgespanntem Beton hoher Widerstandskraft, armiert und in verschiedenen Charakteristiken und Formen.

**E**

ROLLER BETON est une débiteuse automatique à fil diamanté idéale pour le découpage de poutres, de structures ou de tout autre matériaux en béton précontraint très résistant, en béton armé ou très armé, avec n'importe quelles caractéristiques ou formes.



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