

SLOFEC[®]

Pipe Testing Systems

2021



SLOFEC[®]



Company Profile

TMT Test Maschinen Technik GmbH is a specialized provider of innovative electro-magnetic inspection equipment. TMT is the inventor of the SLOFEC[®] technology standing for **S**aturation **L**ow **F**requency **E**ddy **C**urrent technique and is delivering advanced non-destructive testing solutions to the worldwide process industries including the Oil & Gas (on- & offshore) industry, refineries, petrochemical and power plants since 1982.



The range of high performance SLOFEC[®] tank floor and pipe scanners are designed and built by our in-house R&D team. The experience and feedback from more than 15 years tank floor inspection service has been integrated into our equipment to offer our clients superior equipment for reliable and thorough inspection tools.

The SLOFEC[®] floor scanners are designed to cover maximum testable areas with minimal dead zones on the floor plates adjacent to the tank shell, under obstacles and on floor plate overlaps. The unique computer aided SLOFEC signal data analysis and reporting software allows the defect depth determination on highest level and comprehensive mapping of topside and underside defects inclusive indication lists.

An additional advantage of the SLOFEC[®] technique in practice is that only low preparation and limited cleaning of the surface to be inspected is required.

Products

TE

- SLOFEC[®] tank floor scanner
- SLOFEC[®] hand scanner for testing of overlap welds
- SLOFEC[®] tank wall scanner
- SLOFEC[®] pipe scanner
- CRIS[®] weld scanner for surface crack detection

Consolidated Companies

nen Technik GmbH	TMT Test Maschinen Technik GmbH	Equipment Sales
troll Technik	Kontrolltechnik GmbH	Inspection Services
ER.	TER Test Equipment Rentals GmbH	Equipment Lease and Rentals









Pipe Scanner PS200EM.V1

Main Features

The PS200EM.V1 pipe scanner is designed to cover the full range of thick walled and thick coated pipes up to 25mm pipe wall thickness and 10mm non-metallic coating thickness. The design of the PS200EM.V1 pipe scanner allows fast setup of the equipment and easy change to different pipe diameter for accurate and cost effective operation.

- effective testing by 200 mm scanning width
- 8-channel sensor array for high defect resolution (optional 16-channel sensor array)
- applicable to wall thicknesses up to 20 mm
- pole shoes and sensor fixture exchangeable
- applicable to diameter from 8 inch
- trigger wheel for distances constant scanning
- water-proof configuration upon request

Technical Data

Scanner Unit PS200EM.V1

weight :	:	electro-magnet 43 kg		
dimensions :	:	80 x 300 x 220 mm LxWxH		
		(without hand grips)		
number of sensors :	:	8 (16 optional)		
sensor width :	:	25 mm each		
Power Supply Unit				
power supply :	:	110VAC - 240VAC		
		(outside the tank)		

ро (outside the tank) 40 VDC (scanner magnetization) 24 VDC (motor + electronics) weight : 22 kg : 500 x 250 x 500 mm LxWxH dimensions

Signal Cable

length weight

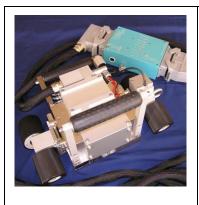
computer

: 30 - 150 m (maximal) : 1 kg/m

Data Acquisition and Analysis Unit

type no. of channels

- : eddyMax "The Box" : 8 (optional 16) : Notebook
- (upon customer spec.)







Pipe Scanner LS150EM.V1

Main Features

The pipe scanner LS150EM.V1 is designed to get a handable tool for testing of thick-walled pipes, vessel and storage tanks. By the optimized design, testing up to 18 mm pipe wall or plate thickness or 8 mm non-metallic coating thickness is possible. Due to the adjustable magnetization the pipe scanner LS150EM.V1 can be applied to a wide range of inspections task within the wall thickness range.

- effective operation by 150 mm scanning width
- small scanner height for access to small gaps by detachable electronic box.
- 8-channel sensor array for high defect resolution (optional 16-channel sensor array)
- applicable to wall thicknesses up to 18 mm
- pole shoes and sensor fixture exchangeable
- applicable to diameter from 1" to flat
- trigger wheel for distances constant scanning

Technical Data

Scanner Unit LS150EM.V1

magnetization weight		electro-magnets 25 kg			
dimensions	:	350 x 220 x 120 mm LxWxH (without hand grips)			
number of sensors	:	8			
sensor width	:	18,75 mm each			
Power Supply Unit					

power supply : 110VAC - 240VAC 40 VDC (magnetization) 24 VDC (electronics) weight : 22 kg

weight: 22 kgdimensions: 400 x 500 x 170 mm LxWxH

Signal Cable

length weight : 30 - 100 m (maximal) : 0,25 kg/m

Data Acquisition and Analysis Unit

type no. of channels computer

eddyMax "The Box"
8 (optional 16)
Notebook (upon customer spec.)





 $\mathsf{SLOFEC}^{\circledast} \text{ is technology and registered trademark of KontrollTechnik GmbH-Germany}$







Pipe Scanner Type LS120PM.V1

Main Features

The pipe scanner LS120PM.V1 is designed to have a small, lightweight and easy to adapt tool for testing of pipes, vessel and storage tanks. By the optimized design, testing up to 10 mm pipe wall or plate thickness or 5 mm non-metallic coating thickness is possible. As the magnetization is generated by permanent no power supply unit is necessary

- effective operation by 100 mm scanning width
- small scanner height for access to small gaps
- 4-channel sensor array for high defect resolution (optional 8-channel sensor array)
- applicable up to wall thicknesses up to 12 mm
- pole shoes and sensor fixture exchangeable
- applicable to diameter from 1" to flat
- trigger wheel for distances constant scanning

Technical Data

Scanner Unit LS120PM.V1

magnetization	:	permanent magnets
weight	:	15 kg
dimensions	:	220 x 130 x 140 mm LxWxH
		(without hand grips)
number of sensors	:	4
sensor width	:	25 mm each

: 0,25 kg/m

Signal Cable

length weight

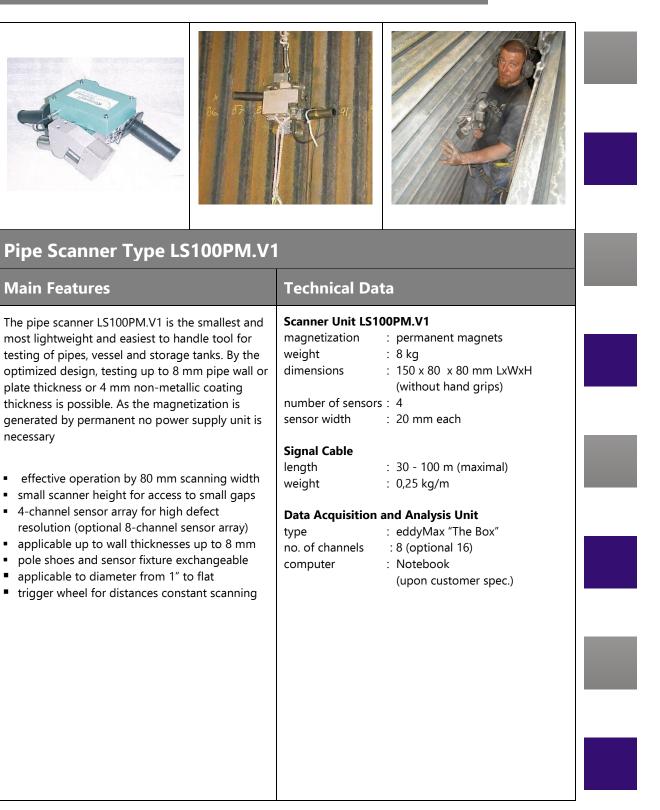
Data Acquisition and Analysis Unit

- type no. of channels computer
- : eddyMax "The Box" : 4 (optional 8) : Notebook

: 30 - 100 m (maximal)

(upon customer spec.)

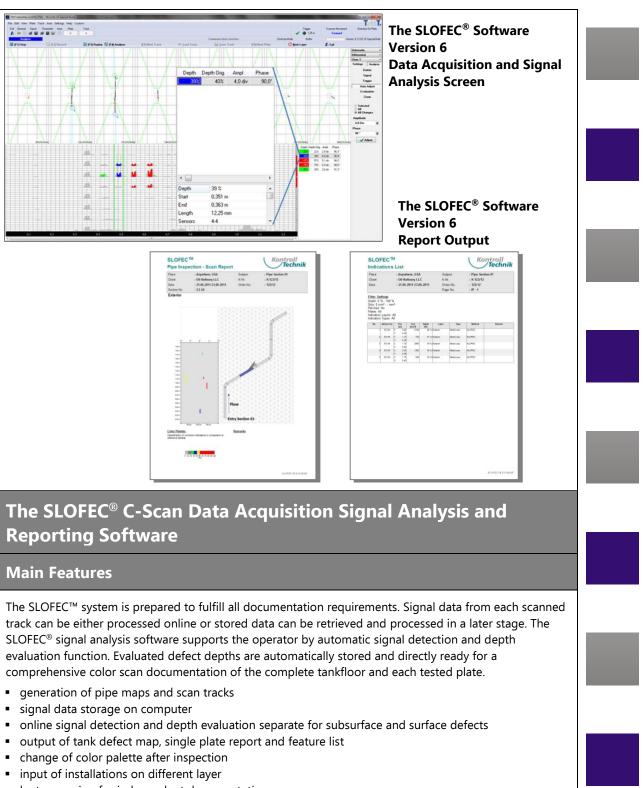
Test Maschinen Technik Gmbl





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laptop version for independent documentation