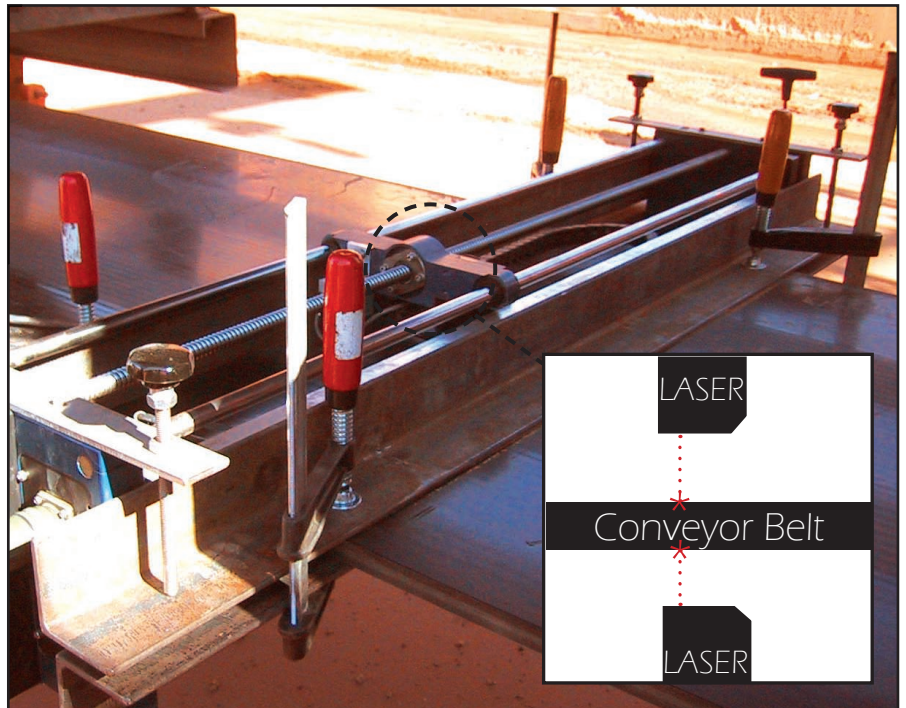


## What does it do?

Measures conveyor belt thickness to high resolution using LASER based optical micrometers.

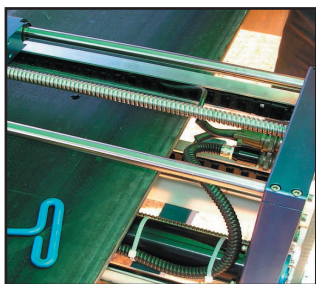
## How does it work?

Servo controlled optical (LASER) micrometers track across the belt recording continuous thickness data against position. The data is interpreted using custom software to determine the wear profile.



### More Accurate than Ultrasonic Thickness Measurement

	LASER	UT Probe
Results Accuracy	+/- 0.05mm	Up to +/- 1.00mm
Wear Rate Calculation	✓	✗
No. Data Points Used /1000mm	3000	Typically 20-40
Positional Encoding	✓	✗
Temperature Compensated	✓	Partly



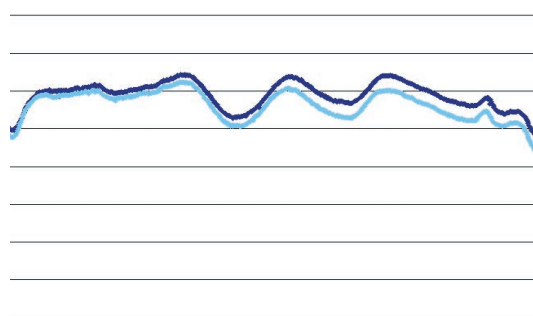
## pndt offers a global service

pndt technicians with the specialised equipment set up and record the data on site. Post processing, data analysis and data archiving are carried out off site. Reports are issued from the head office in Perth.

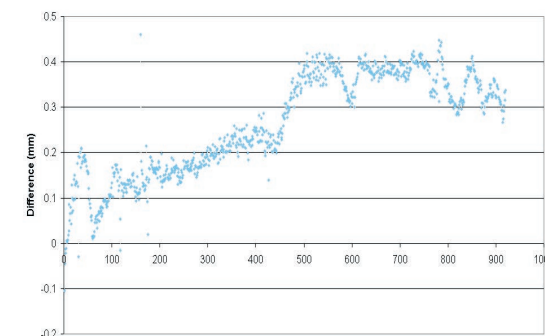
## How can I expect to view my results?

Thickness data is recorded in MS Excel format and displayed in graphical form. Periodic data collection allows for wear rate calculation from baseline survey.

Thickness from 2 Data sets



Wear



## Technical Data

### Set-Up Requirements

The belt must be stationary when testing is in progress as the unit clamps to the belt

Belt needs to be almost flat - less than 3° deflection (best location is near the head/tail pulley)

A small notch needs to be etched into the belt (Approx. 2mm wide, 50mm long and 2mm deep) to aid in relocating the baseline test location

Clearance of 150mm is needed under the belt.

Inspection time to record around 3000 data points is approximately 10mins, with setup time typically 10-15mins per location

### Specifications

Power supply: 240V AC (Can be modified to 110 V AC)

Belt width capacity is up to 1030mm - this can be modified for wider belts if required.

Approximate standard outer dimensions:  
330 x 400 x 1300mm

### Shipping Information

Frame = 30 kg (350 x 350 x 1500mm)

Data Acquisition Case = 20kg  
(600 x 600 x 300mm)

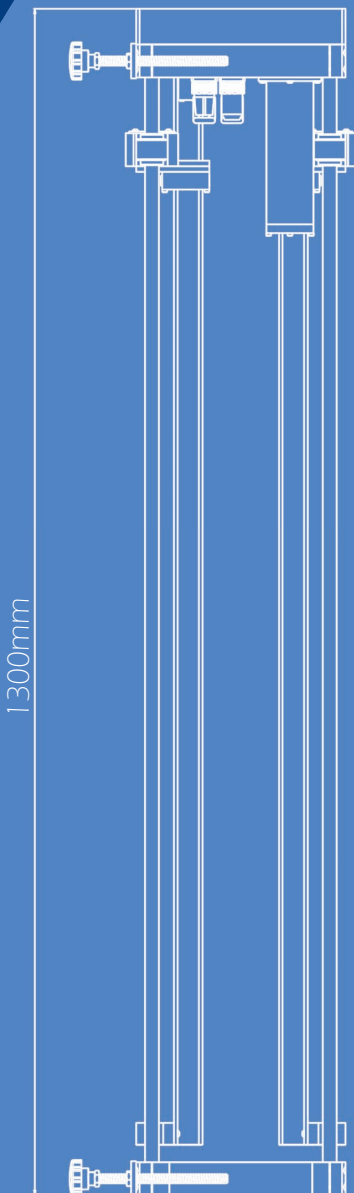
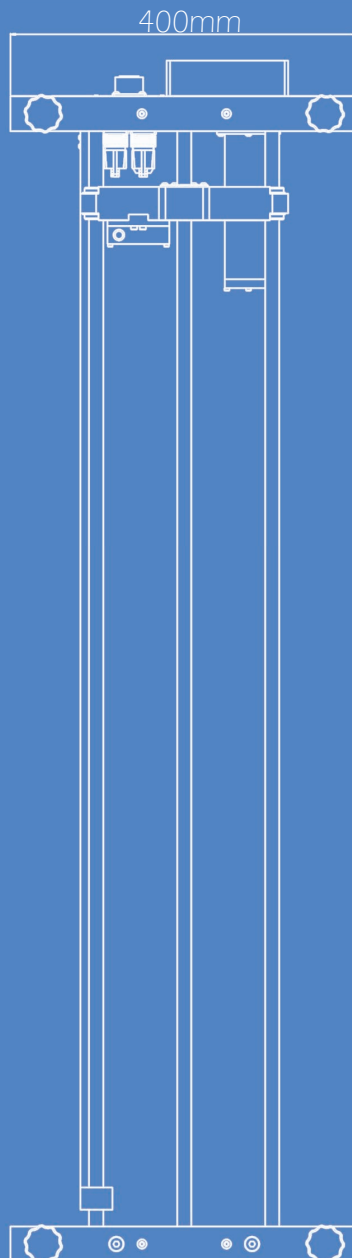
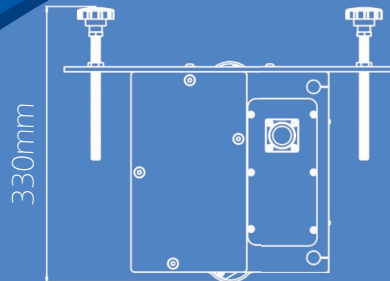
### Applications

This system is most appropriate for long haul low wear rate conveyor belt (high resolution required).

### Contact Details

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\*These are the standard dimension but can be adapted for your needs