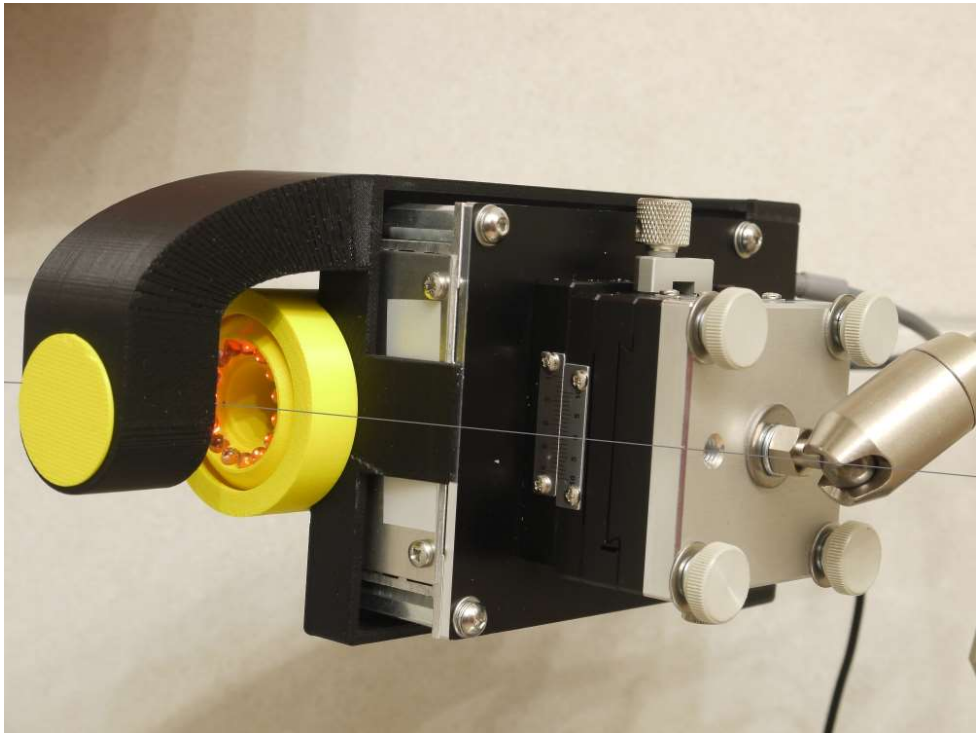
Inline Saw Wire Inspection – second generation

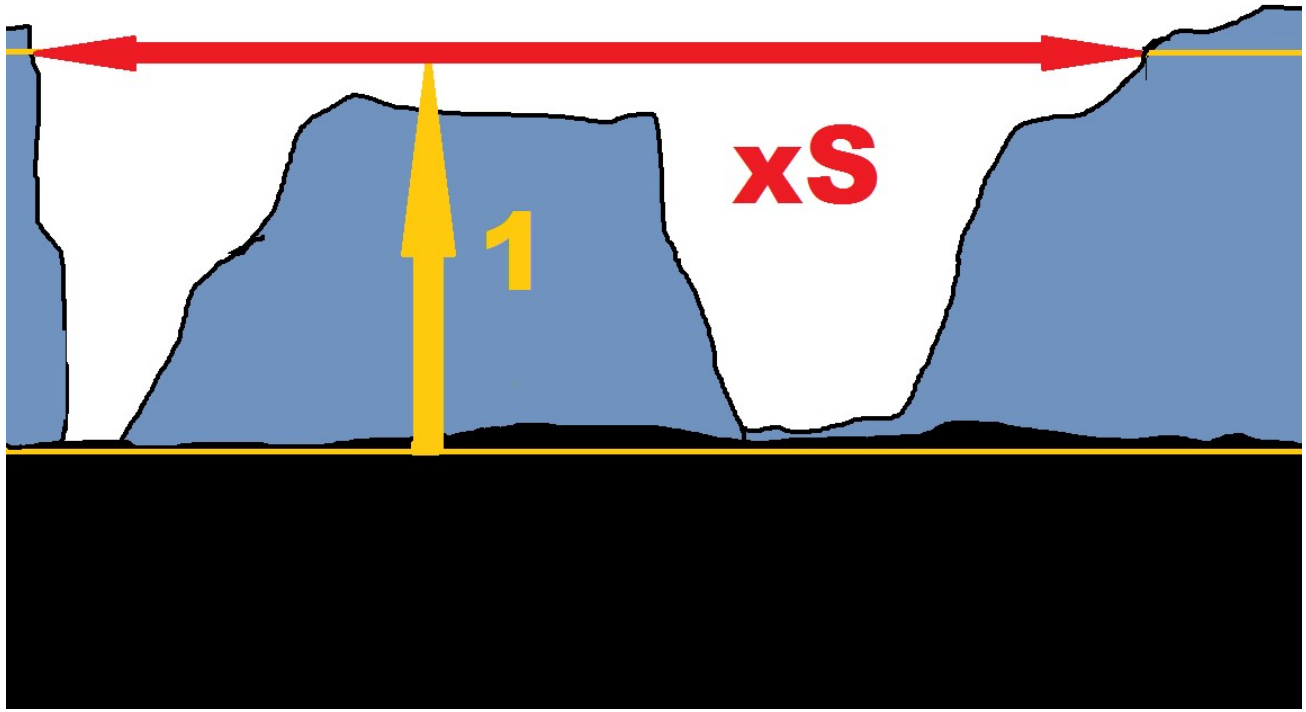
# ISWIN 2

DR.LIST

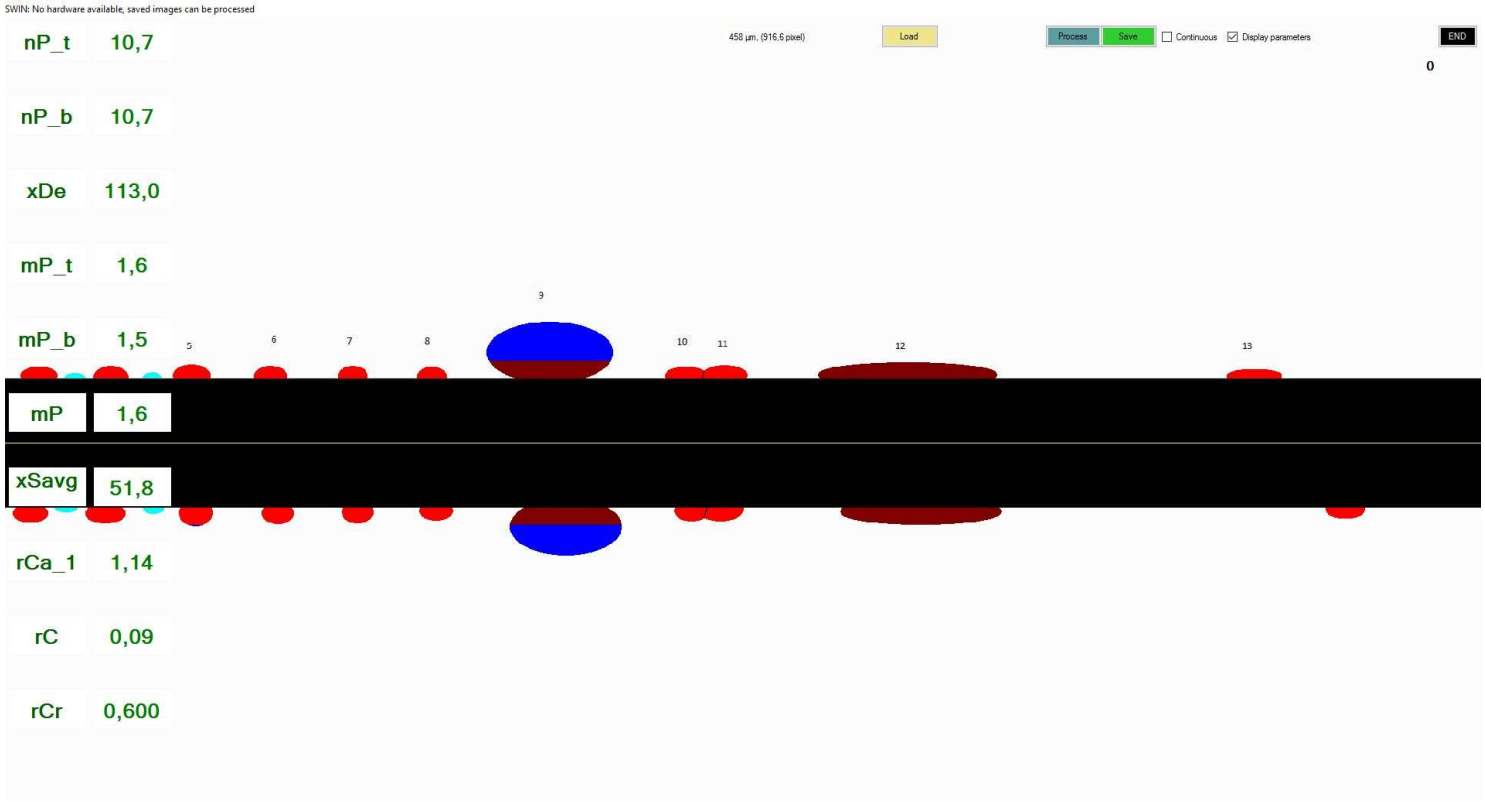
# Profile and surface at high speed



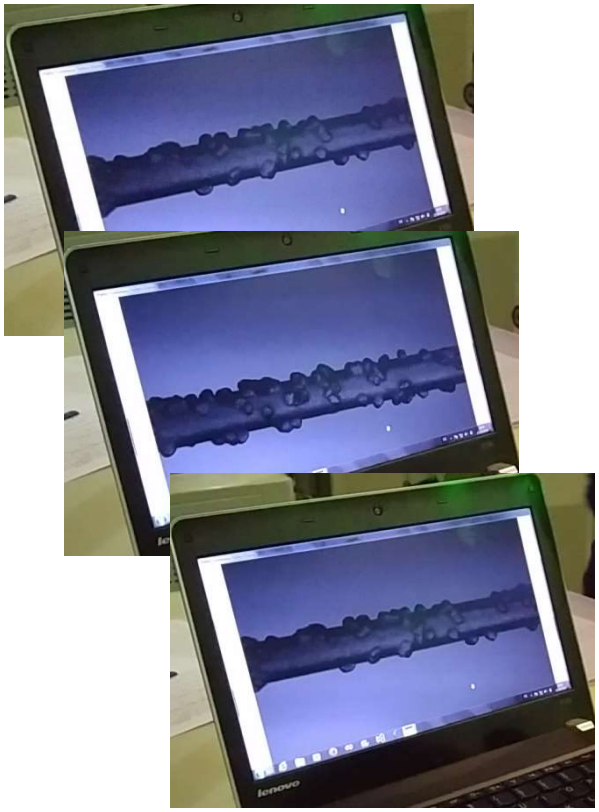
# Sub-micron precision at high speed

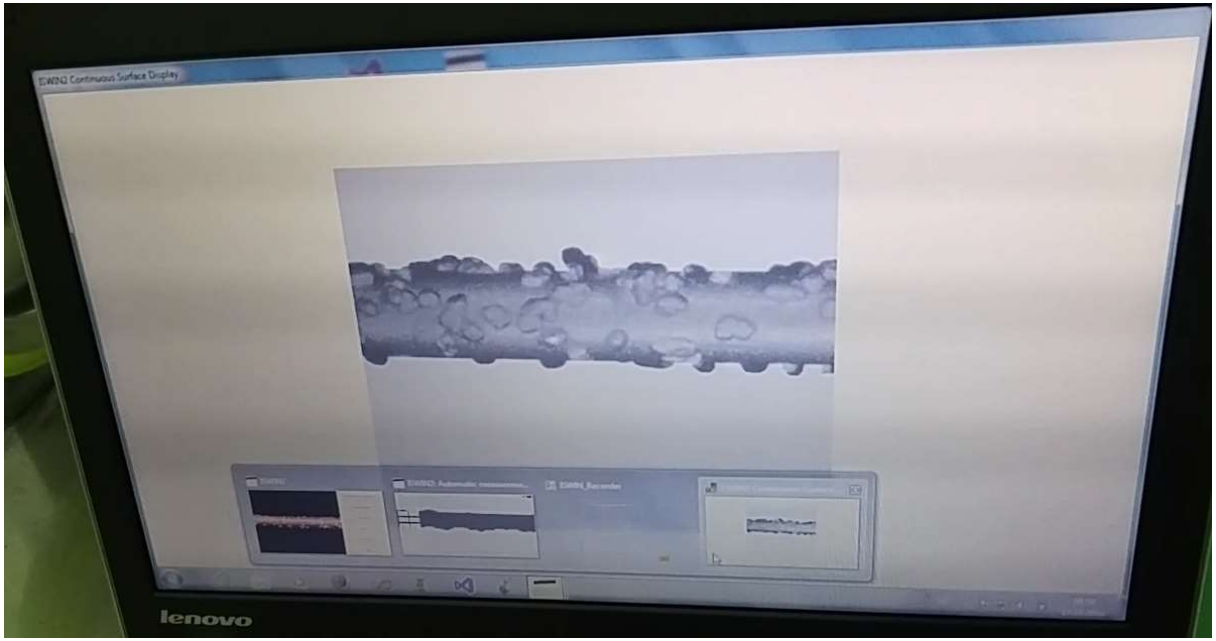


# Online control: 21 parameters

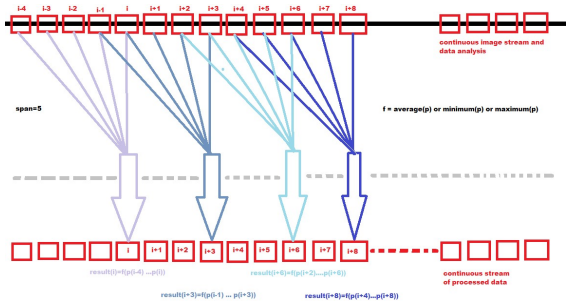


# Displays the surface at high speed





# Records data to EXCEL files




| | xNi | xDm | xDe | mP_t | mP_b | mP | nP_t | nP_b | nP | xSmin_t | xSmax_t | xSavg_t | xSsd_t | xSmin_b | xSmax_b | xSavg_b | xSsd_b | rCa_1 | rCa_2 | rC | rCr | Time stamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 2,607 | 99,734 | 94,514 | 0,209 | 0,215 | 0,212 | 9,946 | 11,487 | 10,716 | 1,166 | 372,094 | 69,041 | 93,576 | 3,268 | 189,605 | 63,294 | 56,793 | 1 | 1,498 | 0,039 | 0 | 2016-3-3 03:34 |
| 8 | 2,592 | 99,624 | 92,653 | 0,212 | 0,205 | 0,208 | 10,506 | 10,716 | 10,611 | 0,595 | 307,124 | 65,301 | 79,281 | 4,782 | 190,013 | 68,417 | 57,781 | 1 | 1,251 | 0,041 | 0 | 2016-3-3 03:34 |
| 9 | 2,691 | 108,959 | 103,261 | 0,288 | 0,592 | 0,44 | 12,607 | 17,72 | 15,164 | 0,701 | 216,141 | 56,853 | 63,288 | 0,292 | 129,89 | 26,049 | 29,25 | 1,418 | 2,452 | 0,067 | 0 | 2016-3-3 03:34 |
| 10 | 2,781 | 111,367 | 109,751 | 0,766 | 0,436 | 0,601 | 17,16 | 15,689 | 16,425 | 0,293 | 116,352 | 22,182 | 29,855 | 0,526 | 148,604 | 39,425 | 41,646 | 1,703 | 2,156 | 0,11 | 0,002 | 2016-3-3 03:34 |
| 11 | 2,824 | 107,408 | 102,179 | 0,398 | 0,339 | 0,369 | 14,569 | 13,238 | 13,903 | 0,35 | 198,178 | 44,251 | 53,465 | 1,58 | 184,881 | 47,939 | 53,033 | 1,287 | 1,491 | 0,053 | 0,002 | 2016-3-3 03:34 |
| 12 | 2,777 | 112,937 | 108,234 | 0,44 | 0,322 | 0,381 | 14,779 | 13,378 | 14,078 | 0,292 | 176,424 | 44,466 | 46,717 | 0,935 | 209,552 | 51,449 | 54,502 | 1,577 | 1,625 | 0,052 | 0,009 | 2016-3-3 03:35 |
| 13 | 2,661 | 113,129 | 109,207 | 0,403 | 0,374 | 0,389 | 14,569 | 15,269 | 14,919 | 0,468 | 190,481 | 45,594 | 52,17 | 0,234 | 172,75 | 44,254 | 47,184 | 1,421 | 1,543 | 0,058 | 0,005 | 2016-3-3 03:35 |
| 14 | 2,752 | 110,333 | 105,526 | 0,326 | 0,413 | 0,37 | 11,557 | 13,868 | 12,712 | 1,342 | 235,038 | 61,951 | 67,004 | 0,468 | 178,115 | 46,612 | 49,894 | 1,534 | 1,858 | 0,058 | 0,001 | 2016-3-3 03:35 |
| 15 | 2,778 | 108,252 | 103,709 | 0,427 | 0,4 | 0,413 | 15,689 | 15,549 | 15,619 | 1,635 | 156,421 | 41,478 | 42,434 | 0,82 | 161,494 | 41,419 | 45,204 | 1,333 | 1,499 | 0,059 | 0,001 | 2016-3-3 03:35 |
| 16 | 2,725 | 109,867 | 104,838 | 0,386 | 0,3 | 0,343 | 13,448 | 12,747 | 13,098 | 0,817 | 229,672 | 51,796 | 61,732 | 1,458 | 178,057 | 58,467 | 56,183 | 1,51 | 1,64 | 0,047 | 0,001 | 2016-3-3 03:35 |

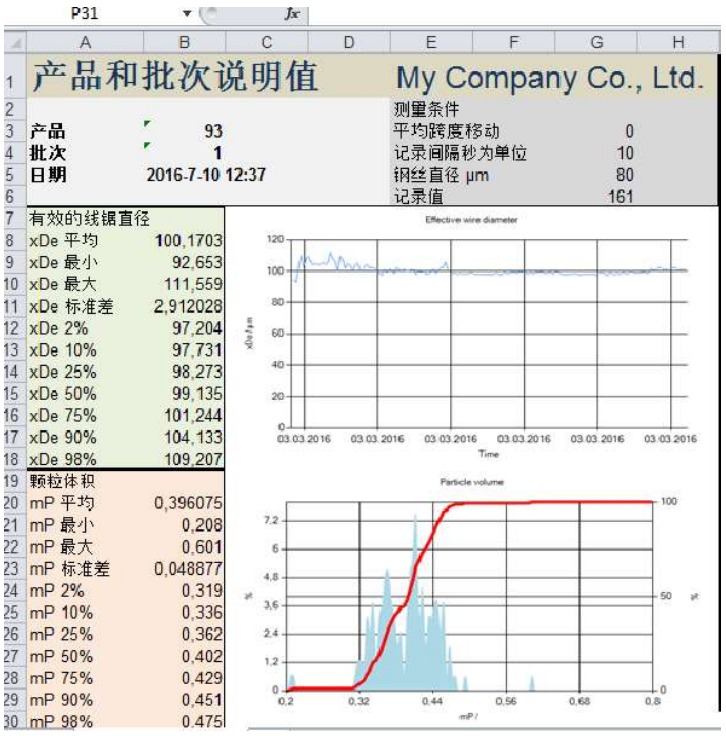
# Gives in-process feedback

- sets outputs on a USB output module when limit violation occurs
- saves images of wire when limit violation occurs
- presents the history of the wire in interactive line charts

# Creates product quality reports

- Particle density
- Particle distribution
- Coating thickness
- Maximum diameter
- Limit violations

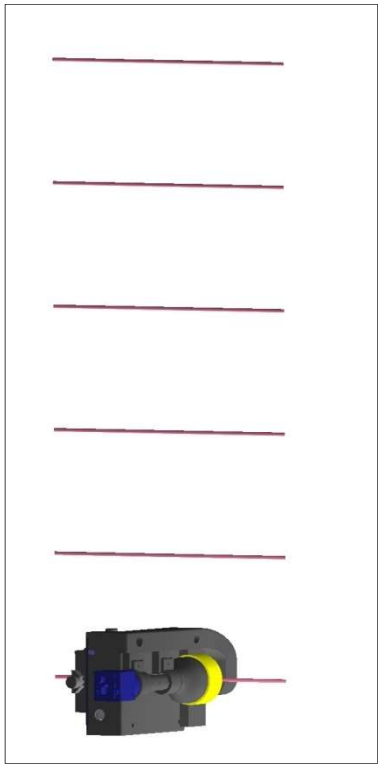
- Statistical data presented in graphs

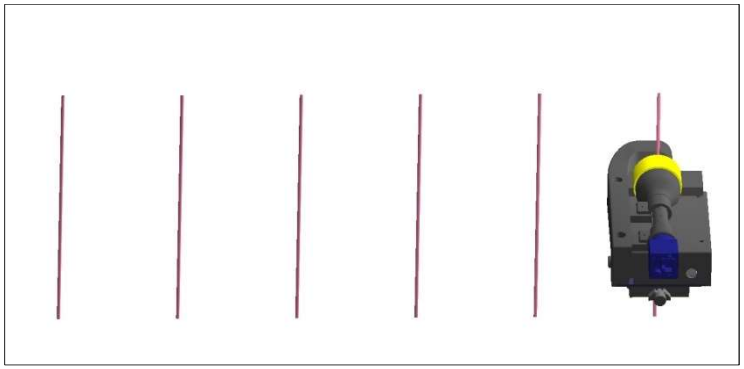


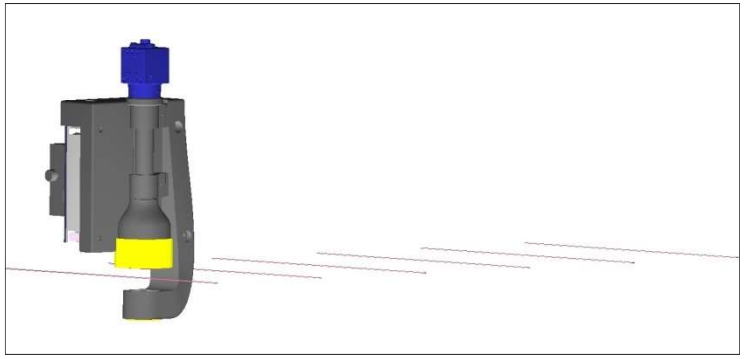
| | A | B |
|---|---|---|
| 1 | 产品和批次说明值 | My Company Co., Ltd. |
| 3 | 产品 | 93 |
| 4 | 批次 | 1 |
| 5 | 日期 | 2016-7-10 12:37 |
| 7 | 有效的线锯直径 | |
| 8 | xDe 平均 | 100,1703 |
| 9 | xDe 最小 | 92,653 |
| 10 | xDe 最大 | 111,559 |
| 11 | xDe 标准差 | 2,912028 |
| 12 | xDe 2% | 97,204 |
| 13 | xDe 10% | 97,731 |
| 14 | xDe 25% | 98,273 |
| 15 | xDe 50% | 99,135 |
| 16 | xDe 75% | 101,244 |
| 17 | xDe 90% | 104,133 |
| 18 | xDe 98% | 109,207 |
| 19 | 颗粒体积 | |
| 20 | mP 平均 | 0,396075 |
| 21 | mP 最小 | 0,208 |
| 22 | mP 最大 | 0,601 |
| 23 | mP 标准差 | 0,048877 |
| 24 | mP 2% | 0,319 |
| 25 | mP 10% | 0,336 |
| 26 | mP 25% | 0,362 |
| 27 | mP 50% | 0,402 |
| 28 | mP 75% | 0,429 |
| 29 | mP 90% | 0,451 |
| 30 | mP 98% | 0,475 |

| | E | F | G |
|---|---|---|---|
| 2 | 测量条件 | | |
| 3 | 平均跨度移动 | | 0 |
| 4 | 记录间隔秒为单位 | | 10 |
| 5 | 钢丝直径 µm | | 80 |
| 6 | 记录值 | | 161 |

# Slim design for multi-wire lines







# ISWIN 2 - double the win