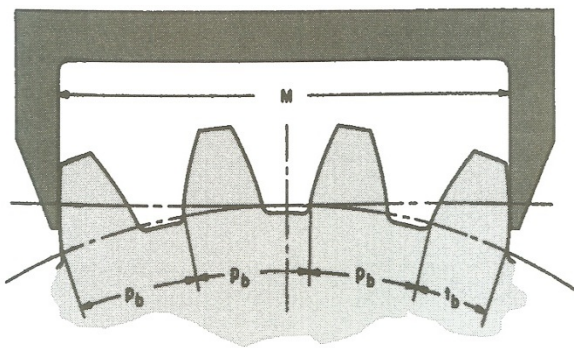


**SPAN MEASUREMENTS 30° PA**

**Inspection of Tooth Thickness by Means of a Span Measurement.**



The limitations of span measurement are:

- 1) Span measurement cannot be applied when a combination of helix angle and narrow face width prevent the caliper from spanning a sufficient number of teeth.
- 2) Readings are influenced by errors in base pitch, tooth profile, and lead. Readings would be erroneous if attempted on a portion of profile, which had been modified from true involute shape.

| N  | T | W       | N  | T | W       |
|----|---|---------|----|---|---------|
| 6  | 2 | 4.3604  | 29 | 6 | 16.3138 |
| 7  | 2 | 4.4069  | 30 | 6 | 16.3604 |
| 8  | 2 | 4.4534  | 31 | 6 | 16.4069 |
| 9  | 2 | 4.5000  | 32 | 6 | 16.4534 |
| 10 | 2 | 4.5465  | 33 | 6 | 16.5000 |
| 11 | 3 | 7.3138  | 34 | 6 | 16.5465 |
| 12 | 3 | 7.3604  | 35 | 7 | 19.3138 |
| 13 | 3 | 7.4069  | 36 | 7 | 19.3604 |
| 14 | 3 | 7.4534  | 37 | 7 | 19.4069 |
| 15 | 3 | 7.5000  | 38 | 7 | 19.4534 |
| 16 | 3 | 7.5465  | 39 | 7 | 19.5000 |
| 17 | 4 | 10.3138 | 40 | 7 | 19.5465 |
| 18 | 4 | 10.3604 | 41 | 8 | 22.3138 |
| 19 | 4 | 10.4069 | 42 | 8 | 22.3604 |
| 20 | 4 | 10.4534 | 43 | 8 | 22.4069 |
| 21 | 4 | 10.5000 | 44 | 8 | 22.4534 |
| 22 | 4 | 10.5464 | 45 | 8 | 22.5000 |
| 23 | 5 | 13.3168 | 46 | 9 | 25.2671 |
| 24 | 5 | 13.3604 | 47 | 9 | 25.3138 |
| 25 | 5 | 13.4069 | 48 | 9 | 25.3604 |
| 26 | 5 | 13.4534 | 49 | 9 | 25.4069 |
| 27 | 5 | 13.5000 | 50 | 9 | 25.4534 |
| 28 | 5 | 13.5464 |    |   |         |