



# ND300 NEXT DIMENSION

## CNC Gear Measurement System

GEAR MEASUREMENT SYSTEM

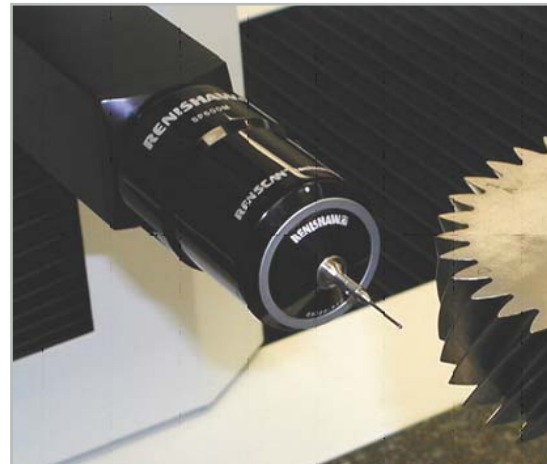
### STANDARD MACHINE SPECIFICATIONS

The ND300 is a four (4) axis, computer-controlled, inspection system that can measure gears and other geometric features utilizing a 3-Dimensional scanning probe. Gear tooth geometry – F $\alpha$ -profile, F $\beta$ -helix, Fp-pitch, Fr-Runout, Sn-Tooth Thickness & Size, form-roundness, and 3D related feature single point and scanning measurements are performed in a volumetrically error mapped and thermally compensated work zone utilizing “off-the-shelf” components featuring non-contact Linear Motor technology and a Renishaw® precision scanning probe head that is “Crash Protected.”

#### Technical Data - Capacities & Limits

X Travel	150 mm
Y Travel	310 mod
Z Travel	420 mm
C-Axis - Rotary Table Diameter	228 mm
Weight Capacity:	180 kgs (400lbs)
Maximum diameter of part	406 mm
Maximum length part between centers	750 mm
Width (Approximate)	1023 mm
Height (Approximate)	2041 mm
Length (Approximate)	1720 mm
Weight (Approximate Net)	13,000 kg

*Technical data is subject to change without notice and may vary according to the workpiece geometry, the loading system and the workholding equipment supplied.*





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Standard Equipment	
Description	
Steel weldment supporting a granite base	
Linear motor driven axes and 1 zero backlash, capstan drive rotary C-axis	
1 Motorized tailstock with an 18mm live top center	
Operator Workstation-Desk with lockable storage, Chair	
Computer - current technology processor with read/rewritable CD drive	
56K modem, with ethernet card for networking to PCs	
17" color monitor	
Ø 19.05mm and 12.7mm precision calibration spheres	
Ø 25mm bottom dead center tip	
Universal mechanical drive mechanism (drive dogs) kit	
Renishaw® SP 600 scanning 3-D probe	
1 year warranty	
<b>Standard Equipment Total (\$):</b>	

Optional Equipment	
Description	Price (\$)
Cylindrical gears and splines inspection and analysis software	
"Off-Axis" - alignment & datum reference	
Roundness & blank form geometry package	
Root fillet geometry scanning package	
3D related features package	
Unknown gear & spline geometry	
Tooth timing relationship package	
Compare software (before & after)	
Hob inspection package	
Shaver cutter / roll die inspection package	
Shaper cutter inspection package per DIN 1829	
Worm shaft package for ZA, ZI, ZN, ZK profiles	
Off line work station software license	
PECO statistical process control and analysis software	
3 station automatic probe changer	
5 station automatic probe changer	
Index, lead & profile master with NIST calibration	
Quick change lever actuated Hydraulic Chuck	
Magnetic chuck with adapter plate – Ø136mm / 5.35 inch Max	
Magnetic chuck with adapter plate – Ø204mm / 8.0 inch Max	
3-Jaw chuck with adapter plate – Ø70mm / 2.75 inch Max	
3 – Jaw chuck with adapter plate – Ø160mm / 6.3 inch Max	
6 – Jaw chuck – Ø 110mm/4.33" with adapter plate	
Fixed or "Dead" Top Centers	
Rotational or "Live" Top Centers	
Clamping discs and adjustable parallel blocks	
Swing arm holder unit	
Power conditioner (3 KVA power conditioner/hook up)	
Special customer requested paint type and color	
<b>Optional Equipment Total (\$):</b>	

Total Cost:	
Standard Equipment Total (\$):	
Optional Equipment Total (\$):	
<b>TOTAL (\$):</b>	

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**QUICK QUOTE** Request



Star SU LLC  
5200 Prairie Stone Parkway, Suite 100  
Hoffman Estates, IL 60192  
USA  
Tel.: 847 649 1450  
Fax: 847 649 0112  
sales@star-su.com



PECO  
4191 U.S. Route 40  
Tipp City, OH 45371  
USA  
Tel.: 937-667-7105  
Fax: 937-667-2591  
msdsales@peco-us.com