



- NOTES:**
1. SHAFT MATERIAL: TYPE 304 STAINLESS STEEL.
  2. HUB MATERIAL: CHROME AND ZINC PLATED BRASS.
  3. NEEDLE TIP: PROBE POINT - SQUARE. BEVELED TIP OPTIONAL.
  4. PER VIEW A, INSIDE NEEDLES TO BE MADE CONCENTRIC TO OUTSIDE NEEDLES.

PLEASE PROVIDE THE FOLLOWING:

1. INLET STYLE A, B or D (STYLE A IS MORE COMMON; EXTRA COST FOR D) \_\_\_\_\_
2. INSIDE NEEDLE GAUGE\* (SMALLEST INSIDE GAUGE IS 28G) \_\_\_\_\_ G
3. MIDDLE INNER NEEDLE GAUGE\* \_\_\_\_\_ G
4. MIDDLE OUTER NEEDLE GAUGE\* \_\_\_\_\_ G
5. OUTSIDE NEEDLE GAUGE\* \_\_\_\_\_ G  
\*CONSULT NEEDLE GAUGE CHART - ALLOW FOR SPACE BETWEEN NEEDLES.
6. DIM C1 (BETWEEN OUTER AND LG MID)\*\* \_\_\_\_\_ MM
7. DIM C2 (BETWEEN TWO MID)\*\* \_\_\_\_\_ MM
8. DIM C3 (BETWEEN SM MID AND INNER)\*\* \_\_\_\_\_ MM  
\*\* USE 0 FOR FLUSH. USE POSITIVE VALUE FOR INNER COMPONENT TO EXTEND BEYOND OUTER COMPONENT. USE NEGATIVE VALUE FOR OUTER TO EXTEND BEYOND INNER.

NOTE DIM D IS APPROX. 53MM FOR QUADAXIAL DESIGN.

9. DIM E \_\_\_\_\_ MM (MIN 25MM FOR STYLE A; MIN 5MM FOR B; MAX 120MM; N/A FOR STYLE D)
  10. DIM F\* \_\_\_\_\_ MM (MIN 2MM; RECOMMENDED 10-25MM); \*MAX 60MM IF ALL GAUGES ARE EVEN; 15MM MAX IF ANY GAUGE IS ODD)
  11. ADD BEVELED TIP? \_\_\_\_\_ (Y OR N) (EXTRA COST)
- DISASSEMBLY OPTION FOR CLEANING IS STANDARD.
- ANY ADDITIONAL SPECIAL REQUIREMENTS?  
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**raméhart instrument co.**

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TOLERANCES UNLESS OTHERWISE NOTED	
0.00±0.010in (0.25mm) 0.000±0.005in (0.127mm) ANGLES ±0°30'	
DRAWN BY	CHECKED
CC	WA
DATE	9-DEC-2020
SCALE	NTS

TITLE	DWG NO	REV
QUADAXIAL	100-10-QUADAXIAL	J
CUSTOM QUADAXIAL NEEDLE		

THE CURRENT VERSION OF THIS WORKSHEET CAN BE FOUND  
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