

# Interchange Guide

NOOK MINIATURE LINEAR GUIDE TO THOMSON MICROGUIDE PROFILE RAIL INTERCHANGE SHEET	
NOOK MINIATURE LINEAR GUIDES	THOMSON MICROGUIDE
<p><b>Nook Assembly Part Number</b></p> <p>NMR 15 WN EE 2 V1 N 350 15 15 II            1 2 3 4 5 6 7 8 9 10 11 12 13</p>	<p><b>Thomson Assembly Part Number</b></p> <p>2 TSR 15 WZ M UU C1 +350 P Y=15            6 1 3 4 14 5 7 15 9 8 11</p>

NOOK	THOMSON MICROGUIDE
<b>1. TYPE</b>	
Assembly - NMR	Assembly - TSR
<b>2. RAIL TYPE</b>	
U blank	N/A standard
<b>3. SIZE</b>	
2	N/A
3	N/A
5	5
7	7
9	9
12	12
15	15
<b>4. BLOCK TYPE</b>	
MN ML (size 9,12,15) WN (size 5,7) WN WL	Z N/A (size 9,12,15) WZ N/A N/A
<b>5. SEAL TYPE</b>	
SS ZZ SU ZU EE EZ EU UZ SUE ZUE	UU (standard) N/A N/A N/A N/A N/A N/A N/A N/A N/A
<b>6. NUMBER OF CARRIAGES</b>	
# blocks	# blocks
<b>7. PRELOAD</b>	
V0 VS V1	N/A blank (standard) C1
<b>8. ACCURACY</b>	
N P H	blank (standard) P H

NOOK	THOMSON MICROGUIDE
<b>9. LENGTH</b>	
Length	Length
<b>10. Y2'</b>	
Y2	Not included in part number. Will be a result of length and Y1.
<b>11. Y1'</b>	
Y1	Y1
<b>12. NUMBER OF RAILS PER AXIS</b>	
# paired rails	No options. Interchangeable series only.
<b>13. CUSTOMIZATION CODE</b>	
J - Butt Joint B - Special block C3/C4 - Plugs for holes on rail R - Special rail S - Special straightness G - Customer-specified lube GN - No lube GC - Low dust/clean room I - Inspection Report	Contact for special quote.
<b>14. MATERIAL</b>	
No option (stainless steel)	M (stainless steel)
<b>15. BALL RETENTION</b>	
No option	Non-retained balls H = retained balls

1. Y = Distance from end of rail to center of first mounting hole, Y1 = Y2 unless specified

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NOOK STANDARD PROFILE BALL RAIL TO THOMSON 400 SERIES PROFILE RAIL INTERCHANGE SHEET	
NOOK STANDARD PROFILE BALL RAIL	THOMSON 400 SERIES
<b>Nook Assembly Part Number</b> NH $\frac{15}{1}$ LEA $\frac{B1}{2}$ T1 $\frac{750}{3}$ C3 $\frac{W1}{4}$ -FCS $\frac{9}{5}$	<b>Thomson Assembly Part Number</b> 441 H $\frac{15}{1}$ B $\frac{0}{2}$ D $\frac{1}{3}$ A $\frac{D}{4}$ 750 Y=15 $\frac{13}{5}$
<b>Nook Carriage Part Number</b> NH $\frac{25}{1}$ LEA $\frac{3}{2}$	<b>Thomson Carriage Part Number</b> 411 N $\frac{25}{1}$ B $\frac{0}{2}$ $\frac{3}{3}$ $\frac{5}{4}$
<b>Nook Rail Part Number</b> NH $\frac{45}{1}$ -1500 $\frac{C7}{6}$ $\frac{7}{7}$	<b>Thomson Rail Part Number</b> 421 N $\frac{45}{1}$ A $\frac{1500}{6}$ Y=67.5 $\frac{13}{7}$

NOOK	THOMSON 400 SERIES
<b>1. PRODUCT</b>	
Assembly - NH, NU Carriage - NH, NU Rail - NH, NU	Assembly - 441 Carriage - 411 Rail - 421
<b>2. SIZE</b>	
15 20 25 30 35 45 55 65	15 20 25 30 35 45 55 N/A
<b>3. CARRIAGE TYPE</b>	
EA LEA EB LEB 20ER* ER LER TA TB TR NU(20&25)ER* NU-ER NU-SER	A B A B C* E F A A E K* C G
* is the exception to the rule below it	
<b>4. NUMBER OF CARRIAGES</b>	
B1 B2	1 2
<b>5. PRELOAD</b>	
T T0 T1 T2 T3	N/A 0 1 N/A N/A
<b>6. LENGTH</b>	
-750	750
<b>7. ACCURACY</b>	
C7 C5 C3 C1 C01 C001	N N H N/A N/A N/A

NOOK	THOMSON 400 SERIES
<b>8. NUMBER OF RAILS PER SYSTEM AXIS</b>	
W1 W2	N/A N/A
<b>9. MODIFICATION LIST</b>	
J - Butt Joint G - Customer Lubricant I - Inspection Report C - Chrome on Carriage & Rail F - Mounting Hole Plugs S - Standard M - Modified	JT - Requires Quote GS - Requires Quote N/A D - In Both Slots 10 & 12 Below Provided as Standard N/A SM - Requires Quote
<b>10. CARRIAGE OPTIONS</b>	
See catalog for all available accessories, coatings and value-added machining that can be provided from the factory.	
<b>11. RAIL TYPE</b>	
No Option	A
<b>12. RAIL OPTIONS</b>	
See catalog for all available accessories, coatings and value-added machining that can be provided from the factory.	
<b>13. RAIL Y1<sup>1</sup></b>	
No Option	Default Value (centered)

1. Y = Distance from end of rail to center of first mounting hole, Y1 = Y2 unless specified

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NOOK NARC/NHRC CAGED BALL PROFILE RAIL SERIES TO THOMSON 400 SERIES PROFILE RAIL INTERCHANGE SHEET	
NOOK NARC/NHRC CAGED BALL PROFILE RAIL	THOMSON 400 SERIES
<b>Nook Assembly Part Number</b> NARC E 15 ML B 2 ZC VC N 1480L 20 20 W1 S 1 2 3 4 5 6 7 8 9 10 11 12 13 14	<b>Thomson Assembly Part Number</b> 443 N 15 C 0 -2 A 1480 Y=20 1 9 3 4 8 15 6 2 16 10 11
<b>Nook Carriage Part Number</b> NARC 25 LEA 1 3 4	<b>Thomson Carriage Part Number</b> 413 N 25 B 0 1 9 3 4 8 15
<b>Nook Rail Part Number</b> NARC E 15 1480L 20 20 1 2 3 10 11 12	<b>Thomson Rail Part Number</b> 421 N 15 A 1480 Y=20 1 9 3 2 16 10 11

NOOK	THOMSON 400 SERIES
<b>1. PRODUCT</b>	
Assembly - NARC, NHRC Carriage - NARC, NHRC Rail - NARC, NHRC	Assembly - 443 Carriage - 413 Rail - 421
<b>2. RAIL TYPE</b>	
U E	U A
<b>3. SIZE</b>	
15 20 25 30 35 45 55	15 20 25 30 35 45 55
<b>4. CARRIAGE TYPE</b>	
NARC	15 FN N/A 15 FS N/A 15 MN C 15 MS G 20 FN N/A 20 FS N/A 20 MN K 20 MS G 25 FN N/A 25 FS N/A 25 MN K 25 MS G 30 FN N/A 30 FS N/A 30 ML D 30 MN C 30 MS G 35 FN N/A 35 ML D 35 MN C 45 ML B 45 MN C 55 MN C
NHRC	15 FN A 15 MN E 20 FL B 20 FN A 20 ML F 20 MN C 25 FL B 25 FN A 25 ML F 25 MN E 30 FL B 30 FN A 30 ML F 30 MN E 35 FL B 35 FN A 35 ML F 35 MN E 45 FL B 45 FN A 45 ML F 45 MN E 55 FL B 55 MN E

NOOK	THOMSON 400 SERIES
<b>5. SEAL TYPE</b>	
B S	Standard N/A
<b>6. NUMBER OF CARRIAGES</b>	
2	2
<b>7. LUBRICATION STORAGE PAD</b>	
ZC	N/A
<b>8. PRELOAD</b>	
VC V0 V1 V2	0 1 N/A N/A
<b>9. ACCURACY</b>	
N P SP UP H	N N/A N/A N/A H
<b>10. RAIL LENGTH</b>	
1480L	1480
<b>11. RAIL Y1<sup>1</sup></b>	
20	20
<b>12. RAIL Y2<sup>1</sup></b>	
20	N/A (not specified in part #)
<b>13. NUMBER OF RAILS PER SYSTEM AXIS</b>	
W1 W2	N/A N/A
<b>14. MODIFICATION LIST</b>	
J - Butt Joint G - Customer Lubricant I - Attached Inspection Report C - Hard Chrome Coating CR - Chrome Rail Only S - Standard M - Special Machined	JT - Requires Quote GS - Requires Quote N/A D - In Both Slots 17 & 18 Below D - In Slot 18 Below N/A SM - Requires Quote
<b>15. CARRIAGE OPTIONS</b>	
See catalog for all available accessories, coatings and value-added machining that can be provided from the factory.	
<b>16. RAIL OPTIONS</b>	
See catalog for all available accessories, coatings and value-added machining that can be provided from the factory.	

1. Y = Distance from end of rail to center of first mounting hole, Y1 = Y2 unless specified