

PRODUCT CATALOGUE

INDEX

1. Ordering information.
 2. Order Form
 3. Wheels, axles, bearings.
 4. NZR bogies, bogie hardware and **mechanisms - enquiries welcome.**
 5. Fastenings, drills, taps, dies, reamers, crankpins
 6. **Motors - currently unavailable**, shaft bushings, flywheels.
 7. Gearing, drive shafts, universal joints.
 8. Materials: Brass, Nickel silver sheet and wire, silver steel, BMS, SS
 9. Detail parts, chain, handrail posts.
 10. Miscellaneous: **NZR Paint**, (Page 10)
Romford axles, pin vices, NMRA gauges, hookup wire,
driver springs, sound cams, Serv-O-Link chain and sprockets.
- NEW PRODUCTS: ETCHED BRASS- Diamond Grill, Square Grill & Treadplate** (page 9)

NORTH YARD began in 1978 and is a manufacturing / wholesaling business dealing in a range of Model Railway Parts, small fastenings, miniature motors, gearboxes and other Model Engineering materials and was developed as a hobby by the late Graham Selman.

In 2010 the business was sold to Rodger and Christina Cullen and is based in Blenheim, New Zealand. North Yard is operated on a **part time basis**.

We have a website, new items and ongoing enhancements are taking place as we work towards downloading photos etc. Items selected by going through to the shopping cart will be notified to us and a quote will be sent. **Website: www.northyard.co.nz**

NORTH YARD products are available from a number of hobby shops and mail order suppliers. If you have difficulty in obtaining supplies locally, you can order direct from NORTH YARD. There is no published price list available but you can contact us by email, fax or telephone and we can give you prices on request. **ALL STOCK SUBJECT TO AVAILABILITY.**

Payment Options: New Zealand customers can pay by personal cheque, internet funds transfer, VISA or MasterCard. Overseas customers payment can be made using VISA or MasterCard and we now also accept payment using PayPal.

Postage and Handling: We send our consignments via a courier / track and trace system to New Zealand customers unless otherwise specified. Cost will depend on size and weight. For our overseas customers consignments and prices will vary according to weight and size of package being sent. Overseas orders exceeding \$NZD250.00 are required to be sent by International Economy Courier or International Air Insured Post.



PRODUCT CATALOGUE

WHEELS

NORTH YARD insulated wheels have acetal centres with plated brass tyres. Unless stated otherwise, tyre profiles and wheel sets conform to NMRA standards RP25/code 110 and RP24.2 HO scale, 16.5mm gauge. Most are 1:64 NZR wheel replicas, but also suit other applications.

DRIVING WHEEL SETS RP25/110 insulated, with 3mm axles. Crankpin holes not tapped.

110	14.3	10 sp	F 0-6-0 etc
116	15.7	10 sp	no cwt Wa, Wb
106	16.8	12 sp	Bb 4-8-0
117	17.8	12 sp	no cwt C, Wf, X
154	17.8	12 sp	Ww 4-6-4T
155	19.5	12 sp	no cwt Aa, Uc
156	21.4	12 & 14 sp	A 4-6-2
100	21.4	12 sp	Ab 4-6-2
101	21.4	12 sp	K 4-8-4
111	21.4	14 sp	J 4-8-2

DRIVING WHEELS, INSULATED, SPOKED
 RP25/110 Nickel plated brass tyres, 1.2mm crankpin hole (not tapped).

2038	10.5 x 2.0	10 sp	no cwt
268	12.0 x 2.0	8 sp	Dubs A
2789	14.0 x 2.0	13 sp	NSW Z19
238	14.3 x 3.0	10 sp	F
510	14.3 x 3.0	10 sp	Baldwin
511	14.3 x 3.0	10 sp	B'w no flange
252	15.7 x 3.0	10 sp	Wa Wb
2838	15.7 x 3.0	10 sp	SCOA-P Ds
293	16.8 x 3.0	12 sp	Bb main
294	16.8 x 3.0	12 sp	Bb l/i/t
2170	16.8 x 3.0	12 sp	Bw pin on sp
2029	17.8 x 3.0	10 sp	no cwt
254	17.8 x 3.0	12 sp	C Wf X
361	17.8 x 3.0	12 sp	Ww main
363	17.8 x 3.0	12 sp	Ww lead/trail
2132	17.8 x 3.0	12 sp	SPNG#8
2120	17.8 x 3.0	10 sp	Eo electric
2663	19.0 x 3.0	11 Y	sp ASG
355	19.5 x 3.0	12 sp	no cwt Aa, Uc
263	21.4 x 3.0	14 sp	A simple main
262	21.4 x 3.0	12 sp	A simple lead
264	21.4 x 3.0	12 sp	A simple trail
205	21.4 x 3.0	12 sp	Ab main
206	21.4 x 3.0	12 sp	Ab lead & trail
207	21.4 x 3.0	12 sp	K main
208	21.4 x 3.0	12 sp	K intermed
209	21.4 x 3.0	12 sp	K lead & trail
226	21.4 x 3.0	14 sp	J main
227	21.4 x 3.0	14 sp	J intermed
228	21.4 x 3.0	14 sp	J lead & trail
2792L	22.6 x 3.0	15 sp	G stainl tyre

CHASSIS / MECHANISM SPACER BLOCKS
 Injection moulded acetal, suit M1.4 screws

584	Spacer block 11.2 x 9 Ø1.7 hole
399	Spacer block 11.2 x 9 M2 tapped
2039	Spacer block 7.15 x 9 Ø1.7 hole
438	Spacer block 7.15 x 9 M2 tapped
2785	Bearing block 11.2 x 9 Ø4 hole
2784	Bearing block 11.2 x 9 Ø2 brg
2787	Bearing block 7.15 x 9 Ø4 hole
2786	Bearing block 7.15 x 9 Ø2 brg
2024	Pivot block 11.2x5/Ø7 Ø1.7 hole
405	Pivot block 11.2 x 5/Ø7 M2 tap'd
2025	Pivot block 7.15x5/Ø7 Ø1.7 hole
507	Pivot block 7.15 x 5/Ø7 M2 tap'd

WAGON AND BOGIE WHEEL PAIRS

16.5mm gauge RP25/110 profile, blackened brass tyres and pinpoint axles.

(wheel pair = 2 wheels and 1 axle)

Code suffix indicates axle length, as follows:

26mm	NMRA and British standard
25mm	shorter option
23.8mm	available but non-preferred
e.g.	232.25, 316.26

290	9.5	4 hole disc
313	9.5	disc
234	10.5	4 hole disc
236	10.5	8 spoke
518	10.5	8 spoke (heavy)
287	10.5	10 spoke
316	10.5	disc
381	11.08	9 spoke
232	12.0	8 spoke
233	12.0	9 spoke
235	12.0	2 hole disc
288	12.0	split 6 spoke
272	13.0	9 spoke
2020	13.0	disc
251	14.3	10 spoke
463	14.3	disc

For flush axles, order wheels from the list below, and axles from the "Axles" section.

SINGLE WHEELS for rolling stock, tenders

RP25/110 plated brass tyres, plastic centres
 2mm bore, B = black nickel; N = satin nickel

2163B	8.0	7 curved spoke /88
2273B	9.5	4 hole disc
2311B	9.5	disc
2311N	9.5	disc
2632B	10.0	8 spoke (heavy)
2333B	10.5	disc
2333N	10.5	disc
2214B	10.5	8 spoke (heavy)
2214N	10.5	8 spoke (heavy)
2331B	10.5	8 spoke
2329B	10.5	10 spoke
2484B	11.08	2 hole disc
2482B	11.08	8 spoke
2380B	11.08	9 spoke
2380N	11.08	9 spoke
2493B	11.5	2 hole disc
2489B	11.5	8 spoke
2491B	11.5	9 spoke
2197B	12.0	disc
2213B	12.0	2 hole disc
2359B	12.0	split 6 spoke
2211B	12.0	8 spoke (heavy)
2357B	12.0	8 spoke
2212B	12.0	9 spoke
2018B	13.0	disc
2018N	13.0	disc
2270B	13.0	9 spoke
2461B	14.3	disc
2249B	14.3	10 spoke

COUNTERWEIGHT SETS for driving wheels

Brass castings, locating over spokes

CWS2803 Garrett loco / 2792 wheel



DISC WHEELS, INSULATED (plastic centre)
 RP25/110 NP brass tyres.

256	12.0 x 3.0
524	13.0 x 3.0
300	14.3 x 3.0
302	15.7 x 3.0

DISC WHEELS, UNINSULATED (metal)
 RP25/110 Solid brass, NP etc

335	9.5 x 2.0
2063	10.5 x 2.0
2645	10.5 x 2.98
2193	12.0 x 2.03
258N	12.0 x 2.98
526N	13.0 x 2.98
480N	14.3 x 2.37 fit Athearn 3/32" axl
400N	14.3 x 2.98
400L	14.3 x 2.98 stainless
401N	15.7 x 2.98
401L	15.7 x 2.98 stainless
2191	Insulating bush Ø3 x Ø2 x 2.77

O GAUGE WAGON & BOGIE WHEEL PAIRS

NY215 profile 3.5mm wide blackened brass tyres on plastic centres. Blackened steel axles are 50mm long with Ø2 pinpoint ends.

247	22.5	split 6 spoke
248	22.5	2 hole disc
297	22.5	8 spoke
284	22.5	9 spoke
2064	25.4	disc

O GAUGE DRIVING WHEELS, INSULATED

NY277 profile 4.1mm wide stainless tyre.

278L	27.0 x 5.0	10 spoke F loco
2850	27.0 x 3.1	disc English Electric
2852	29.8 x 3.1	disc Da loco

AXLES for locomotives and rolling stock

2844	Ø1.2 x 19.6	blunt, stainless
2195	Ø2.03 x 17.9	blunt, black brass
202	Ø2.03 x 20	blunt, black brass
2196	Ø2.03 x 24	blunt, black brass
2189	Ø2.03 x 26	blunt, black brass
469	Ø2.03 x 28	blunt, black brass
2175	Ø2.03 x 32	blunt, black brass
470	Ø2.03 x 20	pinpoint, black brass
409	Ø2.03 x 23.8	pinpoint, blk brass
367	Ø2.03 x 25	pinpoint, black brass
201	Ø2.03 x 26	pinpoint, black brass
471	Ø2.03 x 28	pinpoint, black brass
315	Ø3 x 17.9	stainless, knurled ctr
200	Ø3 x 20	stainless
314	Ø3 x 20	stainless, knurled at ctr
486	Ø3 x 26	stainless, knurled at ctr
2481	Ø3 x 30	stainless
203	Ø3.2 x Ø2 x 50pp	steel (O ga)
280	Ø5 x 37.2	stainless (O gauge)
428	Ø2 x Ø3 x 20	shouldered, stainl

AXLE BEARINGS retail packs

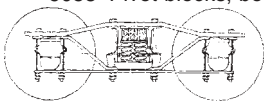
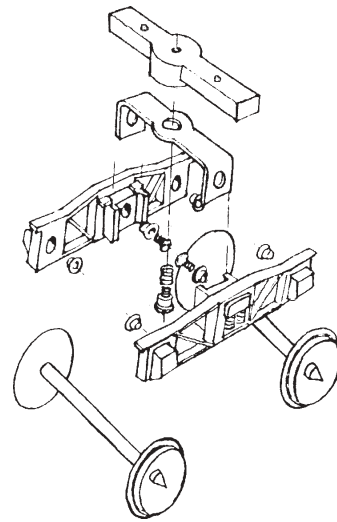
204/50	Ø2 pinpoint brass	(50)
204/100	Ø2 pinpoint brass	(100)
475/40	Ø2.2 x Ø4 flanged brass	'O' gauge (40)
379/8	Ø3xØ4x3 flanged brass	(8)
373/8	Ø3x5sqx2.8 sintered bronze	(8)
2816	Ø4.76x8sqx5 brass	(1)
260/8	Ø5xØ7x5.5 flngd brass	(8)

The NORTH YARD bogie programme aims to produce a range of high quality bogies for NZR rolling stock and locomotives in Sn3½ scale. The bogies feature equalized brass side frames, screwdriver assembly and include all the parts illustrated in the diagram. Two bogies are supplied per pack.

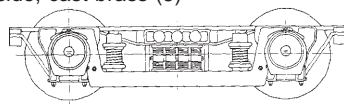
A jeweller's saw should be used to cut the side frames from the casting sprue, then clean up with small files. Assembly is by screwdriver, with all necessary holes being pre-drilled and tapped. Equalizing : NORTH YARD bogies are designed to equalize about their pivot screws, with a small amount of movement provided between the stretcher ends and the mounting boss on the rear face of the bogie side. File the mounting boss to provide additional clearance if required.

BOGIE HARDWARE available separately

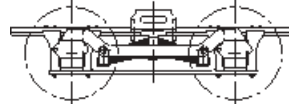
- 365 Stretcher, 18mm wide, brass
- 371 Shouldered bush Ø2 x Ø3, plastic
- 325 Shoulder screw Ø3 x 3 / M2 x 6 brass
- 326 Shoulder screw Ø3 x 3 / M2 x 3, brass
- 324 Spring 3.1 I.D. x 4 long x 0.315 wire, stainless (standard)
- 2186 Spring 3.1 I.D. x 4 long x 0.25 wire, stainless (light)
- 339 Bolster Ø7 x 4.0 plastic, not tapped
- 340 Bolster Ø7 x 5.5 plastic, not tapped
- 341 Bolster Ø7 x 7.2 plastic, not tapped
- 6058 Pivot blocks, bogie side, cast brass (8)



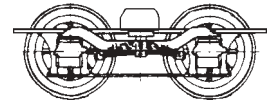
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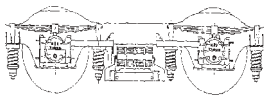
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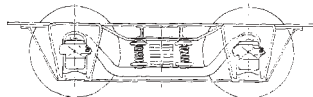
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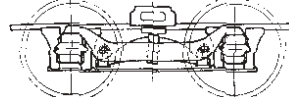
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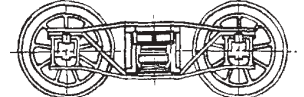
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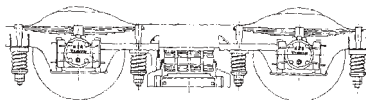


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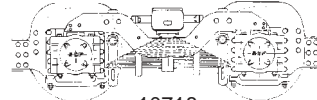


BLW3477

Note: Drawings are a basic artist impression. They are not to scale and should be used as a guide only.



25330



10718

	PART NO.	TYPE	PROTOTYPE WHEELBASE	WHEELS	PINPOINT AXLE LENGTH	RAIL TO TOP OF STRETCHER	APPLICATIONS
	B3181	Freight	4' 7½"	12mm split spoke	26mm	9.5mm	Rb 1-4; Ua 5; Ub 1-3; Uc 1-5, 7, 8, 10; Vb 1-5; Z 9-12
	B25830-C	Freight (Cast Steel)	4' 9"	12mm 2 hole disc	26mm	9.5mm	Rb 5; Yd, some other post - 1960
	B7781-I	Car (Isothermos axleboxes)	6' 0"	12mm 2 hole disc	26mm	9.5mm	50' Suburban Cars
	B1656	Car	4' 10"	12mm split spoke	25mm	9.5mm	44' Cars; some 47½' Cars; numerous brake vans
	B25330	Car	6' 0"	12mm 2 hole disc	26mm	9.5mm	56' Cars and vans; some 50' cars; some Z wagons
	BLW1512	Tender	3' 10"	11.2mm 8 spoke	26mm	9.2mm	Q and Ub locos
	B3712	Tender	4' 6"	12mm 9 spoke	26mm		Bb locos
	B3712A	Tender	4' 6"	12mm 9 spoke	26mm	9.5mm	A, X and some Q locos
	BLW3477	Tender	5' 0"	12mm 9 spoke	26mm	10.5mm	Aa locos
	B10718	Tender	5' 0"	12mm 9 spoke	26mm	10.8mm	K, Ka and Kb locos

Note: Tender bogies are supplied without wheels. Choose wheels required as below:

- 2162.26 11.2mm 8 spoke 26.0 pinpoint axle, both wheels insulated.
- 233.26 12.0mm 9 spoke 26.0 pinpoint axle, both wheels insulated.
- 2718.26 12.0mm 9 spoke 26.0 pinpoint live axle, nickel silver tyres.

See DETAIL PARTS page for more bogie castings. Locomotive, tender and rolling stock bogies, castings only, requiring more work and extra parts to assemble than the bogie kits listed above.

MECHANISMS: ENQUIRIES WELCOME
 Manufactured to order from our range.

MACHINE SCREWS, STEEL CSK Pk of 20

201403	M1.4 x 3	csk pozi NP
201608	M1.6 x 8	csk slot ZP
201612	M1.6 x 12	csk slot ZP
201616	M1.6 x 16	csk slot ZP
202004	M2 x 4	csk slot ZP
202006	M2 x 6	csk slot ZP
202012	M2 x 12	csk slot ZP
202016	M2 x 16	csk slot ZP
203012	M3 x 12	csk slot ZP
203025	M3 x 25	csk slot ZP

MACHINE SCREWS, STEEL PAN / CHEESE Packs of 20

211003	M1 x 3	pan pozi black
211004	M1 x 4	pan pozi black
211005	M1 x 5	pan pozi ZP
211403	M1.4 x 3	pan pozi black
211405	M1.4 x 5	pan pozi black
211606	M1.6 x 6	pan Phillips ZP
211608	M1.6 x 8	cheese slot ZP
211612	M1.6 x 12	cheese slot ZP
211616	M1.6 x 16	cheese slot ZP
211620	M1.6 x 20	cheese slot ZP
212004	M2 x 4	cheese slot ZP
212006	M2 x 6	cheese slot ZP
212008	M2 x 8	cheese slot ZP
212012	M2 x 12	cheese slot ZP
212016	M2 x 16	cheese slot ZP
212020	M2 x 20	cheese slot ZP
212030	M2 x 30	cheese slot ZP
213012	M3 x 12	pan slot ZP
213025	M3 x 25	pan slot ZP

MACHINE SCREWS, BRASS CSK Pk of 20

272012	M2 x 12	csk slot
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MACHINE SCREWS, BRASS CHEESE Pk 20

282003	M2 x 3	cheese slot
282004	M2 x 4	cheese slot
282006	M2 x 6	cheese slot
282012	M2 x 12	cheese slot

SELF TAPPING SCREWS Packs of 20

Phillips drive, pointed end

ST2205	Ø2.2 x 4.8	steel pan ZP
ST2206	Ø2.2 x 6.3	steel pan ZP
ST2210	Ø2.2 x 9.5	steel pan ZP
ST2213	Ø2.2 x 12.7	steel pan ZP
ST2225	Ø2.2 x 25.4	steel pan ZP

WOODSCREWS, BRASS Packs of 20

291610	Ø1.6 x 10	csk slot
291813	Ø1.8 x 13	csk slot
292006	Ø2 x 6	csk slot
292010	Ø2 x 10	csk slot
231610	Ø1.6 x 10	round slot
232006	Ø2 x 6	round slot
232010	Ø2 x 10	round slot

CRANKPINS, brass ZP sold per each

Size is shoulder dia x length

All crankpins have M1.4 thread

261435	Ø1.4 x 3.5	2.0 hex ZP
261470	Ø1.4 x 7.0	2.5 hex ZP
261610	Ø1.6 x 1.0	2.5 hex ZP
261615	Ø1.6 x 1.5	2.5 hex ZP
262015	Ø2.0 x 1.5	2.5 hex ZP
262020	Ø2.0 x 2.0	2.5 hex ZP
262035	Ø2.0 x 3.5	2.5 hex ZP
262050	Ø2.0 x 5.0	headless
286	Ø2.0 x Ø1.4 x 4	bush

NOTE: 261470 and 286 can be used as the main crankpin on locos with outside valve gear. Coupling and connecting rods fit over bush; eccentric crank is clamped between crankpin head and top of bush.

HEXAGON NUTS - ISO hex Packs of 20

24010	M1	Brass
24014	M1.4	Brass
24116	M1.6	Steel ZP
24020	M2	Brass
24120	M2	Steel ZP
24130	M3	Steel ZP

HEX HEAD BOLTS, STEEL Packs of 20 ISO standard hex head

2123012	M3 x 12	5.5 hex
2123025	M3 x 25	5.5 hex

MODEL ENGINEERING BOLTS, STEEL Packs of 10

2131612	M1.6 x 12	2.5 hex
2132015	M2 x 15	3.0 hex
2132515	M2.5 x 15	3.5 hex
2133015	M3 x 15	4.0 hex

MODEL ENGINEERING NUTS, STEEL Packs of 10

24316	M1.6	2.5 hex
24320	M2	3.0 hex
24325	M2.5	3.5 hex
24330	M3	4.0 hex

MODEL ENGINEERING BOLTS, BRASS Packs of 20

221404	M1.4 x 4	2.5 hex
221405	M1.4 x 5	2.5 hex
221410	M1.4 x 10	2.5 hex

WASHERS FOR SCREWS Packs of 20

25011	M1 x 2.5 x 0.3	Brass
25111	M1 x 2.5 x 0.3	Steel ZP
25116	M1.4 x 3.0 x 0.3	Brass
25216	M1.4 x 3.0 x 0.3	Steel ZP
25017	M1.6 x 4.0 x 0.3	Steel ZP
25123	M2 x 5.0 x 0.3	Brass
25122	M2 x 5.0 x 0.3	Steel ZP

WASHERS - OTHER Packs of 20

25020	Ø2.0 x Ø3.0 x 0.25	Bronze
25021	Ø2.1 x Ø6.0 x 0.8	Acetal
25022	Ø2.0 x Ø4.5 x 0.5	Brass
25024	Ø2.4 x Ø4.4 x 0.25	Bronze
25030	Ø3.0 x Ø5.7 x 0.25	Plastic
25130	Ø3.0 x Ø5.7 x 0.5	Plastic
25051	Ø5.1 x Ø8.0 x 0.25	Plastic

DOWEL PINS - STAINLESS STEEL T303

h8 tolerance (+0 / -0.014) sold per each

Useful for shafts, axles, pins and a good source of free machining stainless steel in small sizes. Each end has a small chamfer.

DPA1h8.01510	Ø1.5 x 10
DPA1h8.01520	Ø1.5 x 20
DPA1h8.02006	Ø2.0 x 6
DPA1h8.02010	Ø2.0 x 10
DPA1h8.02020	Ø2.0 x 20
DPA1h8.02025	Ø2.0 x 25
DPA1h8.03006	Ø3.0 x 6
DPA1h8.03020	Ø3.0 x 20

SPACERS sold per each

286	Ø2 x Ø1.4 x 4.0	brass
2078	Ø3 x Ø2.1 x 1.0	brass
2079	Ø3 x Ø2.1 x 8.0	brass
517	Ø3 x Ø2.1 x 9.0	brass
2069	Ø5 x Ø3.1 x 0.9	acetal
2070	Ø5 x Ø3.1 x 1.2	acetal
487	Ø5 x Ø3.1 x 3.0	acetal
403	Ø5 x Ø3.1 x 3.8	acetal
372	Ø6 x Ø2.1 x 8.5	acetal

BRASS THREADED ROD 300mm

TRB.2	M2 Thread
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DRILLS - High Speed Steel

3303	0.3mm	3317	1.7mm
3304	0.4mm	3318	1.8mm
3305	0.5mm	3319	1.9mm
3306	0.6mm	3320	2.0mm
3307	0.7mm	3321	2.1mm
3308	0.8mm	3322	2.2mm
3309	0.9mm	3323	2.3mm
3310	1.0mm	3324	2.4mm
3311	1.1mm	3325	2.5mm
3312	1.2mm	3326	2.6mm
3313	1.3mm	3327	2.7mm
3314	1.4mm	3328	2.8mm
3315	1.5mm	3329	2.9mm
3316	1.6mm	3330	3.0mm

CENTRE DRILLS - High Speed Steel

Double ended, 60° included angle. Size is point diameter x body diameter.

CD05	0.5 x 3.15mm
CD08	0.8 x 3.15mm
CD10	1.0 x 3.15mm
CD16	1.6 x 4.0mm
CD20	2.0 x 5.0mm



TAPS - Carbon Steel I.S.O. Metric Coarse Thread. Intermediate lead usually supplied.

3010	M1
3014	M1.4
3016	M1.6
3020	M2
3030	M3
3040	M4
3050	M5

CIRCULAR DIES I.S.O. Metric Coarse Thread. Usually 13/16" (20.64mm) body dia.

3110	M1	high speed steel
3114	M1.4	high speed steel
3116	M1.6	high speed steel
3120	M2	carbon steel
3130	M3	carbon steel
3140	M4	carbon steel
3150	M5	carbon steel

REAMERS - High Speed Steel

RHM.02	2.0 Parallel Hand Reamer
RHM.024	2.4 Parallel Hand Reamer
RHM.03	3.0 Parallel Hand Reamer
RHM.05	5.0 Parallel Hand Reamer
RHI.125	1/8" Parallel Hand Reamer

I.S.O. METRIC THREAD DATA

SIZE	PITCH	TAP DRILL SIZE			NUT ACR HEX	CH. HEAD DIA.	CSK HEAD DIA.
		%	THREAD				
M1	0.25	0.75	0.8	0.85	2.5	2.0	2.0
M1.4	0.30	1.1	1.2	1.2	3.0	2.6	3.0
M1.6	0.35	1.25	1.3	1.4	3.2	3.0	3.5
M2	0.40	1.6	1.7	1.8	4.0	3.8	4.4
M2.5	0.45	2.05	2.15	2.25	5.0	4.5	5.0
M3	0.50	2.5	2.6	2.7	5.5	5.0	6.0
M4	0.70	3.3	3.4	3.6	7.0	7.0	8.0
M5	0.80	4.2	4.4	4.6	8.0	8.0	10.0

Choose a drill size to give 75% thread or less for most applications. This will prolong the life of the tap while still giving a strong thread. A 90% thread can be used in thin or soft materials and special applications.

CURRENTLY UNAVAILABLE

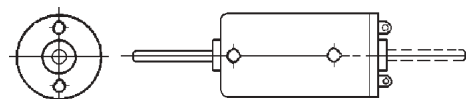
MOTORS

	North Yard Code	Maker's Code	Make	Style	Body Dimensions			Shaft(s)		End Screws		Side Screws		No Load		Maximum Power			
					Width	Length	Height	Dia	Lengths	Size	Ctrs	Size	Inset Ctrs	Amps	RPM	Amps	Watts	RPM	
	NW1025FD	10253-9	NWSL	FC	10	25	12	1.2	17/17	M1.4	8	---	---	---	0.044	17,000	0.25		
	NW2032FD	2032D-9	NWSL	FC	14.4	32	20.3	2.0	15/15	M2	12.4	---	---	---	0.06	9,500	0.40	3.29	
	NW2231D	22313-9	NWSL	RC	22	31	...	2.4	18/18	M2	15	M2	2.2	20	0.090	9,900	0.50		
X	NW2236D	No Longer	available																
X	NW2240D	No longer	available																
	NW2940D	29401-9	NWSL	RC	29	40	---	2.4	24/24	M2.6	19	M2	5	20		6,300	0.60		
	NW2930	29301-9	NWSL	RC	29	30	---	2.4	17/17	M2		---	---	---		8,500			
	MA1015D	MHK-1015	Mashima	FC	10.2	15	12	1.5	9/9	M1.4	8.5	---	---	---	0.070	16,000		0.35	7,500
	MA1020D	MHK-1020	Mashima	FC	10.2	20	12	1.5	9/9	M1.4	8.5	---	---	---	0.060	15,000		0.68	7,500
	MA1024OD	M-24FD-10	Mashima	OF	10.4	24	15	1.5	10/10	M1.4	8	---	---	---	0.85	25,000		1.40	12,000
	MA1224FD	MH-1224	Mashima	FC	12	24	14	1.5	10/10	M1.4	8/8	---	---	---	0.040	12,000		0.48	8,000
	MA1620FD	MH-1620	Mashima	FC	13.6	20.5	15.8	2.0	10/10	M1.4/M2	8/10	---	---	---	0.070	17,500	0.35	1.16	8,000
	MA1626FSL	MH-1626L	Mashima	FC	13.6	26.5	15.6	2.0	19/9	M1.4/M2	8/10	---	---	---	0.070	15,000	0.40	2.03	7,500
	MA1630FD	MH-1630	Mashima	FC	13.6	30	15.8	2.0	10/10	M1.4/M2	8/10	---	---	---	0.060	11,800	0.45	1.76	6,000
(**)	MA1824FD	MH-1824	Mashima	FC	18.4	24	23.2	2.0	8.5/8.5	M2	12	---	---	---	0.080	9,200		1.80	5,000
(**) Note: MA 1824	Limited stocks	Once current	Stocks sold	No	longer	being	made												
	MA1830FD	MH-1830	Mashima	FC	18.4	30	23.2	2.0	10/10	M2	12	---	---	---	0.046	11,000		3.80	6,500
	MA1833FD	MH-1833	Mashima	FC	18.4	33	23.2	2.0	10/10	M2	12	---	---	---	0.044	9,760		3.10	6,000

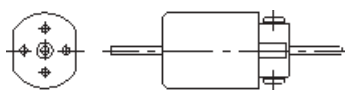
OF = Open Frame RC = Round Can FC = Flat Can

Inset = Distance of first side mount hole from front of motor (some NWSL motors only)

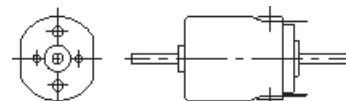
(**) MA1824 no longer being made by Mashima - once current stocks sold they will not be available again.



NWSL Round Can Motors



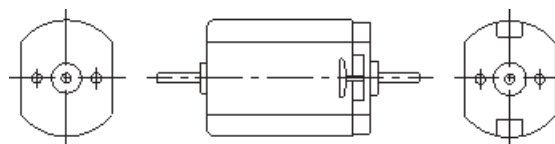
Mashima MH-1224



Mashima MH-1620

NOTES:

- Motor shafts are hardened steel, and if they need to be shortened, an abrasive cut-off disc must be used. Use eye protection.
- Mounting screws are supplied with each motor. See FASTENING list for other lengths of screws. Install screws with care, making sure they do not bottom on any internal parts of motor.
- Use maximum safe continuous RPM when calculating reduction ratios for model top speed.
- As a general rule, choose the biggest motor that will fit.
- North Yard stocks motors from NWSL and Mashima. NWSL motors are permanently sealed, and spare brushes or armatures are not available. Some sizes have side mounting holes. Mashima motors do not have side mounting holes.



Mashima MH-1830

All the above motors are 12 Volt DC rated and have 5 slot armatures.

GEARING / ACCESSORIES

GEAR TERMINOLOGY:

MODULE is the standard metric term for gear tooth size.
NORTH YARD gearing has a 20° pressure angle.

N = No. of teeth PD = Pitch diameter OD = Outside diameter
WG = Worm Gear – will mesh with RH worm or reverse worm gear
RWG = Reverse Worm Gear – will mesh with LH worm or worm gear
SG = Spur Gear – will mesh with another spur gear only

FORMULAE:

PD= Module x N (for gear)
OD= Module x (N + 2) (for gear)
PD= OD – (2 x Mod.) (for worm)

MATERIAL AND COLOUR:

NORTH YARD gears are injection moulded in acetal (an engineering plastic) and are colour coded as follows:

WG – black RWG – white

Bores are designed for a light press fit on precision ground shafting.

PRICE ITEM DESCRIPTION

43F Steel set screws M1.4 x 1.5 (3). Common to all can motor caps on old Sagami motors.

BRASS SHAFT BUSHINGS 2 per pack

Use to build up motor shaft when required.

366/2 Ø1.5 x Ø2.38 x 6mm long
319/2 Ø2.0 x Ø2.38 x 6mm long
320/2 Ø2.4 x Ø3.18 x 6mm long

BRASS FLYWHEELS 1 per pack

NW401-6 NWSL Ø12 x 7 x 1.5mm bore
426.2 North Yard Ø16 x 9 x 2.0mm bore
426.3 North Yard Ø18 x 11 x 2.4mm bore

WORMS, STEEL 0.3 module

40320	Worm LH Ø5 x 6.7 x Ø2.0
40324	Worm LH Ø5 x 6.7 x Ø2.4
40415	Worm RH Ø5 x 6.7 x Ø1.5
40420	Worm RH Ø5 x 6.7 x Ø2.0
40424	Worm RH Ø5 x 6.7 x Ø2.4

WORMS, STEEL 0.4 module

40120	Worm RH Ø6 x 8.5 x Ø2.0
40124	Worm RH Ø6 x 8.5 x Ø2.4
40715	Worm RH Ø6 x 9.5 x Ø1.5
40720	Worm RH Ø6 x 9.5 x Ø2.0
40220	Worm LH Ø6 x 8.5 x Ø2.0
40224	Worm LH Ø6 x 8.5 x Ø2.4

GEARS, ACETAL 0.3 mod for Ø5 worm

41436	WG	36T x 2.0 x 3.0 bore
41536	RWG	36T x 2.0 x 3.0 bore
41636	WG	36T x 2.0 x 1/8" bore

GEARS, ACETAL 0.4 mod for Ø6 worm

41014	WG	14T x 3.0 x 3.0 bore
41017	WG	17T x 3.0 x 3.0 bore
41320	WG	20T x 2.5 x 2.0 bore
41020	WG	20T x 2.5 x 3.0 bore
41120	RWG	20T x 2.5 x 3.0 bore
41327	WG	27T x 2.5 x 2.0 bore
41027	WG	27T x 2.5 x 3.0 bore
41127	RWG	27T x 2.5 x 3.0 bore
41130	RWG	30T x 2.5 x 3.0 bore
41035	WG	35T x 2.5 x 3.0 bore
41135	RWG	35T x 2.5 x 3.0 bore

BRASS BEARINGS, NO FLANGE each

307	Ø2.0 x Ø6 x 2.5
-----	-----------------

BRONZE BEARINGS, FLANGED each

2861	Ø1.5xØ4x1.5 / Ø5x0.5 head
2854	Ø2.0xØ4x2.5 / Ø6x0.5 head
566	Ø2.4xØ4x3 / Ø6x1 head
338	Ø2.4xØ6x3 / Ø8x1 head

DRIVE SHAFTS Stainless Steel

For 2mm drive shafts, see list of dowel pins on Fastenings page.

410.13	Ø2.4 x 13mm
410.16	Ø2.4 x 16mm
410.20	Ø2.4 x 20mm
410.25	Ø2.4 x 25mm
410.30	Ø2.4 x 30mm
410.40	Ø2.4 x 40mm

UNIVERSAL JOINTS, SILICONE TUBING

44024	NY 2.4mm shaft U joint (2 balls, 2 sockets, 1 shaft)
350	NY UJ ball Ø4 x 2.4mm bore
351	NY socket Ø6 x 8 x 2.4 bore
481-6	NWSL 2.4mm shaft U joint
482-6	NWSL 2.0mm shaft (1.5/2.4) universal joint
498-6	NWSL 2.4mm to 1/8" shaft universal joint
7008	Silicone tubing Ø1.9 x Ø4 2 pieces 50mm long
7000	Silicone tubing Ø2.3 x Ø4 2 pieces 50mm long
2150	Shaft adaptor Ø2.4 x 20/Ø2.0 x 10 bore stainless

GEARBOXES, NORTH YARD

0.3 module 36:1

Acetal case, steel worm, bronze bearings, acetal gears.

Minimum driver dia. 14.3mm, or 12.4mm if bottom cover trimmed.

4322030	2.0 input shaft, 3.0 axle
4322030D	2.0 motor mount, 3.0 axle
4322032	2.0 input shaft, 1/8" axle
4322032D	2.0 motor mount, 1/8" axle
4322430	2.4 input shaft, 3.0 axle

IDLER GEARBOXES, NORTH YARD

0.3 module 36:1

Acetal case, steel worm, bronze bearings, acetal gears.

Minimum driver dia. 14.3mm, or 12.4mm if bottom cover trimmed.

4332030	2.0 input shaft, 3.0 axle
4332030D	2.0 motor mount, 3.0 axle
4332032	2.0 input shaft, 1/8" axle
4332032D	2.0 motor mount, 1/8" axle
4332430	2.4 input shaft, 3.0 axle

IDLER GEARBOXES, NORTH YARD

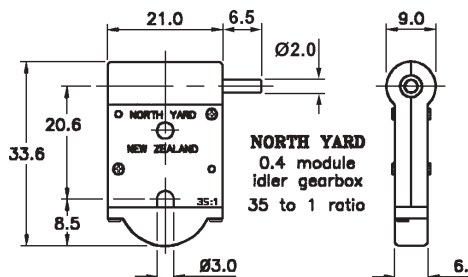
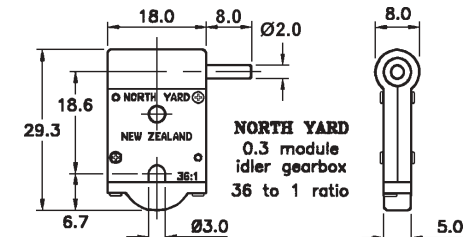
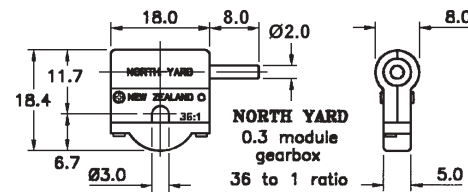
0.4 module 35:1

Acetal case, steel worm, bronze bearings, acetal gears.

Minimum driver dia. 17.8mm, or 15.7mm if bottom cover trimmed.

4312030	2.0 input shaft, 3.0 axle
4312030D	2.0 motor mount, 3.0 axle
4312430	2.4 input shaft, 3.0 axle

North Yard makes three styles of gearbox:
431 series 0.4 module, idler
432 series 0.3 module, non idler
433 series 0.3 module, idler
 The series number forms the first three digits of the part number.
 The next two digits in the part number are the input shaft diameter in mm; the final two digits are size of axle the gearbox fits.



GEARBOXES

NWSL

0.3 module 28:1 Acetal case

Steel worm, brass and acetal gears.

Minimum driver dia 13.4mm, 9.6mm if cover trimmed.

Gearboxes for 1/8" and 3/32" (2.4mm) axles can be imported to order.

140-6	2.4 input shaft 3.0 axle
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IDLER GEARBOXES

NWSL

0.3 module 28:1 Acetal case

Steel worm, brass and acetal gears.

Minimum driver dia. 13.4mm, or 9.6mm if cover trimmed.

Gearboxes for 1/8" and 3/32" (2.4mm) axles can be imported to order.

139-6	Idler Gearbox 28:1, 2.4mm input shaft, 3mm axle
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136-6	Double Idler G'box 28:1, 2.4mm input, 3mm axle
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144-6	Conversion kit 2mm RH worm for 136-6, 140-6, 151-6
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164-6	Conversion kit 2mm LH worm for 139-6, 150-6
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COMPOUND GEARBOX

NWSL

0.3 module 50:1 Acetal case

Steel worm, brass and acetal gears.

Minimum driver dia. 13.4mm, or 9.6mm if cover trimmed.

171-6	Compound Gearbox 50:1, 1.5mm input, 2mm axle
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GEARBOXES

NWSL

0.5 module O gauge Acetal case

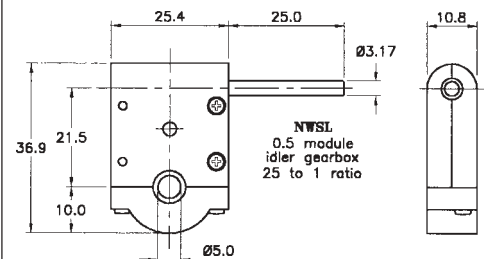
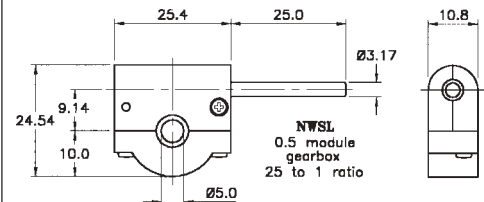
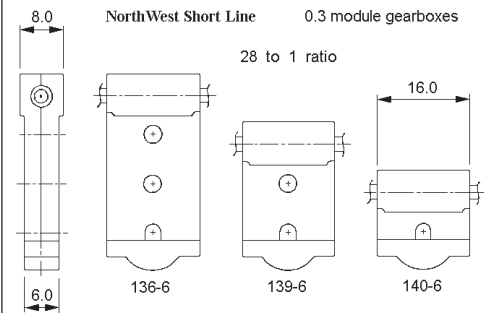
Steel worm, brass and acetal gears.

0.5 module gearboxes for 3/16", 1/4", 5.8mm and 6mm axles can be imported to order.

12.5:1 ratio and ball bearing worm shaft versions are also available.

255-6	Gearbox 25:1, 1/8" input shaft, 5mm axle
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254-6	Idler Gearbox 25:1, 1/8" input shaft, 5mm axle
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BRASS TUBE O.D. WALL 300mm

500.010	1.0mm x 0.20mm
500.015	1.5mm x 0.20mm
500.020	2.0mm x 0.30mm
500.025	2.5mm x 0.45mm
500.030	3.0mm x 0.45mm
500.040	4.0mm x 0.45mm
500.050	5.0mm x 0.45mm
500.060	6.0mm x 0.45mm
500.070	7.0mm x 0.45mm
500.080	8.0mm x 0.45mm
500.090	9.0mm x 0.45mm
500.100	10.0mm x 0.50mm
500.110	11.0mm x 0.50mm
500.120	12.0mm x 0.50mm
500.159	15.9mm x 0.90mm
500.190	19.0mm x 0.90mm
500.222	22.2mm x 0.90mm
500.238	23.8mm x 0.71mm
500.254	25.4mm x 0.90mm

BRASS WIRE – HARD DRAWN

Straight 300mm

501.025	0.25mm
501.03	0.3mm
501.04	0.4mm
501.05	0.5mm
501.06	0.6mm
501.07	0.7mm
501.08	0.8mm
501.10	1.0mm
501.12	1.2mm
501.15	1.5mm
501.16	1.6mm (back in stock)

BRASS ROD – ROUND free machining 300mm

501.20	2.0mm
501.25	2.5mm
501.30	3.0mm
501.317	3.17mm
501.35	3.5mm
501.40	4.0mm
501.45	4.5mm
501.50	5.0mm
501.55	5.5mm
501.60	6.0mm
501.65	6.5mm
501.70	7.0mm
501.75	7.5mm
501.80	8.0mm
501.85	8.5mm
501.90	9.0mm
501.95	9.5mm
501.100	10.0mm
501.110	11.0mm
501.120	12.0mm

BRASS ROD – SQUARE

502.08	0.8mm	300mm
502.10	1.0mm	250mm
502.15	1.5mm	250mm
502.20	2.0mm	250mm
502.25	2.5mm	250mm
502.32	3.2mm	300mm
502.48	4.8mm	300mm
502.63	6.3mm	300mm
502.79	7.9mm	300mm
502.95	9.5mm	300mm
502.127	12.7mm	300mm

BRASS ROD – HEXAGON

503.10	1.0mm	250mm
503.16	1.6mm	305mm
503.20	2.0mm	250mm
503.25	2.5mm	300mm
503.30	3.0mm	300mm
503.40	4.0mm	300mm
503.63	6.3mm	300mm

BRASS ANGLE

508.10	1.0 x 1.0 x 0.25	250mm
508.12	1.2 x 1.2 x 0.30	300mm
508.15	1.5 x 1.5 x 0.35	300mm
508.20	2.0 x 2.0 x 0.40	300mm

BRASS TEE

50T.10	1.0 x 1.0 x 0.25	250mm
50T.15	1.5 x 1.5 x 0.30	300mm
50T.20	2.0 x 2.0 x 0.40	300mm

BRASS CHANNEL

505.20	2.0 x 1.0 x 0.40	250mm
505.30	3.0 x 1.5 x 0.40	300mm
505.40	4.0 x 2.0 x 0.50	250mm
505.50	5.0 x 3.0 x 0.60	250mm
505.127	12.7x 12.7x 2.4	300mm

BRASS MINISTRIP 10 pcs/pack 150mm

506.081	0.10mm x 0.8mm
506.101	0.10mm x 1.0mm
506.08	0.25mm x 0.8mm
506.10	0.25mm x 1.0mm
506.15	0.25mm x 1.5mm
506.20	0.25mm x 2.0mm
506.25	0.25mm x 2.5mm
506.30	0.25mm x 3.0mm

BRASS STRIP – HALF HARD 300mm

(Sheared from sheet)

506.04063	0.4mm x 6.35mm
506.04127	0.4mm x 12.7mm
506.04254	0.4mm x 25.4mm
506.0412	0.45mm x 12mm
506.0425	0.45mm x 25mm
506.0550	0.5mm x 50mm
506.0806	0.8mm x 6mm
506.08063	0.8mm x 6.35mm
506.08127	0.8mm x 12.7mm
506.0825	0.8mm x 25mm
506.0850	0.8mm x 50mm
506.1006	1.0mm x 6mm
506.1012	1.0mm x 12mm
506.1025	1.0mm x 25mm
506.1050	1.0mm x 50mm
506.1206	1.2mm x 6mm
506.1212	1.2mm x 12mm
506.1225	1.2mm x 25mm
506.1250	1.2mm x 50mm

BRASS FLAT BAR

506.04008	0.4mm x 0.8mm	300mm
506.1002	1.0mm x 2.0mm	250mm
506.1503	1.5mm x 3.0mm	250mm
506.2004	2.0mm x 4.0mm	250mm
506.2006	2.0mm x 6.0mm	250mm
506.3005	3.0mm x 5.0mm	250mm
506.1619	1.6mm x 19mm	300mm
506.3225	3.2mm x 25.4mm	300mm

BRASS SHEET – HALF HARD TEMPER

100mm x 250mm

507.0127	0.13mm
507.0254	0.25mm
507.05	0.5mm
507.08	0.8mm
507.10	1.0mm
507.12	1.2mm

BRASS MESH, WOVEN 100mm x 150mm

strands per inch x wire diameter

504.60	60/60 x .0072"
504.40	40/40 x .0100"
504.16	16/16 x .0180"

SILVER STEEL – ROUND

300mm

AISI O1 grade oil hardening tool steel

521.20	2mm
521.30	3mm
521.40	4mm
521.50	5mm
521.60	6mm
521.80	8mm
521.100	10mm
521.120	12mm

BRIGHT MILD STEEL – ROUND

300mm

free machining 300mm

531.30	3mm
531.50	5mm
531.60	6mm
531.80	8mm
531.100	10mm
531.120	12mm

STAINLESS STEEL – ROUND

300mm

541.20	2mm	T308
541.24	2.4mm	T303
541.30	3mm	T303
541.318	3.18mm (1/8")	T303
541.476	4.76mm (3/16")	T303
541.50	5mm	T304
541.60	6mm	T303
541.635	6.35mm (1/4")	T303
541.100	10mm	T303

BRIGHT MILD STEEL – FLAT

300mm

536.1606	1.6mm x 6.3mm
536.3012	3.0mm x 12.0mm

NICKEL SILVER SHEET 305mm x 152mm

"The Prince of Metals", Nickel Silver is easy to solder, does not tarnish and has a natural appearance close to that of bare steel. Excellent for use in photo-etching, and for parts such as loco valve gear and chassis. This alloy contains 65% copper, 18% nickel and 17% zinc. It contains no silver.

557.025	0.25mm (0.010")
557.030	0.30mm (0.012")
557.050	0.50mm (0.020")
557.063	0.63mm (0.025")
557.080	0.80mm (0.032")
557.100	1.00mm (0.040")

NICKEL SILVER WIRE - ROUND

300mm

551.045	0.45mm
551.06	0.6mm
551.08	0.8mm

NICKEL SILVER ROD - ROUND

300mm

551.0873	8.73mm (pale yellow)
551.127	12.7mm (pale yellow)

COPPER ROD - ROUND

300mm

561.0635	6.35mm
561.0952	9.52mm

PHOSPHOR BRONZE SPRING WIRE

Straight 300mm

511.04	0.4mm
511.05	0.5mm
511.08	0.8mm

NOTE: Stock subject to availability

For a full range of brass and other materials, please refer to our Website as new products are being added as they become available to us.

Steam locomotive parts:

- 6078 Bell, loco, old style - operating
- 6059 Bracket for W/H pump on A loco
- 6105 Bracket, equalizing beam J loco
- 6046 Brackets, tablet exchanger (loco)
- 6031 Brackets, valve guide, K loco (2)
- 6019 Brake column, tender
- 6030 Brake cylinder, tender, K loco

- 6110 Brake hangers, F loco (2 pr)
- 6044 Chassis casting (zinc), A loco
- 6017 Coupling & box, loco, BP3395 (2)
- 6016 Cowcatcher, A loco BP3697
- 6091 Cowcatcher, Ab loco
- 6094 Cowcatcher - K, Ka, Kb, J, Ja, Jb
- 6040 Crossheads & Guides, C 2-6-2
- 6099 Crossheads & piston rods J & K
- 6098 Cylinder end & slide bar J & K (2)
- 6090 Cylinders, Ab loco
- 6021 Dome, sand, A loco (white metal)
- 6022 Dome, steam, A (white metal)
- 6103 Dome, sand J 4-8-2 loco
- 6102 Dome, steam J 4-8-2 loco
- 6028 Door, inspection (2)
- 6055 Door, smokebox, 39" BP10773
- 6095 Expansion link & bkt K (2 ea)

- 6015 Generator, Pyle National K 240
- 6049 Governor, cross compound pump
- 6036 Governor & Pipe for W/H pump
- 6057 Governor, valve, silencer- W/H
- 6020 Handrail posts - 19, assorted
- 6101 Hanger, Baker valve gear J loco
- 6093 Hangers, valve gear Ab L & R
- 6118 Headlight, acetylene - F loco
- 6026 Headlight, 12" Pyle
- 6027 Headlight, 12" Pyle with hood
- 6013 Headlight, Standard 20" Mainline
- 6083 Hornblocks with spring recess(6)
- 6113 Hooks, side chain (16)
- 6012 Hoses, air A loco (2)
- 6000 Injector, exhaust steam, K loco
- 6024 Injector, live steam, K loco
- 6060 Jack, loco, (2)
- 6025 Jack & Traverser, modern (2)
- 6086 Jacking brackets, loco (4)
- 6037 Ladder, A tender, 5.3 x 12.4mm
- 6048 Lubricator, Nathan, K loco
- 6010 Plugs, washout (20)
- 6001 Power Reverse Ragonnet, K loco
- 6011 Pump, air W/H 10" x 10⁵/₈"
- 6077 Pump, air W/H cross compound
- 6085 Shovel, loco (2)
- 6112 Shovel, loco, long narrow (2)
- 6056 Silencer, exhaust, for W/H pump
- 6045 Smokebox front A loco (w/ metal)
- 6034 Snifter, A loco (2)
- 6084 Springs, loco, leaf type (8)
- 6092 Steam chest heads Ab loco (2)
- 6002 Steam Pipes, K loco
- 6003 Throttle, front end, K loco
- 6004 Turret, K loco
- 6029 Valve, blower inlet, K loco
- 6005 Valve, boiler top feed, J, K locos
- 6018 Valve, check BPY5054 (2)
- 6035 Valve, control, for W/H pump
- 6032 Valve, main safety, A loco
- 6033 Valve, safety, lever type, A (2)
- 6006 Valves, sanding, K loco (2 pair)
- 6047 Valves, steam, K (2 of each)
- 6014 Valve, Triple
- 6007 Water fillers, tender, A loco (2)
- 6008 Whistle, Nathan, side mount, K
- 6009 Whistle, Nathan, back mnt, A, Ab

NZR Detail parts, 1:64 scale

Parts are brass investment castings unless stated otherwise.

Diesel, Electric and Railcar parts:

- 6082 Air tank ends, railcar type (2)
- 6079 Cowcatcher, Dg loco
- 6087 Diesel MU connectors EE (4)
- 6071 Horns, diesel (2)

Wagon and Car parts:

- 6052 Buffer beamex MTM 30' van
- 6063 Hand brake wagon old style(2)
- 6107 Handbrake unit MT car (2)
- 6113 Hooks, side chain (16)
- 6050 Lookouts, guard's MTM van(2)
- 6058 Pivot blocks, bogie side (8)
- 6119 Queen posts; 4 on beam (2)
- 6067 Railing, end, straight 44' car (2)
- 6068 Railing, end, curvd 47½' car (2)
- 6051 Railing, end ex MTM 30' van
- 6106 Steps, Main Trunk car (4)
- 6108 Vents, roof, Main Trunk car(20)

Bush tram and Industrial parts:

- ONG1 - NZ Bush Log Bogie Kit
- 2163B Wheel 8mm curved 7 spk (1)
(plastic centre, brass tyre)
- 2844 Axle Ø1.2 x 19.6 stainless
- 6114 Bearing blocks for shafting (4)

Miscellaneous:

- 6115 Bucket
- 6080 Nut, bolt & washer casting (30)

Cast brass wheels (unmachined):

- 6124 Log bogie 24" curved 7 spoke
- 6125 Bogie wheel 26"/28" 8 spoke
- 6126 Bogie wheel 30" 9 spoke
- 6065 Driver 22" 8 spoke
- 6064 Driver 30" 8 spoke Dubs A
- 6062 Driver 42" 11 spoke J 2-6-0
- 6116 Driver 45" 10 spoke electric loco
- 6066 Driver 54" 12 spoke A, Ab 4-6-2
- 6117 Driver 57" 15 spoke G 4-6-2
- 6061 Driver 58" 13 spoke Ud loco

Bogie side frames - locomotive:

- 6070 Sideframes Dg loco (4)
- B12006 Leading, J & K locos
- 6039 Cab bogie, C 2-6-2 loco
- 6104 Cab bogie, J 4-8-2 loco
- B12015 Cab bogie, Ka 4-8-4 loco
- B10270 Tender, C 2-6-2 loco
- B11183 Tender, G 4-6-2 loco (4)
- B12604 Tender, J 4-8-2 loco
- B1637 Tender, Ub & B locos (Fox)

Bogie side frames - rolling stock

set of 2 bogies per pack (no wheels included)

- BS97 Freight, old arch bar Rb, Z
- BS26463 Freight 5' 0" roller brg Type 1

From September 2004 this list of castings includes parts from the former Sunlander range.

NOTE: NOT ALL ITEMS ON THIS PAGE ARE CURRENTLY AVAILABLE, PLEASE CONTACT US REGARDING AVAILABILITY.

BRASS CHAIN



Plain, oval link brass chain in 4 sizes, measured in Links per Inch (LPI). Great for detailing wagons, cranes, wharves, etc. Bind loads on wagons, trucks, containers. Pack contains 300mm.

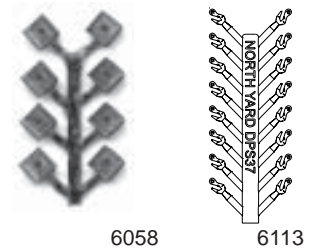
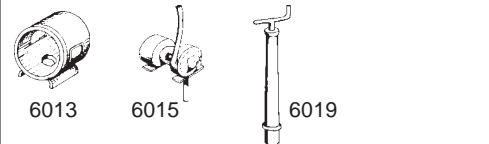
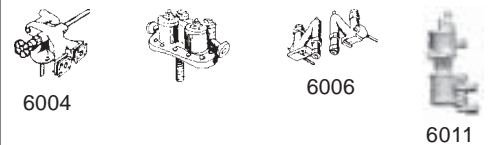
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|-------|----------------------|--|
| CH16 | Chain 16 LPI | |
| CH27 | Chain 27 LPI | |
| CH32 | Chain 32 LPI | |
| CH40 | Chain 40 LPI | |
| CH40B | Chain 40 LPI (Black) | |

HANDRAIL POSTS



Machined brass, Ø0.8 shank, price per each

- 2705 1.0 ball 0.5 hole 1.0 ctr height
- 2707 1.0 ball 0.5 hole 1.5 ctr height
- 2709 1.0 ball 0.5 hole 2.5 ctr height



ETCHED BRASS:

DIAMOND & SQUARE GRILL, TREADPLATE

- NYDG05 Diamond Grill 0.5mm
- NYDG10 Diamond Grill 1.0mm
- NYDG20 Diamond Grill 2.0mm
- NYSG07 Square Grill 0.7mm
- NYSG12 Square Grill 1.2mm
- NYSG16 Square Grill 1.6mm
- NYTP132 Diamond treadplate 1:32 scale
- NYTP164 Diamond Treadplate 1:64 scale

NEW PRODUCT**NZR PAINT:**

Responding to demand for colour matched paints for NZR models, North Yard now have a range of paints for most NZR locos and ongoing development is continuing to add new colours as they become available.

Note:

These are lacquer paints and are pre-thinned and ready for spray application only. Size: 30ml. Etch Primer sold as two pack but are available separately.

Paints are available for sale within New Zealand only.

NY Code	Colour
NZRP01	Da Red
NZRP02	Midland Red
NZRP03	Carnation Red
NZRP04	White
NZRP05	Orange
NZRP06	Yellow
NZRP07	Grey
NZRP08	Blue
NZRP09	Blue
NZRP10	Yellow
NZRP11	Yellow
NZRP12	Blue
NZRP13	Black
NZRP14	Yellow
NZRP15	Green
NZRP16	Silver } NOT
NZRP17	Orange } YET
NZRP18	Yellow } AVAILABLE
NZRP19	Blue Metro
NZRP20	** Etch Primer Part A
NZRP21	** Etch Primer Part B Catalyst
**NZRP22	2 Pack - Etch Primer & Catalyst
NZRP35	Pullman Green
NZRP36	Oxide Red

Colour Scheme Components:

Midland Red - Red 1927 - 1954
 Carnation Red - Red 1954 Onwards
Fruit Salad Colour Scheme:
 NZRP05, NZRP06, NZRP07
New Zealand Rail Colour Scheme:
 NZRP08, NZRP06, NZRP07
Tranz Rail Colour Scheme:
 NZRP09, NZRP10, NZRP07
Kiwi Rail Colour Scheme:
 NZRP05, NZRP11, NZRP07
Dj Class Colour Scheme:
 NZRP12, NZRP06, NZRP07
Auckland Metro Colour Scheme:
 NZRP11, NZRP13, NZRP19
Toll Rail Bumble Bee Colour Scheme:
 NZRP06, NZRP13
Toll Rail Corn Cob Colour Scheme:
 NZRP14, NZRP15
Popsicle Colour Scheme:
 NZRP16, NZRP17, NZRP18

LOCO MECHANISMS AVAILABLE AND MADE AS THEY ARE ORDERED, MANUFACTURING TIMES WILL VARY.

CONTACT US FOR MORE INFORMATION.

TYRES RP25 code 110 profile

B = brass, black nickel plated

N = brass, satin nickel plated

Dimensions are tread dia x bore dia

210.12B	9.5 x 7.85
210.12N	9.5 x 7.85
210.01B	10.5 x 8.5
210.01N	10.5 x 8.5
210.02B	10.5 x 9.0
210.02N	10.5 x 9.0
210.17B	11.08 x 10.0
210.17N	11.08 x 10.0
210.03B	12.0 x 10.0
210.03N	12.0 x 10.0
210.18B	12.0 x 10.5
210.18N	12.0 x 10.5
210.04B	13.0 x 11.0
210.04N	13.0 x 11.0
210.05B	14.3 x 12.0
210.05N	14.3 x 12.0
210.06N	15.7 x 13.3
210.07N	16.8 x 14.8
210.08N	17.8 x 15.5
210.09N	19.5 x 17.5
210.10N	21.4 x 19.05

TYRES RP25 code 110 profile

stainless steel (not always in stock)

Dimensions are tread dia x bore dia

210.05L	14.3 x 12.0
210.05UL	14.3 x 12.0 flangeless
210.07L	16.8 x 14.8
210.07UL	16.8 x 14.8 flangeless
210.08L	17.8 x 15.5
210.08UL	17.8 x 15.5 flangeless
210.09L	19.5 x 17.5
210.09UL	19.5 x 17.5 flangeless
210.10L	21.4 x 19.05
210.11L	22.6 x 20.2

TYRES NY277 profile stainless steel

4.1mm wide, exact scale 9mm scale NZR

277.01L	27.0 x 23.0
277.02L	29.8 x 25.0
277.04L	33.75 x 29.0
277.06L	40.5 x 36.0

MISCELLANEOUS

PV121	Pin vice 0 to 1.0 capacity
PV122	Pin vice 0.5 to 1.5 capacity
PV123	Pin vice 1.5 to 2.6 capacity
7008	Silicone tube Ø1.9x Ø4x 50 (2)
7000	Silicone tube Ø2.3x Ø4x 50 (2)
7002	Solder, resin core Ø1.2 x 2mtr
7005	Low Melt Solder 70°
7003	Standards Gauge NMRA HO
7009	Standards Gauge NMRA Sn3
7006	Cut-off disc Ø22x0.6xØ1.6 (5)
7007	Mandrel for discs, Ø2.4 shank
7011	Excel model rule N HO O G
7101	Wire, hookup 10/ 0.1 blk (2m)
7102	Wire, hookup 10/ 0.1 red (2m)
7104	Microbulbs 1.5V 10mA Ø1.4
7105	Spade Terminal 1.4mm (20).
2041/8	Drvr springs Ø2x4x0.152 (8)
2042/8	Drvr springs Ø2x4x0.193 (8)
2043/8	Drvr springs Ø2x4x0.234 (8)
2026	Sound cam 6.35 sq x 4.5 x Ø3
2179	Sound cam 4.76 sq x 3.5 x Ø3



2179



2026



Spade Terminal

ROMFORD® AXLES for 16.5mm gauge 3mm stainless steel.

Use with Romford wheels to suit gears, gearboxes, bearings, sound cams, etc with 3mm bore. Each axle is supplied with two brass axle nuts.

2635N	Romford axle 3mm stainless 16.5 gauge, knurled at centre.
2636N	Romford axle 3mm stainless 16.5 gauge, plain.

RFND Romford axle nut driver

DATA SHEET - printed in A4 format.

915	Driving wheel diagrams - North Yard RP25/110 drivers drawn full size.
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SPLIT AXLE PARTS stainless steel

North Yard split axles consist of male and female axle halves press - fitted together with an acetal insulating bush. The bush has a head 0.5mm thick; the length of axles that can be produced is:
 (male half length + female half length + 0.5mm).

While complete split axles can be supplied, it is not advisable to press - fit metal wheels on to these, as the force required will usually crush the head of the plastic bush. Slide - fit wheels with a 3.00mm reamed bore can be used and secured in place with LOCTITE 601 or similar. To press - fit wheels, the following procedure should be used:

1. The correct bore size is 2.98mm.
2. Fit wheels and/or bearings and gear to each axle half.
3. Push plastic bush into female axle half.
4. Press axle halves together. Check the tightness of the joint, but do not disturb unnecessarily. If the joint is not tight enough, carefully twist apart, then apply a small amount of Loctite inside the female end. Press the axle together again and leave to set overnight. Be careful to keep Loctite away from axle bearings or you will end up with a non-rotating axle!

547	Axle half female Ø3 x 7.5
548	Axle half female Ø3 x 10
2857	Axle half female Ø3 x 13
2057	Axle half fem Ø3x8.5/Ø2x2.77
553	Axle half male Ø3x12 knurled
554	Axle half male Ø3x15.5 knurled
2858	Axle half male Ø3x17.5 knurled
2058	Axle half male Ø3x11/Ø2x2.77
529	Bush Ø2.5 x Ø1.6 x 5 acetal

SERV-O-LINK® PRODUCTS

North Yard sells the range of injection moulded chain (0.1227" pitch) and sprockets, and also 32 and 48 pitch gears from this manufacturer. There is a separate list for these products. No trade discounts are available on Serv-O-Link products.