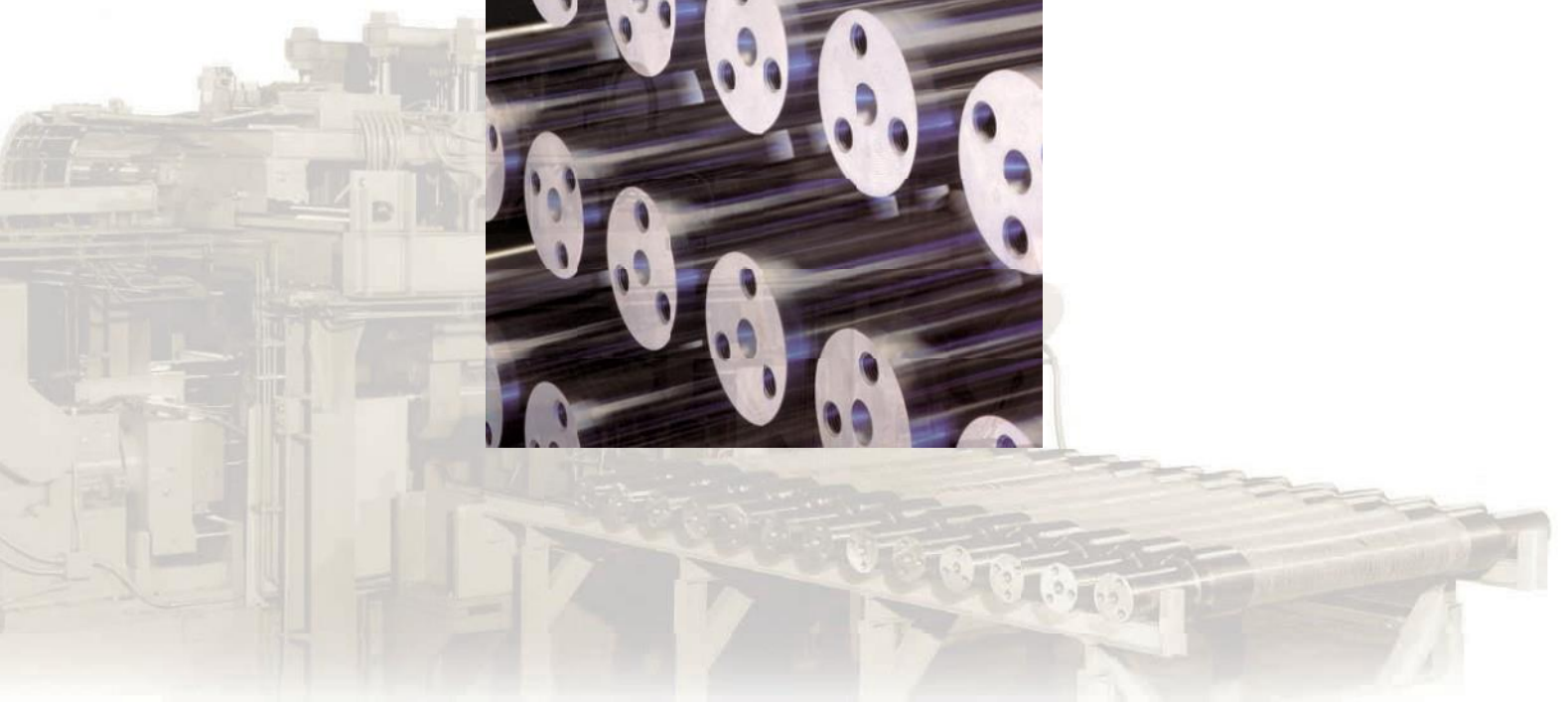
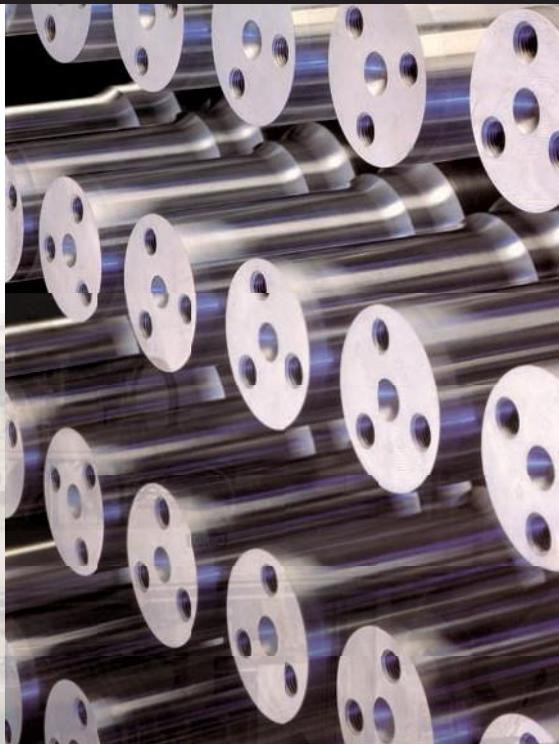


SUPCO CANAD High Quality Axles





Axles that keeps your fleet on the track

In Supco Canada Railway Supply Group iis capable of CNC precision machining and grinding of axles for all classes of service, including locomotive, transit, passenger and specialty. The Axles will be made according to AAR- M101 or any other standards required by our customers including UIC.

Using the most sophisticated CNC machine will help us to achieve the consistency in quality, accuracy, speed and versatility. Using the fully automated drill and tapping machine and the highly precise CNC grinding machine will assure that each axle comes out of the line to maximum perfection.

We have an extensive data bank of all OEM axle part numbers which will allow us to make the axles to OEM specifications and even with quality that exceeds the OEM.

In addition to this, we are virtually capable of a complete reverse engineering on all different type of Locomotive, Passenger and Freight coach axles and make them from scratch to the highest level of quality in the industry.



Material Standard for Axles

No.	Standard	Material quality		TT	mechanical properties				
					Re (N/mm ²) min	Rm (N/mm ²)	A(%) min.	KU (J) min.	
								long	trans
1	UIC 811 -1/87	A1	C35	N	320	550 - 650	22	25	10
				T	350	550 - 700	24	40	15
		A2	22MnCrV5	N	350	510-620	22	40	20
		A3	C45	N	360	600 - 750	17	20	10
				T	390	620 - 770	19	25	13
		A4	25CrMo4 / ISO R 683 II Tip 1	T	420	650 - 800	18	40	20
	A5	42CrMo4 / ISO R 683 IV Tip 3a	T	510	730 - 880	14	25	13	
	UIC 811 -1/87	A1	C35	U	270	500 - 650	20	20	8
				N	320	550 - 650	22	25	10
				T	350	550 - 700	24	40	15
A2		22MnCrV5	N	350	510-620	22	40	20	
2	STAS 1947/90	OC 01		N	320	550 - 650	22	25	10
				T	350	550 - 700	25	40	15
3	TTS 093/98	A1N		N	320	520 - 650	22	25	10
4	BS 5892/83 Part 1	A1		N	300	520 - 650	22	25	-
				T	350	550 - 700	24	40	-
		A2		N	360	600 - 750	17	20	-
				T	390	620 - 770	19	25	-
		A3		T	420	650 - 800	19	40	-
		A4		T	420	650 - 800	19	40	-
5	AAR M- 101/2004	Grade F		NN	317-344**	558 - 606**	22 - 20**	-	-
		Grade G		T	330 - 378**	564 - 620**	20 - 19**	-	-
		Grade H		N+T	413-516**	689 - 792**	18 - 16**	-	-
6	IRS R-16/95			N	320	550 - 650	22	25	-
				T	350	550 - 700	24	40	-
7	GOST 4728/89			N	-	580 - 650	20-18	50-35*	-

Additional Capabilities

- Complete reverse engineering
Metal and Alloy analysis
CAD/CAM® Engineering and Solid Work 3D®
- Non-destructive testing and inspection services
- Locomotive Axle Reconditioning and Re-qualifying
Services including burnishing the support bearings
- Passenger and Freight Car - Axles, Wheels Sets
and Mounting Services
- Complete railway axle downsizing and conversions
- Locomotive MSU (Motor Suspension Unit)
- Housing Reconditioning and Remanufacturing



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Supco Canada Railway Supply Group

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