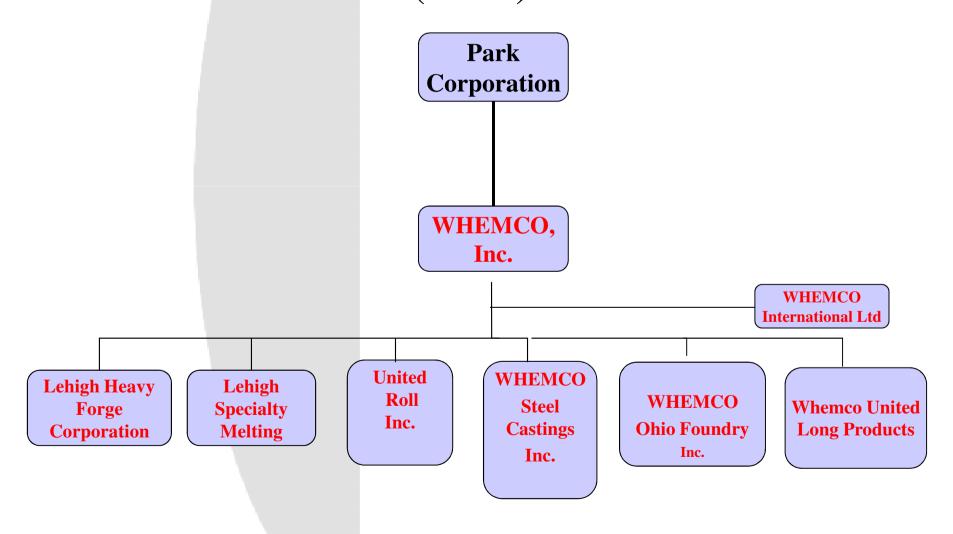


WHEMCO Inc.

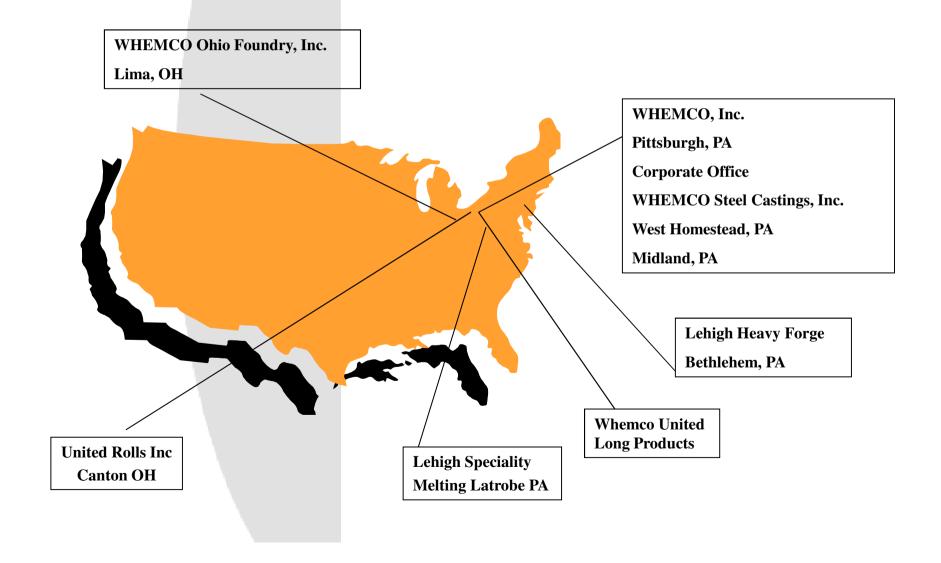


CORPORATE STRUCTURE (Rolls)





Plant Location







- Privately held
- Debt free
- Diverse range of Interests including:
 - Whemco Companies are:

Manufactures of Steel, Oil & Power Generation Products



WHEMCO, Inc.

• Over \$250m annual sales with over 850 employees

- Large Iron and Steel products for:
 - Steel and Aluminium mills
 - Nuclear Reactors
 - Ship Propulsion
 - Petro chemical Industry



Whemco's History

- All sites have over 100 year experience
- Park Corporation started building the Whemco group in 1983.
 - MESTA and Mack Hemp purchased and renamed WHEMCO Steel Castings Inc.
 - Teledyne Ohio purchased and renamed WHEMCO Ohio Foundry Inc.
 - Erie Forge purchased
 - Beth Forge purchased and renamed Lehigh Heavy Forge Corporation
 - Standard Steel purchased 2004 renamed Lehigh Specialty Melting
 - Johnstown Roll Company purchased 2005 renamed Whemco United Long Products
 - United Foundries purchased 2010 renamed United Rolls Inc



WHEMCO, Inc.

- Largest Roll Maker in USA.
- Only Roll Maker in USA able to supply all types of rolls for all mill applications:

- Forged rolls: 1 to 140 t

- Cast Steel BU rolls: 20 to 75 t

- Cast Section mill rolls: up to 50t

- Iron rolls: up to 50t



- Lehigh Heavy Forge Corporation (LHFC) (Bethlehem PA)
 - Forged Steel Work Rolls and Back Up Rolls
 - Hot and Cold Mills, Plate Mill and Aluminum Mill back up rolls.
 - Cold strip mill work rolls
 - Hot and Cold Aluminium work rolls
 - Full range of 3 to 5% Cr roll grades for work and backup rolls

- Large Forgings
 - Power Generation, Military, Petro Chemical, General Engineering



- WHEMCO Steel Castings, Inc. (Pittsburgh PA)
 - Cast Steel Back Up Rolls
 - Hot Mills, Plate Mills, Cold Mills, Temper Mills
 - Back Up rolls made in 3 to 5%Cr as mono bloc castings; differentially hardened.
 - Slag Pots
 - Melt shops for ferrous and non-ferrous products
 - Coiler Drums
 - Steckel Mills
 - Large Castings
 - Die Blocks, Housings, Back Up Chocks



- WHEMCO Ohio Foundry, Inc. (Lima OH)
 - Cast Iron Spun Cast Work Rolls
 - Hot Mills, Plate Mills, Tin Mills, Cold Mills.
 - ICDP; HiCr iron;
 - Iron Back Up Rolls
 - Temper Mills, Galvanize Lines
 - Iron Long Product Mill Rolls
 - SG iron from 5 to 40 t



- United Rolls, Inc. (Canton OH)
 - Cast Iron Spun Cast Work Rolls (Finishing and Roughing)
 - Hot Mills, Plate Mills, Tin Mills, Cold Mills.
 - ICDP; HiCr iron; HiCr steel; HSS; Semi HSS; Carbide enhanced grades
 - Large Spun Cast Iron Rolls.
 - Temper Mills, Galvanize Lines
 - Plate Mill work rolls.



- Whemco United Long Products.
 - Cast Steel Rolls
 - Structural Mill Rolls
 - High Carbon Steel rolls (Adamite) 2 tonnes up to 35 tonnes finished weight
 - Medium Carbon Steel rolls up to 65 tonnes
 - High Alloy 1.5 to 2.0 C steel sleeves for UBB up to 1650 mm dia
 - High Cr steels (K Metal) sleeves for UBB up to 1650 mm dia
 - Rod and Bar mill Rolls
 - Off shore manufacture: Adamite; ICDP; SG
 - Quality controlled in US.
 - Powder Metallurgy used to manufacture 9% Vanadium rolls in US



		Barrel			
	Min Dia. mm	Max Dia. mm	Max Length mm	Max Total length mm	Max Finished Weight Kg.
Cast Steel Rolls	500	1650	3900	6350	65,000
Forged BU Rolls	1200	2100	4000	7000	145,000
Spun Cast Work Rolls	450	1130	4300	7000	40,000
Forged Work Rolls	400	800	2250	4000	12,000



Mill	Application	Grades Offered		
Hot Strip Mill	Work Rolls	ICDP (including enhanced carbide)		
		HiCr iron (including enhanced carbide)		
		HiCr steel SYNERGY 500		
		HSS SYNERGY 100		
		Semi HSS		
Cold Strip Mill	Work Rolls	3%-5% Cr Forged Steel:		
		Gas Hardened		
		Induction Hardened (Temper Mills Only)		
		Spun Cast HiCr iron or HSS		



Mill	Application	Grades Offered		
Hot Strip Mill	Backup Rolls	3% - 5% Cr Mono Bloc Cast Steel		
		3% - 5% Cr Forged Steel		
		Differential Hardened to 680-760 Ld		
Cold Strip Mill	Backup Rolls	3% - 5% Cr Mono Bloc Cast Steel		
		3% - 5% Cr Forged Steel		
		Differential Hardened to 680-760 Ld		
		ICDP or SG Cast Iron		
		(Temper and Skin Pass Mills only)		



Mill	Application	Grades Offered
Plate Mills	Work Rolls	Spun Cast:
		ICDP
		HiCr iron
Plate Mills	Backup Rolls	3% Cr Mono Bloc Cast Steel (75t max)
		3% Forged Steel (140t max)
		Hardened to 620-680 Ld



Whenco Inc. Summary Long Product Roll Capabilities:

		Barrel			
	Min Dia. mm	Max Dia. mm	Max Length mm	Max Total length mm	Max Finished Weight Kg.
Cast Steel Rolls (0.8 to 2.2 C)	500	1500	3000	6000	35,000
Sleeves (Alloy Steels and HiCr)	800	1650	1200		20,000
SG Iron	500	1500	3800	6000	50,000



Whenco Inc. Summary Section Mill Roll Capabilities:

Mill	Application	Grades Offered		
Large Sections	Work Rolls	High Carbon Steels (0.8-2.0C) 38/50 HsC		
(Channels; Rails; Angels; Piles)		Alloy Steels (0.8-1.8C) 50/65 HsC		
		SG Irons	40/65 HsC	
Universal Mills	Horizontals	Sleeves:		
(Beams; Channels; Rails)		Alloy Steels (0.8-1.8C)	50/65 HsC	
		HiCr Steels	60/75 HsC	
	Verticals	SG Irons	55/65 HsC	
		HiCr Steels	55/65 HsC	
	Edger	SG or AIC irons	50/60 HsC	