



# Corma SuperCoupling<sup>™</sup>

## TECHNOLOGY SHOWCASE

### Evolution of Corma's Coupling Technology

Corma's **Patented<sup>1</sup>** SuperCoupling<sup>™</sup> continues a long history of innovation in coupling technology. Corma first developed and patented the single layer in-line coupling in 1985, which then led to our patented designs for both the regular and bell & spigot double layer in-line couplings.

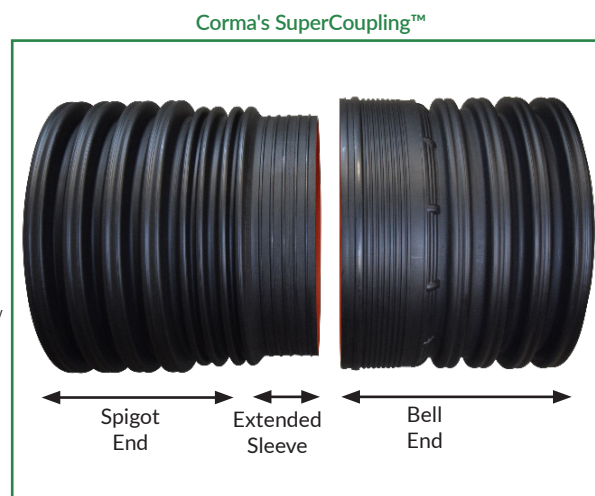
Corma has developed the SuperCoupling<sup>™</sup> as an innovative and cost effective solution that significantly increases the effectiveness of the pipe's seal, improves the hydraulic flow and reduces contaminant build up at the coupling.

### SuperCoupling<sup>™</sup>

Corma's SuperCoupling<sup>™</sup> utilizes an extended sleeve to create an even more resilient seal between the pipe layers within the coupling, designed to maintain a full seal during events such as earthquakes, high traffic loads and imperfect installation that cause movements in the soil.

In a situation where the pipe is partially inserted into the coupling, the extended sleeve of the SuperCoupling<sup>™</sup> maintains a full seal, reducing the chance of obstructions and maintains the strength and integrity of the joint. In contrast, the overlap on many other couplings on the market are too short and compromise the seal when there are movements in the soil or if the coupling is shifted during installation. This can cause a void between the pipe layers and allow debris to accumulate.

As an evolution of Corma's in-line coupling production capabilities, the SuperCoupling<sup>™</sup> can also be manufactured in-line on Corma corrugated plastic pipe production lines. This significantly increases productivity and decreases cost since no downstream belling machines are required. In addition, only one sealing ring is needed for the pipe connection to form water tight joints.



### SuperCoupling<sup>™</sup> Configurations

SuperCoupling<sup>™</sup> is available in the following configurations:

- Bell & Spigot Double Layer Coupling
- Regular Double Layer Coupling
- Bell & Spigot Single Layer Coupling
- Regular Single Layer Coupling
- Triple layer coupling

Please contact us if you are interested to learn more about how Corma's SuperCoupling<sup>™</sup> technology can improve the durability and resiliency of your local infrastructure as well as help meet standards that are constantly evolving.

<sup>1</sup>Covered under U.S. Patent No. 11,156,316 and Canadian Patent No. 2,979,294. Other patents issued or pending.

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# Technical Data

Corrugator Model Number* Vacuum Forming or Blow Molding	Pipe Range				Maximum Line Speed**		Maximum Output**	
	mm		inches					
	Min.I.D.	Max. O.D.	Min.I.D.	Max. O.D.	M/min	ft/min	Kg/hr	lbs/hr
054	3	40	0.12	1.6	50	165	40	88
130	6	110	0.25	4.5	55	180	360	790
430	6	160	0.25	6.3	35	115	450	990
630***	50	200	2.0	8.0	35	115	1040	2300
830***	50	300	2.0	12.0	35	115	1040	2300
840	50	300	2.0	12.0	25	80	840	1850
1030	50	365	2.0	14.4	30	100	750	1650
1230***	50	500	2.0	20.0	27	90	910	2000
1530***	50	700	2.0	27.5	26	85	1000	2200
2430	100	800	4.0	32.0	10	33	1300	2860
3630	100	1200	4.0	48.0	6	20	1300	2860
4830	200	1500	8.0	60.0	5	16.5	1400	3100
6030	450	1800	18.0	72.0	3	10	1500	3300
P 30/60	750	1800	30.0	72.0	1	3.3	1300	2860
P 30/120	750	3000	30.0	120.0	1	3.3	1500	3300
Vertical Corrugator Model Number								
V 053	1	20	0.04	0.8	50	165	30	66
V 130	4	110	0.16	4.5	50	165	215	475
Rib-Pipe Model Number								
R 2030	100	700	4.0	28.0	10	33	1100	2420
R 3030	100	1000	4.0	40.0	10	33	1300	2860

\* Mold blocks are interchangeable within family (shaded) groupings. Also, mold blocks from smaller corrugators can be used on larger corrugators, using Corma's Unified Mold Block System and Mold Block Adapter Shoes.

\*\* Line speeds and outputs are theoretical and depend on: pipe diameter; type of plastic; machine model; cooling options; mold track length; temperature and quantity of cooling water; profile configuration; extruder capacity, etc.

\*\*\* 630-12, 830-12, 1230-12 and 1530-12 line speed and output based on high speed corrugator configuration.

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