

# Continuous Kneader



## TECHNICAL BULLETIN

TB-GR-109

The LCI Continuous Kneader is a counter rotating twin shaft, "sigma" blade mixer. The Kneader mixes powders and liquids together continuously and homogeneously, making it ideal for continuous downstream processes that require consistent moisture levels.

Dry powder is introduced into the Kneader at a constant rate. Liquid is added to the moving dry powder through a drip bar or spray nozzle. Liquid and powder are intimately mixed by special kneading blades on each shaft, producing an extrudable wet mass. The twin shafts rotate inward, transporting material along the barrel toward the discharge.

The LCI Continuous Kneader is constructed of stainless steel and equipped with a variable speed drive.

The Kneader's rugged industrial design, coupled with the described features, make this device ideal for wet granulation processes and provide years of trouble-free operation.

### Options

- Explosion proof electricals
- Heating/cooling jacket
- Internal baffles
- Alternate frame layout
- Alternate drive layout
- Multiple liquid addition arrangements
- Sacrificial liner
- Various outlet weir arrangements
- Bolted or clamped inspection covers

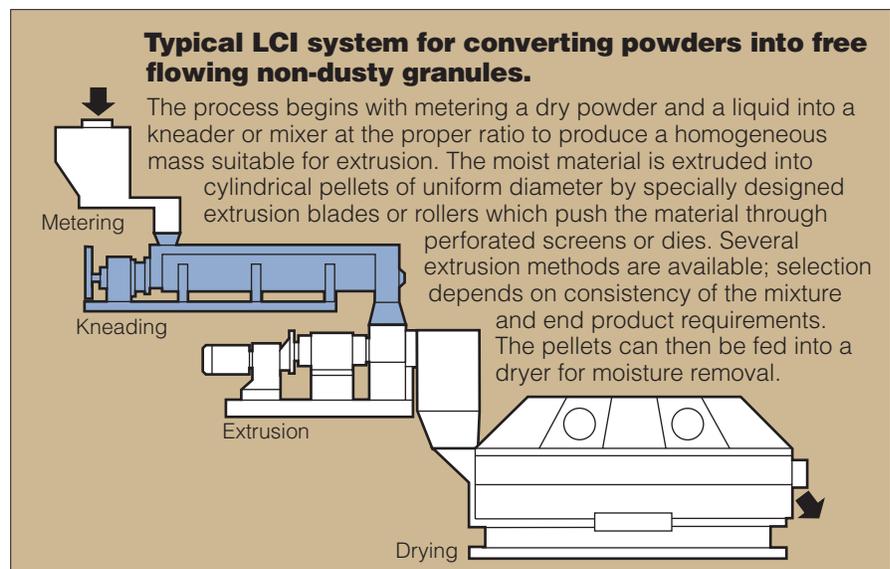
*Specifications overleaf*



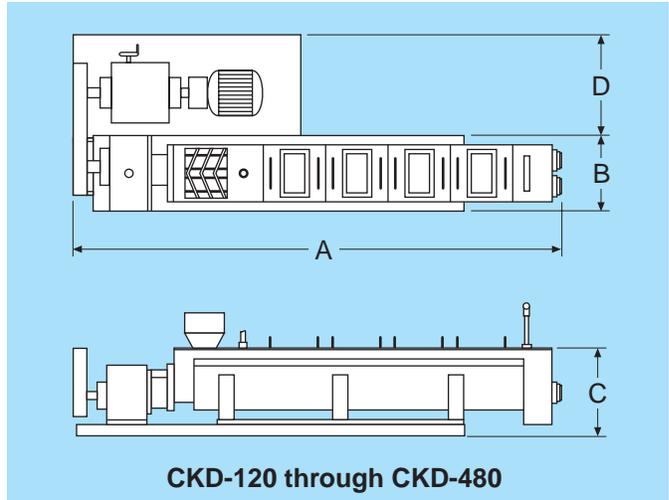
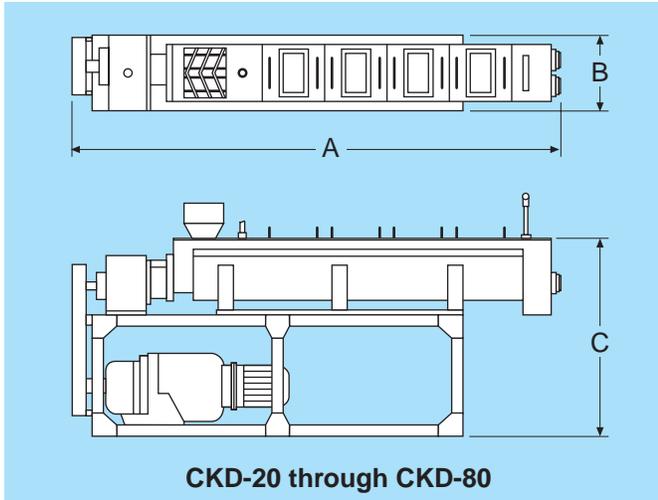
The LCI Kneader provides a homogeneous mix of liquids and powders



Twin shafts with special blades thoroughly mix powders and liquids



## Kneader Specifications



Model	Motor hp	Capacity liter(gal.)/hr	Dimensions				Weight kg(lb.)
			A mm(in.)	B mm(in.)	C mm(in.)	D mm(in.)	
CKD-20	3	80–400(20–105)	1,931(76)	540(21)	1,070(42)	—	900(2,000)
CKD-40	3	160–800(40–210)	2,560(101)	560(22)	1,220(48)	—	1,000(2,200)
CKD-80	7.5	320–1,600(85–425)	2,900(114)	680(27)	1,340(53)	—	1,600(3,500)
CKD-120	15	480–2,400(125–635)	3,290(130)	805(32)	950(37)	990(39)	2,600(5,700)
CKD-180	20	720–3,600(190–950)	3,321(131)	1,100(43)	860(34)	900(35)	4,500(9,900)
CKD-240	30	960–4,800(255–1,270)	3,520(139)	1,200(47)	900(35)	1,100(43)	5,500(12,100)
CKD-300	30	1,200–6,000(320–1,585)	3,812(150)	1,200(47)	1,160(46)	890(35)	6,000(13,200)
CKD-380	40	1,520–7,600(400–2,000)	4,378(172)	1,200(47)	1,000(39)	960(38)	7,500(16,500)
CKD-480	50	1,920–9,600(510–2,540)	5,188(204)	1,260(50)	1,142(45)	990(39)	11,000(24,300)

**NOTES:**

1. Intermediate size kneaders can be provided for special applications
2. Dimensions and weights are approximate and should be used for reference only



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