

The Cross Drive<sup>™</sup> is an internally geared belt conveyor head pulley. It has the same gear reducer with the same 96% mechanical efficiency as the drum motor.

The Cross Drive<sup>™</sup> has all vital components such as gears, bearings and seals permanently lubricated within the drive shell. The electric motor is mounted externally on the faceplate of the Cross Drive<sup>™</sup>, which has been designed to **accept any standard C flange mount electric motor** or the exclusive **VDG design Pancake motor** that reduces the overall motor length by up to 50%. Installation and removal of the electric motor is quick and easy, requiring only four bolts.



- **INCREASE PRODUCTION**
- REDUCE OPERATING COSTS
- **SAVE ENERGY & MAINTENANCE COSTS**

XD160 CROSS DRIVE (6.5" diameter)				
GEAR RATIO	BELT SPEED (ft/min)			
	@3450 rpm up to 3 hp	@1750 rpm up to 2 hp	@1150 rpm up to 1 hp	
17.52 : 1	335	170 1	12	
18.70 : 1	314	1591	05	
20.15 : 1	291	148	97	
21.00:1	279	142	93	
23.04 : 1	256	129	85	
25.72:1	228	116	76	
27.39:1	213	108	71	
29.36 : 1	200	101	67	
34.63 : 1	169	86	56	
38.25 : 1	153	78	51	

XD215 CROSS DRIVE (8.5" diameter)				
GEAR RATIO	BELT SPEED (ft/min)			
	@3450 rpm up to 7.5 hp	@1750 rpm up to 5 hp	@1150 rpm up to 2 hp	
18.66 : 1	410	208 1	37	
21.01 : 1	365	185 1	22	
22.50 : 1	340	173 1	13	
24.29 : 1	315	160 1	05	
26.24 : 1	292	148	97	
29.54 : 1	259	132	86	
31.64 : 1	242	123	81	
34.16 : 1	224	114	75	
37.24 : 1	206	104	69	
41.08 : 1	186	95	62	



# **CROSSDRIVE™ DESIGN**



### INCREASES OPERATIONAL SAFETY

- Exceeds OSHA safety requirements
- No exposed rotating shaft
- No external moving parts



- HIGH EFFICIENCY AC PANCAKE MOTOR (SHORT-EGRESS)
  - Reduces motor protrusion —
  - Approximately half the length of a standard electric motor
  - Designed for use with variable frequency drives

### **REDUCES DOWNTIME / INCREASES SYSTEM AVAILABILITY & MAINTAINABILITY**

- Electric motor is quickly and easily released from system (4 bolts)
- Easy connect Lovejoy coupling between pulley and motor
- Works with standard NEMA C-face motors or with the VDG PANCAKE motor



#### **REDUCES MAINTENANCE**

- No grease ports
- Internal oil-bath lubricates bearings and gears

#### **EASILY RETRO-FITTABLE**

- Flange and block mount brackets available with standard bolt pattern
- Works with standard NEMA C-face motors

## **NO EXTRA MOTOR / GEARBOX SUPPORT-STRUCTURE NEEDED**

- **INCREASE UPTIME & THROUGHPUT**
- **REDUCE MOTOR PROTRUSION**
- INCREASE SAFETY

