



ROLLER COMBO HOISTS

Patent #4,741,576

OPTIMUM PERFORMANCE & DURABILITY



TOP-QUALITY CONSTRUCTION

- Removable pins or greaseless composite bearings are available
- Gear pumps combined with UHMW wear plates, maintenance-free Teflon® composite bearings, o-ring porting
- Premium Quality Cylinders made from high-strength steel tubing feature chromed shafts, close-tolerance pistons and high-pressure seals
- Hoist and rear hinge are greasable for top performance and service life

A BETTER HOIST FROM START TO FINISH

With all the benefits of a scissors hoist and a double arm hoist incorporated into a single unit, Crysteel's Roller-Combo is one of the most effective hoists available. The innovative design provides optimum breakaway power at the start and consistent power throughout the entire dumping cycle, ideal for full load dumping applications. Plus, the full-length subframe provides stability and added strength to the truck frame. Load after load, the Roller-Combo Hoist delivers power and efficiency!

ADDED STABILITY

Channel-type, full-length subframes are used on all models. The Roller-Combo square box frame and far-forward lifting point on the hoist add stability and rigidity to the hoist.

GREATER HYDRAULIC EFFICIENCY

The Roller-Combo hoist high-pressure hydraulics maximize the efficiency of closed-center load-sensing over low-pressure hydraulics. This is because the hoist's hydraulic cylinders have low volume displacement.

Low-pressure hydraulics: Crysteel's three low-pressure Roller-Combo hoists (2000-2200 psi) provide power and the capability to match up perfectly with your low-pressure central hydraulic system.

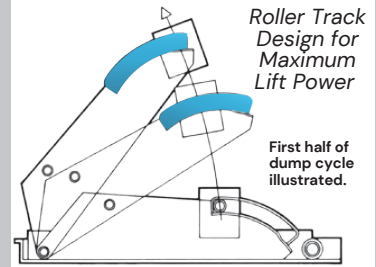
CRYSTEEL'S HY-FLO™ TWIN ELECTRIC POWER UNIT

System offers faster installation time, high-pressure, high-flow hydraulics, and push button control for simple operation.

Full-length subframe and combination valve/reservoir are standard. Take a closer look at Crysteel's Roller-Combo Hoist!

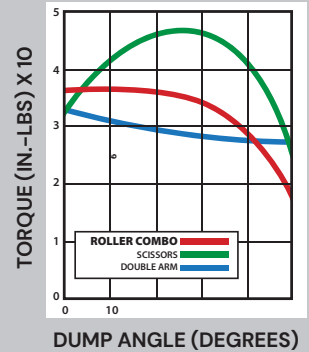


HOW THE ROLLER COMBO WORKS



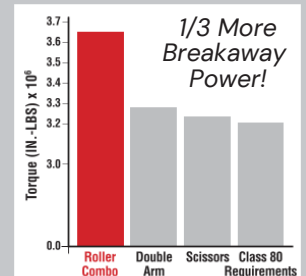
At beginning of cycle, short arm position of roller allows almost 1/3 more breakaway power to start heavy loads. As load rises, roller moves along its track, increasing effective length of upper hoist arm. When roller reaches end of track, hoist automatically becomes scissors-type hoist, with enough power to easily finish dump cycle.

MORE TORQUE THROUGHOUT DUMP CYCLE



MORE BREAKAWAY POWER

Crysteel's patented "Roller-Combo" feature provides more power when you need it most – at breakaway. Power remains steady throughout the critical dumping cycle.



ROLLER COMBO HOIST LOAD CAPACITY IN TONS*

Roller Combo Model	NTEA Class	Body Length (ft.)									
		8	9	10	11	12	13	14	15	16	17
RC 650	50	26.6	22.8	19.9	17.7						
RC 860	60		25.7	22.4	20	17.9					
RC 690	90					34.0	30.9	28.4	26.2	24.3	
RC 6100	100							34.9	32.2	29.9	27.9

ROLLER COMBO HOIST SPECIFICATIONS

	RC 650	RC 860	RC 690	RC 6100
NTEA Performance Class	50	60	90	100
Double-Acting Cylinder	Standard	Standard	Standard	Standard
Number of Cylinders	1	1	2	2
Cylinder Bore and Stroke (in.)	6 x 21 5/8	8 x 21 5/8	6 x 32 1/2	6 x 32 1/2
Chromed Shaft Diameter (in.)	2 1/4	2 1/4	2 3/8	2 3/8
Maximum Operating Pressure (PSI)	3250	2000	2200	2700
Std. Pump GMP @1000 RPM	6	10	15	15
Std. Reservoir Size (gal)	10	10	18	18
Recommended Body Length (ft.)	8-11	9-12	14-16	14-17
Mounting Height (in.)	13 1/2	13 1/2	16 1/2	16 1/2
Approximate Weight (lbs)	770	830	1850	1850

Specifications subject to change.

*Capacities based on water-level load, 12" overhang, 50° dump angle, and includes body weight.

CAUTION: Combined weights of truck, body, hoist, and load must not exceed the truck's Gross Vehicle Weight rating.

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