

# Pre-Engineered Belt Terminal Groups



# Pre-Engineered Solutions

Pre-engineered systems are designed to be mobile, modular and flexible. Easily transported for use in different areas of the mine, our pre-engineered belt terminal groups reduce lead times and can be used in multiple bulk-material handling applications.

## Drives

Cat® drives are designed for ease of setup, installation and transportation in and around the mine.

### Combo Drive (150 HP)

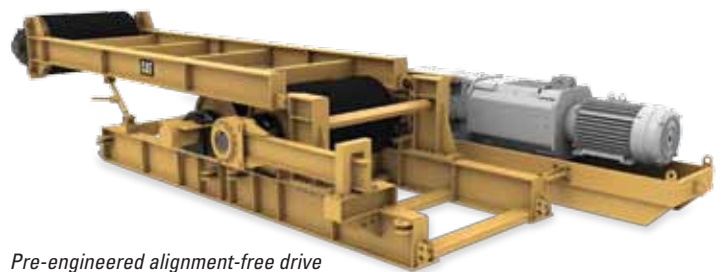
- Discharge, take-up, snub and drive pulley
- Drive and take-up is all on one base (with heavy duty welded take-up cylinder)
- Attached boom with ratchet jacks
- 5 ft (1.5 m) take-up carriage travel
- 10 hp (7.5 kW) hydraulic power pack
- Perfect for short panel runs up to an average of 1,500 ft (450 m)



*Pre-engineered combo drive*

### Alignment-free Drive

- Drive pulleys with MSHA diamond lagging
- Power modules mounted in transport sleds
- Ridged flange low-speed couplings with guarding
- Heavy-duty primary belt cleaner assembly
- Complete lantern assemblies



*Pre-engineered alignment-free drive*

## Hydraulic Take-Up & Storage Units

Take-ups and storage units apply continuous and accurate pressure on the shaft and bearing supporting slack removal and responsive belt tension.

- Heavy-duty two-piece frame
- Drum pulleys with MSHA lagging
- 20 or 30 ft of moving carriage travel
- Solid diameter sheaves with brass bushings, pins and grease fittings
- Non-rotating wire rope and hardware
- Hold-up roller assembly
- Heavy-duty welded hydraulic cylinder



*Pre-engineered take-up*

## Remote Discharges

Designed for in-line 30-, 60- or 90- degree transfer points, the remote discharge efficiently transfers material to the conveyor belt.

- Heavy-duty welded base frame
- Discharge pulley with MSHA lagging
- Designed with either fixed or adjustable boom



*Pre-engineered remote discharge*

## Tail Sections

Cat tail sections are designed to receive discharges from a variety of haulage equipment.

- Lubrication manifold both sides
- Removable panel guarding
- Return v-plow or side plow
- Spiral tail pulley
- Moon slider in impact area
- Heavy-duty sloped- or flat-frame standard design



Pre-engineered tail section

### Advantages of Pre-engineered Belt Terminal Groups

- **Mobile** – easy to move in and around mines
- **Modular** – made with standard materials and components for easy assembly and repair
- **Flexible** – can be used in multiple applications (within design constraints of the BTG)
- **Fast** – reduce lead times
- **Pre-designed** – meeting customer needs

Model	Belt Width	Style	Power	Power Pack	Belt Tension	Length	Lift	Capacity	Carriage Travel	Pulley Dia&Face	Bearings P-Block	Speed	Length	Width	Height
48AFD300-LH 48AFD300-RH (2 x 150 hp)	48"	–	Up to 300 hp	–	–	Up to 5,500'	Lift 0'-60'	1,800 thp	–	–	–	550 fpm	28' 5 1/4"	11' 0"	Min. 52 5/8" Max. 78 1/2"
48AFD400-LH 48AFD400-RH (2 x 200 hp)	48"	–	Up to 400 hp	–	–	Up to 5,500'	Lift 0'-60'	2,200 thp	–	–	–	650 fpm	28' 5 1/4"	11' 0"	Min. 59 5/8" Max. 84 1/16"
48AFD500-LH 48AFD500-RH (2 x 250 hp)	48"	–	Up to 500 hp	–	–	Up to 5,500'	Lift 0'-60'	2,200 thp	–	–	–	650 fpm	28' 5 1/4"	11' 0"	Min. 59 5/8" Max. 84 1/16"
48CB150	42"/48"	–	150 hp	–	–	1,500'	0'-40'	1,200 thp	–	–	–	580 fpm	23' 7 7/10"	–	–
48TU300-20-R 48TU300-20-L (2 x 150 hp)	48"	–	Up to 300 hp	25 hp	Up to 6,500 lbs	–	–	–	20'	24'x52'	4 15/16"	–	27' 0"	8' 0"	–
48TU300-30-R-57 48TU300-30-L-57 (2 x 150 hp)	48"	–	Up to 300 hp	25 hp	Up to 6,500 lbs	–	–	–	30'	24'x57'	4 15/16"	–	37' 3/4"	8' 2 1/4"	–
48TU500-30-R 48TU500-30-L (2 x 250 hp)	48"	–	Up to 500 hp	40 hp	Up to 6,500 lbs	–	–	–	30'	24'x57'	5 15/16"	–	37' 3/4"	8' 5"	–
48RD300 (2 x 150 hp)	48"	–	Up to 300 hp	–	–	–	–	–	–	24'x52'	4 15/16"	–	13' 3"	Min. 52 5/8" Max. 78'	–
48RD500 (2 x 250 hp)	48"	–	Up to 500 hp	–	–	–	–	–	–	30'x57'	5 15/16"	–	13' 3"	Min. 59 5/8" Max. 84'	–
48TL300 (2 x 150 hp)	48"	Flat	Up to 300 hp	–	–	–	–	–	–	16'x52'	4 15/16"	–	14' 9 3/4"	24'	–
48TL300-S (2 x 150 hp)	48"	Sloped	Up to 300 hp	–	–	–	–	–	–	24'x57'	4 15/16"	–	12' 4"	Min. 24' Max. 30'	–
48TL500-F (2 x 250 hp)	48"	Flat	Up to 500 hp	–	–	–	–	–	–	20'x57'	5 15/16"	–	14' 7 3/4"	31'	–
48TL500-S (2 x 250 hp)	48"	Sloped	Up to 500 hp	–	–	–	–	–	–	20'x57'	5 15/16"	–	12' 4"	Min. 24' Max. 30'	–

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For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [mining.cat.com](http://mining.cat.com) and [www.cat.com](http://www.cat.com)

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