

45 Tonne Belt Winder

200,000 Nm Conveyor Belt Winder

Alcaro Hydraulics Conveyor Belt Winder - heavy-duty, quality construction, guarantees you superior function and reliability. This unit has been modified to suit most mine site requirements.

Winder Unit Features

Spec - 1A: Winder unit

84" (2.134m) Belt, 3.65 m Diameter, 45 tonne

- Planetary gear box - 150,000 Nm Torque required.
- 200,000 Nm Max torque
- 0.5 – 3.1 Rpm
- Variable speed
- Park brake installed on hydraulic motor
- 30 Kw
- Ratio 995 : 1
- Shrink disk & Single torque arm
- Capacity 45 tonne
- 150 mm square shaft 4140
- Heavy duty skid mount
- Floor anchoring points x 4
- output shaft 150 mm
- Chuck assembly 6 " square
- All lifting points and structural certified
- All platforms and stairs to Aust. Standards



Hydraulics

- 30 Kw – Electric over hydraulic Power unit
- Closed loop transmission pump 125 cc/rev fitted with operator safety solenoid valve (brake engage)
- Power limited, electronic displacement control,
- Fixed ramp Up / Down control, Horse power controlled
- Gear pump for cooling.
- Air blast cooler
- 200 litre reservoir - Powder coated
- No oil supplied high temp oil recommended
- 10 micron absolute return filter
- Oil level / high temp switch with thermal switch



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Electrics

- Electrical control box IP 65 S/Steel
- HMI interface screen
- CAN - OPEN , IFM Control unit
- Fault finding screen
- Rated 85 degree C and 50 G
- Electrical control box IP 65
- Variable ramp Up/Down control
- Data Logging
- Emergency stop x 3
- Radio Control
- Local / remote control



Radio Control Unit

- The radio remote control unit is included as standard.
- The radio transmitter control unit is battery powered, comes with a charger, straps around the operator's neck or hand held.
- The radio receiver is fitted in the electrical box and is strong up to 100 meters line of sight.
- The transmitter is rated IP67/NEMA4X.
- The Unit comes with a CAN umbilical cord for non RF link.
- Frequency hopping to make interference virtually eliminated

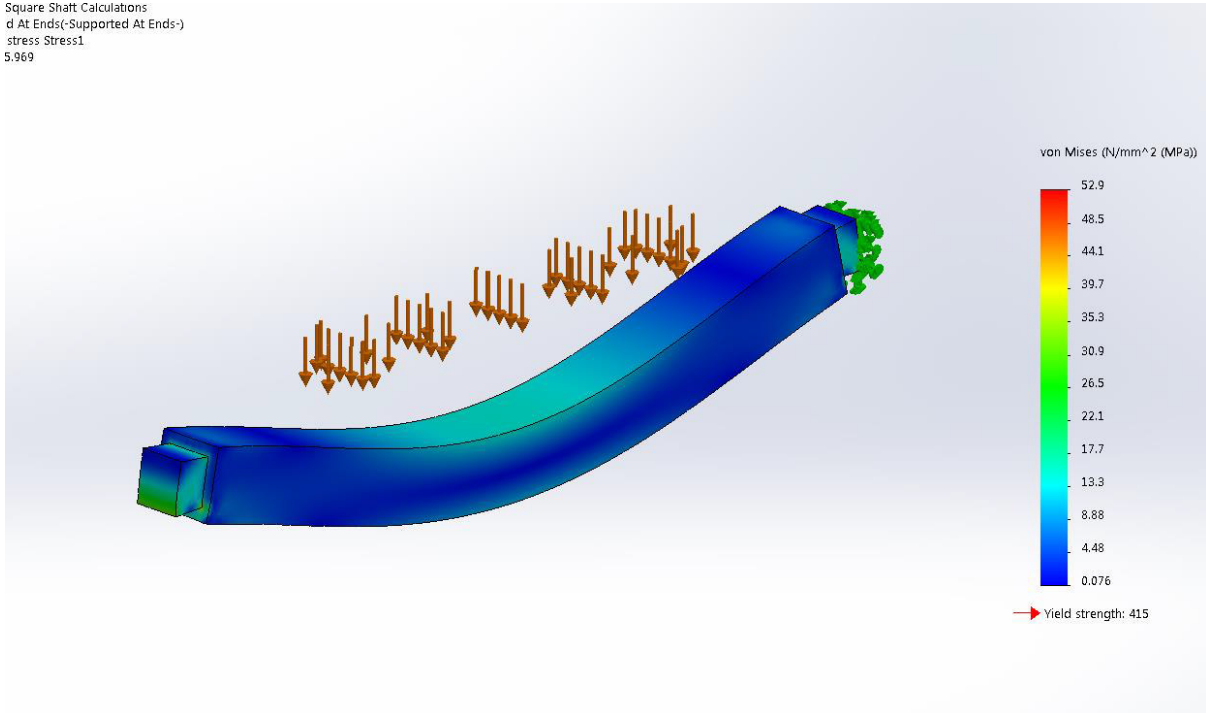
Load Spec

- Width - 5000 mm
- Length - 2400 mm
- Height - 3200 mm
- Centre height - 2900 mm
- Weight - 10 Tonne



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Square Shaft Calculations
 d At Ends(-Supported At Ends-)
 stress Stress1
 5.969



ALCARO HYDRAULIC SERVICES		Model 45T-GRA1201		
Motor/Gearbox/ (Kw)	30 Kw			
Brake (Nm)		Shaft Diameter		185 mm
Output Speed (MAX RPM)	5.1	WLL	2400mm Belt Width	99 Tonne
Output Torque (Nm)	150,000 Nm		2100mm Belt Width	92 Tonne
Control	Variable		1800mm Belt Width	86 Tonne
Power Source 3Ph 480 Vac 50Hz 4 Pin	52 Amp		1600mm Belt Width	82 Tonne
Reel Diameter (MAX mm)	5 Metres			
Belt Width (Max mm)	2.4 Metres			
Line Pull (Max Tonnes @ 500mm)	60,000 Nm			