<table>
<thead>
<tr>
<th>MODEL</th>
<th>GROSS POWER</th>
<th>ENGINE</th>
<th>WEIGHT RANGE</th>
<th>ROCKSAW DIG DEPTH / DIG WIDTH</th>
<th>CHAINSAW DIG DEPTH / DIG WIDTH</th>
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<th>ROCK HAWG DIG DEPTH / DIG WIDTH</th>
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<tbody>
<tr>
<td>775DT</td>
<td>225 hp (168 kW)</td>
<td>Caterpillar C6.6 ACERT</td>
<td>34,171-55,000 lbs (15,500-24,947 kg)</td>
<td></td>
<td></td>
<td>6' 6&quot; (198 cm) 18&quot;-30&quot; (46-76 cm)</td>
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<tr>
<td>975</td>
<td>325 hp (242 kW)</td>
<td>Caterpillar C9 ACERT</td>
<td>55,116-72,752 lbs (25,000-33,000 kg)</td>
<td>4'-10&quot; (122-305 cm) 12&quot;-36&quot; (30-91 cm)</td>
<td></td>
<td>0'-7&quot; (0-213 cm) 20&quot;-40&quot; (51-102 cm)</td>
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<tr>
<td>1075</td>
<td>325 hp (242 kW)</td>
<td>Caterpillar C9 ACERT</td>
<td>87,000-92,000 lbs (39,462-41,730 kg)</td>
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<tr>
<td>1085</td>
<td>325 hp (242 kW)</td>
<td>Caterpillar C9 ACERT</td>
<td>85,000-95,000 lbs (38,556-43,092 kg)</td>
<td>4'-8&quot; (122-244 cm) 18&quot;-28&quot; (45-71 cm)</td>
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<tr>
<td>1150XHD</td>
<td>440 hp (328 kW)</td>
<td>Caterpillar C13 ACERT</td>
<td>110,231-132,278 lbs (50,000-60,000 kg)</td>
<td>6'-12&quot; (183-366 cm) 18'-42&quot; (45-107 cm)</td>
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<tr>
<td>1175XHD</td>
<td>440 hp (328 kW)</td>
<td>Caterpillar C13 ACERT</td>
<td>126,000-141,000 lbs (57,152-63,956 kg)</td>
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<td></td>
<td>3'-9&quot; (91-274 cm) 30'-54&quot; (76-137 cm)</td>
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<tr>
<td>1375</td>
<td>540 hp (403 kW)</td>
<td>Caterpillar C15 ACERT</td>
<td>160,000-175,000 lbs (72,575-79,379 kg)</td>
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<td></td>
<td>3'-9&quot; (91-291 cm) 36'-66&quot; (91-168 cm)</td>
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<tr>
<td>1475</td>
<td>630 hp (470 kW)</td>
<td>Caterpillar C18 ACERT</td>
<td>169,756-242,509 lbs (77,000-110,000 kg)</td>
<td>8'-16&quot; (244-488 cm) 32'-48&quot; (81-122 cm)</td>
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<tr>
<td>1575</td>
<td>630 hp (470 kW)</td>
<td>Caterpillar C18 ACERT</td>
<td>210,000-248,000 lbs (95,255-112,491 kg)</td>
<td>3'-8&quot; (112-304 cm) 34'-72&quot; (86-183 cm)</td>
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<tr>
<td>1675</td>
<td>760 hp (567 kW)</td>
<td>Cummins QSK 19</td>
<td>249,124-308,649 lbs (113,000-140,000 kg)</td>
<td>8'-24&quot; (244-732 cm) 28'-72&quot; (71-183 cm)</td>
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<tr>
<td>M3</td>
<td>350 hp (261 kW)</td>
<td>Caterpillar C9 ACERT</td>
<td>95,000-135,000 lbs (43,091-61,235 kg)</td>
<td>6'-12&quot; (183-366 cm) 26'-40&quot; (66-102 cm)</td>
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<tr>
<td>M5</td>
<td>440 hp (328 kW)</td>
<td>Caterpillar C13 ACERT</td>
<td>140,000-161,000 lbs (63,502-73,028 kg)</td>
<td>6'-16&quot; (183-488 cm) 30'-42&quot; (76-107 cm)</td>
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</table>

**Main Technical Specifications**

Trenchers for Pipeline construction
Bucket Wheel version of the 775DT CS, this light bucket-trencher can grant an even higher productivity in terms of meters-yards per hour. TrenchTronic equipped, this machine has been specially developed to be employed in “dirty” excavation; its compact dimensions and weight make the 775DT BW very easy to use and transport.
Standard Features
Pressurized cab with air conditioning, heating, sound suppression and ROPS structure
TrenchTronic 3.0 electronic machine control with:
- Operator selectable digging pressure and automatic operation
- Fully automatic operation
- Remote diagnostic system
Electrical system: 24 V

Automatic/manual operation
- Track tilt angle: 10°
- Self-leveling (tilting) undercarriage:
  - Electrical system: 24 V
  - Remote diagnostic system
  - Fully automatic operation

Max horsepower.........................225 hp (168 kW)
Model........................................CAT C6.6 TA Tier 3
Engine

Note:
- Operator selectable digging pressure and
- TrenchTronic 3.0 electronic machine control
- Heating, sound suppression and ROPS structure
- Pressurized cab with air conditioning, pre-cleaner and automatic dust ejection

Operating and Transport Weight
Estimated weight.........................47,000-52,000 lbs

Ground pressure........................(21.318-23.587 kg)

Note: dependent on configuration and options

Trencher Drive
Hydrostatic: one pump and two motors
Infinitely variable digging wheel speeds...0-12 rpm
Dirt cutters: spade-type teeth
Fixed crumshoe: with manual quick disconnect
Wheel truck assemblies:
- Six assemblies, two upper and one lower with standard 10" (25.4 cm) diameter wheels
- Modular designed "Truck-spindle and bearings" are the same on all assemblies

Headshaft assembly:
- Alloy steel shaft with keyway, hubs and tapered keys for multiple bucket setups
- Single lever direction

Crawler Drive
Hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
Infinitely variable speed: forward and reverse
Speed range.........................0-2.1 mph (0-3.3 km/hr)
Integral parking and service brake: spring applied, hydraulic release, wet disc brake

Tracks
Overall track length.......................11' 1.9" (340 cm)
Track pad type: single grouser, chamfered edges
Track chain type: FL6
Track pad width..............................2' 7" (80 cm)

Hydraulic Transmission
- Pressure and flow compensated (load sensing)
- Pump flow maximum..............53 gpm (201 l/min)
- Pressure setting......................2.500 psi (180 bar)
- Oil tank capacity......................77 gal (290 l)

Cross Conveyor
- Pressure and flow compensated pump with dual hydraulic drive motors
- Reversible and shiftable
- Belt speed infinitely variable
- Discharge direction: right or left
- Conveyor belt width......................1' 6" (46 cm)
- Conveyor length.........................8' 4" (255 cm)
- Discharge height.......................3' (91.44 cm)

Transport Dimensions
- Length..............................34' 2" (1.036 cm)
- Width..................................8' 4" (255 cm)
- Height over cab and...................10' 2" (310 cm)

Available Devices
Work light package: 24 V, for night use
Automatic laser control system for depth control (Trimble make)
Mid-size Chainsaw Trencher conceived for rock excavation for utilities projects such as fiber optic, electric cables, water conduits, pipelines and other. The 975 can be equipped with elevating cabin and tilting tracks; upon request it can also fit an automatic laying system for fiber optic back-bone projects or electric cable networks. TrenchTronic 3.0 equipped.
Standard Features
Pressurized cab with air conditioning, heating, sound suppression
Elevating cab module with roll over protection (ROPS)
TrenchTronic 3.0 electronic machine control with:
• Operator selectable digging pressure and automatic operation
• Fully automatic operation
• Remote diagnostic system
Electrical system: 24 V
Anti vibration isolator mounts: used on engine, radiator/oil cooler unit and cab
Stabilizers with trench cleaners: automatically adjust to terrain changes
Positive locking digging chain adjustment

Trenching Dimensions
SINGLE BOOM
• Max depth.................................10’ (305 cm)
• Widths range...........................12”-18” (30-45 cm)
DOUBLE LINK BOOM
• Max depth.................................10’ (305 cm)
• Widths range...........................18”-28” (45-71 cm)
DOUBLE BOOM
• Max depth.................................8’ (244 cm)
• Widths range...........................24”-36” (61-91 cm)
Note: dependent on configuration and options

Engine
Model..................................CAT C9 ACERT Tier 3
Max horsepower..........................325 hp (242 kW)
Max no load rpm..........................2,000 rpm
Fuel tank capacity.......................193 gal (730 l)
Fuel consumption....................15.4 gal/hr (58.3 l/hr)
Cooling rating adequate for 122° F (50° C)
ambient air temperature
Air cleaner: dry type, 2 stages with pre-cleaner and automatic dust ejection

Operating and Transport Weight
Weight........................................65,116-72,752 lbs (25,000-33,000 kg)
Ground pressure............................9.7-12.4 lbs/Sq Inch (0.68-0.90 kg/cm²)
Note: dependent on configuration and options

Trencher Drive
Hydrostatic: one pump and two motors capable of transmitting full engine horsepower
Flywheel gearboxes
Infinately variable digging chain speeds
.............................................0-525 fpm (0-160 m/min)
Tesmec designed single strand or double link 4.5” (11.4 cm) pitch chain, “K” style
Standard cutters: rotary carbide tipped 1 ½” (3.8 cm) shank diameter
Optional cutters: single edge, hard surfaced spade teeth for dirt - Tesmec dirt tool with 1 ½” (3.8 cm) shank diameter

Crawler Drive
Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation
with single lever steering, single lever direction
Infinately variable speed: forward and reverse
Speed ranges:
• High range.................................0-2.5 mph (0-4 km/hr)
• Low range.................................0-1.4 mph (0-2.2 km/hr)
Integral parking and service brake: spring applied, hydraulic release, wet disc brake

Tracks
Overall track length..........................9” 9” (298 cm)
Track pad type: triple grouser
Track chain type: Caterpillar D5
Track pad width............................2” (61 cm)

Hydraulic Transmission
Pressure and flow compensated (load sensing)
Pump flow maximum........................43 gpm (164 l/min)
Pressure setting..................................2,500 psi (17 bar)
Oil tank capacity.................................73 gal (275 l)

Cross Conveyor
Pressure and flow compensated pump with dual hydraulic drive motors
Reversible and shiftable
Belt speed infinitely variable
.............................................0-790 fpm (0-240 m/min)
Discharge direction: right or left
Conveyor belt width........................1’ 11” (60 cm)
Conveyor length.............................8’ 3” (250 cm)
Discharge height.............................4’ 9” (145 cm)

Transport Dimensions
Length with crumbshoe without truck loading conveyor..........................4 ft boom: 27’ 6” (839 cm)
.............................................6 ft boom: 29’ 10” (909 cm)
.............................................8 ft boom: 32’ 6” (990 cm)
.............................................10 ft boom: 34’ 8” (1,059 cm)
Width, no motor removal..................8’ 7” (261 cm)
Width, with motor removal...............8’ 4” (254 cm)
Height ........................................10’ 4” (315 cm)

Available Devices
Work light package: 24 V, for night use
Laser control system pre-wire
Hydraulic crumbshoe
Cab anti-vandalism window covers
Polyurethane or rubber track pads
TESMEC combination digging tool holders

Available on special order
Tilt tracks:
• Track tilt angle: 9° each direction (18° total)
• Automatic/Manual operation

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Ed. 2013/11
PICTURES & DRAWINGS CAN BE DIFFERENT ACCORDING TO TECHNICAL SPECIFICATIONS - UPDATING PROGRAMME VARIATIONS WITHOUT NOTICE ARE POSSIBLE
THE 1075 BW MODEL HAS BEEN DESIGNED AS A HIGH-PRODUCTIVITY TRENCHER FOR PIPELINES AND UTILITIES PROJECTS IN DIRT AND LIGHT ROCKY SOILS. ITS BUCKETS CAN BE EQUIPPED WITH CONICAL OR SPADE TOOLS TO ENSURE THE MAXIMUM PRODUCTIVITY ACCORDING TO THE RELEVANT GROUND CONDITIONS.
Standard Features
Pressurized cab with air conditioning, heating, sound suppression
Elevating cab module with roll over protection (ROPS)
Load control: operator selectable digging pressure, automatic operation
Stabilizers with adjustable berm scrapers on Chainsaw model
Electrical system: 12 V./24 V.

Trenching Dimensions
Digging depth, dirt.................standard 7 ft (213 cm)
Digging depth, dirt.................optional 8 ft (244 cm) with the Tesmec “Extended-Depth Buckets”
Digging depth, rock.....................7 ft (213 cm)
Widths of cut: 7 ft-Dirt...........20” Min. (11” Bucket) to max. 40” (28” bucket) (51-102 cm)
Widths of cut: 8 ft-Dirt...........20” Min. (11” Bucket) to Max. 24” (16” Bucket) (51-61 cm)
Widths of cut: 7 ft-Rock...........20” Min. (11” Bucket) to 26” (16” Bucket) (51-66 cm)

Engine
Model..................................CAT C9 ACERT Tier 3
Max horsepower......................325 hp (242 kW)
Max no load rpm......................2,200 rpm
Fuel tank capacity..................216 gal (818 l)
Fuel consumption...................16.9 gal/hr (64 l/hr) at full load
Cooling rating adequate for 125°F (51.7°C) ambient air temperature
Air cleaner: dry type, centrifugal precleaner with primary and secondary filters

Operating and Transport Weight
Weight “Dirt”.......................83,000-92,000 lbs (37,487-41,730 kg)
Weight “Rock”.......................87,000-92,000 lbs (39,462-41,730 kg)

Note: dependent on configuration and options

Trencher Drive
Hydrostatic: two pumps and two motors capable of transmitting full engine horsepower
Digging wheel speed....................0.115 rpm

Crawler Drive
Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
Infinitely variable speed: forward and reverse

• High range.......................0-2.5 mph (0-4.0 km/hr)
• Low range.......................0-1.3 mph (0-2.1 km/hr)

Integral parking brake: spring applied, hydraulic release, wet disc brake

Tracks
Overall track length.................10’ 9” (328 cm)
Track pad type: single, double, or triple grouser
Track chain type: Caterpillar D5
Track pad width.......................2’ 8” (81 cm)

Hydraulic Transmission
Pressure and flow compensated (load sensing)
Pump flow maximum..............45 gpm (170 l/min)
Pressure setting...................2,500 psi (172 bar)
Oil tank capacity.....................108 gallons (406.7 l)

Conveyor
Pressure and flow compensated pump with dual hydraulic drive motors
Reversible and shiftable
Belt speed infinitely variable

........................................0-1.000 fpm (0-304.8 m/min)
Discharge direction: right or left
Conveyor belt width..............2’ 12” (91.4 cm)
Conveyor length......................13’ (396 cm)
Discharge height.....................3’ 5” (104 cm)

Transport Dimensions
Length.................................37’ 0” (1.127 cm)
Width without digging motors......9’ 9” (296 cm)
Width with digging motors........10’ 2” (310 cm)
Height with cab.......................10’ 9” (327 cm)
Height with cab elevated...........13’ 2” (400 cm)
Height with crumbshoe.............10’ 6” (320 cm)

Available Devices
Sight rod kit (2 types)
Sloper kit
(for use with customer supplied cable and ends)
Hydraulic winch for conveyor fold

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Keep you updated on: www.tesmec.com
The largest off-set chain trencher for rock excavation, this model can be equipped with a digging chain up to 28" (71 cm) wide. The 1085 is a mid-size unit employed in electric cable and gas pipeline projects, it can be used also for other utilities projects such as water and slurry pipelines.
**Standard Features**
- Pressurized cab with air conditioning, heating, sound suppression
- Elevating cab module with roll over protection (ROPS)
- Load control: operator selectable digging pressure, automatic operation
- Tool box/battery box with locking door
- Engine doors with security locks
- Flywheel gearboxes and hydraulic tanks: pressurized with 5 psi (0.3 bar) filtered breathers
- Flywheel gearboxes: shaved, helical gearing, pressurized with 5 psi (0.3 bar) filtered breathers
- Vibration isolator mount: used on engine, radiator, case hardened for extreme shock load
- Calculation: operator selectable digging pressure, automatic operation
- Electrical system: 12V / 24V
- Oil cooler, and exhaust silencer

**Electrical System**
- 12V / 24V

**Engine**
- Max no load rpm: 2,100 rpm
- Max horsepower: 325 hp (242 kW)

**Trencher Drive**
- Hydrostatic: two pumps and two motors capable of transmitting full engine horsepower
- Infinitely variable digging chain speeds
  - Cutters: rotary carbide tipped 1” (2.5 cm) shank diameter
  - OPTIONAL cutters: rotary carbide tipped 1½” (3.81 cm) shank diameter
- Double link chain tensile strength
- Tailwheel diameter: 3' 4" (101.6 cm)
- Double link chain tensile strength

**Crawler Drive**
- Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation
- with single lever steering, single lever direction
- Infinitely variable speed: forward and reverse
  - High range: 0-3.1 mph (0-4.9 km/hr)
  - Low range: 0-1.3 mph (0-2.1 km/hr)
- Integral parking and emergency brake: spring applied, hydraulic release, wet disc brake

**Tracks**
- Overall track length: 10’ 9” (328 cm)
- Track pad type: single, double, or triple grouser
- Track chain type: Caterpillar D5
- Track pad width: 1’ 1” (56 cm)

**Operating and Transport Weight**
- Weight: 85,000-95,000 lbs (38,556-43,092 kg)

**Conveyor**
- Pressure and flow compensated (Load sensing)
- Pump flow maximum: 45 gpm (170 l/min)
- Pressure setting: 2,500 psi (172 bar)
- Oil tank capacity: 108 gal (408.7 l)

**Transport Dimensions**
- Length with crumbshoe: 8 ft (244 cm)
- Height with cab elevated: 13’ 4” (406 cm)
- Width: 8’ 3” (250 cm)

**Available Devices**
- Work light package: 24 V, for night use
- Laser control system pre-wire
- Cab anti-vandalism window covers
- Air compressor
50 METRIC TON-CLASS, TRENCHTRONIC 3.0 EQUIPPED ROCK TRENCHER FOR MID-SIZE PIPELINES; THE 1150XHD IS THE BEST-SELLING TESMEC TRENCHER. THIS MODEL IS EQUIPPED WITH A 440 HP ENGINE AND CAN DIG UP TO 12’ (366 CM) DEEP AND UP TO 42” (107 CM) WIDE, MAKING IT THE IDEAL TRENCHER FOR MID-SIZE PIPELINES AND UNDERGROUND UTILITIES.
Standard Features
Pressurized cab with air conditioning, heating, sound suppression
Elevating cab module with roll over protection (ROPS)
TrenchTronic 3.0 electronic machine control with:
- Operator selectable digging pressure and automatic operation
- Fully automatic operation
- Remote diagnostic system
Electrical system: 24 V
- Remote diagnostic system
- Fully automatic operation

Operating and Transport Weight
Weight.........................................................110,231-132,278 lbs
.........................................................(50,000-60,000 kg)
Ground pressure.........................................15.6-18.5 lbs/Sq In
.........................................................(1.1-1.3 kg/cm²)
Note: dependent on configuration and options

Trencher Drive
Hydrostatic: two pumps and two motors capable of transmitting full engine horsepower
Flywheel gearboxes: shaved, helical gearing, case hardened for extreme shock load
Infinitely variable digging chain speeds
..........................................................0 - 550 fpm (0-168 m/min)
Tesmec designed 6.5" pitch digging chain for single chain configuration or 4.5" pitch digging chain for double chain configuration
Cutters: rotary carbide tipped 1 1/2" (3.81 cm) shank diameter

Crawler Drive
Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
Infinitely variable speed: forward and reverse Speed ranges:
- High range...............0-2.77 mph (0-4.46 km/hr)
- Low range...............0-1.25 mph (0-2.01 km/hr)
Integral parking and service brake: spring applied, hydraulic release, wet disc brake

Hydraulic Transmission
Pressure and flow compensated (load sensing)
Pump flow maximum.........................................................63.4 gpm (240 l/min)
Pressure setting.........................................................2,500 psi (172 bar)
Oil tank capacity.........................................................100 gal (378.5 l)

Cross Conveyor
Pressure and flow compensated pump with dual hydraulic drive motors
Reversible and shiftable
Belt speed infinitely variable
..........................................................0-750 fpm (0-229 m/min)
Discharge direction: right or left
Conveyor belt width..........................2' 6" (76 cm)
Conveyor length...............................................13' 8" (416 cm)
Discharge height..........................4'-4"-5'-11" (123-181 cm)

Transport Dimensions
Length with crumbshoe with crumbshoe and counterweight........6 ft boom: 36’ 5" (1.112 m)
..................8 ft boom: 38’ 5" (1.172 m)
..................10 ft boom: 40’ 9" (1.242 m)
..................12 ft boom: 42’ 9" (1.304 m)
Width*...............................................2' 0” (60 cm)
Height with cabin..........................6' ft MACHINE SHOWN
Width*...............................................6' ft MACHINE SHOWN

Available Devices
Work light package: 24 V, for night use
Laser control system
Hydraulic crumbshoe
Cab anti-vandalism window covers
TESMEC combination digging tool holders
60 metric ton-class Bucket Wheel trencher for mid to big size pipelines and utilities excavation in “dirt” and light rocky soils; the 1175XHD model is as a high-productivity machine that can be equipped with conical or spade tools to ensure the maximum productivity according to the different ground conditions.
1175XHD Bucket Wheel Trencher

**Standard Features**
- Pressurized cab with air conditioning, heating, and sound suppression
- Elevating cab module with roll over protection (ROPS)
- External support structure for elevating cab, wearpad design with adjustment
- Load control: operator selectable digging pressure, automatic operation
- Battery box and toolbox with locking door
- Engine doors with security locks
- Fuel and hydraulic tank: aircraft quality locking caps
- Flywheel gearboxes and hydraulic tanks: pressurized with 5 psi (0.3 bar) filtered breathers
- Vibration isolator mount: used on engine, radiator, oil cooler, and exhaust silencer
- Stabilizers / dirt drags: automatically adjust to terrain changes.
- Lights: 24 V forward facing
- Electrical system: 12 /24 V

**Trenching Dimensions**
- Depths:
  - 3 ft min (91 cm) with boom level to max 9 ft (274 cm)
  - Widths of cut, Dirt: 30" (76 cm) to 54" (137 cm)
  - Widths of cut, Rock: 30" (76 cm) to 72" (183 cm)
- Note: dependent on configuration and options

**Engine**
- Model: CAT C13 ACERT Tier 3
- Max horsepower: 440 hp (328 kW)
- Max no load rpm: 2,100 rpm
- Fuel tank capacity: 295 gal (1,124 l)
- Fuel consumption: 22.7 gal/hr (86 l/hr) at full load
- Cooling rating adequate for 122° F (50° C) ambient air temperature
- Air cleaner: dry type, centrifugal precleaner with primary and secondary filters

**Operating and Transport Weight**
- Weight "Dirt": 135,000-142,000 lbs (61,235-64,410 kg)
- Weight "Rock": 142,000 lbs (64,410 kg)
- Note: dependent on configuration and options

**Trencher Drive**
- Hydrostatic: four pumps and two motors capable of transmitting full engine horsepower
- Three operator selectable wheel speeds: 0-6.8 rpm, 0-10.3 rpm, 0-13.7 rpm
- Center pull articulated wheel
- Heavy-duty trapezoid design boom
- Heavy-duty hydraulic lift and tilt cylinders
- Fixed crumbshoe
- Hardened alloy steel shaft with multiple flanges for easy "digging-width" changes
- Hardened reversible split drive sprockets
- Four truck assemblies, two upper and two lower with standard 14" (35.6 cm) ride diameter wheels

**Crawler Drive**
- Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
- Infinitely variable speed: forward and reverse
- Speed ranges:
  - High range: 0-3.0 mph (0-4.83 km/hr)
  - Low range: 0-1.6 mph (0-2.57 km/hr)
- Integral parking and service brake: spring applied, hydraulic release, wet disc brake

**Tracks**
- Overall track length: 12' 2" (371 cm)
- Track pad type: single, double or triple grouser
- Track chain type: Caterpillar D7
- Track pad width: 2' 6" (76.2 cm)
- Optional track pad width: 2' (61 cm)

**Hydraulic Transmission**
- Pressure and flow compensated (load sensing)
- Pump flow maximum: 45 gpm (170 l/min)
- Pressure setting: 2,500 psi (172 bar)
- Oil tank capacity: 177 gal (670 l)

**Cross Conveyor**
- Pressure and flow compensated pump with dual hydraulic drive motors
- Reversible and shiftable
- Belt speed infinitely variable
- Discharge direction: right or left
- Conveyor belt width: 3' 5" (107 cm)
- Discharge height: variable
- Manual conveyor fold

**Transport Dimensions**
- Length: 44' 5" (1.354 cm)
- Width: 10' 4" (315 cm) with digging motors removed, 30" (76 cm) D7 track pads
- Height: 14' 1" (429 cm) over wheel with (3) buckets removed from bottom and (2) from the top

**Available Devices**
- Work light package: 24 V, for night use
- Laser control system pre-wire
- Hydraulic crumbshoe
- Cab anti-vandalism window covers
- Air compressor
- Twin hose reel package: connections to power hydraulic tools

**Additional Features**
- Optional track pad width: 2' 6" (76.2 cm)
- Min 30" (76 cm)
- Max 54" (137 cm)
- Weight "Rock": 135,000-142,000 lbs (61,235-64,410 kg)
- Weight "Dirt": 142,000 lbs (64,410 kg)
- Fuel consumption: 22.7 gal/hr (86 l/hr)
- Fuel tank capacity: 295 gal (1,124 l)
- Max no load rpm: 2,100 rpm
- Cool down rating for 122° F (50° C) ambient air temperature
- Air cleaner: dry type, centrifugal precleaner with primary and secondary filters

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**Notes:**
- PICTURES & DRAWINGS CAN BE DIFFERENT ACCORDING TO TECHNICAL SPECIFICATIONS - UPDATING PROGRAMME VARIATIONS WITHOUT NOTICE ARE POSSIBLE
70 metric ton-class Bucket Wheel trencher conceived as a high-productivity machine for big diameter pipelines and utilities projects in dirt and light rocky soils, this model can dig up to 9’6” (291 cm) deep and 66” (168 cm) wide. Its buckets can be equipped with conical or spade tools to ensure the maximum productivity according to the different ground conditions.
Standard Features
Pressurized cab with air conditioning, heating, sound suppression
Elevating cab module with roll over protection (ROPS)
Load control: operator selectable digging pressure, automatic operation
Toolbox with locking doors
Engine doors with security locks
Fuel and hydraulic tank: aircraft quality locking caps
Gearboxes and hydraulic tanks: pressurized with 5 psi (0.3 bar) filtered breathers
Air cleaner: dry type, centrifugal pre-cleaner
Cooling rate adequate for 122° F (50° C)
Fuel consumption................28.9 gal/hr (109.4 l/hr)
Fuel tank capacity........................376 gal (1.423 l)
Max no load rpm........................................2.100 rpm
Max horsepower..............................540 hp (403 kW)

Trenching Dimensions
Depths minimum 3 ft (91 cm) with boom level
..........................................................maximum 9’ 6” (291 cm)
Widths of cut.....from 36” (91 cm) to 66” (168 cm)
Note: dependent on configuration and options

Engine
Model...........................................CAT C15 ACERT Tier 3
Max horsepower.................540 hp (403 kW)
Max no load rpm.................2,100 rpm
Fuel tank capacity..............376 gal (1,423 l)
Fuel consumption.................28.9 gal/hr (110.4 l/hr)
Cooling rating adequate for 122° F (50° C)
ambient air temperature

Operating and Transport Weight
Weight........160,000-175,000 lbs (72,575-79,379 kg)
Note: dependent on configuration and options

Trencher Drive
Hydrostatic: four pumps and two motors
Three operator selectable digging speed ranges:
..........................................................0-7 rpm (351 ft/min) (107 m/min)
..........................................................0-10 rpm (500 ft/min) (152 m/min)
..........................................................0-12 rpm (600 ft/min) (183 m/min)
Digging rims: 1 ½” Plate (3.81 cm) shank. H&L dirt teeth and pockets. TESMEC combo pockets for dirt & conical tools. ESCO type teeth and adaptors

Crawler Drive
Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
Infinitely variable speed: forward and reverse
Speed ranges:
• High range............0-2.06 mph (0-3.3 km/hr)
• Low range.............0-1.17 mph (0-1.87 km/hr)
Integral parking and service brake: spring applied, hydraulic release, wet disc brake

Tracks
Overall track length...............12’ 3” (372 cm)
Track pad type: single grouser
Track chain type: Caterpillar D7
Track pad width.........................2’ 10” (86 cm)

Headshaft Assembly
Hardened alloy steel shaft with multiple flanges for easy “digging-width” changes
Hardened reversible split drive sprockets

Wheel Truck Assemblies
Four assemblies, two upper and two lower with standard 14” (35.6 cm) ride diameter wheels
Factory set heavy-duty tapered roller bearings

Hydraulic Transmission
Pressure and flow compensated (load sensing)
Pump flow maximum..................45 gpm (170 l/min)
Pressure setting..........................2,500 psi (172 bar)

Cross Conveyor
Hydrostatic: one pump and two motors
Reversible and shiftable
Belt speed infinitely variable
..........................................................0-1.000 fpm (0-305 m/min)
Conveyor belt width: right or left
............4’ (122 cm)
Discharge height: variable
Manual conveyor fold

Transport Dimensions
Length..........................45’ 3” (1.379 cm)
Width..........................14’ (427 cm)
Height..........................13’ 8” (417 cm)

Available Devices
Work light package: 24 V, for night use
Laser control system
Cab anti-vandalism window covers
Twin hose reel package: connections to power hydraulic tools
Straight conveyor with winch fold
90 METRIC TON-CLASS ROCK TRENCHER FOR MID TO BIG SIZE PIPELINES, THE 1475 IS THE SECOND LARGEST TESMEC CHAINSAW TRENCHER. TRENCHTronic 3.0 EQUIPPED, THIS 630 HP POWERED UNIT CAN DIG TRENCHES FOR BIG-DIAMETER PIPE UP TO 16’ (488 CM) DEEP IN THE TOUGHEST CONDITIONS.
Standard Features
Pressurized cab with air conditioning, heating, sound suppression
Elevating cab module with roll over protection (ROPS)
TrenchTonic 3.0 electronic machine control with:
  - Operator selectable digging pressure and automatic operation
  - Fully automatic operation
  - Remote diagnostic system
Battery box and toolbox with locking door
Fuel and hydraulic tank: aircraft quality locking caps
Flywheel gearbox and hydraulic tanks: pressurized with 5 psi (0.3 bar) filtered breathers
Flywheel gearbox: shaved, helical gearing, case hardened for extreme shock load
Vibration isolator mount: used on engine, radiator, oil cooler; and exhaust silencer
Stabilizers / dirt drags (chainsaw only): automatically adjust to terrain changes
Lights: 24 V forward facing
Adjust to terrain changes
Stabilizers / dirt drags (chainsaw only): automatically adjust to terrain changes
Hydraulic cooler externally mounted
Electronic system: 24 V

Trenching Dimensions
SECTIONABLE BOOM

- Depths range: 8' through 16' (244 cm through 488 cm)
- Min width: 32" (81 cm)
- Max width limited by depth:
  - Max width 48" (122 cm) at 12' (366 cm) depth
  - Max width 42" (107 cm) at 14' (427 cm) depth
  - Max width 36" (91 cm) at 16' (488 cm) depth

Note: dependent on configuration and options

Engine
Model: CAT C18 ACERT Tier 3
Max horsepower: 630 hp (470 kW)
Max no load rpm: 2,150 rpm
Fuel consumption: 34.6 gal/hr (131 l/hr) at full load
Cooling rating adequate for 122° F (50° C)
Ambient air temperature
Air cleaner: dry type, centrifugal pre-cleaner with primary and secondary filters

Operating and Transport Weight
Weight: 169,756-242,509 lbs (77,000-110,000 kg)
Ground pressure: 15-21.5 lbs/Sq Inch (0.77-1.10 kN/cm²)

Note: dependent on configuration and options

Trencher Drive
Hydrostatic: four pumps and two motors capable of transmitting full engine horsepower
Flywheel gearboxes, shaved, helical gearing, case hardened for extreme shock load
4 operator selectable digging speed ranges:
  - 0-400 fpm (0-122 m/min)
  - 0-470 fpm (0-143 m/min)
  - 0-530 fpm (0-162 m/min)
  - 0-600 fpm (0-183 m/min)
Tailwheel diameter: 4' (122 cm)
Headshaft diameter: 1' (30.8 cm)
Cutters: rotary carbide tipped 1 ½" (3.81 cm) shank diameter
Dugging chain: D9L

Crawler Drive
Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
Ininitely variable speed: forward and reverse
Speed ranges:
  - High range: 0-1.62 mph (0.259 km/hr)
  - Low range: 0-0.81 mph (0.130 km/hr)
Integral park and service brake: spring applied, hydraulic release, wet disc brake

Tracks
Overall track length: 15' 6" (473 cm)
Track pad type: triple grousers
Track chain type: Caterpillar D8K (1" bolts)

Hydraulic Transmission
Pressure and flow compensated (load sensing)
Pump flow maximum: 45 gpm (170 l/min)
Pressure setting: 2,500 psi (172 bar)
Oil tank capacity: 191 gal (723 l)

Cross Conveyor
Hydrostatic: one pump and two motors
Reversible and shiftable
Belt speed infinitely variable
Discharge direction: right or left
Conveyor belt width: 2' 11" (65.4 cm)
Conveyor length: 14' 9" (450 cm)
Discharge height: 7' 7" (231 cm)

Transport Dimensions
Length with crumbshoe:
  - 8 ft boom: 12' 7" (3.81 m)
  - 10 ft boom: 12' 3" (3.73 m)
  - 12 ft boom: 12' 10" (3.73 m)
  - 14 ft boom: 14' 11" (4.50 m)
  - 16 ft boom: 16' 2" (4.87 m)

Width with cab elevated:
  - 10' 4" (3.15 m)
  - 12' 3" (3.73 m)
  - 14' 6" (4.41 m)

Height with cab:
  - 11' 6" (3.50 m)
  - 13' 6" (4.11 m)
  - 15' 6" (4.72 m)

Height with cab elevated:
  - 14' 6" (4.41 m)

Available Devices
Work light package: 24 V, for night use
Laser control system
 Hydraulic crumbshoe
 Hydraulic crumbshoe
 Hydraulic crumbshoe
 Hydraulic crumbshoe
 Cap Anti-Vandalism window covers
 Air compressor
**Tesmec’s Largest Bucket Wheel** is conceived as a high-productivity machine for big diameter pipelines and utilities projects in “dirt” and light rocky soils. Its buckets can be equipped with conical or spade tools to ensure the maximum productivity according to the different ground conditions. No other trencher machine can grant such productivity in terms of linear meters per hour (foot per minute).
Standard Features
Pressurized cab with air conditioning, heating, sound suppression
Elevating cab module with roll over protection (ROPs)
Load control: operator selectable digging pressure, automatic operation
Battery box and toolbox with locking door
Engine doors with security locks

Engine
- CAT C18 ACERT Tier 3
- Max horsepower: 630 hp (470 kW)
- Model: CAT C18 ACERT Tier 3

Operating and Transport Weight
- Weight: 210,000-248,000 lbs (95.255-112.491 kg)
- Note: dependent on configuration and options

Trencher Drive
- Hydrostatic: four pumps and two motors capable of transmitting full engine horsepower
- Three operator selectable digging speed ranges:
  - 1st: 0-345 fpm (0-105 m/min) (6 rpm)
  - 2nd: 0-518 fpm (0-158 m/min) (9 rpm)
  - 3rd: 0-633 fpm (0-193 m/min) (11 rpm)

Crawler Drive
- Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
- Infinitely variable speed: forward and reverse Speed ranges:
  - High range: 0-2.4 mph (0-3.84 km/hr)
  - Low range: 0-1.000 fpm (0-305 m/min)

Hydraulic Transmission
- Pressure and flow compensated (load sensing)
- Pump flow maximum: 45 gpm (170 l/min)
- Pressure setting: 2,500 psi (172 bar)
- Oil tank capacity: 191 gal (723 l)

Cross Conveyor
- Hydrostatic: one pump and two motors w/gear reducer
- Reversible and shiftable
- Belt speed infinitely variable

Transport Dimensions
- Length, tractor: 27” (8.43 cm)
- Height, tractor with cab: 12’ 1” (367 cm)
- Weight: 210,000-248,000 lbs (95.255-112.491 kg)

Available Devices
- Work light package: 24 V, for night use
- Laser control system
- Cab anti-vandalism window covers
- Stabilizers or adjustable banquet
- Twin hose reel package: connections to power hydraulic tools
Tesmec’s largest Chainsaw Trencher is conceived as a high-productivity machine for big diameter pipelines and utilities projects in hard rock. TrenchTronic 3.0 equipped, thanks to its 751 HP engine the 1675 can cut trenches up to 22’ (671 cm) deep and 72” (183 cm) wide. The peak of excellence for big projects in the toughest excavating conditions.
Max horsepower..............................760 hp (567 kW)

Engine

- Max depth..........................................24' (732 cm)
- Widths range........................54"-72" (137-183 cm)
- Widths range........................40"-60" (102-152 cm)
- Tailwheel diameter..................................4' (122 cm)
- Headshaft diameter.................................4' (122 cm)
- Digging chain: 67/D9N

Trencher Drive

- Hydrostatic: four pumps and two motors capable of transmitting full engine horsepower
- Flywheel gearboxes, shaved, helical gearing, case hardened for extreme shock load
- Infinite variable digging chain speeds:
  - Depths............8' through 24' (244 cm through 732 cm)
  - Infinitely variable digging chain speeds:
    - High range.........................0-2.1 mph (3.36 km/hr)
    - High range.........................0-2.1 mph (3.36 km/hr)
    - Low range.........................0-1.1 mph (1.76 km/hr)

Crawler Drive

- Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
- Infinitely variable speed: forward and reverse
- Speed ranges:
  - High range.................0-2.1 mph (3.36 km/hr)
  - Low range.................0-1.1 mph (1.76 km/hr)

Tracks

- Overall track length...............15' 11" (484 cm)
- Track pad type: double or triple grouser
- Track chain type: Caterpillar 245B

Hydraulic Transmission

- Pressure and flow compensated (load sensing)
- Pump flow maximum...............65 gpm (245 l/min)
- Pressure setting.....................2,500 psi (172 bar)
- Oil tank capacity......................235 gal (890 l)

Cross Conveyor

- Hydrostatic: one pump and two motor
- Reversible and shiftable
- Belt speed infinitely variable
- Discharge direction: right or left
  - Conveyor belt width.................3' 6" (107 cm)
  - Conveyor length......................17' 0" (518 cm)
- Discharge height.....................8' 1" (246 cm)

Transport Dimensions

- Length with boom and guard:
  - 10 ft boom: 47' (1.434 cm)
  - 12 ft boom: 49' 5" (1.505 cm)
  - 14 ft boom: 51' 9" (1.578 cm)
  - 16 ft boom: 54' 2" (1.650 cm)
  - 18 ft boom: 56' 6" (1.721 cm)
  - 20 ft boom: 58' 11" (1.795 cm)
- 22 ft boom: 59' 8" (1.818 cm)
- 24 ft boom: 60' 4" (1.840 cm)
- Length without boom:
  - Only tractor with stabilizers: 40' 11" (1.247 cm)
- Width: 13' 1" (398 cm)
- Height with cab: 13' 1" (398 cm)

Available Devices

- Work light package: 24 V, for night use
- Laser control system
- Hydraulic crumbshoe
- Cab anti-vandalism window covers
- Air compressor
- Increased cooling capacity for high temperature ambient application
- Truck conveyor

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TESMEC’S SMALLEST TORQUE CONVERTER EQUIPPED UNIT @ 350 HP FEATURES VERY HIGH CHAIN PULL AND VERY LOW CHAIN SPEED. ORIENTED TOWARD TRENCHING REQUIREMENTS IN HIGHLY ABRASIVE AND EXTREME ROCK CONDITIONS. TRENCHTronic 2.0 EQUIPPED.
Ed. 2013/11

**Standard Features**

- Pressurized cab with air conditioning, heating, sound suppression
- Elevating cab module with roll over protection (ROPS)
- Load control: automatic optimal digging performance feature
- Auto stabilizers or adjustable bern scrapers on chainsaw models (optional)
- Tool box/battery box with locking door
- Engine doors with security locks
- Fuel and hydraulic tank: aircraft quality locking caps
- Engine doors with security locks
- Tool box/battery box with locking door
- Auto stabilizers or adjustable bern scrapers on feature
- Load control: automatic optimal digging performance

**Operating and Transport Weight**

- Weight: 95,000-135,000 lbs (43,091-61,235 kg)
- Note: dependent on configuration and options

**Trencher Drive**

This powertrain is comprised of several components: an electronically controlled transmission driving a heavy-duty differential, which transmits power to the headshaft via sprockets and multi-strand roller chain.

Five operator selectable digging speed ranges:

- 1st: 115-157 fpm (35-48 m/min)
- 2nd: 151-206 fpm (46-63 m/min)
- 3rd: 211-288 fpm (64-88 m/min)
- 4th: 288-394 fpm (88-120 m/min)
- 5th: 412-562 fpm (126-171 m/min)

Cutters: rotary carbide tipped 1 ½” (3.81 cm) shank diameter

Chain option: 54/345

Note: chain speed are “as calculated” per a set-point horsepower output and may vary accordingly

**Crawler Drive**

Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction.

Infinitely variable speed: forward and reverse

Speed ranges:

- High range: 0.1-1.7 mph (0-2.72 km/hr)
- Low range: 0-0.85 mph (0-1.36 km/hr)

Integral parking and service brake: spring applied, hydraulic release, wet disc brake

**Tracks**

- Overall track length c/c: 12’ 6” (366 cm)
- Track pad type: single, double or triple grouser
- Track chain type: Caterpillar D6
- Track pad width: 2’ (61cm)

**Transmission**

- Model: caterpillar
- Oil filter: 6 micron paper cartridge integral filter
- Electronically controlled utilizing (5) digging speeds
- Capacity (refill): 10 gal (38 l)

**Hydraulic Transmission**

- Pressure and flow compensated (load sensing)
- Pump flow maximum: 45 gpm (170 l/min)
- Pressure setting: 2,750 psi (189 bar)
- Oil tank capacity: 97 gal (367 l)

**Cross Conveyor**

- Hydrostatic: one pump and two motors
- Reversible and shiftable
- Belt speed infinitely variable

- 0-1,000 fpm (0-305 m/min)
- 2’ 6” (76.2 cm)
- 12’ 4” (376 cm)
- 6’ 1” (186 cm)

**Transport Dimensions**

- Length with crumbshoe: 6 ft boom: 38’ 0” (1158 cm)
- 8 ft boom: 40’ 6” (1235 cm)
- 10 ft boom: 42’ 4” (1290 cm)
- 12 ft boom: 44’ 7” (1359 cm)
- Width: 87’ 6” (267 cm)
- Height with cab: 8’ 9” (267 cm)
- Height with cab elevated: 14’ 8” (447 cm)
- Height over crumbshoe cylinder: 11’ 2” (340 m)

**Available Devices**

- Work light package: 24 V, for night use
- Laser control system pre-wire
- Hydraulic crumbshoe
- Cab anti-vandalism window covers
- Air compressor
- Stabilizers or adjustable bern-scrappers
TESMEC’S LARGEST TORQUE CONVERTER EQUIPPED UNIT @ 440 HP FEATURES INDUSTRY LEADING HIGH CHAIN PULL AND VERY LOW CHAIN SPEED. ORIENTED TOWARD TRENCHING REQUIREMENTS IN HIGHLY ABRASIVE AND EXTREME ROCK CONDITIONS. TRENCHTRONIC 1.0 EQUIPPED.
Standard Features
Pressurized cab with air conditioning, heating, sound suppression, and exhaust silencer
Elevating cab module with roll over protection (ROPS)
Load control: automatic optimal digging performance
Battery box and toolbox with locking door
 Hydraulic tank: pressurized with 5 psi (0.30 bar) filtered breathers
Vibration isolator mount: used on engine, radiator, oil cooler, and exhaust silencer
Stabilizers / dirt drags: automatically adjust to terrain changes
Lights: 24 V forward facing
Digging chain boom top roller
Hydraulic digging chain adjustment
Electrical system: 24 V starting, 24 V controls

Trenching Dimensions
- Depths: 6' through 16' (183 cm through 488 cm)
- Widths:
  - without crumbshoe (non available for 16' boom)
- Height with crumbshoe: 11' 10" (361 cm)

Engine
- Model: CAT C13 ACERT Tier 3
- Max horsepower: 440 hp (328 kW)
- Max no load rpm: 2,100 rpm
- Fuel tank capacity: 405 gal (1,533 l)
- Fuel consumption: 22.7 gal/hr (86 l/hr) at full load
- Cooling rating adequate for 122° F (50° C)
- Ambient air temperature
- Air cleaner: dry type, centrifugal pre-cleaner with primary and secondary filters

Operating and Transport Weight
- Weight: 140,000-161,000 lbs (63,502-73,028 Kg)
- Note: weight calculations based on Cat chain with 1 ¼" baseplates

Trencher Drive
This powertrain is comprised of several components: an electronically controlled transmission driving a heavy-duty differential, which transmits power to the headshaft via a planetary rack and pinion carrier.
- Four operator selectable digging speed ranges:
  - 1st: 88-197 fpm (30-60 m/min)
  - 2nd: 129-259 fpm (39-79 m/min)
  - 3rd: 180-361 fpm (55-110 m/min)
  - 4th: 246-492 fpm (75-150 m/min)
- Cutters: rotary carbide tipped 1 ¼" (3.18 cm) shank diameter
- Note: chain speed are “as calculated” per a set-point horsepower output and may vary accordingly

Crawler Drive
- Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
- Infinitely variable speed: forward and reverse
- Speed ranges:
  - High range: 0-2.4 mph (0.384 km/hr)
  - Low range: 0-1.3 mph (0.208 km/hr)
- Integral parking and service brake: spring applied, hydraulic release, wet disc brake

Tracks
- Overall track length: 13' 3" (404 cm)
- Track pad type: single, double or triple grousers
- Track chain type: Caterpillar D7
- Track pad width: 30" (76 cm)

Transmission
- Model: caterpillar
- Oil filter: 6 micron paper cartridge integral filter
- Electronically controlled utilizing (5) digging speeds
- Capacity (refill): 10 gal (38 l)

Hydraulic Transmission
- Pressure and flow compensated (load sensing)
- Pump flow maximum: 45 gpm (170 l/min)
- Pressure setting: 2,500 psi (172 bar)
- Oil tank capacity: 97 gal (367 l)

Cross Conveyor
- Hydrostatic: one pump and two motors
- Reversible and shiftable
- Belt speed infinitely variable

Transport Dimensions
- Length without crumbshoe:
  - 6 ft boom: 39' 7" (1.206 m)
  - 8 ft boom: 41' 11" (1.278 m)
  - 10 ft boom: 44' 1" (1.344 m)
  - 12 ft boom: 46' 11" (1.430 m)
  - 14 ft boom: 49' 1" (1.496 m)
  - 16 ft boom: 49' 2" (1.499 m)
- Without crumbshoe (non available for 16' boom)
- Width:
  - 16' 4" (315 cm) with 30" (76 cm) track pads
  - 10" (300 cm) with 24" (61 cm) track pads
- Height with cab:
  - 11' 6" (351 cm)
  - Height with cab elevated: 13' 11" (424 cm)

Available Devices
- Work light package: 24 V, for night use
- Laser control system pre-wire
- Hydraulic crumbshoe
- Cab anti-vandalism window covers
- Air compressor