

CS&CD SERIESPTOs

FOR 10-BOLT TYPE TRANSMISSIONS



CS41SERIES

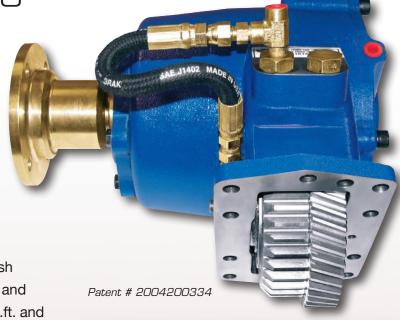
CLUTCH SHIFT PTO

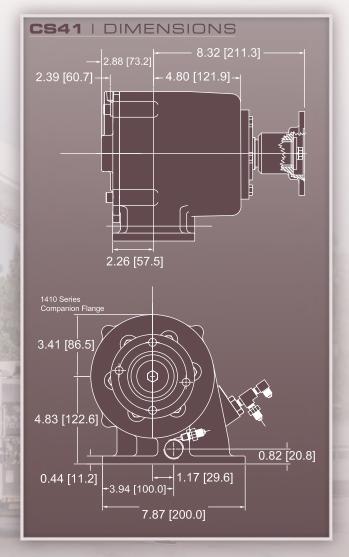
When you need as much power as possible from an Allison 3000 or 4000 and Caterpillar CX transmission, the CS41 PTO delivers. The CS41 is designed to handle the extreme, heavy duty requirements of today's equipment, including digger derricks, refuse packers and fire trucks.

Made with the widest gears in the industry, finish ground for maximum strength, noise reduction and durability, the CS41 is rated from 490 to 600 lb.ft. and is available in 3 speed ratios. Output shaft options are available for the 1410 Series driveline and hydraulic pumps with SAE "C", SAE "B" 2- & 4-bolt with SAE "C" shaft or DIN 5462 connections.

A heavy duty internal clutch pack delivers smooth and positive engagement. Pressure lubrication is pre-plumbed. Remote solenoid activation is standard to allow clearance from chassis obstructions.

Two housing configurations are available to provide output shaft locations either high or low for either side of the transmission. This makes installation easier and better suited for today's confined chassis space.



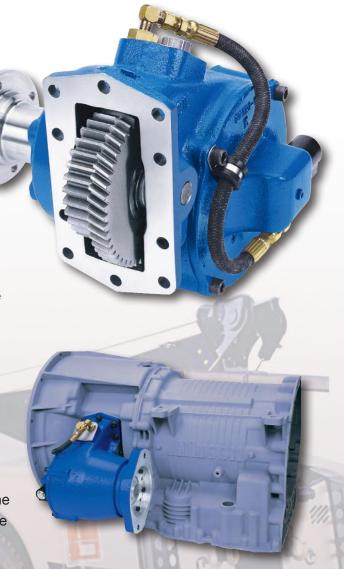


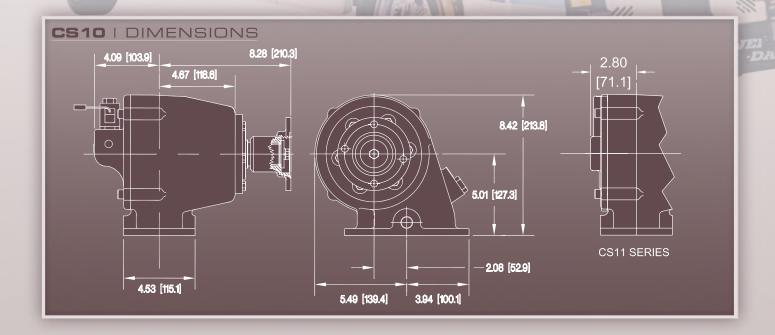
CS10SERIES CLUTCH SHIFT PTO

A versatile, heavy duty PTO for the Allison 3000 & 4000 and Caterpillar CX transmissions, the CS10 is the PTO designed to handle a wide range of heavy duty applications including dump bodies, utility, refuse, recovery and fire vehicles.

Offering large gears and a heavy duty housing, the CS10 is rated from 385 to 500 lb.ft. across the 5 available speed ratios. The location of the output shaft of the CS10 is designed around popular hydraulic pumps and has the ability to accept these pumps without the need to alter the Allison transmission case. The CS10 is standard with the 1½" 10 spline (including the 1410 type companion flange) or is available with 1¼" round keyed output shaft. Also available are SAE "B" 2- & 4-bolt, SAE "C" 2- & 4-bolt, SAE "C" 2 bolt, and DIN 5462 hydraulic pump mounting flanges.

All CS10 & CS24 Series PTOs have the Muncie designed and patented integrated drag brake which assists in stopping the output shaft when the PTO is disengaged. The CS11 version has a remote mount solenoid activation valve for additional clearance of PTO during installation.





CS24SERIES CLUTCH SHIFT PTO

The Muncie CS24
Series PTO design is based on the same technology as the CS10. Though 20% smaller, the CS24 is still a heavy duty PTO for demanding applications like snow & ice removal, tandem & triple axle dumps, fuel haulers, aircraft refuelers, rear & side loader refuse



vehicles, digger derricks, and aerial devices.

The CS24 Series PTO has torque ratings ranging from 200-325 lb.ft. and features 7 internal speed ratios. The highest speed ratio CS24, is ideal for utility vehicle applications to obtain high flow rates from smaller displacement hydraulic pumps at lower engine speeds.

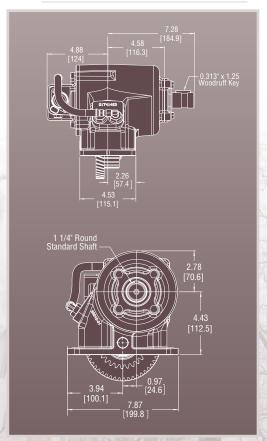
It is available in 11 different output shaft types including the standard 1¼" round, SAE "B" either 2-bolt only or combination 2- & 4-bolt, SAE "A" 2-bolt, SAE "B-B" 2- & 4-bolt, and the non standard 4-bolt "G" option. Other output shaft options include a 1410 type companion flange, the DIN 100 companion flange and the DIN 5462 hydraulic mount. The hydraulic flanges are 360-degree rotatable with multiple mounting positions.

Two housing configurations are available to provide output shaft locations either high or low for either side of the transmission. This makes installation easier and better suited for today's confined chassis space. The CS25 version has a remotely mounted solenoid valve making it a more compact unit.

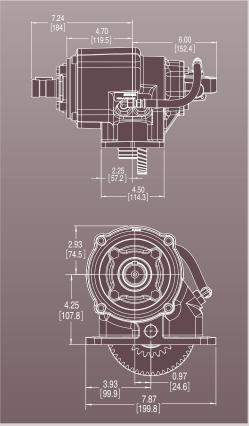
The Muncie HS24 is a similar PTO to the CS24 only it has a special housing for clearance on chassis with components near the PTO opening. This PTO is specifically designed for the Hino chassis with Allison World Transmission.



CS24 | DIMENSIONS

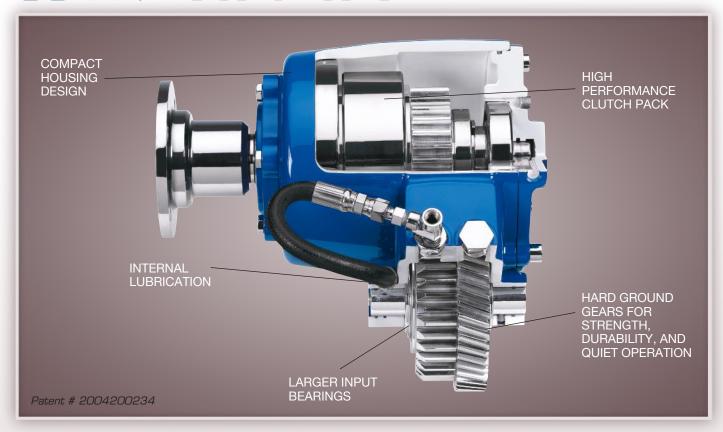


HS24 | DIMENSIONS





CS41 | PTO CONSTRUCTION



CS10, CS24 & HS24 | PTO CONSTRUCTION



CD40SERIES CONSTANT DRIVE PTO

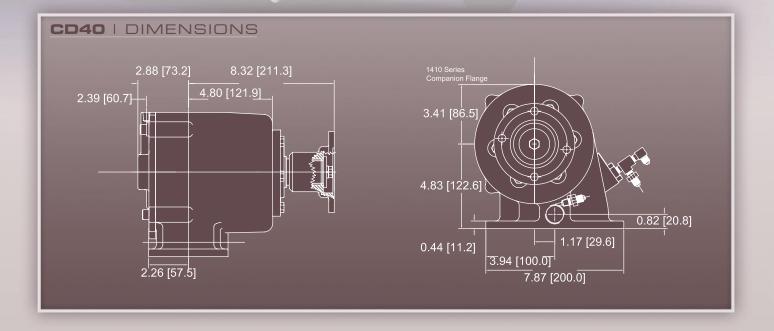
The Muncie CD40 Series PTO is designed for maximum PTO output torque for live engine driven equipment including refuse and cement mixers.

The Muncie CD40 Series constant drive PTO shares the same design technology as the shiftable CS41, including finish ground gearing and oversized bearing and shafts to provide maximum capacity for heavy-duty applications.

The CD40 Series PTO is rated from 490 to 600 lb.ft. and is available with 5 output shaft options including fully rotatable hydraulic pump adapters. Available options are the popular hydraulic mounts, SAE "C" 2-bolt mount, SAE "B" 2- & 4-bolt with SAE "C" shaft, and the European DIN 5462 and DIN 100 companion flange.

The 1410 Series companion flange is the standard output. The CD Series PTO is available in 2 speed ratios and two housing arrangements to provide shaft locations either high or low for either side of the transmission.





CD10SERIES CONSTANT DRIVE PTO

The Muncie CD10 Series PTO is designed to replace front mounted, engine driven systems typically used on refuse collection trucks and snow & ice control equipment.

The CD10 Series PTO is also ideal for load sense pump systems such as Muncie's V-Series variable displacement piston pump.

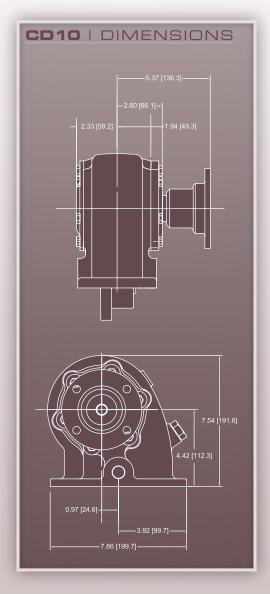
The Muncie CD10 Series constant drive PTO provides ample capacity for heavy duty applications without obstructing service areas of the truck engine and cooling system.

The CD10 Series PTO is rated from 225 to 400 lb.ft. with speeds to 2,500 RPM and available with 10 output shaft options including fully rotatable hydraulic pump adapters. Available options are the popular hydraulic mounts, SAE "C" 2-bolt mount, an SAE "B" 2- & 4-bolt, SAE "B-B" 2- & 4-bolt, SAE "B" 2- & 4-bolt with SAE "C" shaft, SAE "A" 2-bolt and the European DIN 5462 and DIN 100 companion flange. The 1410 Series companion flange is the standard output and the 1½" round output shaft is available for drive shaft installations.

The CD10 Series PTO is available in 7 speed ratios which makes it easy to select the correct PTO for your application.

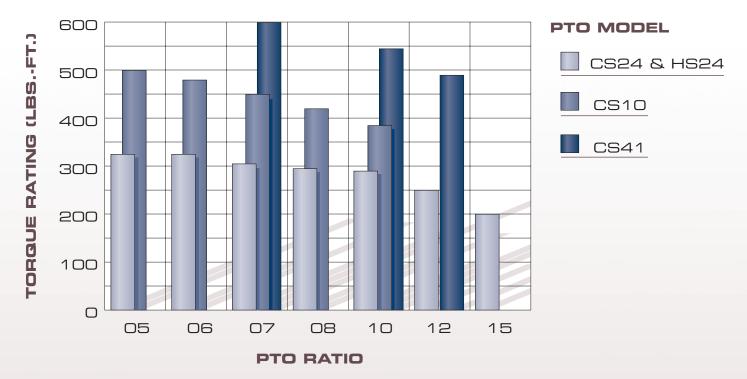


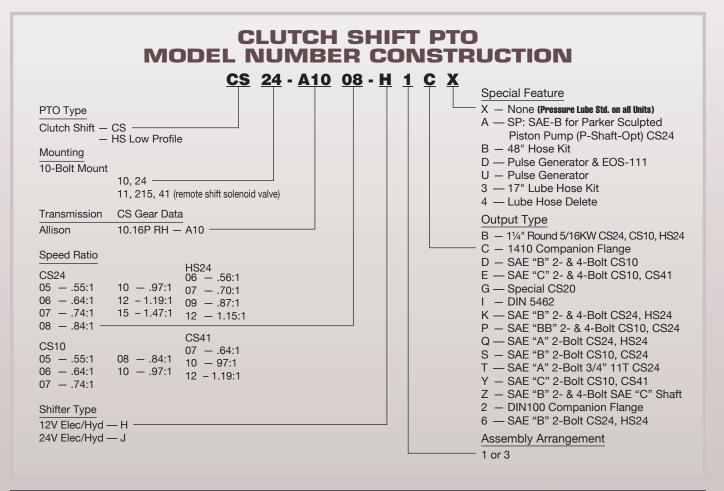




CLUTCHSHIFT

MODEL COMPARISON

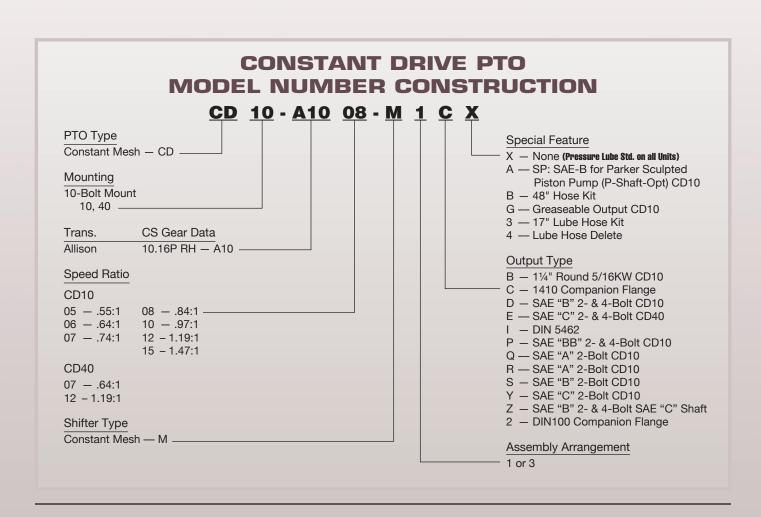




CONSTANTORIVE

MODEL COMPARISON





SHAFTEXTENSIONS



Patent # 6263749

PRODUCT FEATURES

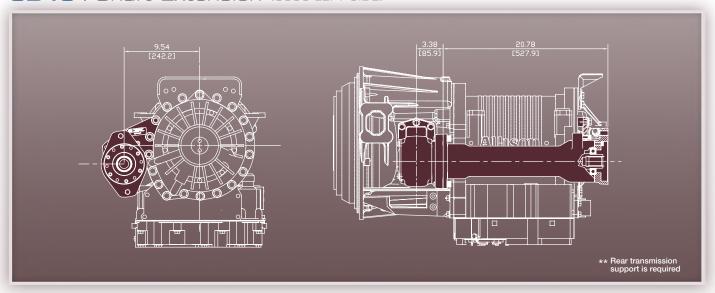
- Developed in cooperation with Allison Transmissions.
- Direct mount large gear or piston type hydraulic pumps.
- Eliminates the driveline and driveline maintenance while reducing installation time and exposure to moving parts.
- Extended Shaft options are available for CD10 Series Heavy Duty Constant Mesh or CS24 & CS10 Clutch Shift PTOs.
- SAE "B", SAE "B-B", SAE "C" and DIN 5462 outputs.
- Perfect for Solid Waste, Snow and Ice Control, Utility Equipment dump bodies and many other applications.
 - 1. Transmission must have rear support installed as supplied by the vehicle manufacturer.
 - Allison 4000 Series: ES not currently available for the 7 speed HD4070 transmission.
 Not currently available for any 4000 retarder or units with rear-mounted oil coolers.
 - 3. All ES Kits are for shaft low PTO arrangements. "3" on left side and "1" on right side.

Muncie's PTO shaft extensions for the Allison 3000 & 4000 Series transmission provide easier hydraulic pump installation by moving the hydraulic pump mount to the rear of the transmission. Shaft Extensions are available for most Allison 3000 & 4000 Series transmission² applications and popular pump mounts.

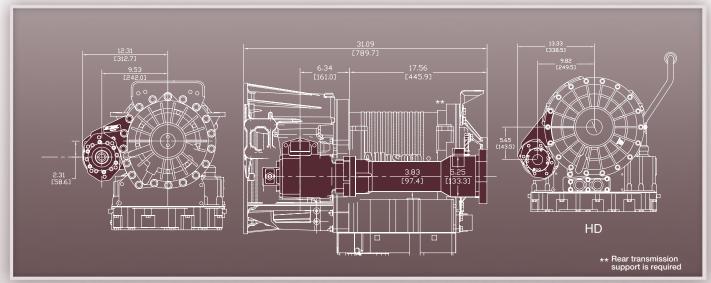
See Footnotes 1,2 & 3.

CD10 SERIES PTO		
LEFT SIDE OPENING	OUTPUT	RIGHT SIDE OPENING
CD10-A10**-M1VX	ALLISON 3000 (MD) ALLI-5	CD10-A10**-M1VX
49TA5433A	SAE B 2- 4-Bolt	49TA5438A
49TA5432A	SAE B-B 2- 4-Bolt	49TA5439A
N/A		N/A
49TA5436A	SAE C 2-Bolt	
	SAE C 2- 4-Bolt	49TA5442A
49TA5434A	DIN 5462 4-Bolt	49TA5440A
49TA5435A CD10-A10**-M1VX	SAE B 2-4 Bolt w/SAE C SHAFT	49TA5441A
	ALLISON 4000 (HD²) ALLI-6	CD10-A10**-M1VX
49TA5396A	SAE B 2- 4-Bolt	N/A
49TA5398A	SAE B-B 2- 4-Bolt	N/A
N/A	SAE C 2-Bolt	N/A
49TA5400A	SAE C 2- 4-Bolt	N/A
49TA5397A	DIN 5462 4-Bolt	N/A
49TA5399A	SAE B 2- 4-Bolt w/SAE C SHAFT	N/A
CS24 SERIES PTO		
CS24-A10**-H3VX	ALLISON 3000 (MD) ALLI-5	CS24-A10**-H1IX
49TA5420A	SAE B 2- 4-Bolt	49TA5426A
49TA5419A	SAE B-B 2- 4-Bolt	49TA5425A
N/A	SAE C 2-Bolt	N/A
49TA5424A	SAE C 2- 4-Bolt	49TA5430A
49TA5423A	DIN5462 2-Bolt	49TA5429A
49TA5422A	SAE B 2-4 Bolt w/SAE C SHAFT	49TA5428A
CS24-A10**-H3VX	ALLISON 4000 (HD ²) ALLI-6	CS24-A10**-H1IX
49TA5409A	SAE B 2- 4-Bolt	N/A
49TA5408A	SAE B-B 2- 4-Bolt	N/A
N/A	SAE C 2-Bolt	N/A
49TA5413A	SAE C 2- 4-Bolt	N/A
49TA5412A	DIN5462 4-Bolt	N/A
49TA5411A	SAE B 2-4 Bolt w/SAE C SHAFT	N/A
CS	310 SERIES P	ТО
CS10-A10**-H3VX	ALLISON 3000 (MD) ALLI-5	CS10-A10**-H1VX
49TA5448A	SAE B-B 2- 4-Bolt	N/A
N/A	SAE C 2-Bolt	N/A
49TA5449A	SAE C 2- 4-Bolt	N/A
	41 SERIES P	
CS41-A10**-H3VX	ALLISON 4000 (HD²) ALLI-6	CS41-A10**-H1VX
N/A	SAE C 2-Bolt	N/A
49TA5447A	SAE C 2- 4-Bolt	N/A
49TA5445A	DIN5462 4-Bolt	N/A
49TA5446A	SAE B 2- 4-Bolt w/SAE C SHAFT	N/A

CD10 | Shaft Extension (3000 LEFT SIDE)



CS24 | Shaft Extension (3000 & 4000 LEFT SIDE)



CS10 | Shaft Extension (3000 LEFT SIDE)

13.35 [339.0] [2.85] [326.4] 17.58 [446.6]

CS41 | (4000 LEFT SIDE)

POWER TAKE-OFF WARRANTY

The Muncie CS10, CS24, CS41, CD10 and CD40 Series Power Take-offs are warranted to be free of defects in material or workmanship and to meet Muncie's standard written specifications at the time of sale. Muncie's obligation and liability under this warranty is expressly limited to repairing or replacing, at Muncie's option, within two years after date of original installation any defective part or parts or any product not meeting the specifications.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. MUNCIE MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. MUNCIE'S OBLIGATION UNDER THIS WARRANTY SHALL NOT INCLUDE ANY TRANSPORTATION CHARGES OR COSTS OF INSTALLATION OR ANY LIABILITY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR DELAY. THE REMEDIES SET

FORTH HEREIN ARE EXCLUSIVE, AND MUNCIE'S LIABILITY WITH RESPECT TO ANY CONTRACT OR SALE OR ANYTHING DONE IN CONNECTION THEREWITH, WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, OR OTHERWISE, SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE PRODUCT OR PART ON WHICH SUCH LIABILITY IS BASED.

If requested by Muncie, products or parts for which a warranty claim is made are to be returned transportation prepaid to a Muncie Service Center. Any installation or use not in accordance with catalog or package instructions, other improper use, operation beyond capacity, substitution of parts not approved by Muncie, use with equipment other than the equipment on which the Power Take-Off is first installed, or alteration or repair made to the Power Take-Off other than at a Muncie Service Center, shall void this warranty. No employee or representative of Muncie is authorized to change this warranty in any way or to grant any other warranty.

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