



Catalog **2013**
PRODUCTS

43 Years
Braking **Safety**

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OUR MISION

MINCER HD offers a complete line of rotors, drums, hubs, artillery wheels and planetarium acommodation. Serving the market for heavy trucks, trailers and commercial vehicles and passenger. For over 43 years we have been dedicated to providing **high quality products, timely delivery and exceptional customer service.** MINCER HD provides customers a complete products development services including, manufacturing and certification tests.

OUR VISION

MINCER HD is a business leader focused on serving its customers with world class solutions for OEM braking, OES and Aftermarket.

We are known and distinguished in the world with towing equipment, commercial vehicles and heavy trucks plus the trust in MINCER

HD for the support of the complete product line; from concept through full production, including requirements and after sales service.

Our growth and success depends on the growth and success of our customers.

We distinguish ourselves in the market, consistently delivering our commitments and maximizing the value for our customers, shareholders and employees.

OUR PHILOSOPHY

MINCER HD has developed a culture of continuous improvement and invested in training their employees on the principles of Lean Enterprise, Six Sigma and better people.

MINCER HD has developed processes that ensure the review, distribution and implementation of al the technical specifications of the client, and any change in the schedule based on the needs of the customer.



COMPANY DATA

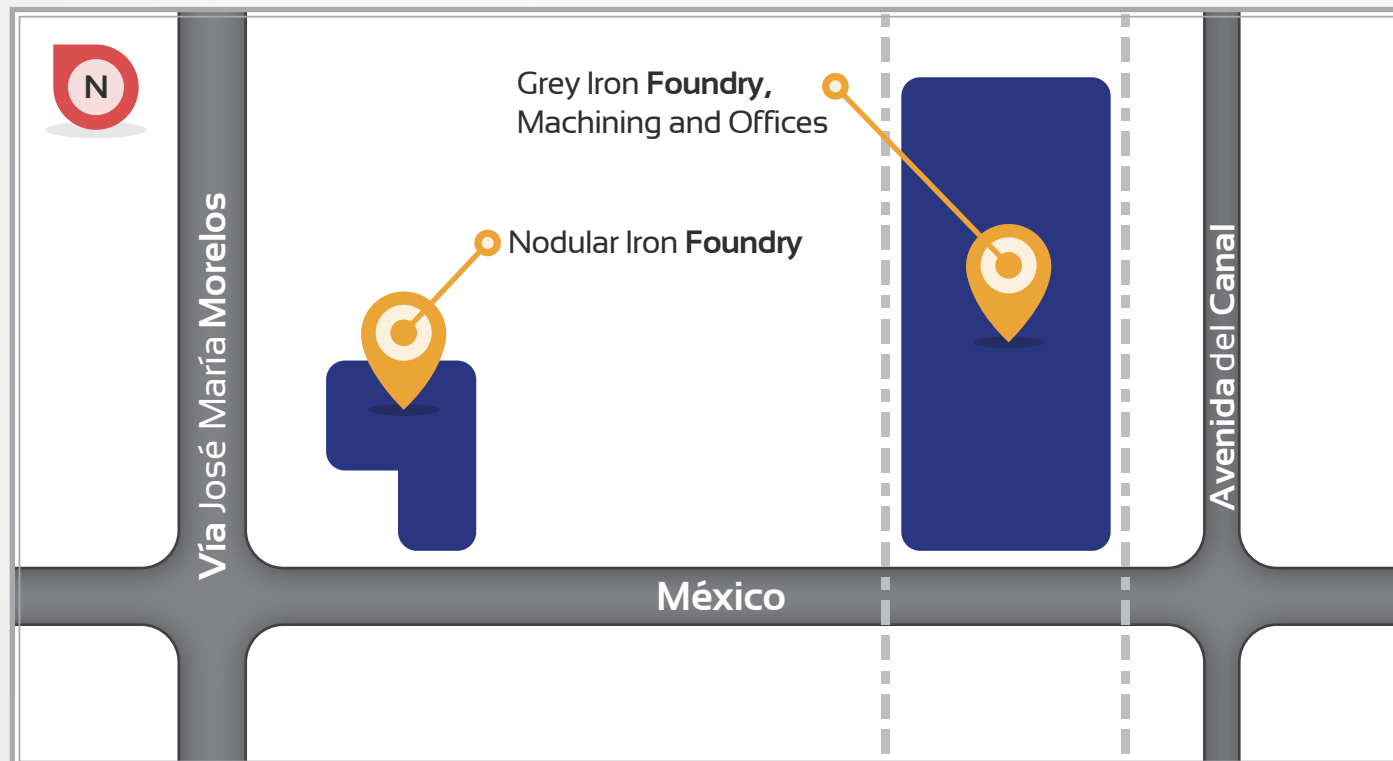
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www.precisionpartnersinc.com

LOCATION MAP



QUALITY POLICY

MINCER HD is committed to operating a profitable company that can satisfy the design, development and manufacture of systems for Commercial Vehicles that goes with customer requirements and individual needs of employees through continuous improvement by pursuing and improving continuously the effectiveness of our System of Quality Management.

CVS

Cost reduction and Customer satisfaction.

Create Value and reduce Variation.

Sustain and improve customer-supplier relationships.



CAPABILITIES

- Foundry and machining services.
- Six Sigma-Lean culture.
- Design and manufacture of tooling.
- Engineering and design for new products with the major OEMs.
- Design software: CATIA and AutoCad.
- Swinging for material removal.
- Quality processes under strict controls that ensures manufacturing with the specific requirements of the original equipment.
- ISO TS 16949:2009 Certification.
- ISO 14001 Certification.
- Metallographic chemical and dimensional laboratory.
- Fatigue tests and dynamometer certified (USA).
- Support and customer service.



PRODUCTS



Agricultural Hub



Rear Hub



Rear Hub



Hub



integrated hub and rotor



Assemble hub and rotor



Drum brakes



Planetary



Planetary



Planetary



Rotor



Artillery Wheel



CROSS REFERENCE

Drums

MINCER HD	FUMAQ	WEBB (México)	STATSA
03-129116-001R	7114	1078	99-11"
633087-RE	7116		
03-129001R	7116	1088	99-10 1/2
03-129018-001R	7156	1013	97
633075R	7172		39
633076R	7151		101-9 1/2
633096R			
633037R	7182	1019	37
633151R	7158	60876	30-G
633054R	7127	1082	109
633064R	7149	1098	28
633059R	7119	1080	30-A
633043R			
2308709RG	7155	66884	30-C

CROSS REFERENCE

Drums

MINCER HD	FUMAQ	WEBB (México)	STATSA
633057RG	7132	1086	30-D
03-129168-001R	7104	1098	
03-129300-001R	7159		38
633161R		1513	
03-126631-001R			
03-129121-001R	7111	GD0932	1
03-129138-001R	7110	GD0931	2
03-129051-034R	7134	1079	111-G
633049R	7128	1017	23-E
2308704R	7142		
03-129082-034R	7136	1079-B	111-D
03-129062-034R	7154		
633099R	7133	1080-C	30-B
V6331100R	7109*		



REAR HUBS

PIECE NUMBER	DESCRIPTION
04-18077-001	Rear hub for 22,000 pounds to lug tract 8 5/8 in arrow to nut and cap.
323021	Rear hub 8 lug 3/4 the arrow replaces the system unimont 04-18062-001.
04-18073-001	Rear hub studs 19.000 lbs 8 5/8 to arrow Unimont.
04-18215-001	Rear hub for 220.000 pounds for 8 studs 5/8 in arrow Unimont system and machined for ABS.
04-18078-001	Rear hub studs 19,000 lbs 8 5/8 in arrow Unimont System.
04-18146-001	Rear hub studs 22.000 lbs 8 5/8 in arrow Unimont System without machining for ABS.
04-18093-001	Rear hub studs 19.000 pounds 12 1/2 in arrow Unimont System.
04-18105-001	Rear hub studs 22.000 pounds 12 1/2 in arrow to nut and cap.
04-18315-001	Conical rear hub assembly for double trailer.
04-09179-001	Fruehauf trailer rear hub of channel and cap nut.
04-14059-001	Rear hub for tow Sudisa conical for nut and maounting cap.
04-14344-001	Rear hub for tow Sudisa conical for nut and maounting cap.
2229101	Rear hub for tow Sudisa conical for nut and maounting cap.
423033	Maza trasera para remolque tipo sudisa cónica sistema Unimont barreno 15/16.
04-18192-001	Rear hub for Fruehauf trailer for straight tipo and cap nut.
423007	Rear hub for Fruehauf trailer for Unimont straight tip and ground to ABS.
2229204	Rear hub studs 8 5/8 std-fine FREIGHTLINER fine KODIAK Unimont GM.



FRONT HUBS

PIECE NUMBER	DESCRIPTION
05-18004-001	Front hub for truck and bus tract (Avante and Premier).
05-18219-001	Front hub for Unimont System and machined for ABS.
05-18145-001	Front hub for Unimont Sustum with 1-inch hole.
05-18084-001	Front hub for 1 1/8 nut.
05-18211-001	Front hub with bore of 1 1/4 nut and cap.
05-18061-001	Front hub for Unimont System withouth machinery for ABS.
220004	Freightliner front hub.
223038	Kodiak front hub.
222029	Kodiak front hub.
223040	Kodiak front hub.

HUBS FOR 3500 SERIES

PIECE TAG	DESCRIPTION
04-1849-001	Rear hub for Chevrolet trucks Models 1992 to 2004.
04-18191-001	Rear hub for Ford F/P 350 Models 1998 to 2004.
04-18067-001	Rear hub for Dodge Chrysler Models 1992 al 1996.
263000B	Integral hub-rotor Ford F/M 450 Heavy Duty with cups, screws and balancing.
04-18057-001	Rear hub for King Midas and Mercedes Benz Models 1996 to 2006.
323022	Rear hub for Chevrolet trucks Models 1992 to 2004.
04-18052-001	Rear hub for Ford trucks F/P 350 Models 1997 to 2001 with guides.
04-18002-001	Rear hub for Chrysler Dodge truck Models 1976 to 1991.
04-18003-001	Rear hub for Chevrolet Models 1976 to 1991.
04-18043-001	Rear hub Ford F/350 truck Model 1992 to 1997 with guides.
323051	P356/F350 rear hub, replaces 04-18197-001.



BACK DRUMS

PIECE NUMBER	DESCRIPTION
630003	Rear drum 16.50" x 7.00", Unimont, 8 international holes.
633096	Rear drum 16.50" x 7.00", Unimont, Kodiak.
633099	Rear drum 16.50" x 7.00", Unimont, 10 holes 0.840 and pilot 8.750.
633100	Rear drum 16.50" x 7.00", Unimont, 10 holes 0.850 and pilot of 9.001 - 9004.
633037	Rear drum 15.00" x 8.63" bus M. Benz and Volvo new titanium alignment.
633151	16.50" x 7.00" rear drum 10 stud pilot holes 8.40 and 9.500.
03-129053-001	Rear drum for bus, 16.5" x 8.00" for nut and cap. (Premier, Avante, Search).
633043	Rear drum 16.50" x 7.00", 9.438 a 9.441 pilot hole equal to 3/4 03-129230-001.
2318709	Rear drum 16.50" x 7.00" unbalanced.
633057	Rear drum 16.5 x 8. 3/4 hole 1.00 Unimont System replaces 03-129071-034.
03-129250-001	Rear drum 16.5" x 8.00" Unimont System (Viagio).
03-129168-001	Rear drum 16.5 x 8 3/4 Heavy Duty (Search).
03-129300-001	Rear drum 16.5" x 8.50" Unimont Heavy Duty.
03-129342-001	Rear Drum 16.5 x 7.00 System Unimont large window.
633161	Rear drum front Volkswagen Bus Bocho 12.81" x 4.50", 6 holes 0.720.
2308709	Rear drum 16.50" x 7.00" balanced hole 15/16 Unimont System.
03-126631-001	Rear drum trailer 12.1/4 x 7.00 Low Boy (low bed).
03-129121-001	Front drum for Mercedes Benz bus.
01-129138-001	Front drum for Mercedes Benz bus.
633096	Rear drum 16.5" x 7.00" Unimot for Kodiak.

FRONT BALANCED DRUMS



PIECE NUMBER	DESCRIPTION
03-129051-034	Balanced front drum 16.5" x 5.00" (Bus, tractor and urban).
03-129336-034	Balanced front drum 16.5" x 5.00" (Bus, tractor and urban).
633049	Balanced front drum 15" x 7" Unimont System high resistance replaces 03-129173-034.
03-129100-034	Balanced front drum 16.5" x 5.00" Unimont System.
2308704	Balanced front drum 16.50" x 5.00" Kenworth.
03-129082-034	Balanced front drum 16.5 x 5.00 Unimont System.
03-129070-034	Balanced front drum 15" x 4" Unimont System with 1-inch hole.
630005	Balanced front drum 15" x 4" replaces 03-129297-034 Freightliner.
633017	Front drum 16/2 x 6 for electrical transport.
03-129316-034	Front drum 15" x 7" Unimont System (also rear).
03-129062-034	Balanced front 15" x 4", nut and cap with hole 1 1/4.
630001	Drum 15" x 4" Freightliner, Kodiak.
630005	Front drum 15" x 4" Kenworth.
2308406	Front drum 16.50" x 5.00" Kenworth.
2308401	Front drum 15" x 4" Ford, Dina, International replaces 03-129070-034.
2308705	Front drum 15" x 4" Kenworth.
633150	Front drum 16.50" x 5.00" International replaces 03-129082-034.



DRUMS FOR 3500 SERIES

PIECE NUMBER	DESCRIPTION
03-129060-001	Rear drum for Dodge Chrysler D/300/350 Model 1990 to 1993.
03-129104-001	Rear drum for Ford F/300/350 1991 to 1998.
633000	Rear drum for Dodge Chrysler D/300/350 1998 to 1994.
03-129056-001	Rear drum for Chevrolet Model 1991 to 2004.
03-129008-001	Rear drum for Chevrolet C30 Models 1971 to 1990.
03-122798-001	Rear drum for Ford F/300/350 Models 1984 to 1990.
02-129004-001	Rear drum for Dodge Chrysler Models 1976 to 1991.
03-129066-034	Front rear drum King Midas and Mercedes Benz Modelo 1989 to 2006.
633041	Rear balanced drum P356F360 models 1998 to 2008 replaces 03-129246-034.
663013	Front rotor Kodiak.
663014	Front rotor Kodiak.

ARTILLERY DRUMS

PIEC NUMBER	DESCRIPTION
03-129116-001	Rear drum for artillery wheel 12 arrow studs.
633087	Windowless rear drum for artillery wheel 8 arrow studs.
03-129001-001	Rear drum with windows for artillery wheel 8 arrow studs.
03-120017-001	Rear drum for artillery wheel acle nuts.
03-122120-001	Front drum for artillery wheel.
03-129018-001	Front drum for artillery wheel.
633075	Rear drum 15" x 4", artillery 20", Kodiak.
633076	Rear drum 16.50" x 7.00", artillery 20", Kodiak.

ARTILLERY WHEELS








PIECE NUMBER	DESCRIPTION
47-14189-001	Wheel 12 studs of 1/2 arrow Ford, Dina, Chrysler, Famsa, Mercedes Benz.
47-18000-001	Wheel 8 studs of 5/8 arrow Famsa, Dina, Mercedes Benz, Ford.
47-180040-001	Wheel stud of 5/9 arrow Dina with largest catch.
47-18310-001	Wheel stud of 3/4 arrow. Adaptations, Dina and International.
47-14018-001	Wheel for nut axis Sudisa for cups HM-218210 y HM-212011.
47-18013-001	Artillery rear wheel for nut trailer.
47-07791-001	Artillery rear wheel for nut trailer.
55-14231-001	Front artillery wheel Ford, Famsa, Dina, Mercedes Benz.
793009M	Artillery rear wheel Kodiak 8 studs 5/8 cube.
79007M	Front wheel Kodiak.

TECHNICAL DATA



Products designed for commercial vehicles, from pick-up trucks and buses to outsiders tract. Classified into classes 1 to 8 according to the capacity of its axes.

CLASS	AXLE CAPACITY	EXAMPLES
1 y 2	Less than 10,000 lbs.	SUV, minivan, cargo van or passenger. 
3, 4 y 5	10,0001 - 19,500 lbs.	Spreader van, redilas light trucks and minibuses. 
6	19,501 - 26,000 lbs.	Light trucks, school buses, light trucs moving. 
7	26,001 - 33,000 lbs.	Garbage trucks, light pipes, tractor trailer single axle. 
8	More than 33,000 lbs.	Heavy-duty tractors, foreign buses, cement trucks. 

The products can be delivered separately and assembled as follows:

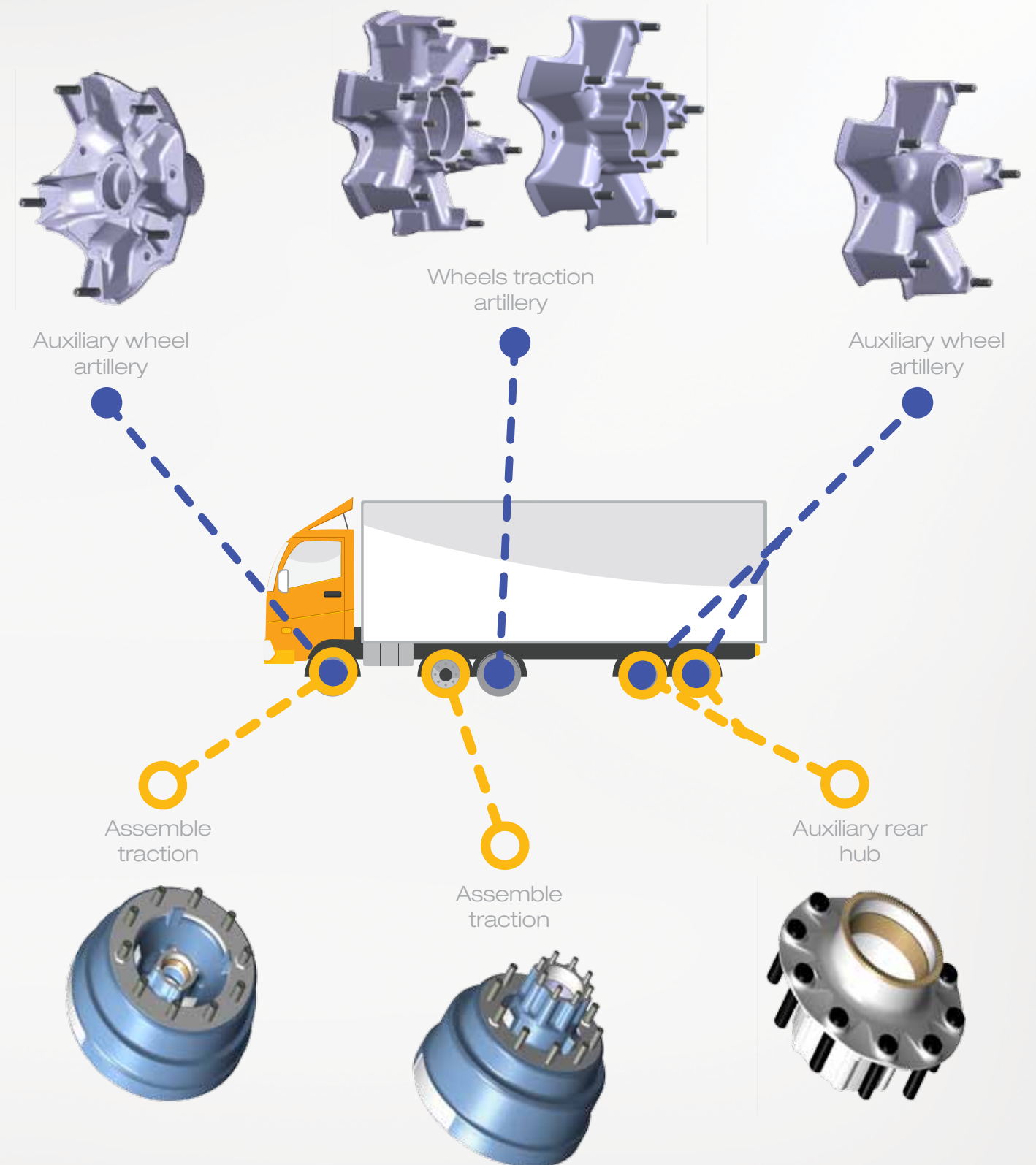
- Ensemble artillery type, wheel-drum.
- Disc ensemble, hub-drum.
- Assembly rotor hub.

- Traction:** Meet the function of transmitting motion of axles in driving.
- Assistants:** used only for special boxes or devices that are carried by the vehicle, and bear the burden of the box.

This assemblies include:

- Front Directional:** used for vehicle steering, front axle.

ARTILLERY ASSEMBLY



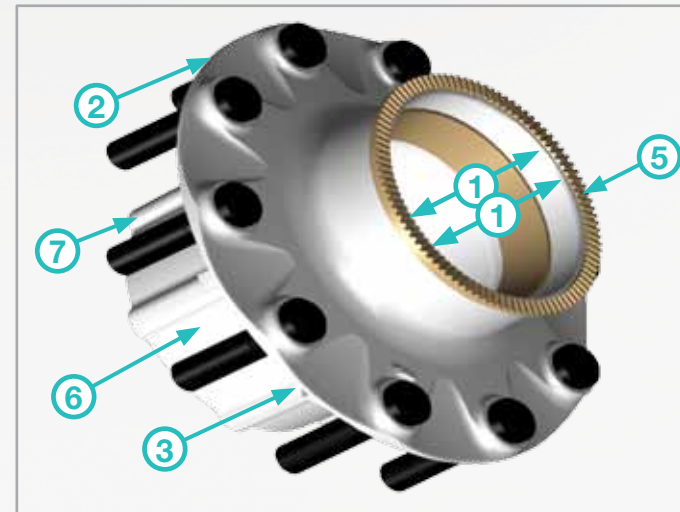
DISK ASSEMBLY

ROTOR HUB ASSEMBLY

EXTERIOR / INTERIOR

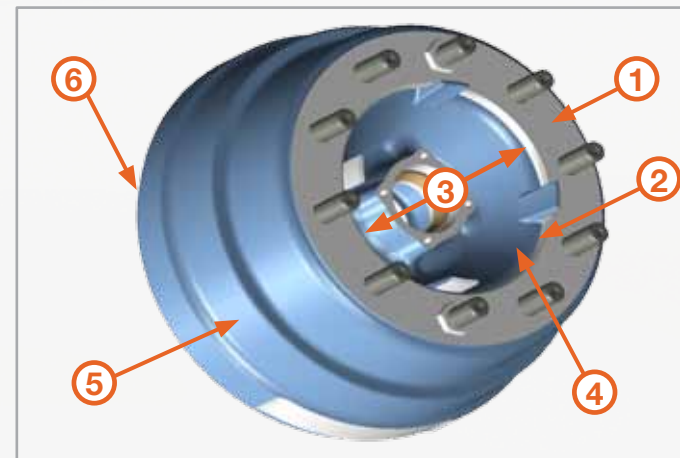


MAIN PARTS



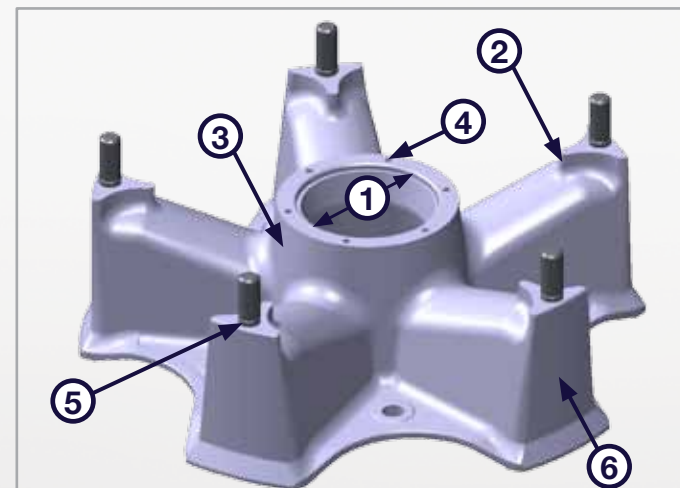
HUB DISK AXLE

1. Outer cup diameter
2. Diameter of inner cup.
3. Outer flange.
4. Retainer diameter.
5. ABS ring.
6. Rim diameter.
7. Pilot diameter.



ASSEMBLE HUB-BREAK DRUM FRONT

1. Outer flange.
2. Inner flange.
3. Pilot diameter.
4. Braking track.
5. Belt.
6. Dust covers.



ARTILLERY WHEEL

1. Inner cup diameter.
2. Outer cup diameter.
3. Pilot diameter.
4. Cube.
5. Beam.
6. Ray face.

DIAGRAM DRUM DIMENSIONS

DRUM REQUEST

Date: / /
 dd mm yy

Client: _____

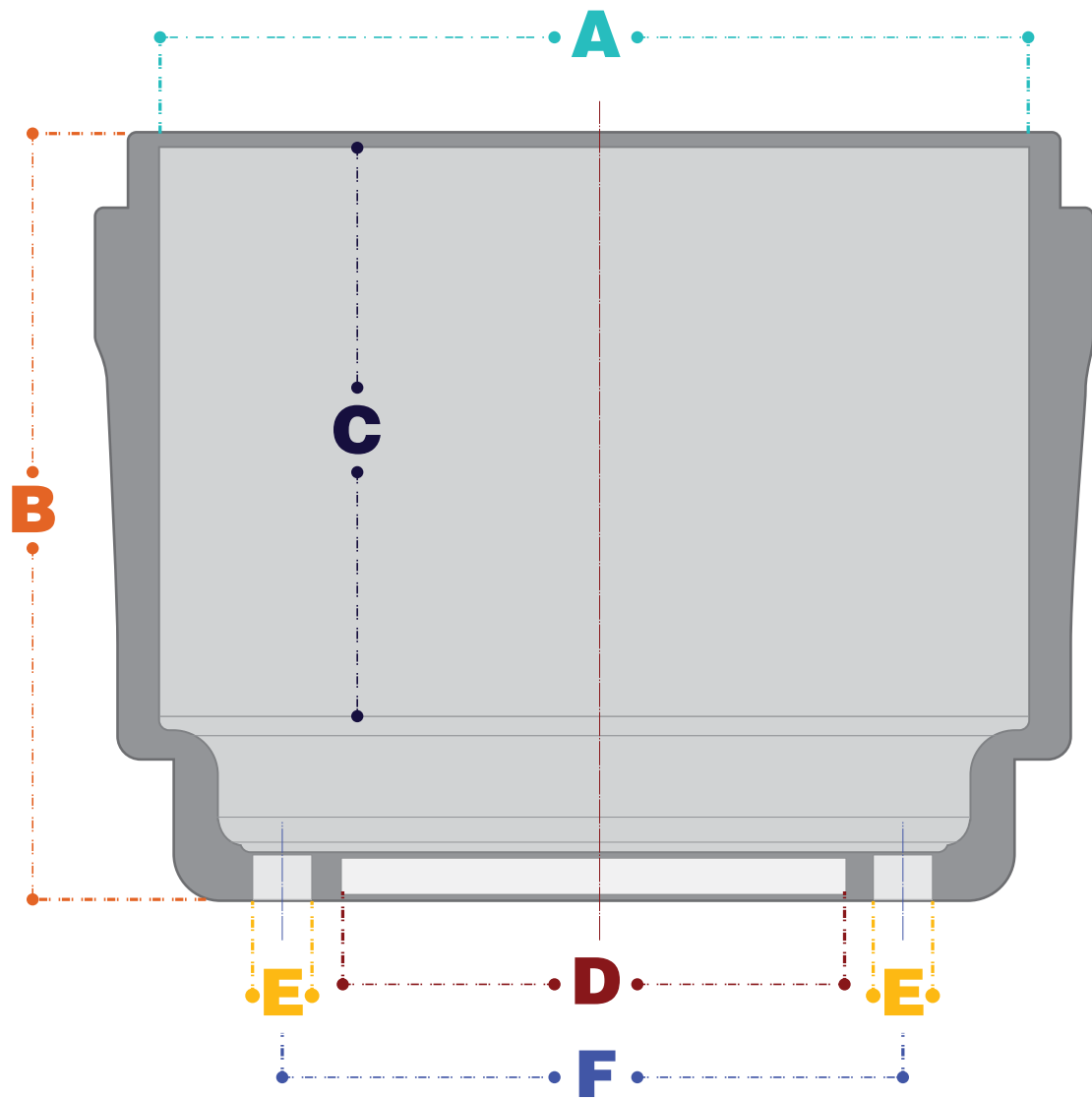
Piece number: _____

Track diameter (A): Flange holes diameter (E):
 / _____ / / _____ /

Total height (B): Number of flange holes:
 / _____ / / _____ /

Depth of track (C): Drill basic center (F):
 / _____ / / _____ /

Pilot diameter (D): Balance (G):
 / _____ / / _____ /



A. Track diameter. **B.** Total height. **C.** Depth of track.
D. Pilot diameter. **E.** Flange holes diameter.
F. Drill basic center.

43 Years
Braking Safety

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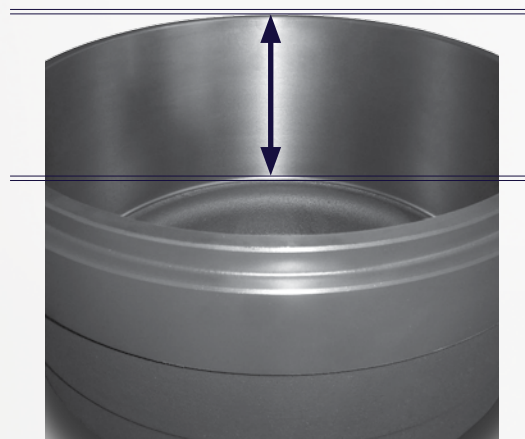
DRUM DIMENSIONS



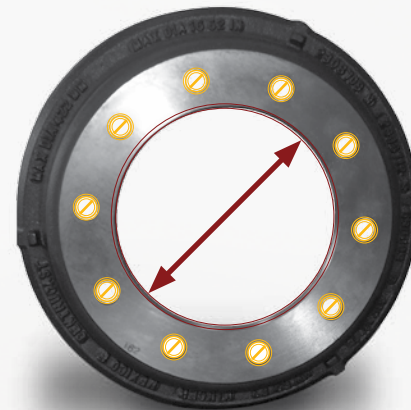
A. Track diameter.



B. Total height.



C. Depth of track.



D. Pilot diameter.

E. Flange holes diameter.



F. Drill basic center.



G. Balance.

BENEFITS

Brake drums original equipment by Mincer HC with rolling removal material or counter offers you the following:

- According to SAE J431 international specifications fullfill.
- A smooth drive unit that reduces dirvers fatigue.
- Eliminates vibration.
- Savings in mainttence stop unit.
- Reduces heating in the brake system by configuration of the drum.

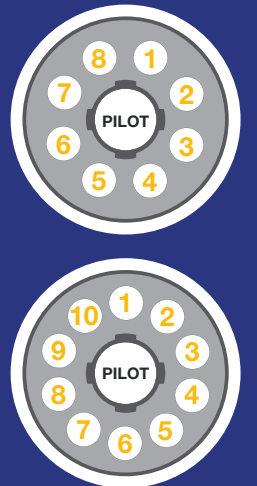
Remember tha original equipment manufacturers, as Mincer HD, have a computer technology and machinery exclusively for rolling processes that its products need; don't be fooled by substitue products, in Mexico Mincer HD only exists as provider of assemblers tract trucks, buses, trailers and major axle manufacturers in Mexico.

INSTALLING THE RHINE

For proper installation fo wheels, Mincer HD recommends:

- Prevent wheel or brake drum hang from hub.
- Use 2 flanged nuts, right rope.
- Before installing the nuts, apply oil to the bolt rope and rope nut.
- See sequence diagrams for torques of 8 or 10 holes.
- First adjust the nuts to 50 ft-lb, then to 450-500 ft-lb of torque.
- Retorque after 80,000 and 160,000miles after installation, check the torque periodically tereafter.

Befor removing the tires remove all the ari, otherwise it can be dangerous. For tire or wheel service follow the proper procedure as required by OSHA regulation 1910,177.



WARRANTY

Mincer HD offers a limited warranty for one year on hubs, artillery wheels, rotors and brake drums for commercial vehicles and passenger load, for specifications or limitationes of your warranty please contact your sales consultant.

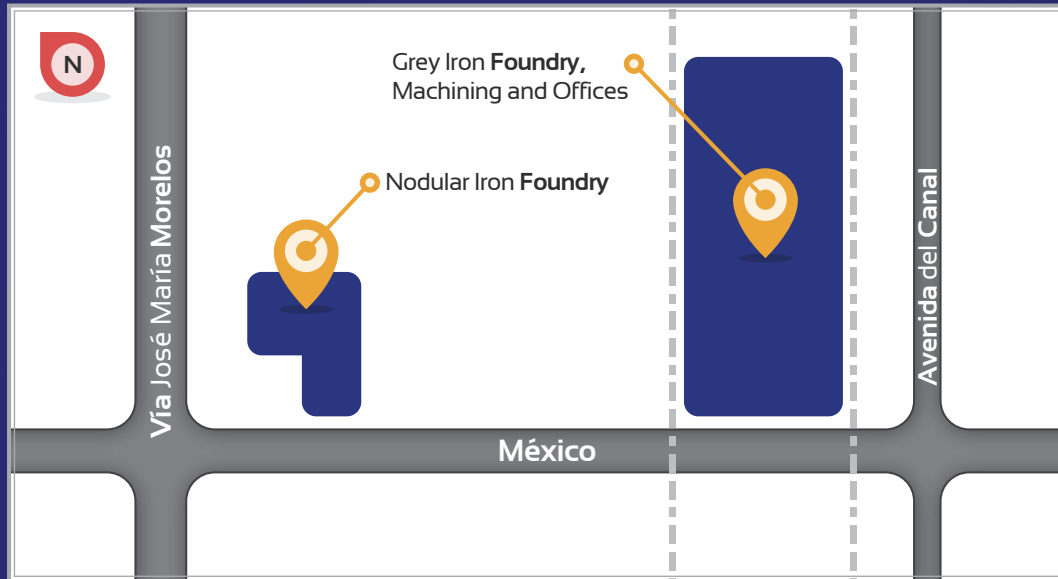
The Mincer HD obligation on this warranty is limited:
A. Inspect parts with possible failure, vehicle and maintenance records.
B. Replace any portion inspected by us that reveal tha t the piece is defective.

Mincer HD ensures the user to replace each hub, artillery wheel, brake rotor or drum that could become unusable during the first year from the date of manufacture, due to fuctional defects in workmanship or materials, excluding finishes.

The parts on which a warranty is claimed must be returned to the place of manufacture or our authorized representative, with transportation costs paid by the client (after makint the request).

This warranty does not apply if the failure is due to other components, such as lack of proper maintenance,misuse, accidental damage, improper installation or adjustment, excessive speed or other operating conditions or sever abnormal.

It supersedes any other that is offered at the acquired site. In any case the Mincer HD responsibility exceed the original price of the producto. Mincer HD will not be liable for incidental or special damages later.



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