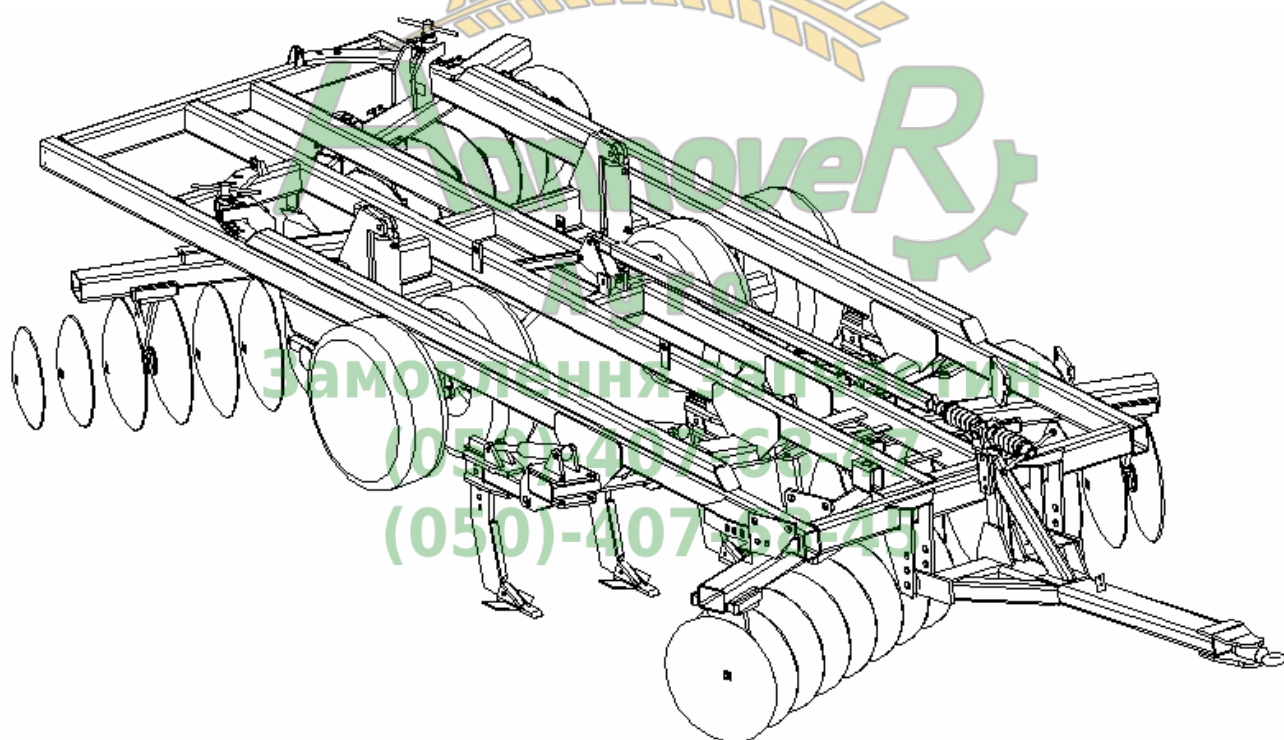


QUIVOGNE

TINEMASTER RIGID



Operating, Maintenance & Spare Parts Book

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MACHINE DETAILS

Model	
Serial Number	
Date Of Manufacture	



OPERATING INSTRUCTIONS

Care should be taken to follow the procedure below; failure to do so may result in personal injury and or damage to the machine.

Larger Tinemaster Disc Harrows fold hydraulically for road transport.

NEVER TOW DISCS IN THE TRANSPORT POSITION WITHOUT THE LOCKING PINS IN PLACE.

Tractor Linkage To The Machine

Ensure that the height of the tractor drawbar is approximately the same height as the drawbar of the machine when the machine is standing on the ground with the frame and drawbar parallel to the ground.

The height of the drawbar of the machine may be adjusted by using the holes provided in the frame. This will mean that when in work, the height of the tractor drawbar is approximately 100mm higher than the machines drawbar.

Adjustment For Levelling The Frame

The level of the frame of the machine may be adjusted by means of the spring loaded telescopic screw. The frame should be approximately parallel to the ground when the machine is in work.

When in work the screw allows balanced compressions of the springs on each side of the articulating block.

TRANSPORTING THE TINEMASTER.

Customers that have the larger 445/45 19.5 wheels fitted should be aware that the transport width of the Tinemaster is now over 3.00m

DO NOT TRANSPORT THE TINEMASTER IN THE FULLY RAISED POSITION. LOWER HALF WAY FOR TRANSPORTATION OTHERWISE SWAYING MAY OCCUR AND THE MACHINE MAY BECOME UNSTABLE.

Setting The Angles Of The Disc Gangs

When setting into work we suggest that the angle of the discs is initially set as follows:

Front Discs: Set to the 3rd hole from the front

Rear Discs: Set to the 3rd hole from the rear

From this position 'opening' the discs (moving the front discs further forward and the rear discs further back) will increase the cutting action. 'Closing' the discs (moving the front discs backwards and the rear discs forwards) will reduce the cutting action.

If the discs leave a ridge or depression in the middle, carry out the following minor adjustments.

To remove a ridge:

OPEN up the front set of discs by 1 or 2 holes.

To remove a depression:

CLOSE up the front set of discs by 1 or 2 holes.

Adjusting The Discing Depth

On the hydraulic folding machines, the discing depth is adjusted by moving the depth stop on the slide which is situated on the rearmost wheel lift cylinder.

On the rigid frame machines, the discing depth is adjusted by attaching or removing the mechanical clips onto or off the piston of each of the wheel lift cylinders

To Operate The Tines

The tines are lifted and lowered hydraulically, they are all linked together and when in work are connected to a large capacity accumulator, giving the tines and auto-reset break-back effect.

The pressure in the hydraulic circuit is factory set and must only be adjusted by a Quivogne engineer.

The depth of each tine is adjusted by means of the pin on the tine leg. It is recommended that the tines are set approximately 100mm below the disc depth.

Maintenance

Tighten All Bolts & Check Regularly

It is important that all bolts are checked for tightness after each days work (8 hours) and again at the end of the season before putting into storage.

Regularly check that the disc gang pivot bolt to the main frame is tight. The nut is retained in position by a grub screw which must be loosened before tightening the nut. Ensure that the grub screw is retightened after adjustment of the pivot bolt has been made.

Each gang of discs is fitted with a shaft nut and locking plate.

Regularly check these shaft nuts and make sure they are kept very tight- use the special spanner supplied with the machine. This spanner also fits the pivot bolt nut.

Lubrication

Grease with: SHELL RETINAX A

Or equivalent product

TOTAL MULTIS-EP

Grease all nipples before starting work with the machine and every 8 hours thereafter.

It is important not to over grease the shaft bearing assemblies and 'blow the seals'. These bearing assemblies are triple sealed conical bearings and as such do not need excess greasing. Excess greasing of these assemblies, and the resulting 'blowing of the seals' will encourage dirt into the housing. This will eventually result in the failure and collapse of the bearing unit.

The undercarriage linkage assembly requires the most frequent amounts of greasing.

Tyre Pressure

Regularly check all tyre pressures to maintain the correct pressure

445/45 R19.5 Tyres – 116 psi (8 bar)

295/60 R22.5 Tyres – 116 psi (8 bar)

Hydraulics

Keep all hydraulic connections clean.

When leaving the discs for any length of time, ensure that the wheels are fully raised allowing the hydraulic cylinder piston to be fully housed.

Check the operating bar on the hydraulic depth stop and maintain a minimum 2mm gap between the rod end and plunger when the rod is clear of the wheels.

Lateral Wheel Clearance.

Check regularly for the lateral wheel clearance and to adjust, take off the hub cap at the end of the axle, remove the split pin, adjust the nut lightly until clearance has been eliminated. Replace the split pin and cap. Take this opportunity to grease the hub.

**FOR TROUBLE FREE USE – KEEP ALL BOLTS TIGHT AND
ALL LINKAGES GREASED!**

TECHNICAL ADVICE FOR SAFETY **MACHINE DESIGNED FOR AGRICULTURAL USE**

Please read the advice given below before starting to operate. This machine is designed for agricultural use only. If used in a different capacity we will not be held responsible and the user will be responsible for his own actions.

People using the machine must be advised of the dangers. Comply with accidental protection notices, with work medical regulations with the road traffic regulations with the European Community regulations "Agricultural Machine Instructions". Any technical modification will be without the agreement of the manufacturer and we will not be held liable for the risks.

GENERAL BASIC RULES - SAFETY INSTRUCTIONS - ACCIDENT PROTECTION

Before each working session please ensure that the machine and tractor are in good working order.

1. Comply with the advice and safety instructions described in the operating book.
2. Read the stickers on the machine as they give important information.
3. Comply with safety instructions and the Road Traffic Regulations at the time of each use.
4. Read the operating book carefully before using the machine.
5. Avoid wearing loose clothing near the machine as it could be caught on the PTO shaft, rotors etc.
6. To avoid all risks of fire and premature corrosion keep the machine clean.
7. Make sure that no person stands near the machine before driving and working.
8. Never carry people on the machine. Do not stay on the machine in transport position or when in working position.
9. Only use the equipment provided by the manufacturer to couple the machine.
10. Couple the machine on the tractor, raise the machine carefully to avoid risks of accidents.
11. Always take into consideration the weight and width of the machine on the road.
12. Always set the lighting system, signal system and transport locks for road transportation.
13. Leave the semi-automatic coupling ropes loose so as to avoid the release of the locking system during transport.
14. Do not leave a moving tractor unattended. Stop the engine, disengage the PTO shaft and put on the handbrake.
15. When you steer to couple the machine make sure the braking capacity is sufficient – the braking is influenced by the weight of the machine coupled on the tractor.
16. In transport pay attention to the weight transfer when turning sharp corners and other road obstacles.
17. Only use the machine when all the safety and protection requirements have been followed.
18. Stop the machine immediately when someone arrives on or near the work area.
19. Put the machine on the ground, stop the engine, put the handbrake on and take the key out of the tractor before leaving it.
20. Do not stand between the tractor and the machine if they are not completely stabilized.
21. Do not use the machine if tired, under the influence of alcohol or on drugs.
22. Keep the reflective apparatus clean on the front and rear of machine.

MOUNTED MACHINE:

1. Make sure that the lifting system is working smoothly before coupling the machine on the tractor linkage.
2. Make sure the linkage category of the machine is the same as that of the tractor.
3. Be careful when standing near the linkage system area. There are risks of crushing and cutting.
4. Do not stand between the machine and the tractor during the coupling and when you fit the top link.
5. Adjust the check chains of the linkage of the tractor to avoid excessive sway.
6. In transport lock the operating lever of the linkage.
7. Set the lighting apparatus, signal system and required precautions for transport on the road.
8. Put on the safety pin and release the locking system in transport position.
9. Check the following regularly: axles, lynch pins, articulation pins, linkage bar.

SEMI MOUNTED & TRAILED MACHINES:

1. Make sure that the drawbar, turning link, fix link and hook is in good working order.
2. Check the connection to the tractor: linkage pins, hook, axles, pins etc.
3. Do not stand between the tractor and the machine at the time of coupling.
4. Never attach a trailed machine to the top link hitch point of the tractor
-SERIOUS RISK OF OVERTURNING
5. Regularly check and clean the hydraulic pipe connection, rams safety valves on the road etc.
6. In transport put on the safety pins and release the locking system.
7. In transport close the safety valves of the lifting rams of the machine.
8. When transporting drive carefully on the road especially on sharp curves and on bridges etc.
9. Set up lights, signal systems and transport locks for road transportation.
10. Do not uncouple the machine when on sloping ground. If necessary place a securing block behind the wheel.
11. Before leaving the tractor uncouple the machine. Lay the machine on the ground or on the support stand.
12. Open and close on a flat area with the tractor running at low revs.

MACHINE WITH HYDRAULIC EQUIPMENT:

1. Check the hydraulic kit, pipes, connections and valves are all in smooth working order before use.
2. Read the setting up procedure before use as shown herewith.
3. Before use fill up the hydraulic circuit by moving the spool valve of the tractor.
4. Keep people away from the driving area and be careful with large unfolding machines.
5. IMPORTANT - In transport close the safety valves of the rams.
6. On vertical and lateral folding machines put all release pins on.
7. Do not attempt to execute more than one operation at a time. Wait for one to finish before starting another.
8. Carry out all the operations on a flat surface with the tractor running at low revs. Leave the machine on a flat area.

PTO SHAFT:

1. Use the PTO shaft recommended by the manufacturer, which has a CE Mark.
2. Keep the guards and covers on the PTO Shaft.
3. At all times be careful with the PTO Shaft.
4. Never attach the PTO when the machine is lifted.
5. Lift the PTO Shaft to check that the guards move freely and cover the shaft.
6. IMPORTANT - Secure the chains of the PTO Shaft to ensure protection.
7. Before connecting the PTO Shaft make sure the RPM is the same as the machine.
8. When engaging the PTO Shaft ensure that no person is standing near the machine.
9. Never engage the PTO when the engine is a stopped or running at high rev.
10. Ensure that no person stands near the moving parts of the machine.
11. Do not allow hands, feet or any other part of the body near the moving parts of the machine.
12. Disengage the PTO Shaft if the work becomes too much for the machine - DO NOT OVERSTRAIN THE PTO.
13. Do not stand near the working machine even if the tractor PTO is disengaged WAIT FOR ALL MOVING PARTS TO STOP.
14. Carry out maintenance, greasing, cleaning and all other necessary work when the PTO Shaft is disconnected, the engine is stopped, the key away and the machine is stabilized.
15. Position the disconnected PTO Shaft on supports in order to avoid damage when in transport.
16. IMPORTANT - Always replace a broken or defective part by an original part, which has a CE Mark.

MAINTENANCE:

1. Carry out all maintenance, greasing, cleaning and any other work on the machine ONLY when the machine is stopped, stabilized, engine stopped, handbrake on and key out.
2. Regularly check the bolts, linkage, link pin, articulation axles, wearing parts often. Tighten them regularly and if necessary replace them with original parts.
3. For all work that needs to be carried out under the machine make sure the unit is wedged and supported carefully to avoid the risk of crushing. Take care with all parts that could fall or uncouple from the machine when this maintenance is being carried out.
4. Wear gloves for all work that needs to be carried out on the machine. Be careful on sharp edges.
5. Before undertaking greasing clean carefully the surplus grease and oil.
6. Before all welding operations on the machine when it is coupled with the tractor disconnect the cables of the battery.
7. Always replace the wearing parts or damaged parts with original ones.

WARNING & INFORMATION STICKERS ON THE MACHINE

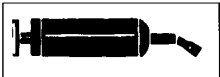


Before leaving the tractor for any operation on the machine, stop the engine and wait for the complete stop of any moving parts

Before starting to operate the machine read the advice and safety instructions given in the handbook. Before each use, check all the protection devices and tightness of bolts.

GRAISSAGE · Pailiers toutes les 6 heures · Autres graisseurs toutes les 20 heures GREASING · Bearings every 6 hours · Other grease nipples every 20 hours SCHMIERUNG · Lager alle 6 Stunden · Andere Schmiernippeln alle 20 Stunden	BOULONNERIE · Vérification de la boulonnerie après 1 heure d'utilisation, et ensuite, toutes les 20 heures BOLTING · Checking after the 1st hour using than, every 20 hours SCHRAUBEN · Überprüfung den Schrauben nach erster Stunde Verwendung, dann alle 20 Stunden
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Outlines the greasing instructions and frequency for tightening bolts.



Indicates where grease nipples are located that need greasing.



Замовлення запчастин

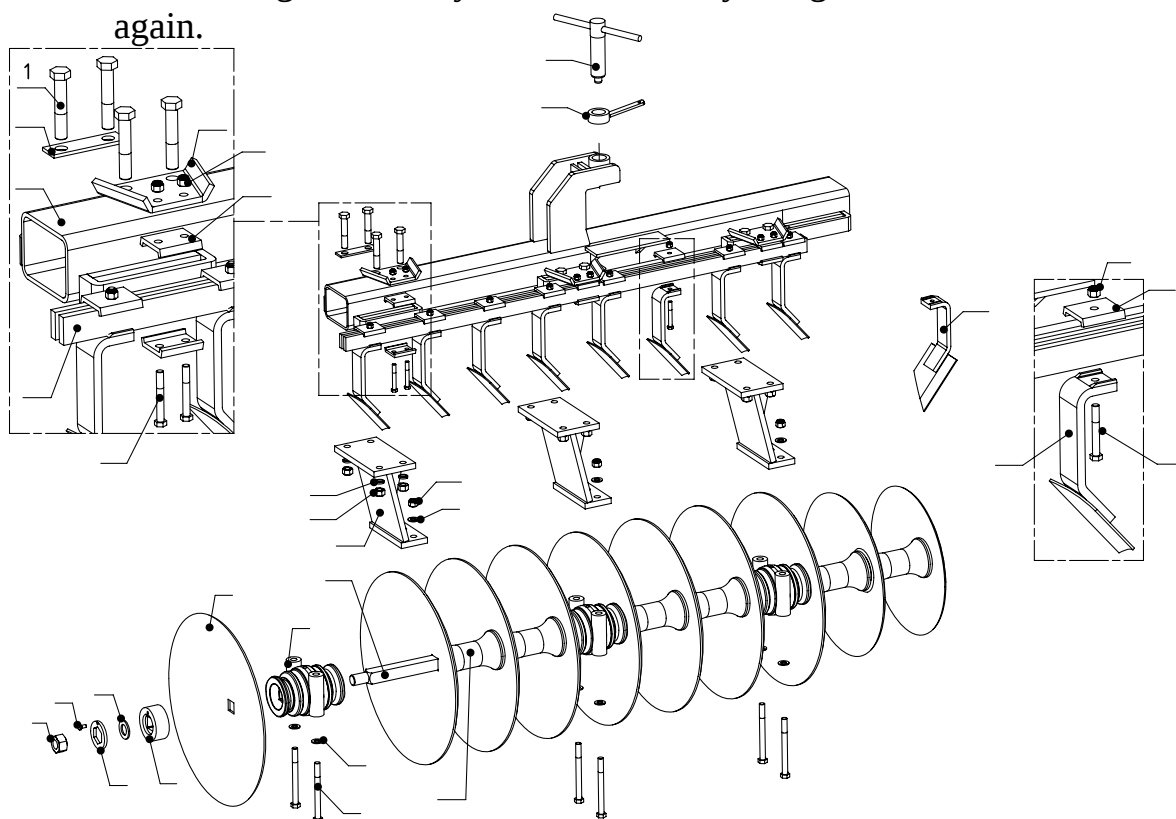
(050)-407-68-47

(050)-407-68-45

TO CHANGE THE BEARINGS ON A DISC SHAFT

For safety it is best to work on the disc harrow when it is positioned on a hard, even surface e.g. concrete. Take the weight of the depth wheels and set the machine down on the gangs.

1. Remove either the locking tab or locking plate on the shaft nut.
2. With the spanner supplied with the machine, loosen off the shaft nut ***but do not remove it!***
3. Loosen off the 2 bearing bolts and remove the nuts.
4. With the machine connected to the tractor, raise the machine with the hydraulics to a height of approximately 2.5cm (1 inch)
5. Check the ends of all the grease nipples on the gang. This may involve moving the dropped gangs with a jemmy bar to clearly align the grease nipples of the fixing bracket holes. Once this has been achieved, raise the machine a further 2 to 3 inches. Roll the discs clear of the machine.
6. Remove the shaft nut and locking collar.
7. Remove all discs and bearings necessary to gain access to the damaged items. **Note: Always stack removed discs and bearings in the same order they came off**
8. For rebuilding reverse steps 7,6,5 & 4. Then slacken off the bolts on the top of the fixing bracket (number 1 on the diagram) but do not remove the nuts.
9. Lower the machine fully onto the bearings and tighten the 2 bolts. Ensure that the shaft nut is fully tightened and only then should you tighten the fixing brackets top bolts. This is necessary so that the bearings, shaft and discs find their natural alignment.
10. Check that the discs turn with no tight spots.
11. Once completed check all the nuts and bolts and then grease the bearings if necessary. After approximately 6 hours work check all nuts and bolts again – it may also be necessary to tighten the shaft nut again.

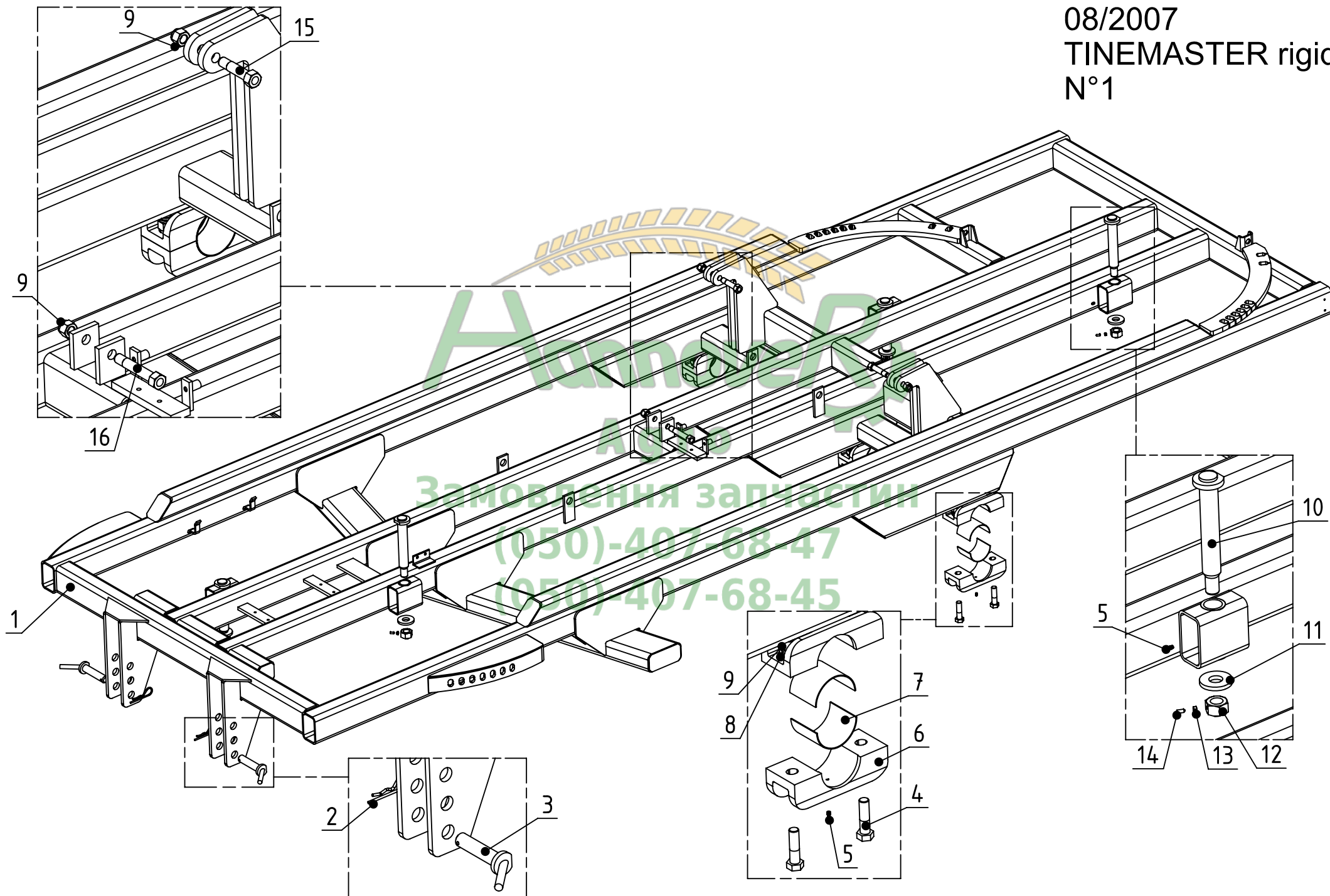




Parts Book

Агто
Замовлення запчастин
(050)-407-68-47
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08/2007
TINEMASTER rigide
N°1

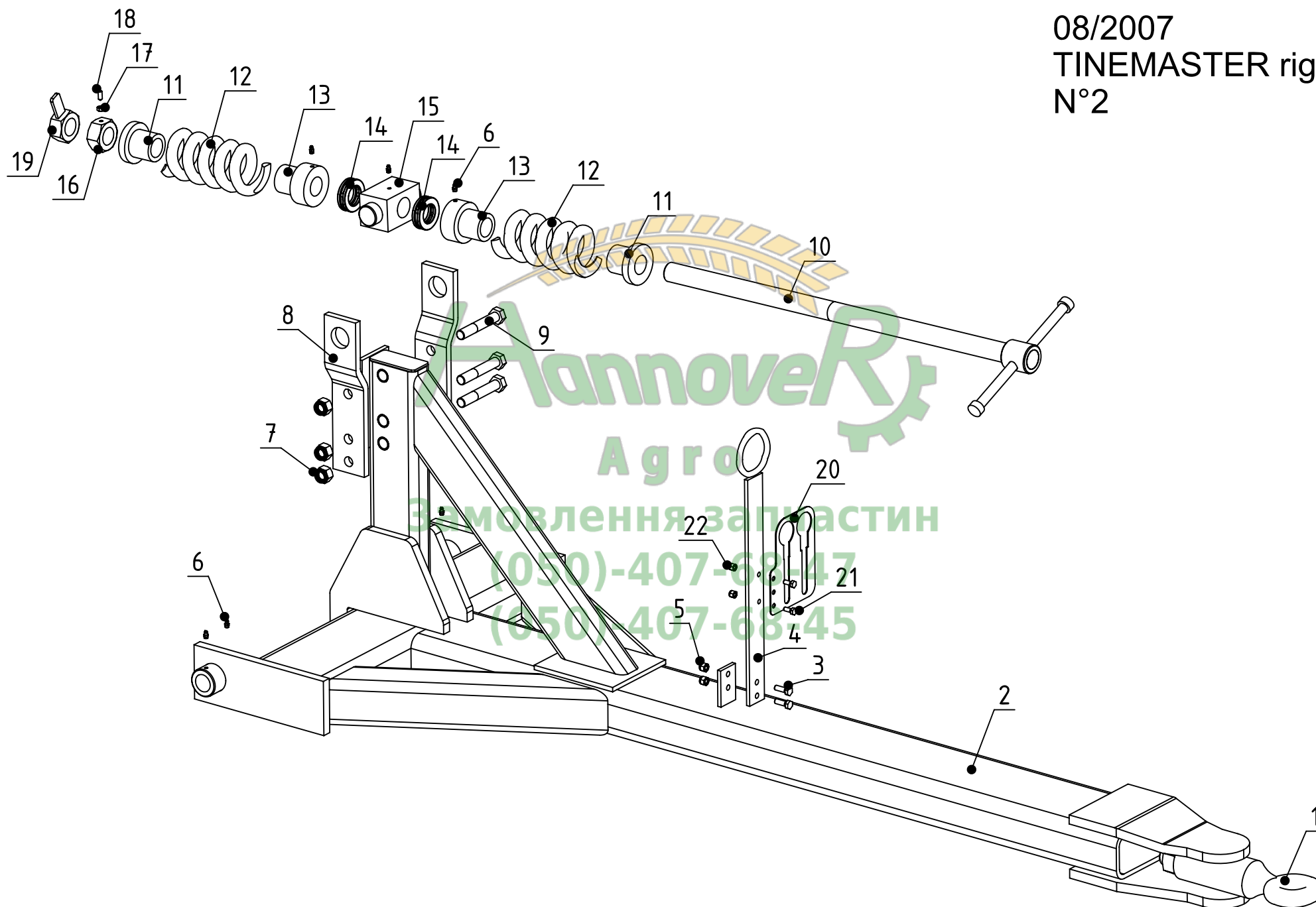


TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Chassis central nu TINEMASTERrigide	Rahmen	Main frame	Cajonera		APX00595
2	Goupille beta Ø6	Stift beta Ø6	Pin beta Ø6	Pasador beta Ø6	Штифт beta Ш6	GOU06000
3	Broche d'attelage Ø35x160	Zugspindel Ø35x160	Hitch pin Ø35x160	Passador de la horquilla Ø3		BRO03500
4	Vis T.H.24x 90 10.9 brut	Schraube 24x90	Screw 24x90	Tornillo 24x90		VIS24023
5	Graisseur M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
6	Palier 1/2 gros rond usiné alésage Ø 125 (bague bronz	Lager	Bearing	Cojinete	1/2 корлуса лодшилников	PAL00031
7	Bague 1/2 bronze Ø125/120 autoporteur	Büchse	Bushing	Casquillo	1/2 втулки Ш125/120	BAG12501
8	Rondelle grower WL Ø24	Scheibe WL Ø24	Washer WL Ø24	Arandela WL Ø24	Гроверная шайба WL Ш24	RON02400
9	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
10	Axe Ø 45x305 M33x200 (sous tête)	Achse	Axle	Eje		AXE45001
11	Rondelle plate 34x80x10	Scheibe 34x80x10	Washer 34x80x10	Arandela 34x80x10		RON03400
12	Ecrou H. M33x200 percé M8	Mutter M33x200	Nut M33x200	Tuerca M33x200	Гайка Н. М33x200 лросвер	ECR33002
13	Ecrou H. M 8 brut	Mutter M8	Nut M8	Tuerca M8	Гайка Н. М 8	ECR08000
14	Vis T.H.C. 8x20 8.8 brut b.poi	Schraube M8x20	Screw M8x20	Tornillo M8x20	Болт Т.Н.С. 8x20 8.8	VIS08015
15	Boulon T.H.25x110 M24 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x110 M24 (ст	BLS24019
16	Boulon T.H.30x150 M30 (acier)(sous tête)	Bolzen	Bolt	Bulon	Болт Т.Н.30x150 M30 (ст	BLS30013

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08/2007
TINEMASTER rigide
N°2

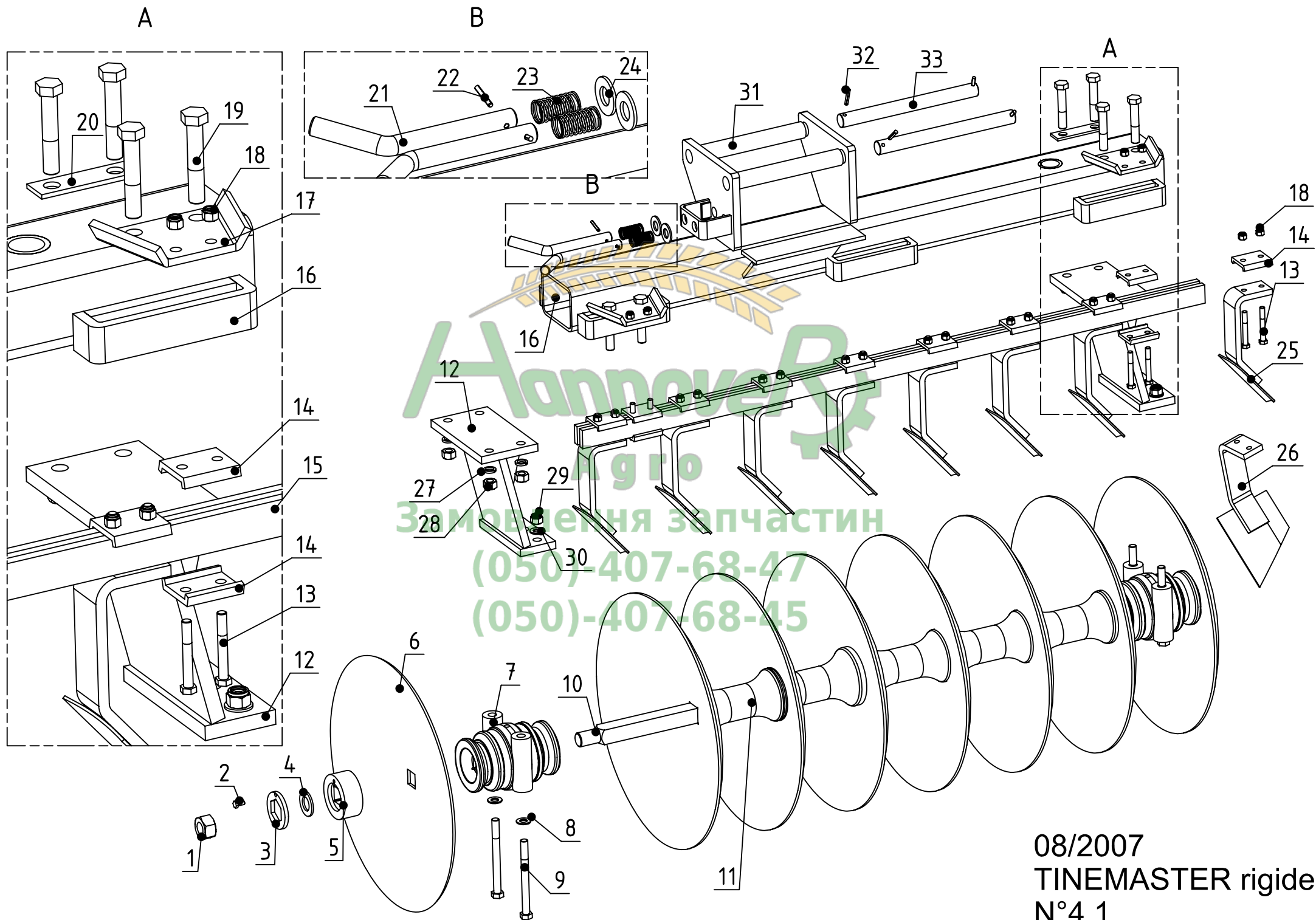


TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Anneau tournant avec plaquesoudée	Zughöse	Ring	Argolla		ANN00006
2	Flèche nue TINEMASTER rigide	Zugdeichsel	Drawbar	Lanza de enganche		FLE00072
3	Vis T.H.10x 30 8.8 Zn entierement filetée DIN 933	Schraube 10x30	Screw 10x30	Tornillo 10x30	Болт Т.Н.10x 30 8.8 Zn	VIS10009
4	Plat support de flexibles (3 flexibles)	Halter	Bracket	Soporte	Олорная лластина шлангов	FLE00002
5	Ecrou nylstop M10 Zn DIN 985 0871	Mutter M10	Nut M10	Tuerca M10	Гайка nylstop M10 Zn	ECR10002
6	Graisser M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
7	Ecrou nylstop M20 Zn DIN 985	Mutter M20	Nut M20	Tuerca M20	Гайка nylstop M20 Zn DIN	ECR20003
8	Plat déporté (trou Ø45)	Flacher Teil	Track	Lano	Пластина смещенная (отв.	FLE00005
9	Vis T.H.20x120 8,8 Zn	Schraube 20x120	Screw 20x120	Tornillo 20x120		VIS20033
10	Vis de télescopique Ø40 lg 1050	Schraube	Screw	Tornillo	Винт телесколической тру	VIS40001
11	Rondelle pour vis Ø40	Scheibe	Washer	Arandela	Шайба	RON04004
12	Ressort compr.Ø104 lg215 filØ22	Feder Ø104x22x215	Spring Ø104x22x215	Muelle Ø104x22x215		RES22000
13	Rondelle pour butée (vis Ø40)	Scheibe	Washer	Arandela	Шайба для улора	RON04005
14	RLt butée bille 68/40 réf.51208	Lager	Bearing	Cujinete	Улорный шариколодшлини	RLT51208
15	Carré d'articulation lg 155 pour vis Ø40	Klaue	Dogs	Antiolazioni	Шарнирный брус дл 155 д	FLE00007
16	Ecrou M40 Percé M8	Mutter M40	Nut M40	Tuerca M40	Гайка для телесколическог	ECR40009
17	Ecrou H. M 8 brut	Mutter M8	Nut M8	Tuerca M8	Гайка Н. М 8	ECR08000
18	Vis T.H.C. 8x20 8.8 brut b.poi	Schraube M8x20	Screw M8x20	Tornillo M8x20	Болт Т.Н.С. 8x20 8.8	VIS08015
19	Ecrou vis télescopique M40 (avec levier)	Mutter	Nut	Tuerca	Гайка для телесколическог	ECR40002
20	Support hydraulique 1/2 VALVES (TOL02150000)	Halter	Bracket	Soporte	Гидравлическая олора 1/2	SUP50000
21	Vis T.H. 8x 30 8.8 brut filetage total DIN 933	Schraube 8x30	Schraube 8x30	Tornillo 8x30	Винт Т.Н. 8x 30 8.8 лолн	VIS08007
22	Ecrou nylstop M 8 Zn	Mutter M8	Nut M8	Tuerca M8	Гайка М 8 Zn	ECR08001

TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Tube de liaison lg 2530M40x300 trou Ø25 TM	Tube	Tube	Tubo		APX00231
2	Boulon T.H.25x125 M24 (acier)(sous tête)	Achse Ø25x125 - M24	Axle Ø25x125 - M24	Eje Ø25x125 - M24	Болт Т.Н.25x125 M24 (ст	BLS24014
3	Graisseur M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
4	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
5	Triangle de renvoi 30°ép10	Drehestift	Pivot	Pivote		APX00069
6	Tube de liaison lg 1240 trouØ25 TM RIGIDE	Tube	Tube	Tubo		APX00230
7	Boulon T.H.25x140 M24 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x140 M24 (ст	BLS24028
8	Vérin DE: 50x110 C: 275 (prise d'huile en ligne) A1222	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05034
8	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004
9	Boulon T.H.30x150 M30 (acier)(sous tête)	Bolzen	Bolt	Bulon	Болт Т.Н.30x150 M30 (ст	BLS30013
10	Ecrou nylstop M30 Zn	Mutter M30	Nut M30	Tuerca M30	Гайка nylstop M30 Zn	ECR30002
11	Ecrou nylstop M20 Zn DIN 985	Mutter M20	Nut M20	Tuerca M20	Гайка nylstop M20 Zn DIN	ECR20003
12	Vis T.H.20x 60 8,8 Zn	Schraube 20x60	Screw 20x60	Tornillo 20x60	Болт Т.Н.20x 60 8,8 Zn	VIS20031
13	Gros rond TINEMASTER RIGIDE(bague bronze Ø125/	Tragplattterad	Wheel bracket	Rueda		GRD00087
14	Bague Ø 30x 40 lg 30 CONNEX	Büchse	Bushing	Casquillo	Втулка Ш 30x 40 дл. 30	BAG03003
15	Vérin DE: 50x110 C: 275 (prise d'huile décalée) A1182	Cylinder	Zylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05023
15	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004



08/2007
TINEMASTER rigide
N°4.1

TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Ecrou H. M36 brut pas 2 (arbre carré de 40)	Mutter M36	Nut M36	Tuerca M36	Гайка H. M36	ECR36000
2	Vis T.H.10x 20 8.8 Zn filetage total	Schraube 10x20	Screw 10x20	Tornillo 10x20	Болт Т.Н.10x 20 8.8 Zn л	VIS10006
3	Rondelle trou hexagonal pour écrou M36	Scheibe	Washer	Arandela	Шайба	RON00000
4	Rondelle plate 37x65x5	Scheibe 37x35x5	Washer 37x35x5	Arandela 37x35x5	Плоская шайба 37x65x5	RON03700
5	Rondelle fonte c42 MC 714 percée M10	Scheibe	Washer	Arandela	Плоская шайба	RON04001
6	Disque (nous consulter)	Scheiben	Disc	Disco	Диск (проконсультироваться)	DSQ00000
7	Palier écart.230 c42 AP 230 complet	Lager	Bearing	Cojinete	Подшипник в сборе	PAL40000
8	Rondelle plate 18x35x2	Scheibe	Washer	Arandela	Плоская шайба 18x35x2	RON01803
9	Vis T.H.18x200 8.8 brut	Schraube 18x200	Screw 18x200	Tornillo 18x200	Винт	VIS18009
10	Arbre carré (nous consulter)	Scheiben welle	Disc shaft	Arbol de disco	Квадратный вал	See last page
11	Entretoise ec230 c42 C702R usinée	Distanzring	Spacer	Arandela distanciadora	Промежуточная втулка	ENT23401
11	Entretoise ec260 c42 C712 usinée	Distanzring	Spacer	Arandela distanciadora		ENT26401
12	Support mécano-soudé ht 310 pour palier carré de 40	Halter	Bracket	Soporte	Опора	SUP10000
13	Vis T.H.12x 90 8.8 brut	Schraube 12x90	Screw 12x90	Tornillo 12x90	Болт Т.Н.12x 90 8.8	VIS12022
14	Chape à 2 trous pour barre 50x15	Gabel	Fork	Horquilla	Скоба с 2 отв. для бруса	BAT00005
15	Barre de raclette (nous consulter)	Balken	Bar	Barra	Брус чистика	BAR00000
16	Traverse nue (nous consulter)	Tube	Tube	Tubo	Траверса	TRX00000
17	Plat support de barre de raclette	Halter	Bracket	Soporte	Опорная пластина бруса ч	BAT00006
18	Ecrou nylstop M12 Zn DIN 985	Mutter M12	Nut M12	Tuerca M12	Гайка nylstop M12 Zn DIN	ECR12002
19	Vis T.H.20x110 8,8 Zn	Schraube 20x110	Screw 20x110	Tornillo 20x110	Винт Т.Н.20x110 8,8 Zn	VIS20032
20	Plaque à 2 trous support de palier	Platte	Plate	Placa	Пластина с 2 отв. опоры	BAT00007
21	Broche de secteur Ø25	Spindel	Pin	Pasador		BRO02500
22	Goupille cannelée 8x50	Stift 8x50	Pin 8x50	Pasador 8x50	Шлицованный штифт 8x50	GOU08001
23	Ressort compr.Ø 36 lg 80fil Ø 3,5	Feder Ø36x3,5 lg 80	Spring Ø36x3,5 lg 80	Muelle Ø36x3,5 lg 80	Пружина Ш 36дл. 80	RES03000
24	Rondelle plate 25x45x2 spécial secteur	Scheibe Ø25x45x2	Washer Ø25x45x2	Arandela Ø25x45x2	Плоская шайба 25x45x2 сл	RON02505
25	Raclette AV GA et AR DR disque Ø660 sup. mécanoso	Abstreifer	Scraper	Raedera		DEC00153

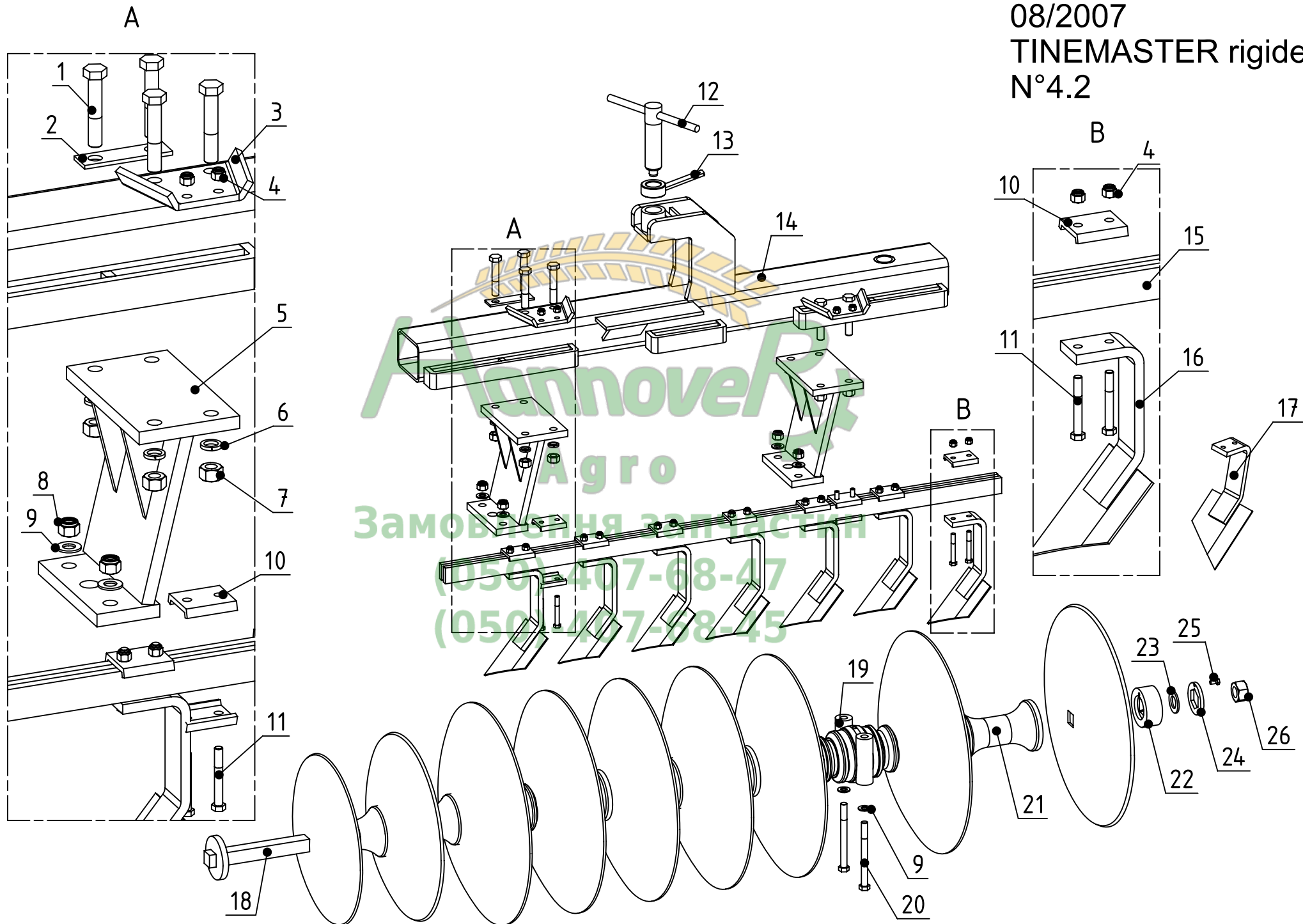
TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
26	Raclette AR DR et AR GA disque Ø660 sup. mécanoso	Abstreifer	Scraper	Raedera	Скребок	DEC00152
27	Rondelle grower WL Ø20	Scheibe WL Ø20	Washer WL Ø20	Arandela WL Ø20	Шайба grower WL III20	RON02000
28	Ecrou H. M20 Zn	Mutter M20	Nut M20	Tuerca M20	Гайка H. M20 Zn	ECR20002
29	Ecrou nylstop M18 Zn	Mutter M18	Nut M18	Tuerca M18	Гайка nylstop M18 Zn	ECR18002
30	Rondelle plate 18x35x2	Scheibe	Washer	Arandela	Плоская шайба 18x35x2	RON01803
31	Tube Ø 33x42 lg 300	Tube	Tube	Tubo	Труба Ш 33x42 дл. 300	BAT00009
32	Goupille cannelée 8x50	Stift 8x50	Pin 8x50	Pasador 8x50	Шлицованный штифт 8x50	GOU08001
33	Axe Ø 35x385 sans tête	Achse Ø35x385	Axle Ø35x385	Eje Ø35x385	Ось Ш 35x385	AXE35004



Замовлення запчастин
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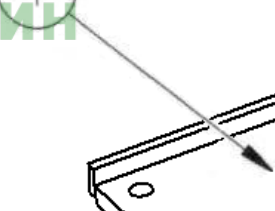
TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Vis T.H.20x110 8,8 Zn	Schraube 20x110	Screw 20x110	Tornillo 20x110	Винт Т.Н.20x110 8,8 Zn	VIS20032
2	Plaque à 2 trous support de palier	Platte	Plate	Placa	Пластина с 2 отв. олары	BAT00007
3	Plat support de barre de raclette	Halter	Bracket	Soporte	Олорная лластина бруса ч	BAT00006
4	Ecrou nylstop M12 Zn DIN 985	Mutter M12	Nut M12	Tuerca M12	Гайка nylstop M12 Zn DIN	ECR12002
5	Support mécano-soudé ht 310 pour palier carré de 40	Halter	Bracket	Soporte	Олора	SUP10000
6	Rondelle grower WL Ø20	Scheibe WL Ø20	Washer WL Ø20	Arandela WL Ø20	Шайба grower WL III20	RON02000
7	Ecrou H. M20 Zn	Mutter M20	Nut M20	Tuerca M20	Гайка H. M20 Zn	ECR20002
8	Ecrou nylstop M18 Zn	Mutter M18	Nut M18	Tuerca M18	Гайка nylstop M18 Zn	ECR18002
9	Rondelle plate 18x35x2	Scheibe	Washer	Arandela	Плоская шайба 18x35x2	RON01803
10	Chape à 2 trous pour barre 50x15	Gabel	Fork	Horquilla	Скоба с 2 отв. для бруса	BAT00005
11	Vis T.H.12x 90 8.8 brut	Schraube 12x90	Screw 12x90	Tornillo 12x90	Болт Т.Н.12x 90 8.8	VIS12022
12	Vis TL M48	Schraube	Screw	Tornillo	Болт TL M48	VIS48000
13	Ecrou vis de TL M48	Mutter M48	Nut M48	Tuerca M48	Гайка болта TL M48	ECR48001
14	Traverse nue (nous consulter)	Tube	Tube	Tubo	Траверса	TRX00000
15	Barre de raclette (nous consulter)	Balken	Bar	Barra	Брус чистика	BAR00000
16	Raclette AR DR et AR GA disque Ø660 sup. mécanoso Abstreifer		Scraper	Raedera	Скребок	DEC00152
17	Raclette AV GA et AR DR disque Ø660 sup. mécanoso Abstreifer		Scraper	Raedera		DEC00153
18	Arbre carré (nous consulter)	Sheiben welle	Disc shaft	Arbol de disco	Квадратный вал	See last page
19	Palier écart.230 c42 AP 230 complet	Lager	Bearing	Cojinete	Подшипник в сборе	PAL40000
20	Vis T.H.18x200 8.8 brut	Schraube 18x200	Screw 18x200	Tornillo 18x200	Винт	VIS18009
21	Entretoise ec230 c42 C702R usinée	Distanzring	Spacer	Arandela distanciadora	Промежуточная втулка	ENT23401
21	Entretoise ec260 c42 C712 usinée	Distanzring	Spacer	Arandela distanciadora		ENT26401
22	Rondelle fonte c42 MC 714 percée M10	Scheibe	Washer	Arandela	Плоская шайба	RON04001
23	Rondelle plate 37x65x5	Scheibe 37x35x5	Washer 37x35x5	Arandela 37x35x5	Плоская шайба 37x65x5	RON03700
24	Rondelle trou hexagonal pour écrou M36	Scheibe	Washer	Arandela	Шайба	RON00000
25	Vis T.H.10x 20 8.8 Zn filetage total	Schraube 10x20	Screw 10x20	Tornillo 10x20	Болт Т.Н.10x 20 8.8 Zn л	VIS10006

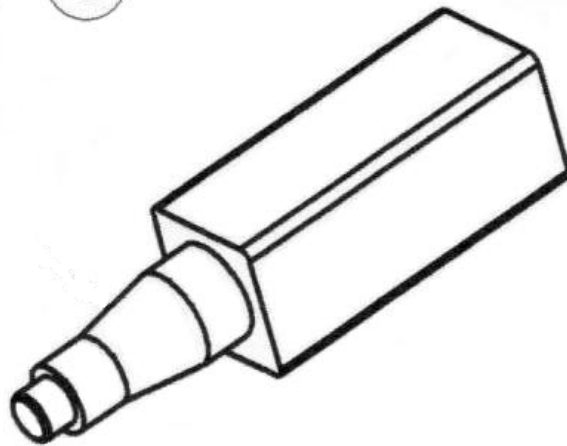
Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
26	Ecrou H. M36 brut pas 2 (arbre carré de 40)	Mutter M36	Nut M36	Tuerca M36	Гайка Н. М36	ECR36000



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A technical line drawing of a mechanical assembly. It features a large cylindrical component on the right, a central rectangular plate with four mounting holes, and a smaller cylindrical component on the left. A callout circle with a leader line points to the central plate. The number '5' is visible on a small lever or pin at the bottom right.

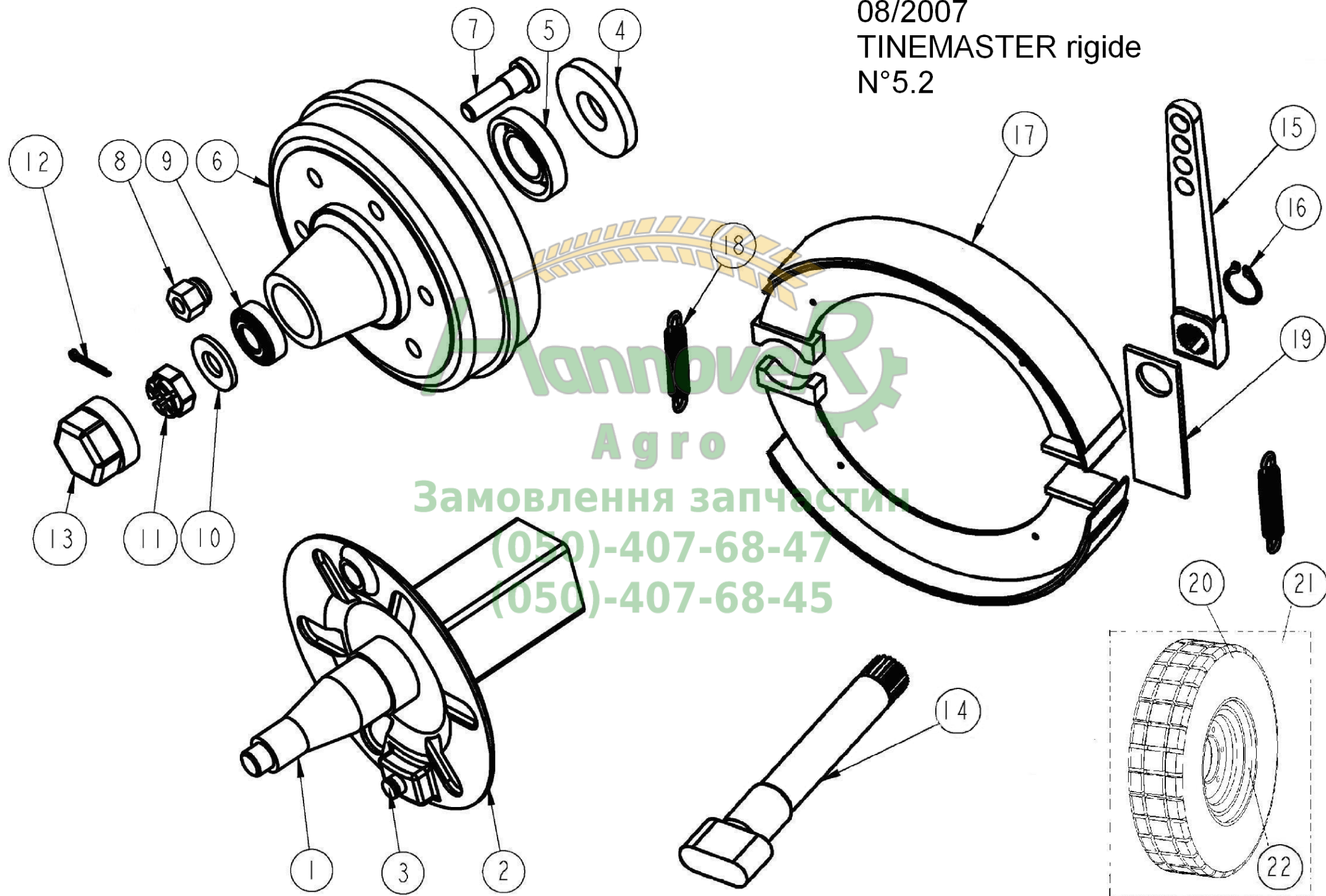


TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Essieu complet c70-6 axes-voie480 freiné	Radachse	Wheel axle	Eje		ESS07025
1	Essieu complet c70-6 axes-voie580 freiné	Radachse	Wheel axle	Eje		ESS07027
2	Moyeu nu ROC 706 A c70 - 6 axes	Nabe	Hub	Cubo	Стулица ROC 706 A c70 -	ESS57001
3	Goujon M18x150 lg45	Gewindebolzen	Stud	Esparrago roscado		ESS56014
4	Ecrou de goujon M18x150 24 plat	Mutter	Nut	Tuerca	Гайка шпильки M18x150 2	ESS56004
5	Bouchon de roue fileté Ø 86,5x150	Stopfen	Plug	Tapòn	Резьбовая заглушка колеса	ESS57002
6	Rondelle de protection 65x119x4	Scheibe	Washer	Arandela	Предохранительная шайба	ESS57003
7	Rlt roul.co.120/65 réf.30213	Lager	Bearing	Cujinete	Подшипник 120/65 гйф.30	RLT30213
8	Rlt roul.co. 85/45 réf.30209	Lager	Bearing	Cujinete	Подшипник 85/45 гйф.302	RLT30209
9	Rondelle plate 37x70x5	Scheibe	Washer	Arandela	Плоская шайба 37x70x5	RON03702
10	Ecrou créneaux HK M36x2 H=25	Mutter M36x2	Nut M36x2	Tuerca M36x2	Корончатая гайка HK M36	ECR36001
11	Goupille fendue 5x 60 Zn (DIN94 5x45 Zn)	Stift 5x60	Pin 5x60	Pasador 5x60	Разводной шплинт 5x 60	GOU05002
12	Joint nylos Ø65 30213	Dichtung	Tight joint	Junta	Прокладка Ш65 30213	JOI06502
13	Graisser M 6 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М6 левая	GRA06000

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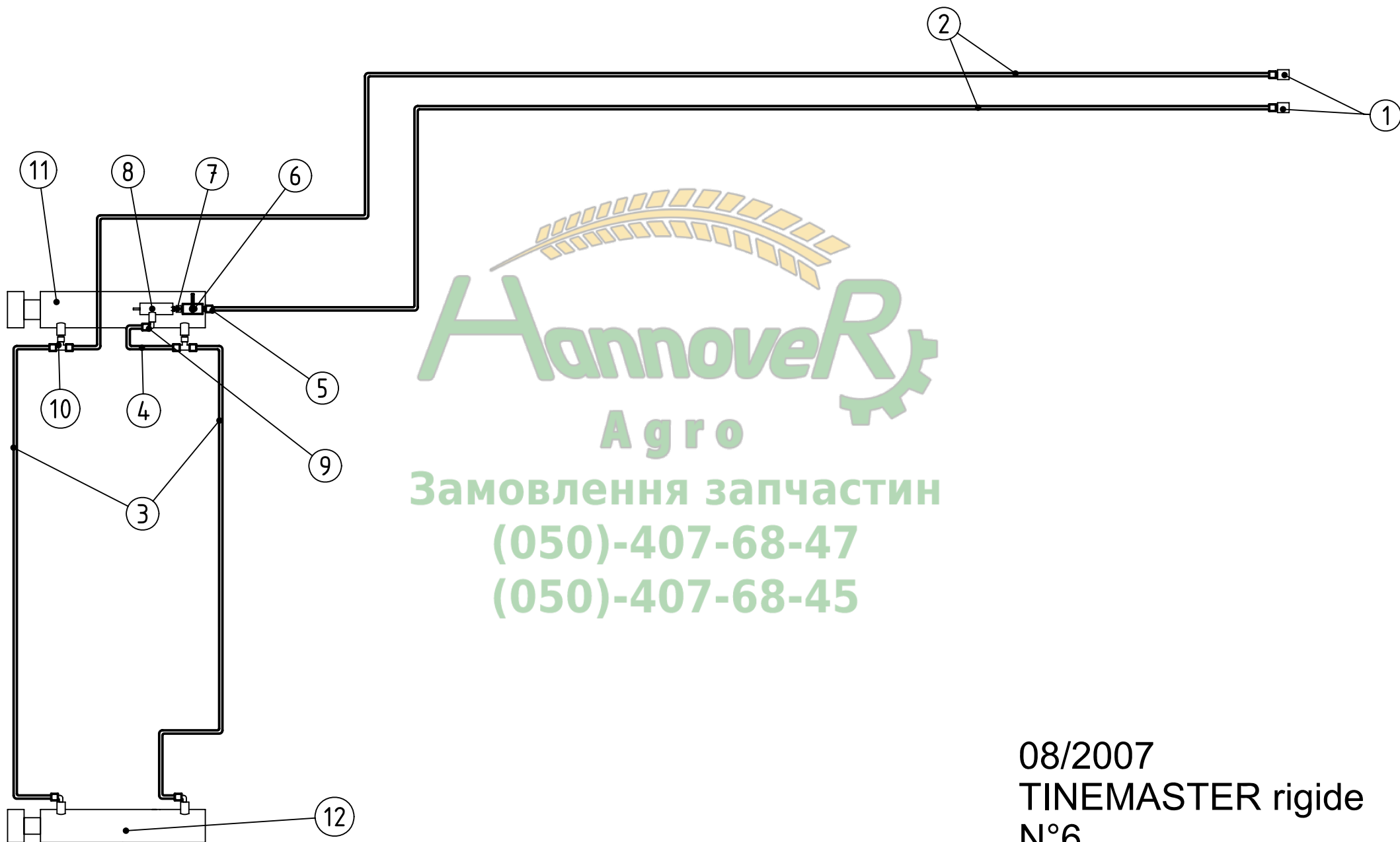
TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
2	Flasque équipé (axe+bague)(essieu 606MF1 300x60C)	Kurbelwange	Crankthrow	Flanco		ESS56103
2	Flasque de frein Ø65	Kurbelwange	Crankthrow	Flanco		ESS56104
3	Axe de frein 300x60c	Bremsachse	brake axle	Eje de freno		ESS58027
4	Rondelle de protection 100x55x1,2	Scheibe	Washer	Arondela	Предохранительная шайба	ESS56001
5	Rlt roul.co.100/55 réf.30211	Lager	Bearing	Cujinete	Подшипник	RLT30211
6	Moyeu monobloc 310 H	Nabe	Hub	Cubo		ESS56102
7	Goujon M18x150 lg54/39	Gewindebolzen	Stud	Esparrago roscado	Шпилька M18x150 дл.54/3	ESS56003
8	Ecrou de goujon M18x150 24 plat	Mutter	Nut	Tuerca	Гайка шпильки M18x150 2	ESS56004
9	Rlt roul.co. 80/40 réf.30208	Lager	Bearing	Cujinete	Конический подшипник 80	RLT30208
10	Rondelle plate 31x52x4	Scheibe	Washer	Arandela	Плоская шайба 31x52x4	RON03101
11	Ecrou créneaux HK M30x200	Mutter M30x200	Nut M30x200	Tuerca M30x200	Корончатая гайка HK M30	ECR30004
12	Goupille fendue 5x 50 Zn (DIN94 5x36Zn)	Stift 5x50	Pin 5x50	Pasador 5x50	Разводной шплинт 5x 50	GOU05001
13	Bouchon de roue fileté Ø 81,5x1,5	Stopfen	Plug	Tapòn		ESS56101
14	Came de frein 300x 60C (longueur sous tête à préciser)	Bremsnocken	Brake cam	Leva del freno		ESS56059
15	Biellette 4 trous Ø24,5 (frein300x60C)	Schubstange	Link	Bieleta		ESS56060
16	Circlips extérieur Ø 24	Seegering	Circlip	Anillo		CIR02400
17	Machoire de frein 300x60C	Gabel	Yoke	Horquilla		ESS56061
18	Ressort de rappel frein300x60C	Feder	Spring	Muelle		ESS56062
19	Support de came de frein 300x60C lg 82	Trag	Support	Soporte		ESS56105
19	Support de came de frein 300x60C lg 77	Trag	Support	Soporte		ESS56106
19	Support de came de frein 300x60C lg 87 (essieu carré)	Trag	Support	Soporte		ESS57102
19	Support de came de frein 300x60C lg 92 (essieu carré)	Trag	Support	Soporte		ESS58128
20	Pneu 295/60x22,5	Reifen	Tyre	Neumatico	Шина 295/60x22,5	PNE29500
20	Pneu 445/45 R 19,5	Reifen	Tyre	Neumatico		PNE44500
21	Roue 295/60 R22,5 / 6 trous (CH=3375Kg)	Rad	Wheel	Rueda	Колесо 295/60x22,5/14отв.	RPN29500
21	Roue 445/45 R 19,5 rechapée6 trous	Rad	Wheel	Rueda		RPN44500
22	Jante 9x22,5 pour roue 295/60 R22,5/6 trous	Radfelge	Wheel rim	Llanta de rueda	Диск 9x22,5	JAN29500

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
22	Jante 445/45 R19,5	Radfelge	Wheel rim	Llanta de rueda		JAN44500



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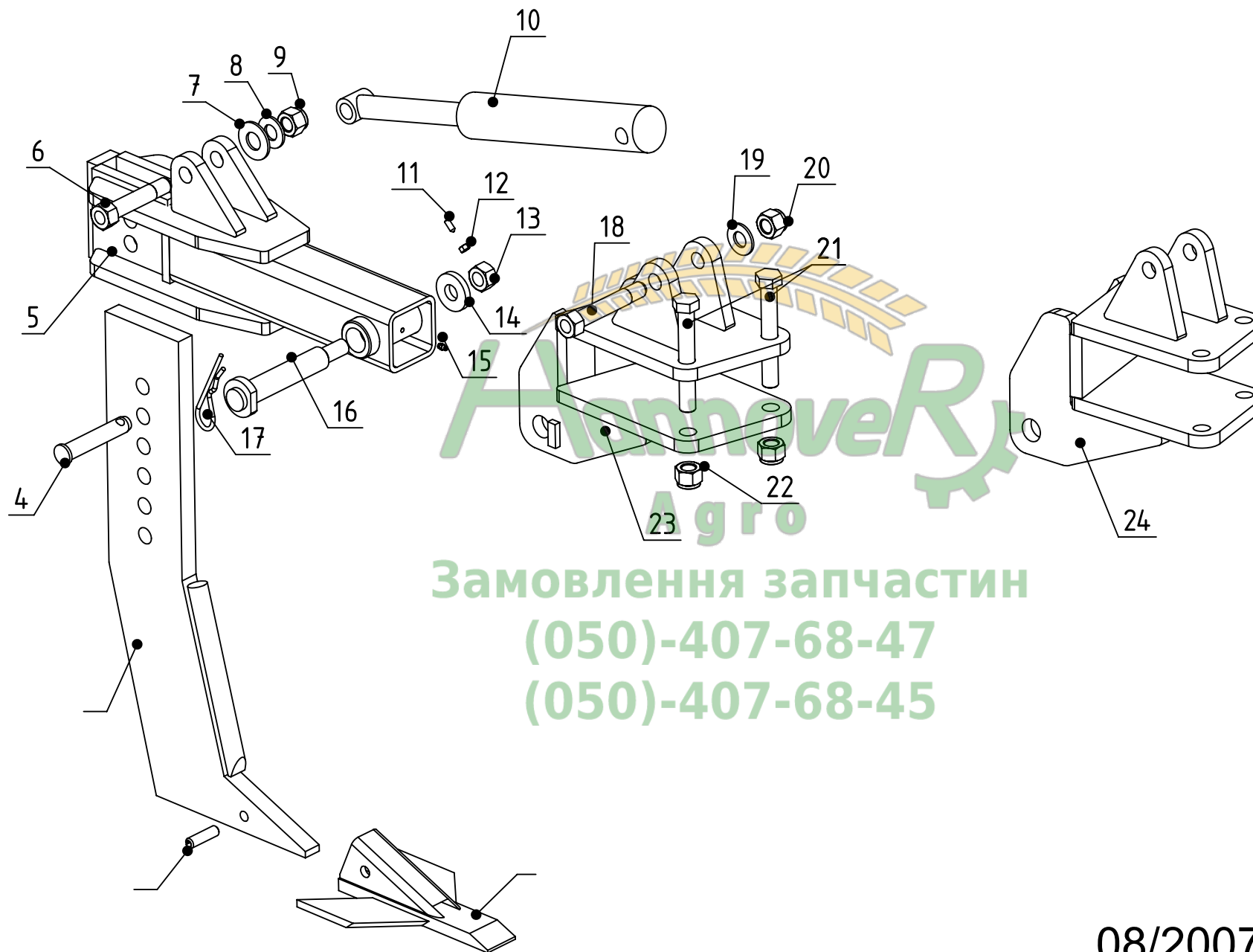


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TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Coupleur male 1/2 à clapet(male 18x150)	Kuppler	Coupler	Cuerpo	Муфта наружная 1/2 шари	HYD10710
2	Flexible FF TD2C8 EFR12L-EFR12L lg 8500	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD08508
3	Flexible FF TD2C8 EFR12L-EFR12L lg 2000	Schlauch	Hydraulic hose	Tuberia	Шланг TD2C8 EFR12L-EF	FFD02008
4	Flexible FF TD2C8 EFR12L-EFR12L lg 300	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 UF18-UF	FFD00308
5	Union M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Соединение 4A12 12-17	HYD10016
6	Robinet 2 voies F 3/8	Hahn	Tap	Espita	Кран с 2 выходами 8 FG	HYD00023
7	Union F 12L - M 3/8 conique tournant	Ölanschluss	Oil connector	Empalme	Переходник (с вращающей	HYD10201
8	Butée cylindrique complète sans raccord	Zylinder	Cylinder	Cilindro hidraulico		HYD00028
9	Coude M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Колено наружное коническ	HYD10305
10	Té égal M 12L	Ölanschluss	Oil connector	Empalme	Тройник равный 10A12	HYD10402
11	Vérin DE: 50x110 C: 275 (prise d'huile décalée) A1182	Cylinder	Zylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05023
11	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004
12	Vérin DE: 50x110 C: 275 (prise d'huile en ligne) A1222	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05034
12	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004

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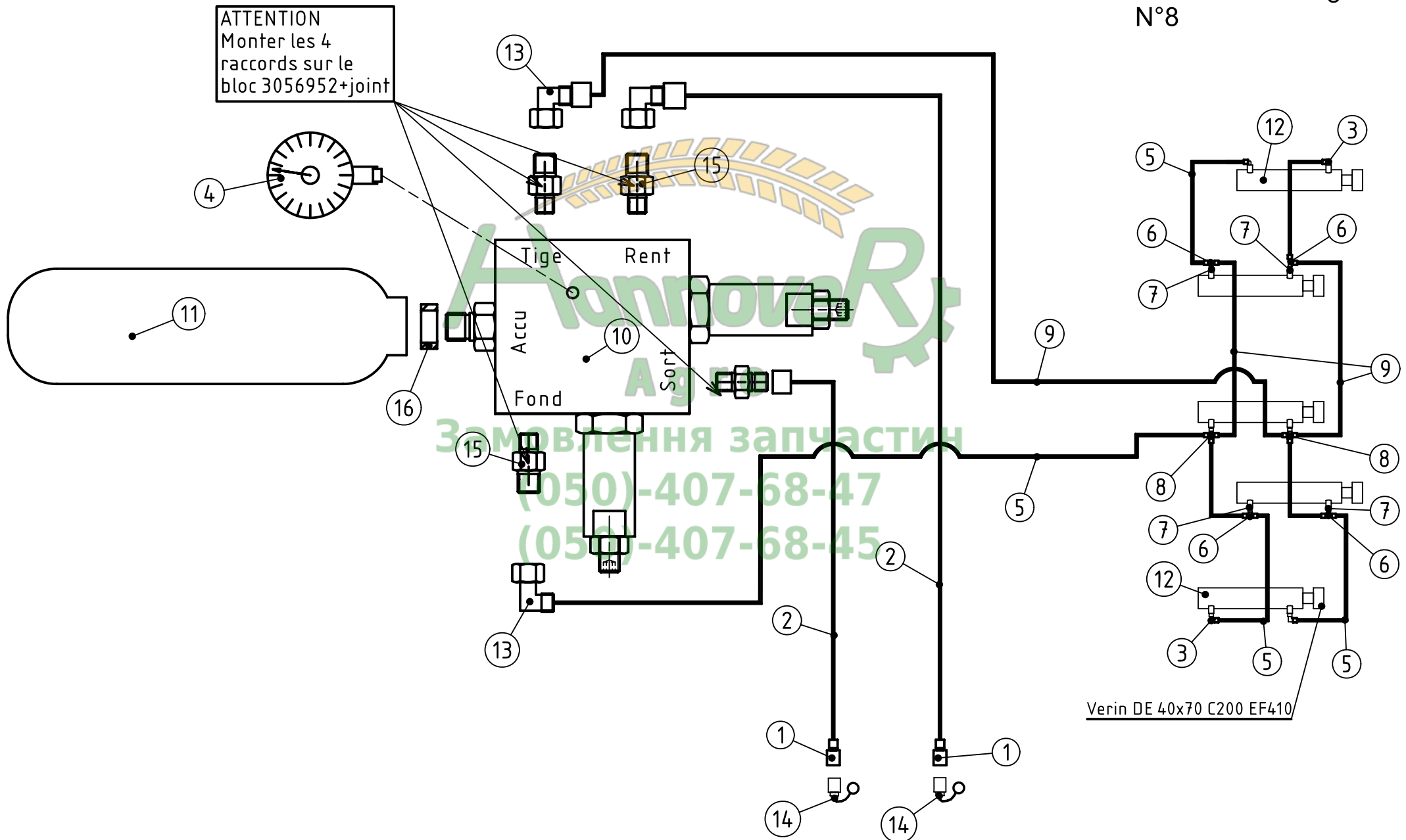
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TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
4	Axe Ø 25x135 de 3 point	Achse Ø25x135	Axle Ø25x135	Eje Ø25x135	Ось Ш 25x135 3-й точки	TMA00001
5	Tube support de dent de TM	Tube	Tube	Tubo	Олора зуба	SSO00501
6	Boulon T.H.24x125 filetage lg30 8,8 brut	Bolzen	Bolt	Perno		BLS24031
7	Rondelle plate 28x60x4	Scheibe	Washer	Arandela	Плоская шайба 28x60x4	RON02800
8	Rondelle plate 25x50x4	Scheibe 25x50x4	Washer 25x50x4	Arandela 25x50x4	Плоская шайба 25x50x4	RON02502
9	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
10	Vérin DE: 35x 60 C: 200 EAF400 A10022b	Zylinder	Cylinder	Cilindro hidraulico		VER03517
10	Pochette de joints pour vérin DE: 35x 60	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT03500
10	Vérin DE: 40x 70 C: 200 EAF:410 (réf:4072)	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр	VER04017
10	Pochette de joints pour vérin DE: 40x 70	Dichtungen	Seal kit	Juntas		PJT04006
11	Vis T.H.C. 8x20 8.8 brut b.poi	Schraube M8x20	Screw M8x20	Tornillo M8x20	Болт Т.Н.С. 8x20 8.8	VIS08015
12	Ecrou H. M 8 brut	Mutter M8	Nut M8	Tuerca M8	Гайка Н. М 8	ECR08000
13	Ecrou H. M33x200 percé M8	Mutter M33x200	Nut M33x200	Tuerca M33x200	Гайка Н. M33x200 просвер	ECR33002
14	Rondelle plate 25.5x60x12	Scheibe Ø25,5x60x12	Washer Ø25,5x60x12	Arandela Ø25,5x60x12		RON02506
15	Graisser M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
16	Axe Ø 35x225 M33x200(sous tête)	Achse	Axle	Eje	Палеч	AXE35029
17	Goupille beta Ø6	Stift beta Ø6	Pin beta Ø6	Pasador beta Ø6	Штифт beta Ш6	GOU06000
18	Boulon T.H.25x150 M24 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x150 M24 (ст	BLS24008
19	Rondelle grower WL Ø24	Scheibe WL Ø24	Washer WL Ø24	Arandela WL Ø24	Гроверная шайба WL Ш24	RON02400
20	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
21	Vis T.H.24x170 8,8 Zn	Schraube 24x170	Screw 24x170	Tornillo 24x170	Болт Т.Н.24x170 8,8 Zn	VIS24008
22	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
23	Support de dent de TM droit	Halter	Bracket	Soporte	Олора зуба	SSO00503
24	Support de dent de TM gauche	Halter	Bracket	Soporte	Олора зуба	SSO00500

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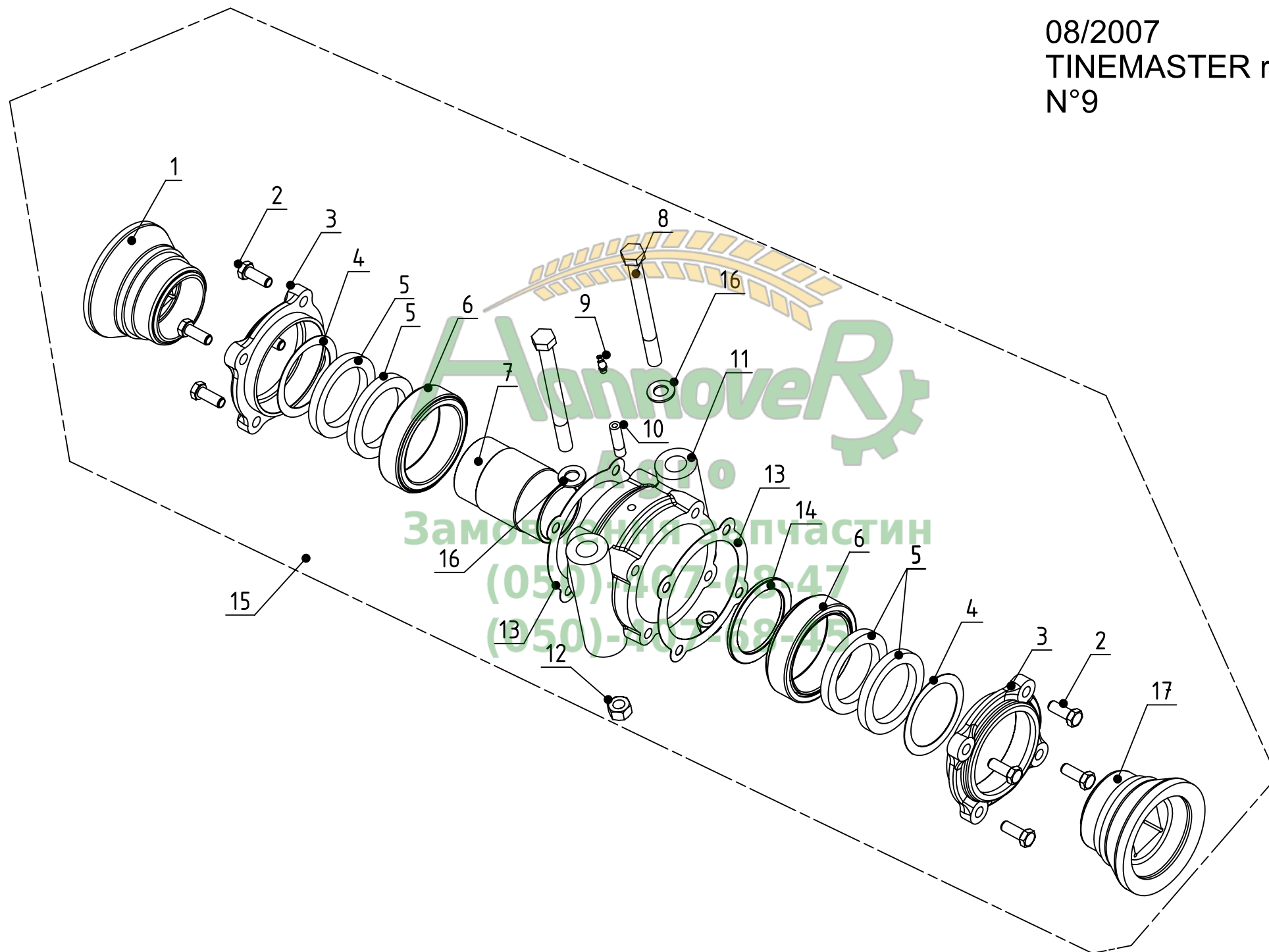


TINEMASTER rigide

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Coupleur male 1/2 à clapet(male 18x150)	Kuppler	Coupler	Cuerpo	Муфта наружная 1/2 шари	HYD10710
2	Flexible FF TD2C8 UF18-UF18lg 4800	Schlauch	Hydraulic hose	Tuberia		FFD04808
3	Coude M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Колено наружное коническ	HYD10305
4	Manomètre avec raccord radial G1/4 (TINEMASTER)	Ölmanometer	Oil pressure gauge	Manometro del aceite	Манометр	HYD03004
5	Flexible FF TD2C8 EFR12L-EFR12L lg 1600	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 UF18-UF	FFD01608
6	Té égal M 12L	Ölanschluss	Oil connector	Empalme	Тройник равный 10A12	HYD10402
7	Union F 12L - M 3/8 conique tournant	Ölanschluss	Oil connector	Empalme	Переходник (с вращающей	HYD10201
8	Croix égale M 12L	Ölanschluss	Oil connector	Empalme	крестовина	HYD10350
9	Flexible FF TD2C8 EFR12L-EFR12L lg 2000	Schlauch	Hydraulic hose	Tuberia	Шланг TD2C8 EFR12L-EF	FFD02008
10	Bloc hydraulique type 3056952Bloc de securité Tinema	Gehäuse	Case	Casa	Гидравлический блок	HYD03002
11	Boule d'azote 4 litres / 145 bars	Akkumulator	Gas bowl	Acumulador	Азотный шарик, 4 л/145 а	HYD01065
12	Vérin DE: 40x 70 C: 200 EAF:410 (réf:4072)	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр	VER04017
12	Pochette de joints pour vérin DE: 40x 70	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT04007
13	Coude tournant M 12L - F 12L	Ölanschluss	Oil connector	Empalme	Колено M 12L - F 12L	HYD10452
14	Capuchon de coupleur male 1/2 TF12 bleu	Stopfen	Plug	Tapón	Коллачок муфты 1/2 TF12	HYD00300
15	Union M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Соединение 4A12 12-17	HYD10016

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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Embout ec230 c42 creux MC616C	Endstück	End piece	Pieza terminal	Наконечник	EMB23646
2	Vis T.H.10x 35 6.8 brut	Schraube	Screw	Tornillo	Винт Т.Н.10x 35 6.8	VIS10018
3	Couvercle MC 617 usiné	Deckel	Cover	Tapa	Крышка	COU00006
4	Rondelle plate 90x115x1,2 acier (MC86)	Deckel	Cover	Tapa	Плоская шайба	RON09000
5	Joint à lèvres Ø 90x115x13 (MC668)	Dichtung	Tight joint	Junta	Прокладка	JOI09000
6	Rlt roul.co.125/70 réf.30214	Lager	Bearing	Cujinete	Подшипник	RLT30214
7	Douille MC 621	Büchse	Bush	Casquillo	Втулка	BAG00001
8	Vis T.H.18x110 8,8 Zn filetagetotal	Schraube 18x110	Screw 18x110	Tornillo 18x110		VIS18019
9	Graisseur M 8 coudé 45°	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 угол 45°	GRA08000
10	Allonge de graisseur M8	Verlängerung	Extension	Extensión	Удлинитель масленки М8	GRA08002
11	Corps palier: CVB 700 usiné	Körper	Casing	Cuerpo	Корпус подшипника	COR00004
12	Ecrou nylstop M18 Zn	Mutter M18	Nut M18	Tuerca M18	Гайка nylstop M18 Zn	ECR18002
13	Joint papier Ø125 pour paliercarré de 40 (MC87)	Dichtung	Tight joint	Junta	Прокладка	JOI17000
14	Bague Ø 71x 90 lg 11 (MC88)	Büchse	Bushing	Casquillo	Втулка	BAG07101
15	Palier écart.230 c42 AP 230 complet	Lager	Bearing	Cojinete	Подшипник в сборе	PAL40000
16	Rondelle plate 19x36x3	Scheibe	Washer	Arandela	Плоская шайба	RON01900
17	Embout ec230 c42 bombé MC616B	Endstück	End piece	Pieza terminal	Наконечник	EMB23641

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Disc Shafts For Tinemaster									
	2.8m	3.2m	3.6m	4m	4.4m	4.8m	5.2m	5.6m	6m
Front No. Discs	6	7	8	9	10	11	12 (6+6)	13 (6+7)	14 (7+7)
Shaft Length	52" 1310	61" 1545	70" 1770	79" 2015	88" 2250	97" 2475	52" 1310	52" 1310	61" 1545
Part Number	CAR04002	CAR 04003	CAR 04004	CAR 04005	CAR 04006	CAR 04007	CAR05017	CAR05017	CAR05018
							52" 1310	61" 1545	61" 1546
							CAR05017	CAR05018	CAR05018
Rear No. Discs	7	8	9	10	11	12	13 (6+7)	14 (7+7)	15 (7+8)
Shaft Length	61" 1545	70" 1770	79" 2015	88" 2250	97" 2475	107" 2720	52" 1310	61" 1545	61" 1545
Part Number	CAR 04003	CAR 04004	CAR 04005	CAR 04006	CAR 04007	CAR 04024	CAR04002	CAR04003	CAR04003
							61" 1545	61" 1545	70" 1770
							CAR04003	CAR04003	CAR04004