

## Operating and Maintenance Manual

### Tools for bale handling

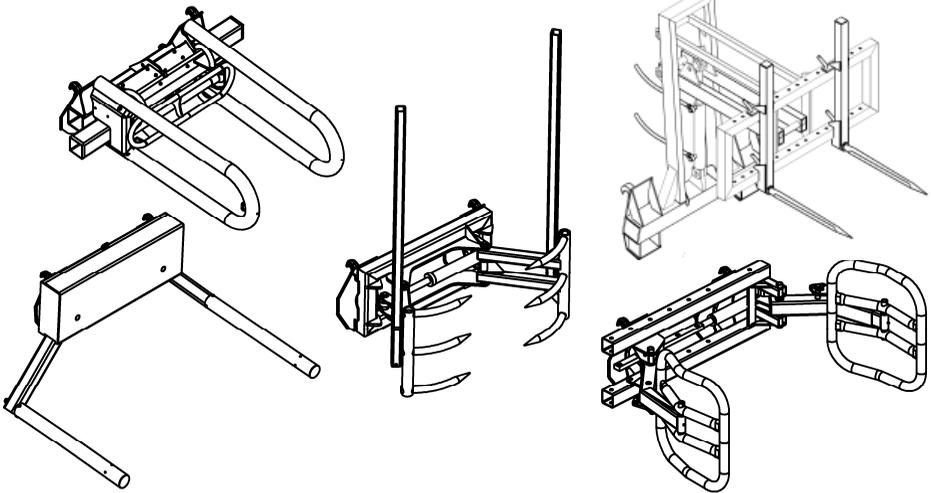
*Wrapped bale tongs*

*Maxi bale claw H*

*Bale fork lift H*

*Wrapped bale handler Pro H*

*Roller bale fork*



## **Dear Customer**

We thank you for purchasing a implement from our company.

Before using the implement please read this operating and maintenance manual carefully so that you can enjoy this product for a long time and are aware of any possible dangers that may arise when using the product.

If you have any questions about these operating and maintenance instructions, please contact your dealer.

Thank you.

Wilhelm STOLL Maschinenfabrik GmbH

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## Tighten all screwed joints!

| Tightening torque for screws  |                        |      |                      |                        |      |
|---|------------------------|------|----------------------|------------------------|------|
| Strength class 8.8 and 10.9 – Average friction coefficient $\mu$ 0.12 |                        |      |                      |                        |      |
| Screws  | Tightening torque (Nm) |      | Screws               | Tightening torque (Nm) |      |
|   | 8.8                    | 10.9 |                      | 8.8                    | 10.9 |
| M 8   | 23                     | 33   | M 20                 | 380                    | 530  |
| M 8x1   | 25                     | 35   | M 20x2               | 400                    | 560  |
| M 10  | 46                     | 65   | M 20x1,5             | 420                    | 590  |
| M 10x1,25   | 49                     | 69   | M 22                 | 510                    | 720  |
| M 12  | 80                     | 110  | M 22x2               | 540                    | 750  |
| M 12x1.5  | 84                     | 118  | M 22x1.5             | 560                    | 790  |
| M 12x1.25   | 88                     | 123  | M 24                 | 630                    | 890  |
| M 14  | 130                    | 180  | M 24x2               | 680                    | 950  |
| M 14x1.5  | 138                    | 190  | M 27                 | 930                    | 1310 |
| M 16  | 190                    | 270  | M 27x2               | 995                    | 1400 |
| M 16x1.5  | 210                    | 290  | M 30                 | 1260                   | 1770 |
| M 18  | 270                    | 380  | M 30x2               | 1370                   | 1930 |
| M 18x2  | 280                    | 400  |                      |                        |      |
| M 18x1,5  | 300                    | 420  | 5/8" UNC<br>(normal) | 175                    | 245  |
|   |                        |      | 5/8" UNF(fine)       | 200                    | 280  |
|   |                        |      | 3/4" UNC<br>(normal) | 380                    | 530  |
|   |                        |      | 3/4" UNF (fine)      | 420                    | 590  |



**Prior to operating read and observe all safety instructions.**



In this operating and Maintenance manual instruction booklet we have marked all paragraphs which refer to your safety with this sign. Pass on all safety advices also to other users.

#### **Intended use**

The STOLL tool for bale handling is built solely for normal agricultural use (operated in accordance with specifications).

**Any use apart from this one is not according to the regulations.**

**Use for any other purpose is considered as operation which is not in accordance with specifications and is undertaken as such at the owner's risk.**

Observation of the operation and maintenance instructions specified by the manufacturer shall also be taken to the part of operation in accordance with specifications.

The combined bucket may only be operated, serviced and repaired by personnel who are familiar with these functions and who have been instructed of the inherent dangers. Never carry out changes yourself.

**It is forbidden to approach within reach of the tool for bale handling while in use.**

STOLL must regretfully decline responsibility for damage resulting from any misuse.

All relevant accident prevention, safety, health and highway regulations must be complied with.

## Safety and prevention of accidents

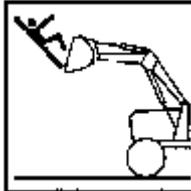
### Warning – Risk of accident and injury!

Screw connections must be tight at all times, otherwise components may loosen and endanger people in and on the tractor.

- Tighten all screws after 5 operating hours.
- Check that the screw connections are tight every 100 operating hours.
- Tighten loose screw connections immediately.

Most accidents which occur in agricultural enterprises are the result of safety rules being disregarded by personnel.

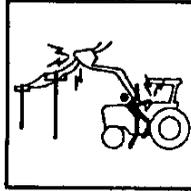
1. Acquaint yourself with all equipments and control elements just as their function before work start. During work it is too late for that.
2. Before any operation of the tool for bale handling put the hydr. control unit to its neutral position.
3. **It is forbidden, to convey or raise people in bucket or other implement!**



4. The maximum roadspeed with attached load beam is 6 km/h, the maximum working speed is 6 km/h.
5. Never carry out repair, cleaning or lubricating jobs with raised load beam! Lower or remove beam. Lower load beam after completion of work.
6. **Never drive the tractor off with a jerk** if the attachment is fully loaden or in its highest position. Drive downhill when pushing together or collecting material, whenever possible load in a trough or dip; **never** drive across a gradient with raised load beam; increase rear track width of the tractor as necessary and never drive with a narrower then standard front track width, even with tractors equipped with an adjustable width front axle.
7. **Do not turn the tractors steering wheel when driving into the material to be loaded.**
8. **Sojourn within the working range is prohibited. Stay clear of raised unsecured loads**



9. Ensure that the front loader is a safe distance away from overhead power lines.
10. Good visibility is essential during frontloader operation (clean cab windows; no risk of dazzling; sufficient lighting of the work area in the dark).
11. Ensure that the front loader is a safe distance away from overhead power lines. Danger to life in case of contact.



12. Liquids leaking under high pressure (Diesel fuel, hydraulic oil) can penetrate the skin and cause severe injury.  
When injured see a doctor immediately!  
Danger of infection!



13. Before the first use of the bucket with grab and then at least once a year all hoses must be checked by an expert worker for their operational safety and replaced if required.  
The time of use of the hoses should not exceed six years including a maximum storage time of two years. The replacement hoses and pipings must meet with the implement manufacturer's technical standards.
14. When searching for leaks appropriate aids should be used because of the danger of injury.
15. Moreover, the accident prevention rules of agricultural trade associations and application requirements for protective devices according to the machinery protection act and the rules of traffic act have to be observed.

## Terms of Warranty

The warranty conditions of STOLL Maschinenfabrik GmbH apply

## Operating the bale gripper for bales wrapped in plastic sheet

### 1. Attachment to the frontloader beam

Catch with quick interchange frame under the hooks of the bale gripper, subsequently tilt the quick interchange frame.

### 2. Hydraulic connection

Connect the hydraulic hoses with the couplings to the connections of the 3rd control circuit.

### 3. General and safety requirements

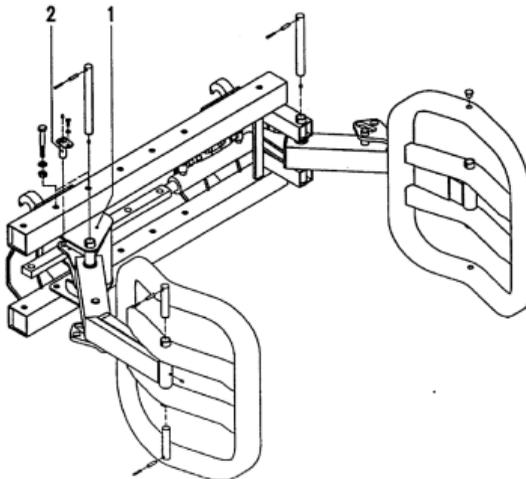
The STOLL bale gripper is designed to load silage bales wrapped in plastic sheet. Of course, even highly compressed bales of all standard shapes and sizes that are not wrapped can also be loaded. The bales gripped with tongs must not be transported on public land.

**Transporting bales on public roads, elg. from the field to the farm, is not permissible.**

**No persons are allowed under the lifted frontloader!**

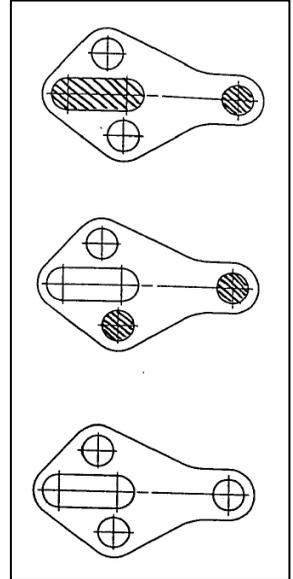
### 4. Adapting the bale gripper to different bale sizes

Adapting the loader to the bale size is by moving the right hand bracket (item 1) and the cylinder pin (item 2). The bracket and the cylinder pin must always be moved for the same amount on the long control rod. Rule: at the right of both bracket and cylinder pin there should always be visible the same number of free holes. Any nonobservance of this rule will result in the destruction of the cylinder:



## 5. Adapting the hinge of the loader arms

- 5.1 Round bales **less than** 1.50 m in diameter  
Fit the connecting link to the slotted hole.
- 5.2 **Round bales**  
**equal to or larger than 1.50 m** in diameter  
Fit the connecting link to the round hole  
(factory adjustment at delivery)
- 5.3 **Square bales**  
Fit the connecting link to suit the given conditions.



## 6. General instruction

- 6.1 It is recommended that the silage bales are pressed as tightly as possible to make them easier to load up.
- 6.2 Bales that have gone through a phase of secondary fermentation are very soft and so they must be pressed several times with the tongs before being transported, otherwise they will slacken and slip off the tongs under certain conditions, e.g. on a bumpy ride.
- 6.3 Very long square bales of silage (over 1.50 m) should not be gripped at the ends, as they tend to sag through their own weight and thereby slip off.
- 6.4 When lifting and transporting the bale, it must be ensured that it rests on the inside of the support frame for a more secure handling of the bale.
- 6.5 It is advisable to always to wrap the bales at their final storage location. The delicate foil wrapped bales can be damaged when they are being transported over a longer distance.
- 6.6 The bale grippers can be used to pick up, transport and deposit or stack wrapped bales that are either upright or horizontal.

**!! Never carry two or more bales at the same time !!**

## Operating the Maxi bale claw H

### 1. Attachment to the frontloader beam

Catch with quick interchange frame under the hooks of the bale claw subsequently tilt the quick interchange frame.

### 2. Hydraulic connection

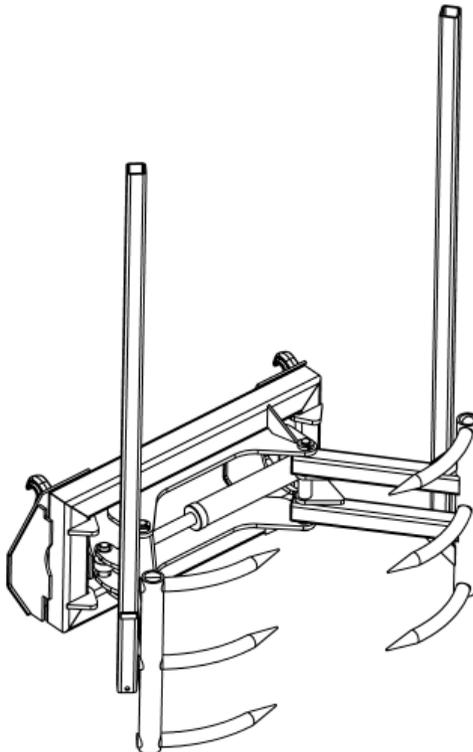
Connect the hydraulic hoses for the bale claw to the terminals on the 3rd control circuit.

### 3. Operation

Lower the front loader arm as required and open the bale claw fully using the 3rd control circuit. Drive towards the large bale until the bale claw rests on the covered side of the large bale. Close the bale claw using the 3rd control circuit until it grips the large bale in a secure hold. Lift the large bale slightly with the arm and transport; lift the arm further to stack the large bale. Set the large bale down at the desired point and open the bale claw using the 3rd control circuit; reset the tractor.

The bale claw can be used to take up, transport and deposit a bale in upright or lying position.

**!! Never carry two or more bales at the same time !!**



## Operating the bale stacker H

### 1. Attachment to the frontloader beam

Catch with quick interchange frame under the hooks of the bale stacker, subsequently tilt the quick interchange frame.

### 2. Hydraulic connection

Connect the hydraulic hoses of the bale- fork lift to the connections of the 3rd control circuit.

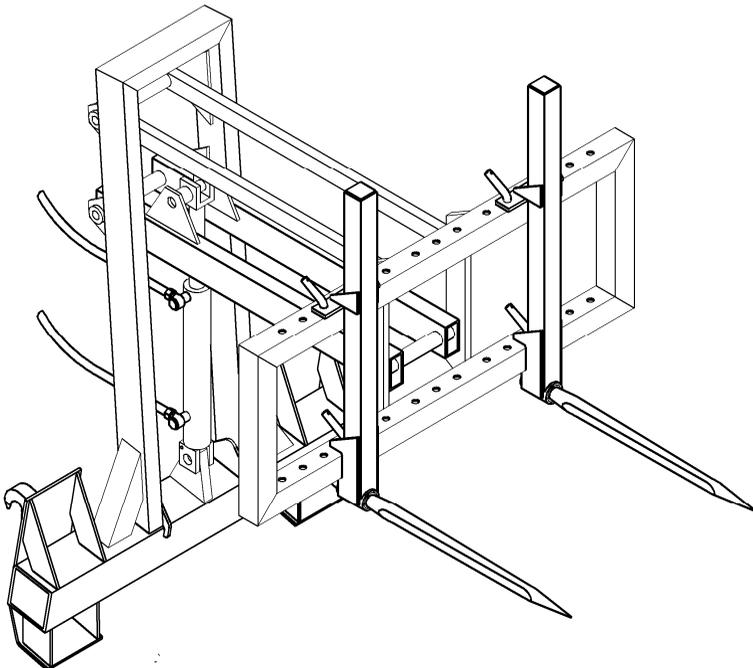
### 3. Operation

Frontladerschwinge absenken und die Zinken etwa waagrecht zum Boden einstellen, Schlepper langsam vorfahren und mit den Zinken der Stapelgabel des Ballenhubstaplers unter den Großballen greifen, bis dieser an der Rückwand des Ballenhubstaplers anliegt. Anschließend über 3. Steuerkreis den Ballenhubstapler in obere Stellung anheben, danach Frontladerschwinge nach Bedarf anheben. Für Transportfahrten den Großballen nur geringfügig anheben, die erforderliche Hubhöhe erst für den Stapelvorgang einstellen.

Then slowly lower and deposit the big bale and carefully drive back with the tractor.

Bales can be transported in lying or upright position depending on the desired shape of the stack.

**!! Never carry two or more bales at the same time !!**



## Operating the bale gripper PRO H

### 1. Attachment to the frontloader beam

Catch with quick interchange frame under the hooks of the bale gripper, subsequently tilt the quick interchange frame.

### 2. Hydraulic connection

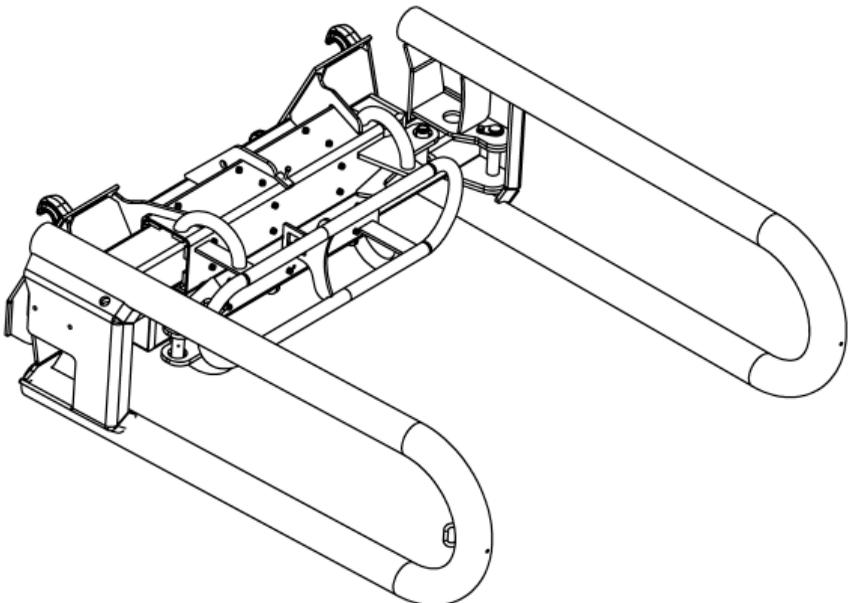
Connect the hydraulic hoses to the connections of the 3rd control circuit.

### 3. Operation

Lower the front loader arm and adjust the tines so that they are approximately parallel to the ground. Drive the tractor slowly forwards and grip underneath the large bale with the tines of the stacking fork on the bale stacker until the bale rests against the rear wall of the bale stacker. Next, lift the bale stacker to its uppermost position using the 3rd control circuit, then raise the front loader arm to the required level. If the bales are to be transported only lift the large bales slightly, only set the necessary lifting height for the stacking process.

**Transporting square bales on public roads is not permissible.**

**No persons are allowed under the lifted frontloader!**



## Description the roll-type bale fork

The roll-type bale fork from STOLL is composed of a frame with connectors for the quick-change frame and two roll-type forks operated by a double acting hydraulic cylinder.

For controlling the double acting hydrocylinder of the movable roll-type bale fork part the 3rd control circuit or a double acting additional control unit must be installed.

In combination with the hydraulic tool control system the bales can easily be lifted, transported and deposited onto the ground.

## Operating the roll-type bale fork

### 1. Attachment to the frontloader beam

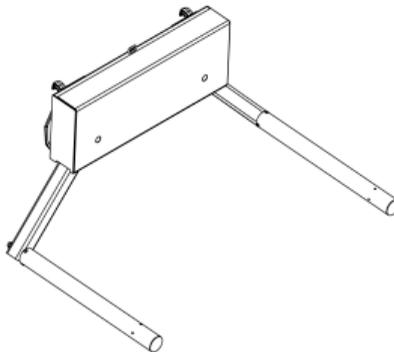
Drive the quick-change frame under the hooks of the roll-type bale fork and lock by tilting the quick-change frame.

### 2. Hydraulic connection

Connect the hydraulic hoses to the connections of the 3rd control circuit.

### 3. Operation

- With the roll-type bale fork in horizontal position, unfold both roll-type forks.
- Lower the roll-type bale fork until it is close to the ground. Adjust the roll-type forks so that they are roughly parallel to the ground and drive the unit against the bale until the latter rests against the frame of the roll-type bale fork.
- Operate the double acting hydraulic cylinder to press both roll-type forks against the bale.
- With the frontloader slightly raise the roll-type bale fork with the bale inside and move on carefully. Drive with caution!
- To deposit the bale lower the frontloader arm until the bale rests on the ground or on the clamp. Open the forks using the double acting hydraulic cylinder and drive back slowly.



## **Service and maintenance**

The instructions and guidelines published by the tractor manufacturers apply to the service and maintenance of the hydraulic system.

Grease bearings and swivel parts of the tools for bale handling all 10 operating hours.

For frontloader operation it is recommendable to use a ballast weight at the rear hydraulic linkage at tractors with 4-wheel drive.

Tighten all screwed joints periodical! The fork tines must always be firmly seated in their mounting.

**Use only original STOLL-spare parts!**

**DE EG-Konformitätserklärung**  
entsprechend der EG-Richtlinie 98/37/EEC, 04/108/EEC, 97/23/EEC

**EN EC-Declaration of Conformity**  
according to Directive 98/37/EEC, 04/108/EEC, 97/23/EEC

**IT Dichiarazione CE di Conformità**  
ai sensi della direttiva 98/37/EEC, 04/108/EEC, 97/23/EEC

**NL EG-Verklaring van conformiteit**  
overeenstemming met Richtlijn 98/37/EEC, 04/108/EEC, 97/23/EEC

**FR Déclaration de conformité pour la CEE**  
conforme à la directive de la 98/37/EEC, 04/108/EEC, 97/23/EEC

**ES CEE Declaración de Conformidad**  
según la normativa de la 98/37/EEC, 04/108/EEC, 97/23/EEC

**PT Declaração de conformidade**  
conforme a norma da C.E.E. 98/37/EEC, 04/108/EEC, 97/23/EEC

**DK EF-overensstemmelseserklæring**  
i henhold til EF-direktiv 98/37/EEC, 04/108/EEC, 97/23/EEC

**PL Deklaracja Zgodności CE**  
według Dyrektywy Maszynowej 98/37/EEC, 04/108/EEC, 97/23/EEC

**FI EY : N Vaatimustenmukaisuusilmoitus**  
llyttäen EY direktiivin 98/37/EEC, 04/108/EEC, 97/23/EEC

DE Wir,  
EN We,  
IT Noi,  
NL Wij,  
FR Nous,  
ES Vi,  
PT Me,  
DK Vi,  
PL Nosotros,  
FI Nós,

**Wilhelm Stoll Maschinenfabrik GmbH**  
Bahnhofstr. 21  
38268 Lengede  
Germany

**DE erklären in alleiniger Verantwortung, daß das Produkt:**  
EN declare under our sole responsibility, that the product:  
IT Dichiaro sotto la propria responsabilità che il prodotto:  
NL verklaren als enig verantwoordelijken, dat het product:  
FR déclarons sous notre seule responsabilité que le produit:

**ES declaramos bajo responsabilidad propia que el producto:**  
PT declaramos com responsabilidade própria que o produto:  
DK erklærer på eget ansvar, at produktet:  
PL deklaramy z pełną odpowiedzialnością, iż produkt:  
FI ilmoitamme yksin vastavastamme, että tuote:

DE Typ :  
EN model :  
IT modello :  
NL type :  
FR modèle :  
ES modelo :  
PT marca :  
DK typ :  
PL Model :  
FI merkki :

|      |                                      |
|------|--------------------------------------|
| STFH | Pottergabel H mit hydr. Obergreifler |
| BALI | Ballenhubstapler                     |
| BACL | Folienballenzange                    |
| MBTO | Maxi-Ballenstralle                   |
| RBHA | Rollen-Ballengabel                   |
| SBWG | Greifschaufel                        |
| BWGR | Schaufelzange                        |
| FWGR | Gabelzange                           |
| SCGR | Sillageschneidzange                  |
| SIGR | Sillagezange                         |

|      |                |
|------|----------------|
| TIGR | Rückezange     |
| BABU | Löffelschaufel |
| BRGR | Greifgabel     |
| UGPF | Obergreifler   |

DE Nummer:  
EN number :  
IT numero :  
NL nummer :  
FR numéro :  
ES número :  
PT número :  
DK nummer :  
PL o numerze :  
FI numero :

|      |                                    |
|------|------------------------------------|
| STFH | 3390260                            |
| BALI | 1339660                            |
| BACL | 3395020;02364610                   |
| MBTO | 2449950                            |
| RBHA | 3327710                            |
| SBWG | 3307220; 2480440; 2479490; 3324050 |
| BWGR | 3322000; 3321930; 3322150; 3322310 |
| FWGR | 3327950; 3327960; 3327970; 3327980 |
| SCGR | 3334760; 2449520; 3306680          |
| SIGR | 1388850; 1314060                   |

|      |                  |
|------|------------------|
| TIGR | 3556810          |
| BABU | 3557480          |
| BRGR | 3508220          |
| UGPF | 3520780; 3548990 |

**DE auf das sich diese Erklärung bezieht, den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Richtlinie entspricht:**

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

EN to which this declaration relates corresponds to the relevant basic safety and health requirements of the Directive:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

IT E' Conforme ai Requisiti Essenziali di Sicurezza a di tutela della Salute di cui alla Direttiva e sue successive modificazioni:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

NL waarop deze verklaring betrekking heeft voldoet aan de van toepassing zijnde fundamentele eisen inzake veiligheid en gezondheid van de EG-machinerichtlijn no:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

FR faisant l'objet de la déclaration est conforme aux prescriptions fondamentales en matière de sécurité et de santé stipulées dans la Directive de la:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

Lengede, 06.02.2013 | V. Karsten Kraft  
Innovations- und Entwicklungsleiter  
(General Manager Innovation and Development)

**ES al cual se refiere la presente declaración corresponde a las exigencias básicas de la normativa de la y referentes a la seguridad y a la sanidad:**

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

PT a que se refere esta declaração corresponde às exigências fundamentais respectivas à segurança e à saúde de norma da C.E.E.:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

DK som er omfattet af denne erklæring, overholder de relevante grundlæggende sikkerheds- og sundhedskrav i EF-direktivt sam:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

PL dia którego się ta deklaracja odnosi, odpowiada właściwym podstawowym wymogom bezpieczeństwa i ochrony zdrowia Dyrektywy Maszynowej:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

FI johon tämä ilmoitus liittyy, vastaa EY direktiivissä mainittuja perustavallisia- ja terveysvaatimuksia (soveltuvin osin) sekä muita siihen kuuluvia EY direktiivejä:

EN 12525:2000+EN 12525/A1:2006, EN 12100-1:2003, EN 12100-2:2003, EN 982:1996, ISO 23206:2005

Lengede, 06.02.2013 | V. Klaus Schlag  
Produktionsteilung (Production Management)



## **Company details**

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Website: [www.stoll-germany.com](http://www.stoll-germany.com)

**Address of the dealer**

# ***STOLL***

**Serial numbers 701 5000 to 709 9999**