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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK ALTO P 160.1. You'll find the answers to all your questions on the NILFISK ALTO P 160.1 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NILFISK ALTO P 160.1
User guide NILFISK ALTO P 160.1
Operating instructions NILFISK ALTO P 160.1
Instructions for use NILFISK ALTO P 160.1
Instruction manual NILFISK ALTO P 160.1

24-02-2006

Nilfisk ALTO P 130.1/150.1/160.1
Nilfisk ALTO P 130.1/150.1/160.1 X-TRA

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Nilfisk ALTO
Why Compromise

Wap KEW TECHNOLOGIES

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Manual abstract:

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. Instrukcja obslugi ....
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... Návod k obsluze .....

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..... 3 9 16 23 30 37 44 51 58 65 72 78 -8 - 15 - 22 - 29 - 36 - 43 - 50 - 57 - 64 - 71 - 77 - 83 6 6b 6a 7 8 9 5 15 16 10 2 12 11 13 1 14 3 4 We congratulate you on your new Nilfisk-ALTO High Pressure Washer We are confident that the new high pressure washer of Nilfisk-ALTO will justify your expectations of quick and effective cleaning. Now you have a cleaning device which will facilitate your future cleaning tasks and make them more effective.

Many tasks which were previously difficult, can now be solved in a few minutes and with a much better result. If, contrary to expectations, problems should arise which cannot be remedied by means of the information in section 8.0, the Nilfisk-ALTO service organization will be at your disposal. Nilfisk-ALTO is a global concern with a comprehensive knowledge within development and manufacturing of efficient and environmentally friendly cleaning solutions. Our product range comprises cleaning solutions for selected customer groups - from machines for domestic use to big industrial cleaning systems. The expertise of Nilfisk-ALTO is cleaning focusing the need of the customer. Our wish is that you as a customers should feel quite confident that the cleaning equipment you buy from us is the most efficient and that it fulfils all of your expectations. Best regards Nilfisk-ALTO Division of Nilfisk-Advance A/S Fields of application EN Model survey (P 12 476) The applications for this product are domestic cleaning jobs: Car, motorbike, boat, caravan, trailer, patio/drive/ flagstones, woodwork, brickwork, barbecue, garden furniture etc. Contents 1.0 2.
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84 1. Electric cable 2. Start-/stop switch 3. Connection for high pressure hose (only PRO 130/150/160) 4. Connection for water (with filter) 5. High pressure hose 6. Spray gun with trigger (6a) and locking device (6b) 7. Spray lance with bayonet socket 8. TORNADO® PR nozzle 9. POWERSPEED® nozzle 10. Needle for cleaning of nozzle 11. Detachable container for detergents 12. Dosing regulator for detergents 13. Pressure gauge (not available on model B) 14.

Regulation of pressure / water volume (not available on model B) 15.
Hose reel (only PRO 130/150/160 X-TRA) 16. Hose storage (only PRO 130/150/160) Specifications: See model tag of machine. Sound pressure level LpA measured in accordance with ISO 3744, EEC Directive 2000/14/EEC: 80 dB(A). Hand/arm vibrations measured according to ISO 5349 is 2 m/s2. We reserve the right to alter the specifications.
3 1.0 Preparation Before starting up your high pressure washer, we advise you to carefully read through this instruction manual. Follow all instructions to minimize the risk of injuries when using the machine. EN Extension cable Extension cables should be of a watertight construction and comply with the below-mentioned requirements for length and cable dimensions. 1,5 mm² 2,5 mm² max max 20 30 m m Prior to operation Before you start up your new machine for the first time, you must mount the holder for the spray lance. It is fixed at the top of the transport handle. · Cable connections should be kept dry and off the ground. · Always uncoil the extension cable completely to avoid heat damage to the cable. Water connection 1 2 Connect the high pressure washer by means of a water hose to the water tap (pressure of inlet water, max. 10 bar - temperature of inlet water, max.

60°C). You may use an ordinary ½" garden hose of min. 5 m and max. 25 m. Attach the hose using a quick connector. NOTE: Connection to the public mains according to regulations. IMPORTANT! Only use water without any impurities. If there is a risk of running sand in the inlet water (i.e. from your own well), a filter should be mounted.
1. Insert the holder in the recess of the handle (see illu.). 2. Fix the holder with the screw.
Mount water filter and water inlet connection (4). PRO 130/150/160 X-TRA: Mount the handle for the hose reel. Before starting up your machine please check it carefully for any defects. If you find any, do not start up your machine and contact your Nilfisk-ALTO distributor. Especially check: · The insulation of the electric cable should be faultless and without any cracks.
If the electric cable is damaged, it should be replaced by an authorized Nilfisk-ALTO distributor. Safety precautions · WARNING! High pressure jets can be dangerous. Never direct the water jet at persons, pets, live electrical equipment or the machine itself. · The operator and anyone in the immediate vicinity of the site of cleaning should take action to protect themselves from being struck by debris dislodged during operation. Wear goggles during operation. · Never try to clean clothes or footwear on yourself or other persons. · Do not let children or people who have not read the instruction manual operate the machine. · Never use the machine in an environment where there could be a danger of explosion. If any doubt arises, please contact the local authorities. · It is not allowed to clean asbestos-containing surfaces with high pressure.

Mains power connection The following should be observed when connecting the high pressure washer to the electric installation: · Only connect the machine to an installation with earth connection. · The electric installation shall be made by a certified electrician. · It is strongly recommended that the electric supply to this machine should include a residual current device (GFCI). Safety devices Locking device on spray gun The spray gun features a locking device (6b). When the pawl is activated, the spray gun cannot be operated. 4 2.0 Operating Instructions 2.1 Operating facilities · Start-/stop rotary switch (2). · Spray gun (6) with trigger (6a) and locking device (6b). · Dosing regulator for detergents (12).
· Regulation of pressure / water volume (14) (not available on model B). EN Operation with detergents Application of detergents is NOT possible if an extension hose is applied. 1. Fill the container with a detergent. 2.
Mount the TORNADO® PR nozzle and adjust it to low pressure (see section 2.4.4). 3. Adjust the dosing regulator (12) to the required volume of detergent (0-5%).
4. Apply the detergent from below and upwards. 5. Let the detergent act for the time stated on the packing of the detergent and flush with pure water. Separate detergent container 1. Remove the cover with suction hose from the detergent container. 2. Mount the cover with suction hose on the separate detergent container. 2.2 Connection 1.

PRO 130/150/160: Attach the high pressure hose (5) to the connection for high pressure hose (3).

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Only use one extension hose of max. 7 m. PRO 130/150/160 X-TRA: Unwind the high pressure hose completely. 2. Attach the nipple of the high pressure hose to the spray gun quick coupling. 3. Mount the nozzle or any other equipment you want to use. 4. Connect the machine to the water and power supplies.
2.3 Start 1. Check that the machine is in vertical position. 2. Activate the trigger of the spray gun (6a) and let the water run out until any air has escaped from the inlet hose.
3. Turn the start/stop switch (2) to pos. I. 2.4 Operation 1.
Always hold the spray lance firmly with both hands! The spray lance is affected by a longitudinal thrust of up to 26.5 Nm when the high pressure washer is operated. 2. Point the nozzle at the ground! 3. Activate the trigger of the spray gun (6a). 4. Always adjust the distance and thus the pressure of the nozzle to the surface which is to be cleaned. NOTE: The pressure can be regulated on the TORNADO® PR nozzle or the button for regulation of pressure / water volume (14). High pressure The cover has a standard thread and fits common detergent containers. If your container does not have a standard thread, detach the filter from the suction hose and remove the cover.

Remount the filter in the suction hose. Extra detergent hose can be pulled out of the machine. 2.5 Regulation of pressure / water volume This function is not available on model B. Working pressure and water volume can be regulated on the machine by turning the button for regulation of pressure / water volume (14). The pressure can be read on the pressure gauge (13). 2.6 Suction mode The machine can take in water from a rain water butt as an example. In the suction mode, the inlet hose must be filled with water before starting up the machine. The water inlet hose must not be too long, approx.
5 m. 1. Make sure that the water butt is not placed on a lower level than the machine. 2. Attach the water inlet hose to the machine and place the other end of it in the water butt.
Low pressure NOTE: Do not cover the machine during operation. If the machine is left or not used for 5 minutes, it must be switched off on the start/stop switch (2) pos. O. 5 Operating Instructions EN Tube cleaner Accessories EN 3. Start the machine.
4. Detach the spray lance and activate the trigger of the spray lance. Keep the trigger activated until water has come out for approx. 15 seconds. 5. Remount the spray lance and the machine is ready for operation. NOTE: The internal filter of the machine is not intended for the filtration of large quantities of impurities. If the water contains leaves, sand or the like, an external suction filter should be mounted. For further information, please contact your nearest Nilfisk-ALTO distributor. 15 m long tube cleaner for the cleaning of tubes and drains.

Water-sandFor removal of paint and rust. blasting equipment Sand available from do-ityourself shops. Patio Cleaner Equipment for quick and regular cleaning of horizontal (tiles etc.) and vertical surfaces. Rotating brush for cleaning of wooden surfaces. Rotating brush for cleaning of wheel rims. Special spray lance for underchassis cleaning. Garden brush 2.7 End of operation 1. Stop the machine by turning the start/stop switch (2) to pos.
O. 2. Disconnect the plug from the socket. 3. Shut off the water supply and activate the trigger (6a) to relieve the machine of pressure.
Concerning storage, please refer to section 5.0. Rim brush Underchassis spray lance Wall hook For suspension of your high pressure washer on the wall. 3.0 Accessories Standard Equipment EN Detergents Only use original accessories.
Stone & Wood Cleaner For flagstones, brick- and woodwork. Suitable for moss and algae. For plastic and synthetic materials such as garden furniture. For cleaning of metal such as garden tools. Only use original accessories. Nozzles Attached with the bayonet coupling system. Stored on the machine. Universal adjustable nozzle. Tornado® PR (8) Turn to the left: high pressure. Turn to the right: low pressure.

Powerspeed® (9) Nozzle with rotating jet for stubborn dirt on hard surfaces. Plastic Cleaner Metal Cleaner Car Combi Cleaner For cars etc. With rinsing wax. Extra Equipment Alu Cleaner Extension hose 7 m extension hose increasing the working range. For cars and other surfaces. Available in more shapes. Oil & Grease Cleaner For surfaces of aluminium. Applied with an atomizer. For cleaning of grease and oil on motors for instance. Applied with an atomizer. For cleaning of wooden surfaces incl. of wooden garden furniture. Brushes Wood Cleaner the extension cable. Replace fuse. Switch off other machines. Check that the mains voltage corresponds to specification on the model tag. Wait - the machine will start after a few minutes. WARNING! The trigger of the spray gun must not be activated. Change to an installation higher than the amp. consumption of the machine.
You may try without the extension cable. Machine stops Fuse blows Fuse too small Machine pulsating Air in inlet hose/pump Allow machine to run with open trigger until regular working pressure resumes. Inadequate supply of Check that the water supply corresponds to mains water specifications required (see model tag) NB! Avoid using long, thin hoses (min 1/2") Nozzle partially blocked Clean the nozzle (see section 4.1) Water filter blocked Clean the filter (see section 4.2) Hose kinked Straighten out hose. High pressure hoses too long Disconnect high pressure extension hoses and retry. (Extension hose max. 7 m). Pump/spray gun is leaking Contact your nearest Nilfisk-ALTO Service Centre. Wait for pump/hoses or accessory to thaw.

Connect inlet water. Clean the filter (see section 4.2) Clean the nozzle (see section 4.1) Adjust the button to correct working pressure. Machine often starts and stops by itself Machine starts, but no water comes out Pump/hoses or accessory frozen No water supply Water filter blocked Nozzle blocked Button for regulation of pressure / water volume not correctly adjusted Pump pressure drops In case problems other than the above occur, please contact your local Nilfisk-ALTO distributor. 8 9.0 Warranty conditions EN 9.0 Condiciones de la garantía ES Nilfisk-ALTO guarantees high pressure washers for domestic use for 2 years. If your high pressure washer or accessories are handed in for repair, a copy of the receipt must be enclosed. Guarantee repairs are being made on the following conditions: that defects are attributable to flaws or defects in materials or workmanship.
(wear and tear as well as misuse are not covered by the guarantee). that the directions of this instruction manual have been thoroughly observed. that repair has not been carried out or attempted by other than Nilfisk-ALTO-trained service staff. that only original accessories have been applied. that the product has not been exposed to abuse such as knocks, bumps or frost.
that only water without any impurities has been used. that the high pressure washer has not been used for rental nor used commercially in any other way.

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Repairs under this guarantee include replacement of defective parts, exclusive of packing and postage/carriage. Besides, we refer to your national law of sale. The machine should be forwarded to one of the service centres of the Nilfisk-ALTO organisation with description/ specification of the fault. Repairs not covered by the guarantee conditions will be invoiced. (I.e. malfunctions due to Possible Causes mentioned in section Troubleshooting Chart of the instruction manual). Nilfisk-ALTO garantiza el equipo de limpieza de alta presión para uso doméstico por 2 años. La garantía se aplica desde la fecha de compra. Debe adjuntar una copia del recibo al entregar para la reparación su máquina de alta presión o sus accesorios. Las reparaciones cubiertas por la garantía deben cumplir las siguientes condiciones: que los defectos sean atribuibles a fallos o defectos en los materiales o la manufactura. (El desgaste por utilización así como el mal uso no están cubiertos por la garantía). que las instrucciones de este manual se hayan observado completamente.

que la reparación no haya sido realizada o intentada por persona ajena al personal instruido por NilfiskALTO. que se hayan utilizado únicamente accesorios originales. @@que se haya utilizado únicamente agua sin impurezas. @@@@Además, consulte su Ley Nacional de Ventas. @@@@@@@@A garantia e valida a partir da data de aquisicao. @@@@@@somente deverao ser utilizadas pecas originais. @@Somente tenha sido utilizada agua limpa, sem impuridades. @@@@Em qualquer caso, serao validas as leis nacionais de compra. @@@@ , . : .

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. @@Gwarancja wchodzi w ycie z dniem zakupu. @@@@Poza tym odsylamy do krajowego ustawodawstwa dotyczczego sprzeday. @@Naprawy nie objte przepisami gwarancji s platne. @@@@@@(na opotebení nebo nesprávné pouzití se záruka nevztahuje). byly pecliv dodrzovány smrnice uvedené v této provozní pírucce. opravy neprovádl ani se o n nepokusil nikdo jiný, nez servisní personál vyskolený spolecností NilfiskALTO. byly pouzity pouze originální doplky. výrobek nebyl vystaven spatnému zacházení, jako jsou nárazy, rány, ci mráz. byla pouzita pouze voda bez necistot.

vysokotlaká mycka nebyla pouzívána k pronájmu ci jakýmkoli jiným komercním úcelm. Opravy v rámci této záruky zahrnují výmnu vadných díl; v tom nejsou zahrnuty náklady na balení a pepravu. Krom toho odkazujeme na vase národní zákony o prodeji. Stroj je teba zaslat jednomu ze servisních stedisek firmy Nilfisk-ALTO spolu s popisem/údaji o závad. Opravy, na které se nevztahuje záruka, budou fakturovány. (tj. poruchy z dvodu pícin uvedených v kapitole Tabulka esení problém v této provozní pírucce). 9.0 Garancia HU 9.0 Garanti artlari TR Nilfisk-ALTO két év garancíát biztosít azokra a magasssnyomású tisztitókra, amelyek magánhasználatra vannak szánva.

A garancia a megvevési dátumtól lép érvénybe. Ha a gép vagy a tartozékok egy része garanciában levö javításra van beadva, a számla másolatát is be kell adni. Garanciaszolgáltatás a következöket feltételezi: hogy anyag-vagy gyárihibáról van szó. (Kopás vagy rendellenes használat nem számit be). hogy a használati utasútások pontosan be vóltak tartva.

hogy a javítást kizárolag Nilfisk-ALTO-autorizált ser viceszemélyzet végezte, és nem mások. hogy nem használtak nemeredeti tartozékot. hogy a magassnyomású tisztitó nem vólt kitéve káros hatásnak, mint: ütközés, ütés, esés vagy fagy. hogy csak tiszta vizzel vólt használva hogy a gép nem vólt kiölcsönözve vagy más módon üzleti célra felhasználva. Egy garanciajavítás magába foglalja a defektes részek kicserélését, de nem fedezi a küldést és a csomagolást.

A gép beadandó egy Nilfisk-ALTO-szervezet mühelybe, a hibaleírással együtt. Az olyan javítások, amelyeket a garanciahatározatok nem fedeznek, fakturálva lesznek. (Mint pl. üzemzavarok olyan okok miatt amelyek a Hibamegtalálás és hibajavítás fejezetbe vannak említve). Nilfisk-ALTO ev kullanimi için üretilen yüksek basinçli yikama makinelerine 2 yil garanti vermektedir. Yüksek basinçli yikama makinesi ya da makinenin aksesuarlari onarim için teslim edildiinde satin alma makbuzunun bir kopyasi yaninda verilmelidir. Garanti kapsamindaki onarim ileri aaidaki artlarda gerçekletirilir: arizalarin malzeme ya da içilikteki kusurlardan kaynaklanmasi. (ainma ve kirilma, bunun yani sira hatali kullanim durumlari garanti kapsami diindadir). bu kullanma kilavuzundaki yönergelere titizlikle uyulmu olmasi. Nilfisk-ALTO tarafindan eitim verilmi servis personeli diinda hiç kimse tarafindan onarim yapilmami ya da onarima teebbüs edilmemi olmasi yalnizca orijinal aksesuarlarin kullanilmi olmasi.

ürünün çarpmalara, darbelere veya donmaya maruz birakilmami olmasi. makinenin kesinlikle içinde yabanci maddeler bulunmayan suyla kullanilmi olmasi. yüksek basinçli yikama makinesinin bakalarina kiralanarak ya da baka herhangi bir ekilde ticari amaçla kullanilmami olmasi. Bu garanti kapsaminda gerçekletirilecek onarim ilerine hatali parçalarin deitirilmesi dahildir, ancak ambalajlama ve posta/taima ücretleri dahil deildir. Ayrica ürünü satin aldiiniz kendi ülkenizdeki sati yasalari geçerlidir. Makine, arizanin tanimi/tarifiyle birlikte, Nilfisk-ALTO servis ainda yer alan bir servis merkezine iletilmelidir. Garanti kapsami diinda kalan onarimlarin ücreti müteriden talep edilir. (yani bu kullanim kilavuzunun Ariza Giderme bölümünde belirtilen Nedenler dolayisiyla meydana gelen arizalar). 85 9.0 RU 9.

0 Garancijski pogoji SL Nilfisk-ALTO .

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, . Nilfisk-ALTO / . , , . (,). Wap ALTO daje 2 letno garancijo za visokotlacne cistilnike za domaco uporabo.

Ce vas visokotlacni cistilnik ali dodatke izrocite v popravilo, morate priloziti kopijo racuna. Popravila v garanciji se izvedejo na podlagi naslednjih pogojev: da lahko okvare pripisemo napakam ali okvaram v materialih ali izdelavi. (garancija ne pokriva obrabe in raztrganja kot tudi ne napacne uporabe). da so se navodila o uporabi v celoti upostevala. da popravil ni izvedel ali poskusal izvesti nihce drug kot usposobljeno servisno osebje Wap ALTO da so bili uporabljeni samo originalni dodatki. da produkt ni bil izpostavljen zlorabi kot so udarci, sunki ali zmrzal. da je bila uporabljena samo voda brez necistoc. da visokotlacen cistilnik ni bil oddan v najem ali uporabljen komercialno za katerikoli drug namen. Popravila pod to garancijo vkljucujejo zamenjavo okvarjenih delov, razen pakiranja in transporta. Poleg tega upostevamo vas drzavni zakon o prodaji.

Stroj je treba izrociti eni izmed servisnih sluzb organizacije Wap ALTO z opisom/specifikacijo napake. Za popravila, ki jih garancija ne pokriva bo izdan racun. (npr. slabo delovanje zaradi Vzrokov omenjenih v poglavju Odpravljanje tezav prirocnika za navodili za uporabo). 9.0 Zárucné podmienky SK Wap ALTO zarucuje domáce pouzívanie vysokotlakových umývaciek po dobu 2 rokov. Ak odovzdáte vysokotlakovú umývacku alebo príslusenstvo do opravy, musíte prilozi kópiu potvrdenia o kúpe. Zárucné opravy sa vykonávajú z nasledujúcich dôvodov: ak je chyba dôsledkom nedostatku alebo chyby materiálu alebo vyhotovenia (opotrebovanie alebo neprávne pouzitie nespadajú pod záruku). ak boli dôsledne dodrzané pokyny v tejto prírucke. ak nebola vykonaná oprava alebo pokus o u osobou inou nez vyskoleným pracovníkom Wap ALTO.

ak bolo pouzité len originálne príslusenstvo. ak prístroj nebol vystavený zlému zaobchádzaniu, ako napríklad údery, nárazy alebo mrznutie. ak bola pouzívaná iba voda bez necistôt. ak vysokotlaková umývacka nebola prenajímaná alebo komercne pouzívaná nejakým iným spôsobom. Opravy poda tejto záruky zahajú náhradu chybných castí, ale nezahajú balenie a postovné.

Vsetko ostatné sa riadi miestnymi zákonnými predpismi týkajúcimi sa predaja tovaru. Prístroj treba posla do jedného zo servisných centier organizácie Wap ALTO s popisom/upresnením chyby. Opravy, ktoré nie sú kryté zárucnými podmienkami, budú faktúrované. (tj. poruchy v dôsledku Mozných prícin uvedených v oddiele Riesenia problémov tejto prírucky).

86 9.0 Uvjeti jamstva HR Wap ALTO daje jamstvo od 1 godine za visokotlacne perace za uporabu u kuanstvu. Ako dajete Vas visokotlacni perac ili dodatnu opremu na popravak, morate priloziti i kopiju racuna. Popravci u jamstvenom roku vrse se pod slijedeim uvjetima: da se kvar moze pripisati greskama ili nedostacima u materijalu ili izradi. (jamstvo ne pokriva istrosenost, osteenje ili nepravilnu uporabu) da je korisnik slijedio upute dane u ovom prirucniku. @@da je bila koristena samo originalna dodatna oprema. @@da je bila koristena samo voda bez necistoa. @@Osim toga, upuujemo Vas na drzavni zakon o prodaji. @@(tj. kvarovi izazvani moguim uzrocima navedenim u odlomku Otklanjanje poteskoa u prirucniku s uputama).

87 Art. no. 6411048 GB E P GR PL CS H TR RU SL SK HR GB E P GR PL CS H TR RU SL SK HR EN ES PT EL PL CS HU TR RU SL SK HR EN ES PT EL PL CS HU TR RU SL SK HR EN ES PT EL PL CS HU TR RU SL SK HR EN ES PT EL PL CS HU TR RU SL SK HR Extension hose Alargo de manguera Mangueira de extensao W przedluajcy Prodluňovací hadice Hosszabító Uzatma hortumu - Podaljsek cevi Predlzovacia hadica Produzna gibljiva cijev Patio cleaner Patio cleaner Patio cleaner Patio cleaner Patio cleaner Patio cleaner Patio cleaner Patio cleaner Patio cleaner Cistilec teras Patio cleaner Patio Cleaner Rotating brush Cepillo rotatorio Escova rotadora µ Szczotka rotacyjna Rozprasovac pny Forgó kefe Döner fýrça Krtace Kefy Cetka Tube cleaner Tubo limpiador Limpador de canos Wkladka do czyszczenia rur Cistic potrubí Csötisztító Boru temizlemesi Cev za ciscenje odtocnih cevi Cistic odtokov a rúr Cistac cijevi i odvoda Rim brush Cepillo de bordes Escova para jantes Szczotka do obrczy Kartác na ráfky Abroncskefe Jant firçasi Krtaca za platisca Kefa na disky Cetka za naplatke Garden brush Cepillo de jardín Escova para jardim Szczotka ogrodowa Zahradní kartác Kerti kefe Bahçe firçasi Vrtna krtaca Záhradná kefa Cetka za vrt Art. no. 6411150 Art. no. 6410762 Art. no. 6410766 Art. no.

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