

Gearmotors



POTENTIAL USES / TYPICAL APPLICATIONS



Horizontal materials handling technology
Roller conveyor, chain conveyor, belt conveyor



Vertical materials handling technology
Hoist



Materials handling technology with changes of direction
Turntable, trolley

THE ADVANTAGES AT A GLANCE



Flexible!

Can be adapted to your requirements and needs



Skalierbar!

- Speed and force
- Torque
- power as required, taking into account overload
- safety factors



Durable!

Thanks to high-quality wear components and intelligent/innovative designs



Available!

Worldwide – allowing you to take into account laws and regulations in your planning early on

OVERVIEW OF TECHNOLOGY



Gear units	Helical gear units (R...)	Parallel-shaft helical gear units (F...)	Helical-bevel gear units (K...)	Helical-worm gear units (S...)	SPIROPLAN® gear units (W...)	3 - motors
Flow of force	Axial		Angular			Number of poles
Type	RL 7 (single-stage) 6 sizes 57 – 107 RL 7 (two-/three-stage) 14 sizes 07 – 167	FL 7 (two-/three-stage) 11 sizes 27 – 157	KL 7 (three-stage) 12 sizes 37 – 187 KL 9: 80 – 500	SL 7 (two-stage) 7 sizes 37 – 97 NEW SL 7p (two-stage) 7 sizes 37p – 97p	WL 0 (single-stage) 3 sizes 10 – 30 WL 9 (two-/three-stage) 4 sizes 19 – 49	Type DRN... 30 sizes 63 – 315 NEW DR2S... 21 sizes 56 – 225
Maximum output torque Nm	RL 7: 69 – 830 RL 7: 50 – 20 000 –	FL 7: 120 – 20 000 –	KL 7: 200 – 53 000 –	SL 7: 92 – 4000 NEW SL 7p 105 – 4300	WL 0: 30 – 69 WL 9: 80 – 400 –	Power kW NEW DRN... 0.09 – 200 DR2S... 0.09 – 45
Reduced backlash	RL 7: yes	FL 7: yes	KL 7: yes	–	–	Frequency Hz
Gear unit ratio i	RL 7: 1.30 – 8.65 RL 7: 3.21 – 289.74	FL 7: 3.77 – 281.71 –	KL 9: 2.81 – 75.20 KL 7: 3.88 – 197.37 KL 9 RL 7: 75 – 7 137 KL 7 RL 7: 94 – 32 625	– SL 7/SL 7p: 3.97 – 288.00 – SL 7/SL 7p RL 7: 110 – 33 818	WL 0: 6.57 – 75.00 WL 9: 4.68 – 210.49 – WL 9 RL 7: 72 – 4815	IE class DRN... IE3 (Premium) DR2S... IE1 (Standard)
Double gear unit ratio i	– RL 7 RL 7: 90 – 27 001	– FL 7 RL 7: 87 – 31 434	–	–	–	–

Sew Eurodrive Gear Motor Manual

Christian G. Meyer



Sew Eurodrive Gear Motor Manual:

THOMAS REGIONAL INDUSTRIAL BUYING GUIDE NORTHERN CALIFORNIA 2004 , Public Works Manual
,1998 *Regional Industrial Buying Guide* ,2000 Cálculo de maquinaria industrial Alejandro Luna García,2025-09-22 De la teoría a la oficina técnica el manual esencial para el diseño de maquinaria mecánica aplicada Dar el salto de la teoría a la fabricación es complejo Existe una distancia considerable entre la teoría que domina un ingeniero mecánico al terminar sus estudios y las exigencias prácticas que enfrentar en su día a día dentro del entorno industrial Este libro nace precisamente para acortar esa distancia A través de un enfoque claro y progresivo el autor y especialista en el tema Alejandro Luna transforma ese gran salto en diez escalones accesibles que le guiarán por los fundamentos del diseño de maquinaria industrial aplicada Cada capítulo aborda un aspecto clave del trabajo técnico desde la interpretación de la realidad industrial y la elaboración de informes técnicos de cálculo hasta la selección precisa de componentes mecánicos como reductores ejes rodamientos cilindros y engranajes sin olvidar el diseño de estructuras para máquinas industriales y los casos reales de diseño de máquinas Gracias a esta lectura aprender a Interpretar la normativa específica aplicable al diseño de maquinaria industrial Diseñar calcular y seleccionar los componentes mecánicos esenciales en la mayoría de máquinas industriales Analizar estructuras de maquinaria para garantizar su resistencia frente a las solicitudes del equipo y durante el transporte Tomar decisiones fundamentadas en la selección de componentes adaptadas a las exigencias de la realidad industrial Si quiere ganar seguridad en sus decisiones técnicas aprender a comparar soluciones de distintos proveedores y diseñar sistemas mecánicos funcionales y seguros que respondan a las necesidades reales de los clientes industriales ha llegado al libro indicado

Machine Design ,1992 Artificial Intelligence and Industrial Applications Tawfik Masrour,Ibtissam El Hassani,Noureddine Barka,2023-09-14 Amid the dynamic growth of artificial intelligence this book presents a collection of findings and advancements from the second edition of the A2IA Artificial Intelligence and Industrial Applications conference The conference hosted by ENSAM Meknes at Moulay Ismail University Morocco fosters knowledge exchange in AI focusing primarily on its industrial applications Covering a wide range of topics the book highlights the adaptable nature of AI and its increasing impact on industrial sectors It brings together contributions from an international cohort of researchers discussing themes such as intelligent manufacturing and maintenance intelligent supply chain management various modes of learning including supervised unsupervised reinforcement semi supervised and graph based as well as neural networks deep learning planning and optimization A defining feature of this edition is its extensive scope and emphasis on the practical applications of AI along with its foundational elements It facilitates an understanding of AI's current state and potential future direction showcasing recent developments that bridge the gap between theory and practice Designed for a diverse readership this book is of interest to AI practitioners academics and enthusiasts as well as to those new to the field It provides an opportunity to explore AI's critical role in industrial applications and the practical insights it offers are likely to

be beneficial for decision making within industrial settings **Electrical Construction and Maintenance** ,1987
Thomas Register ,2004 **Processing** ,1993 Chilton's Food Engineering ,1986 **The Orchardist** ,1995
THOMAS REGISTER 2005 ,2005 New Zealand Forest Industries ,1993 Sun Tracker, Automatic Solar- Tracking, Sun- Tracking Systems, Solar Trackers and Automatic Sun Tracker Systems □□□□ Солнечная слежения Gerro Prinsloo, Robert Dobson, 2014-10-12 This book details Automatic Solar Tracking Sun Tracking Systems Solar Trackers and Sun Tracker Systems An intelligent automatic solar tracker is a device that orients a payload toward the sun Such programmable computer based solar tracking device includes principles of solar tracking solar tracking systems as well as microcontroller microprocessor and or PC based solar tracking control to orientate solar reflectors solar lenses photovoltaic panels or other optical configurations towards the sun Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin parabolic conic or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously In harnessing power from the sun through a solar tracker or practical solar tracking system renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture circuit boards and hardware On axis sun tracking system such as the altitude azimuth dual axis or multi axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun s passage through the sky is traced with high precision in automated solar tracker applications right through summer solstice solar equinox and winter solstice A high precision sun position calculator or sun position algorithm is this an important step in the design and construction of an automatic solar tracking system From sun tracing software perspective the sonnet Tracing The Sun has a literal meaning Within the context of sun track and trace this book explains that the sun s daily path across the sky is directed by relatively simple principles and if grasped understood then it is relatively easy to trace the sun with sun following software Sun position computer software for tracing the sun are available as open source code sources that is listed in this book Ironically there was even a system called sun chaser said to have been a solar positioner system known for chasing the sun throughout the day Using solar equations in an electronic circuit for automatic solar tracking is quite simple even if you are a novice but mathematical solar equations are over complicated by academic experts and professors in text books journal articles and internet websites In terms of solar hobbies scholars students and Hobbyist s looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources which leaves many developers in frustration when search for simple experimental solar tracking source code for their on axis sun tracking systems This booklet will simplify the search for the mystical sun tracking formulas for your sun tracker innovation and help you develop your own autonomous solar tracking controller By directing the solar collector directly into the sun a solar harvesting means or device can harness sunlight or thermal heat This is achieved with

the help of sun angle formulas solar angle formulas or solar tracking procedures for the calculation of sun s position in the sky Automatic sun tracking system software includes algorithms for solar altitude azimuth angle calculations required in following the sun across the sky In using the longitude latitude GPS coordinates of the solar tracker location these sun tracking software tools supports precision solar tracking by determining the solar altitude azimuth coordinates for the sun trajectory in altitude azimuth tracking at the tracker location using certain sun angle formulas in sun vector calculations Instead of follow the sun software a sun tracking sensor such as a sun sensor or webcam or video camera with vision based sun following image processing software can also be used to determine the position of the sun optically Such optical feedback devices are often used in solar panel tracking systems and dish tracking systems Dynamic sun tracing is also used in solar surveying DNI analyser and sun surveying systems that build solar infographics maps with solar radiance irradiance and DNI models for GIS geographical information system In this way geospatial methods on solar environment interaction makes use use of geospatial technologies GIS Remote Sensing and Cartography Climatic data and weather station or weather center data as well as queries from sky servers and solar resource database systems i e on DB2 Sybase Oracle SQL MySQL may also be associated with solar GIS maps In such solar resource modelling systems a pyranometer or solarimeter is normally used in addition to measure direct and indirect scattered dispersed reflective radiation for a particular geographical location Sunlight analysis is important in flash photography where photographic lighting are important for photographers GIS systems are used by architects who add sun shadow applets to study architectural shading or sun shadow analysis solar flux calculations optical modelling or to perform weather modelling Such systems often employ a computer operated telescope type mechanism with ray tracing program software as a solar navigator or sun tracer that determines the solar position and intensity The purpose of this booklet is to assist developers to track and trace suitable source code and solar tracking algorithms for their application whether a hobbyist scientist technician or engineer Many open source sun following and tracking algorithms and source code for solar tracking programs and modules are freely available to download on the internet today Certain proprietary solar tracker kits and solar tracking controllers include a software development kit SDK for its application programming interface API attributes Pebble Widget libraries widget toolkits GUI toolkit and UX libraries with graphical control elements are also available to construct the graphical user interface GUI for your solar tracking or solar power monitoring program The solar library used by solar position calculators solar simulation software and solar contour calculators include machine program code for the solar hardware controller which are software programmed into Micro controllers Programmable Logic Controllers PLC programmable gate arrays Arduino processor or PIC processor PC based solar tracking is also high in demand using C Visual Basic VB as well as MS Windows Linux and Apple Mac based operating systems for sun path tables on Matlab Excel Some books and internet webpages use other terms such as sun angle calculator sun position calculator or solar angle calculator As said such software code calculate the solar azimuth angle solar

altitude angle solar elevation angle or the solar Zenith angle Zenith solar angle is simply referenced from vertical plane the mirror of the elevation angle measured from the horizontal or ground plane level Similar software code is also used in solar calculator apps or the solar power calculator apps for IOS and Android smartphone devices Most of these smartphone solar mobile apps show the sun path and sun angles for any location and date over a 24 hour period Some smartphones include augmented reality features in which you can physically see and look at the solar path through your cell phone camera or mobile phone camera at your phone s specific GPS location In the computer programming and digital signal processing DSP environment free open source program code are available for VB Net Delphi Python C C C PHP Swift ADM F Flash Basic QBasic GBasic KBasic SIMPL language Squirrel Solaris Assembly language on operating systems such as MS Windows Apple Mac DOS or Linux OS Software algorithms predicting position of the sun in the sky are commonly available as graphical programming platforms such as Matlab Mathworks Simulink models Java applets TRNSYS simulations Scada system apps Labview module Beckhoff TwinCAT Visual Studio Siemens SPA mobile and iphone apps Android or iOS tablet apps and so forth At the same time PLC software code for a range of sun tracking automation technology can follow the profile of sun in sky for Siemens HP Panasonic ABB Allan Bradley OMRON SEW Festo Beckhoff Rockwell Schneider Endress Hauser Fudji electric Honeywell Fuchs Yokonawa or Muthibishi platforms Sun path projection software are also available for a range of modular IPC embedded PC motherboards Industrial PC PLC Programmable Logic Controller and PAC Programmable Automation Controller such as the Siemens S7 1200 or Siemens Logo Beckhoff IPC or CX series OMRON PLC Ercam PLC AC500plc ABB National Instruments NI PXI or NI cRIO PIC processor Intel 8051 8085 IBM Cell Power Brain or Truenorth series FPGA Xilinx Altera Nios Intel Xeon Atmel megaAVR MPU Maple Teensy MSP XMOS Xbee ARM Raspberry Pi Eagle Arduino or Arduino AtMega microcontroller with servo motor stepper motor direct current DC pulse width modulation PWM current driver or alternating current AC SPS or IPC variable frequency drives VFD motor drives also termed adjustable frequency drive variable speed drive AC drive micro drive or inverter drive for electrical mechatronic pneumatic or hydraulic solar tracking actuators The above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientation feedback control through one or a combination of angle sensor or angle encoder shaft encoder precision encoder optical encoder magnetic encoder direction encoder rotational encoder chip encoder tilt sensor inclination sensor or pitch sensor Note that the tracker s elevation or zenith axis angle may measured using an altitude angle declination angle inclination angle pitch angle or vertical angle zenith angle sensor or inclinometer Similarly the tracker s azimuth axis angle be measured with a azimuth angle horizontal angle or roll angle sensor Chip integrated accelerometer magnetometer gyroscope type angle sensors can also be used to calculate displacement Other options include the use of thermal imaging systems such as a Fluke thermal imager or robotic or vision based solar tracker systems that employ face tracking head tracking hand tracking eye tracking and car tracking principles in solar tracking

With unattended decentralised rural island isolated or autonomous off grid power installations remote control monitoring data acquisition digital datalogging and online measurement and verification equipment becomes crucial It assists the operator with supervisory control to monitor the efficiency of remote renewable energy resources and systems and provide valuable web based feedback in terms of CO₂ and clean development mechanism CDM reporting A power quality analyser for diagnostics through internet WiFi and cellular mobile links is most valuable in frontline troubleshooting and predictive maintenance where quick diagnostic analysis is required to detect and prevent power quality issues Solar tracker applications cover a wide spectrum of solar energy and concentrated solar devices including solar power generation solar desalination solar water purification solar steam generation solar electricity generation solar industrial process heat solar thermal heat storage solar food dryers solar water pumping hydrogen production from methane or producing hydrogen and oxygen from water HHO through electrolysis Many patented or non patented solar apparatus include tracking in solar apparatus for solar electric generator solar desalinator solar steam engine solar ice maker solar water purifier solar cooling solar refrigeration USB solar charger solar phone charging portable solar charging tracker solar coffee brewing solar cooking or solar drying means Your project may be the next breakthrough or patent but your invention is held back by frustration in search for the sun tracker you require for your solar powered appliance solar generator solar tracker robot solar freezer solar cooker solar drier solar pump solar freezer or solar dryer project Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project solar power kit solar hobby kit solar steam generator solar hot water system solar ice maker solar desalinator hobbyist solar panels hobby robot or if you are developing professional or hobby electronics for a solar utility or micro scale solar powerplant for your own solar farm or solar farming this publication may help accelerate the development of your solar tracking innovation Lately solar polygeneration solar trigeneration solar triple generation and solar quad generation adding delivery of steam liquid gaseous fuel or capture food grade CO₂ systems have need for automatic solar tracking These systems are known for significant efficiency increases in energy yield as a result of the integration and re use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured and transported in kit form and operate on a plug and play basis Typical hybrid solar power systems include compact or packaged solar micro combined heat and power CHP or mCHP or solar micro combined cooling heating and power CCHP CHPC mCCHP or mCHPC systems used in distributed power generation These systems are often combined in concentrated solar CSP and CPV smart microgrid configurations for off grid rural island or isolated microgrid minigrid and distributed power renewable energy systems Solar tracking algorithms are also used in modelling of trigeneration systems using Matlab Simulink Modelica or TRNSYS platform as well as in automation and control of renewable energy systems through intelligent parsing multi objective adaptive learning control and control optimization strategies Solar tracking algorithms also find application in developing solar models for country or location specific solar

studies for example in terms of measuring or analysis of the fluctuations of the solar radiation i.e direct and diffuse radiation in a particular area Solar DNI solar irradiance and atmospheric information and models can thus be integrated into a solar map solar atlas or geographical information systems GIS Such models allows for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in photovoltaic or CSP systems on simulation and synthesis platforms such as Matlab and Simulink or in linear or multi objective optimization algorithm platforms such as COMPOSE EnergyPLAN or DER CAM A dual axis solar tracker and single axis solar tracker may use a sun tracker program or sun tracker algorithm to position a solar dish solar panel array heliostat array PV panel solar antenna or infrared solar antenna A self tracking solar concentrator performs automatic solar tracking by computing the solar vector Solar position algorithms TwinCAT SPA or PSA Algorithms use an astronomical algorithm to calculate the position of the sun It uses astronomical software algorithms and equations for solar tracking in the calculation of sun's position in the sky for each location on the earth at any time of day Like an optical solar telescope the solar position algorithm pin points the solar reflector at the sun and locks onto the sun's position to track the sun across the sky as the sun progresses throughout the day Optical sensors such as photodiodes light dependant resistors LDR or photoresistors are used as optical accuracy feedback devices Lately we also included a section in the book with links to microprocessor code on how the PixArt Wii infrared camera in the Wii remote or Wiimote may be used in infrared solar tracking applications In order to harvest free energy from the sun some automatic solar positioning systems use an optical means to direct the solar tracking device These solar tracking strategies use optical tracking techniques such as a sun sensor means to direct sun rays onto a silicon or CMOS substrate to determine the X and Y coordinates of the sun's position In a solar mems sun sensor device incident sunlight enters the sun sensor through a small pin hole in a mask plate where light is exposed to a silicon substrate In a web camera or camera image processing sun tracking and sun following means object tracking software performs multi object tracking or moving object tracking methods In an solar object tracking technique image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame while sun localization is performed with an edge detection algorithm to determine the solar vector coordinates An automated positioning system help maximize the yields of solar power plants through solar tracking control to harness sun's energy In such renewable energy systems the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning PV panels in photovoltaic systems and concentrated photovoltaic CPV systems Automatic on axis solar tracking in a PV solar tracking system can be dual axis sun tracking or single axis sun solar tracking It is known that a motorized positioning system in a photovoltaic panel tracker increase energy yield and ensures increased power output even in a single axis solar tracking configuration Other applications such as robotic solar tracker or robotic solar tracking system uses robotics with artificial intelligence in the control optimization of energy yield in solar harvesting through a robotic tracking system

Automatic positioning systems in solar tracking designs are also used in other free energy generators such as concentrated solar thermal power CSP and dish Stirling systems The sun tracking device in a solar collector in a solar concentrator or solar collector Such a performs on axis solar tracking a dual axis solar tracker assists to harness energy from the sun through an optical solar collector which can be a parabolic mirror parabolic reflector Fresnel lens or mirror array matrix A parabolic dish or reflector is dynamically steered using a transmission system or solar tracking slew drive mean In steering the dish to face the sun the power dish actuator and actuation means in a parabolic dish system optically focusses the sun s energy on the focal point of a parabolic dish or solar concentrating means A Stirling engine solar heat pipe thermosyphin solar phase change material PCM receiver or a fibre optic sunlight receiver means is located at the focal point of the solar concentrator The dish Stirling engine configuration is referred to as a dish Stirling system or Stirling power generation system Hybrid solar power systems used in combination with biogas biofuel petrol ethanol diesel natural gas or PNG use a combination of power sources to harness and store solar energy in a storage medium Any multitude of energy sources can be combined through the use of controllers and the energy stored in batteries phase change material thermal heat storage and in cogeneration form converted to the required power using thermodynamic cycles organic Rankin Brayton cycle micro turbine Stirling with an inverter and charge controller Book and literature review is ideal for sun and moon tracking in solar applications for sun rich countries such as the USA Spain Portugal Mediterranean Italy Greece Mexico Portugal China India Brazil Chili Argentina South America etc PC Solar Tracking Tracking Systems Solar Tracker Systems Tracker **The South African Mechanical Engineer** ,1993 *SA Mining* ,2006 **Process Engineering** ,1999 CIM Bulletin Canadian Institute of Mining, Metallurgy and Petroleum,2002 Power Transmission Design ,1996 **Food Processing** ,1991

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Table of Contents Sew Eurodrive Gear Motor Manual

1. Understanding the eBook Sew Eurodrive Gear Motor Manual
 - The Rise of Digital Reading Sew Eurodrive Gear Motor Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Sew Eurodrive Gear Motor Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sew Eurodrive Gear Motor Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sew Eurodrive Gear Motor Manual
 - Personalized Recommendations
 - Sew Eurodrive Gear Motor Manual User Reviews and Ratings
 - Sew Eurodrive Gear Motor Manual and Bestseller Lists
5. Accessing Sew Eurodrive Gear Motor Manual Free and Paid eBooks
 - Sew Eurodrive Gear Motor Manual Public Domain eBooks
 - Sew Eurodrive Gear Motor Manual eBook Subscription Services
 - Sew Eurodrive Gear Motor Manual Budget-Friendly Options

6. Navigating Sew Eurodrive Gear Motor Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Sew Eurodrive Gear Motor Manual Compatibility with Devices
 - Sew Eurodrive Gear Motor Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sew Eurodrive Gear Motor Manual
 - Highlighting and Note-Taking Sew Eurodrive Gear Motor Manual
 - Interactive Elements Sew Eurodrive Gear Motor Manual
8. Staying Engaged with Sew Eurodrive Gear Motor Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sew Eurodrive Gear Motor Manual
9. Balancing eBooks and Physical Books Sew Eurodrive Gear Motor Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sew Eurodrive Gear Motor Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sew Eurodrive Gear Motor Manual
 - Setting Reading Goals Sew Eurodrive Gear Motor Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sew Eurodrive Gear Motor Manual
 - Fact-Checking eBook Content of Sew Eurodrive Gear Motor Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

Sew Eurodrive Gear Motor Manual Introduction

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Sew Eurodrive Gear Motor Manual :

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web you are handling large amounts of glassware that is many times slippery from the cleaning solutions be extra careful to avoid breaking anything and cutting yourself this is particularly important when the glassware isn t clean chemicals could get in the wounds glassware cleaning the routine procedure will be outlined first

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web 5 3 first wash the used glassware properly with raw water 5 4 then scrub the glassware with 0 1 detergent solution 1 ml teepol in 1000 ml purified water 5 5 rinse the glassware properly with raw water 5 6 again rinse 3 to 4 times with purified water 5 7 drain the water from glassware 5 8 keep in drier use dried glassware for analysis

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