PNEUMATIC AUTOMATION
CYLINDERS
HIGH-TECH
VALVES
AIR TREATMENT
ACCESSORIES

AUTOMOTIVE
POWER CLAMPS
PIN UNITS
PIN CLAMPS
GRIPPER UNITS
POWER PIVOTS
MARKING UNITS
ELECTRIC UNITS

MODULAR TOOLING SYSTEM
GR8 TOOLING

PRODUCT RANGE
In light of technical updates, Univer S.p.A. reserves the right to modify technical features of its products with no obligation to issue prior notice.

Information contained in the present catalogue is pure indication. For further details about product technical features and related parameter values to be respected for a proper functioning, please refer to the datasheets available at:

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STANDARDS-BASED CYLINDERS

Microcylinders ISO 6432
Ø 8÷25 mm

Pneumatic Cylinders ISO 15552
Ø 32÷125 mm
CLEAN PROFILE

Pneumatic Cylinders ISO 15552
Ø 32÷125 mm

STANDARDS-BASED COMPACT CYLINDERS

UNITOP Compact Cylinders (RP Ø 16÷63 mm),
ISO 21287 (RM Ø 16÷100 mm)

UNITOP Compact Cylinders (RO Ø 16÷63 mm),
ISO 21287 (RN Ø 16÷63 mm)
Octagonal tube NON-ROTATING

OVAL/SHORT STROKE/ROTARY CYLINDERS

Oval cylinder
Ø 18÷80 mm

Short stroke cylinders
Ø 12÷100 mm
TUBE NEW DESIGN

Pneumatic Rotary Actuators
Ø 32÷125 mm

Subject to change
PNEUMATIC AUTOMATION

Pneumatic Cylinders ISO 15552
Ø 32÷125 mm
HEAVY SERIES TUBE

Pneumatic Cylinders ISO 15552
Ø 160/200 - Ø 250/320 mm

STRONG Compact Cylinders
Ø 32÷100 mm

STRONG Compact Cylinders
Ø 32÷100 mm
Octagonal tube NON-ROTATING

UNIVER TECHNOLOGY
Strong and Reliable

ISO 15552
Interchangeability

KL

CLEAN PROFILE
Easier to clean

QUICK INSTALLATION
Sensors and connections on one side

ATEX
Certified products
Available on request

PK/PM
Stainless Steel
Pneumatic Cylinders

NEW

Double Rack Rotary Table

Stainless Steel
Pneumatic Cylinders

NEW
RODLESS CYLINDERS

Rodless Cylinders standard version
Ø 16÷50 mm

Rodless Cylinders with integrated guides
Ø 25÷50 mm - Technopolymer sliding guides

GUIDED CYLINDERS

Slide Units for pneumatic cylinders
M, KE/K, KD series

Slide Units for rodless cylinders
S1 series

Slide Units for STRONG compact cylinders
RS series

Slide Units for compact cylinders
RP Ø25 series

Guided Compact Cylinders
Bearings (JLS) - Ball bushing (JLV)

Version with metallic piston rod scraper
(Upon request)

ACCESSORIES

Clamping cylinder

Hydraulic Shock Absorbers

Magnetic and Electronic Proximity Sensors
Rodless Cylinders with 90° integrated guides
Ø 25÷50 mm - Sliding on ball bearings

Slide Units for telescopic cylinders
RT2 series

Guided Slides

S1/S5/VL1
UNIVER Original since 1988

A - Internal strip (seal)
B - External strip (protection)
made of reinforced elastomer with Kevlar fiber

ATEX Certified products Available on request

CYLINDER ASSEMBLY KITS
ISO 6432
ISO 15552
UNITOP/ISO 21287
STRONG
RODLESS CYLINDERS
LOCKING UNITS

Locking units for cylinders and piston rods

LOCKING UNITS

Locking Units for rodless cylinders S5 - VL1 series

ORIGINAl
Locking system
UNIVER Original since 1998

STATIC/DYNAMIC
Static locking and dynamic braking in a single device

POWERFUL
The highest locking force among market equivalent devices

SAFE
No rod slipping even if affected by oil and grease

PROGRAMMABLE PNEUMATIC ACTUATORS

Pneumatic actuator with integrated digital measuring detector and safety locking device

PROGRAMMABLE PNEUMATIC ACTUATORS

Pneumatic actuator with digital measuring system

PNEUMATIC GRIPPERS

Angular and Parallel Pneumatic Gripper

PNEUMATIC GRIPPERS

Angular Pneumatic Gripper 180°

Parallel Pneumatic Gripper with Linear Guide

Low Profile Parallel Pneumatic Gripper with Linear Guide
**TELESCOPIC CYLINDERS**

- Telescopic cylinders
  - 2 stages (RT2 Ø 25÷63 mm)
  - 3 stages (RT3 Ø 40÷63 mm)

- Wide-type Parallel Pneumatic Gripper
- Self-centering 3 Jaw Pneumatic Gripper
- Pneumatic actuator with integrated safety locking device

**RT**

- ORIGINAL
  - UNIVER Original design and technology
- INDUSTRIALIZED
  - Industrialized components and advanced technology
- REDUCED DIMENSIONS
  - 60% less than standard cylinders
- NON-ROTATING
  - Anti-rotation octagonal tube standard supplied

- ATEX Certified products
  - Available on request
ELECTROPILOTS

ISO 15218 - 10 mm Nanovalves
B11 Standard
B10 Low consumption
B12 High flow rate

10 mm Nanovalves

NEW 0,5 W
Low power consumption

ISO 15218 - 15 mm Microvalves

STANDARDS-BASED VALVES

ISO 5599/1 Valves - Mixed and spool system

Size
1-2-3-4

MIXED AND SPOOL SYSTEM
Versions with either mixed or spool system available for all series

MIXED
for heavy applications

SPOOL
for all applications

NAMUR Valves

ISO 15407-1/2 Valves

M12 Connector

Subject to change
PNEUMATIC AUTOMATION

ISO 5599/1 Light Series Valves

Size

1-2

ISO 15407-1/2 Valves

BDE
Integrated electrical connection (ISO 15407/2)

BDB
M12 connector (Automotive)

BDA
Single electrical connection (ISO 15407/1)

U1 Miniature Electropilots

U2 Miniature Electropilots

CSA/UL Certification
CSA C22.2 N.139-13
UL 429/2013

Sub-base with integrated electrical connection

Magnetic memory

LATCHING

18 mm (ISO 02)

26 mm (ISO 01)
SPOOL VALVES

UNIVERSAL Valves G1/8 - G1/4

COMPA 2 (E series) COMPA 4 (F series)
Miniature Valves

26 mm Valves and Solenoid Valves - G1/8

20 mm Valves and Solenoid Valves - Threaded body G1/8

POPPET VALVES

Poppet Valves for compressed air (AF) and for vacuum (AG) G1/8 – G1 1/2

Poppet valves G1/8 2/2 - 3/2

Miniature Limit Switches (AI)
JET series Pneumatic Switches (AI-JET)
Valves with panel operation (AI-JET2)
AF/AG

**WIDE RANGE**
G1/8 ÷ G1 1/2
2/2 - 3/2 NC-NO

**COMPRESSED AIR VERSION**
**VACUUM VERSION**
Available also with external pilot vacuum supply

**HIGH FLOW RATE**
Up to 35000 Nl/min (G1 1/2)

**COMBOBOX Valves**

**20 mm Valves and Solenoid Valves** - For sub-base mounting

**Pneumatic and Solenoid Foot Valves**

**MIXED Valves G1/8 - G1/4 - G1/2**
**COMPACT VALVES**

10 mm - COMPACT Valves - For sub-base mounting

15 mm - COMPACT Valves - For sub-base mounting

**NEW**
up to
36 coils

310 Nl/min

800 Nl/min

**SERIAL SYSTEMS**

Serial communication system

Serial module
for all manifold models

P10

P15

P22

BD18

BD26

Subject to change
COMPACT Valves

P10/P15/P22

HIGH FLOW RATE
UNIVER traditional spool technology

COMPACT SIZE
Highest reduction of overall dimensions

EASY INSTALLATION
All pneumatic connections on the same side

COMPLETE SOLUTION
Threaded body and body for sub-base mounting
5/2 - 5/3 - 3/2+3/2

1700 Nl/min

ATEX Certified products
Available on request
COMPACT VALVES

10 mm COMPACT Valves - M5
External connector

15 mm COMPACT Valves - G1/8
External connector

ESSENTIAL VALVES

18 mm ESSENTIAL Valves - G1/8
NEW

22 mm ESSENTIAL Valves - G1/4
NEW

NEW
15 mm COMPACT Valves - G1/8

15 mm COMPACT Valves
For sub-base mounting

ESSENTIAL Valves

EL18/22

HIGH FLOW RATE
800 Nl/min (G1/8) 1700 Nl/min (G1/4)

REDUCED DIMENSIONS
18 mm (G1/8) 22 mm (G1/4)

COMPLETE SOLUTION
5/2 - 5/3 - 3/2+3/2

STRONG
Metallic body

INTERCHANGEABLE
U6 COIL
12 - 24 V DC
24 - 110 - 220 V AC

METALLIC MANUAL OVERRIDE
(standard supplied)
Impulse and 1-2 positions

SUB-BASE MOUNTING
Easy installation by means
of 2 screws

INDIVIDUAL MOUNTING
Side holes on valve body

UNIVER TRADITIONAL
SPOOL TECHNOLOGY
The dynamic spool guarantees
a long life and reliability
# AIR TREATMENT UNITS

<table>
<thead>
<tr>
<th>Size 0</th>
<th>Size 0.5</th>
<th>Size 1</th>
<th>Size 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR+L</td>
<td>FR+L</td>
<td>FR+L</td>
<td>FR+L</td>
</tr>
</tbody>
</table>

- **600 Nl/min**
- **1500 Nl/min**
- **2800 Nl/min**
- **4300 Nl/min**

**Filter**
- size 0-05-1-2

**Regulator**
- size 0-05-1-2

**Lubricator**
- size 0-05-1-2

**Filter regulator**
- size 0-05-1-2

**Gradual starter**
- size 0-05-1-2

**Diverter block**
- size 0-05-1-2

**Lockable valve**
- size 0-05-1-2

**Shut-off valve**
- size 0-05-1-2

Subject to change.
PNEUMATIC AUTOMATION

HZE

MODULAR
40 mm (HZE0) 50 mm (HZE05)
63 mm (HZE1) 80 mm (HZE2)

INTEGRATED GAUGE
Standard supplied

COMPLETE SOLUTION
Possibility of assembling combinations complete with accessories

Filter regulator + Lubricator
size 0-05-1-2

Filter + Regulator + Lubricator
size 0-05-1-2

Size 0 U05
Size 1 U05
Size 1 U3 CNOMO

ATEX Certified products
Available on request
**AIR TREATMENT UNITS**

- Regulator without gauge
  Size 0

- Lockable regulator
  Size 1-2

- Check valve
  Size 0-1-2

- Check valve
  Size 0-1-2

- HZE Coalescing Filters
  Size 1 - 2
  **NEW**

- HZE Integrated Digital Pressure Switch

- IP65 Digital Pressure Switch with connector
  **NEW**

- Digital pressure switch

- Electro-pneumatic transducers

- Electropneumatic Proportional Regulators G1/8 - G1/4 - G1/2
  **NEW**
Integrated square pressure gauge
Precision regulators
Microregulator
NEW

Round gauge
Precision regulator G1/4
Mini Regulator G1/4
NEW

Filter Regulator with Digital Pressure Switch
FITTINGS AND TUBES

Technopolymer Push-In Fittings
Space-saving Fittings
Nickel-plated Brass Push-in Fittings

Push-on Fittings
Olive Compression Fittings
Quick Couplings for Compressed Air

COMPLEMENTARY VALVES AND ACCESSORIES

Binary Counter (Flip Flop)
Flow regulators with metallic body
Signal processing valve

Check valve
Blocking valve
Pneumoelectrical transducer
Adjustable pressure switch
<table>
<thead>
<tr>
<th>Fittings and Accessories with pneumatic functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEA Polyamide tubes</td>
</tr>
<tr>
<td>Standard fittings</td>
</tr>
<tr>
<td>HFA Polyamide Spiral Tubes</td>
</tr>
<tr>
<td>Gradual starter</td>
</tr>
<tr>
<td>Economizer</td>
</tr>
<tr>
<td>Adjustable diaphragm pressure switch</td>
</tr>
<tr>
<td>G1/8 ÷ G1 Fluid Valves</td>
</tr>
</tbody>
</table>

**Air/Oil reservoir AM4 series**

NEW
POWER CLAMPS

- UNIVERSAL Mini clamps
- UNIVERSAL Pneumatic power clamps
- UNIVERSAL Pneumatic power clamps interchangeable with size 50/63 mm

Ø25/32 NEW

GRIPPER UNITS

- Pneumatic gripper units
- Pneumatic gripper units with hand lever
- Pneumatic grippers UNIVER Original

Subject to change
AUTOMOTIVE

ATEX ex
Certified products
Available on request

UNIVERSAL Pneumatic power clamps
with 2 arms

UNIVERSAL Pneumatic power clamps
conforming to the N.A.A.M.S.
Standard

Manual power clamps

UNIVERSAL Pneumatic power clamps
with hand lever conforming to the
N.A.A.M.S. Standard

HIGH AIR SAVING IN EACH SIZE
STANDARD AND NAAMS VERSIONS

DF-RW700
Magnetic Field Immune Sensor

UA
ALL SIZES AVAILABLE
32 - 40 - 50 - 63 - 80 mm
TOGGLE JOINT MECHANISM AND
SPRING PACK SYSTEM
Same internal system as standard UNIVER clamps
HIGH AIR SAVING IN EACH SIZE
STANDARD AND NAAMS VERSIONS
RETRACTABLE LOCATING PIN UNITS

- Pneumatic retractable locating pin units with single rod
- Pneumatic retractable locating pin units with single rod, conforming to the CNOMO Standard
- Compact pneumatic retractable pin units with double guide
- Pneumatic retractable locating pin units with single rod and toggle-joint mechanism

- Pneumatic retractable locating pin units with orientable double rod and toggle-joint mechanism
- Pneumatic retractable locating pin unit with hand lever and single rod
- Manual retractable locating pin unit with single rod
- Pneumatic retractable locating pin unit with hand lever and orientable double rod

PIN CLAMPS

- Pneumatic pin clamps
- Pneumatic pin clamps horizontal shape
- Pneumatic pin clamps for laser beam applications
- Pneumatic pin clamps with vanishing hook
**DF-S/DF-C**

**FULL METALLIC BODY**

2 VERSIONS:
- **DF-S** M12 adjustable swivel connector (in steps of 10°)
- **DF-C** M12 fixed connector (to minimize overall dimensions)

**REDUCED OVERALL DIMENSIONS**

**INTERCHANGEABLE WITH DF-U SENSOR**

Pneumatic retractable locating pin units with orientable double rod

Pneumatic retractable locating pin unit with hand lever, single rod and toggle-joint mechanism

Compact sensor

**DF-S**

**DF-C**

Pneumatic pin clamps with vanishing hook and pin

Manual pin clamps
POWER PIVOTS

Pneumatic power pivots

ELECTRIC UNITS

Electric power clamps
Electric power clamps, fixing conforming to the N.A.A.M.S. Standard
Electric gripper units

TC-E

Modular Control System for Electric Clamping Units

SERIAL COMMUNICATION SYSTEM

POWER UNIT
EFFICIENT power management

ELECTRIC UNIT DRIVER
Control module for 2 clamping units
Max 8 electric devices

FLEXIBLE
Compatible with I/O modules and valve manifolds
MARKING UNITS

- Marking unit- 1 character
- Marking unit- 7 characters

LARP

UNIVERSAL Power Pivot

120° - 0°

ADJUSTABLE OPENING ANGLE

- Electric retractable locating pin units
- Electric power pivots

ATEX Certified products
Available on request
GR8 MODULAR TOOLING SYSTEM

- Ø 30 - 45 - 70 mm BOOMS
  - Maximum stiffness and minimum weight

- LOCKING RING
  - Precise and efficient system to guarantee a high level of positional accuracy
MODULAR TOOLING SYSTEM

KIT
Considerable reduction of mounting elements

HIGH PRECISION
High level of positional repeatability; low deflection

MODULAR COMPONENTS
Considerable reduction of mounting components

QUICK INSTALLATION AND SET UP
No welding or doweling required, easily replaceable components

FULLY ADJUSTABLE
Unlimited orientation in space and free configurations

UNIVER Original

BALL MOUNTING
Unlimited swivel rotation
### BOOMS AND BOOM ADAPTERS

<table>
<thead>
<tr>
<th>Octagonal boom Ø30</th>
<th>Octagonal boom Ø45</th>
<th>Octagonal boom Ø70</th>
<th>Boom end-cap Ø30</th>
<th>Boom end-cap Ø45</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Octagonal boom Ø30" /></td>
<td><img src="image2" alt="Octagonal boom Ø45" /></td>
<td><img src="image3" alt="Octagonal boom Ø70" /></td>
<td><img src="image4" alt="Boom end-cap Ø30" /></td>
<td><img src="image5" alt="Boom end-cap Ø45" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interlocking key insert</th>
<th>Interlocking end 30</th>
<th>Interlocking end 30 for ball mounting</th>
<th>Interlocking end 30 D</th>
<th>Interlocking end 45</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image6" alt="Interlocking key insert" /></td>
<td><img src="image7" alt="Interlocking end 30" /></td>
<td><img src="image8" alt="Interlocking end 30 for ball mounting" /></td>
<td><img src="image9" alt="Interlocking end 30 D" /></td>
<td><img src="image10" alt="Interlocking end 45" /></td>
</tr>
</tbody>
</table>

### FRAME COMPONENTS

<table>
<thead>
<tr>
<th>Base plate 30</th>
<th>Joint 30 without base</th>
<th>Base plate 45</th>
<th>Joint 45 without base</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image11" alt="Base plate 30" /></td>
<td><img src="image12" alt="Joint 30 without base" /></td>
<td><img src="image13" alt="Base plate 45" /></td>
<td><img src="image14" alt="Joint 45 without base" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Joint 45-30</th>
<th>Joint 45-45</th>
<th>Joint 70-45</th>
<th>Joint 70-70</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image15" alt="Joint 45-30" /></td>
<td><img src="image16" alt="Joint 45-45" /></td>
<td><img src="image17" alt="Joint 70-45" /></td>
<td><img src="image18" alt="Joint 70-70" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coplanar Mount 70-45</th>
<th>Coplanar Mount 70-70</th>
<th>Base linear plate 45</th>
<th>Base linear plate 70</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image19" alt="Coplanar Mount 70-45" /></td>
<td><img src="image20" alt="Coplanar Mount 70-70" /></td>
<td><img src="image21" alt="Base linear plate 45" /></td>
<td><img src="image22" alt="Base linear plate 70" /></td>
</tr>
</tbody>
</table>

Subject to change
<table>
<thead>
<tr>
<th>Component</th>
<th>90 Nm</th>
<th>200 Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom end-cap Ø70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locking ring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locking ring D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interlocking end 45 for ball mounting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interlocking end 45 D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base plate 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joint 70 without base</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coplanar Mount 45-30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coplanar Mount 45-45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base plate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Max static load
## JOINT

<table>
<thead>
<tr>
<th>30 mm base connector</th>
<th>45 mm base connector</th>
<th>70 mm base connector</th>
<th>Cross Joint 30</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Joint 30 mm connector" /></td>
<td><img src="image2" alt="Joint 45 mm connector" /></td>
<td><img src="image3" alt="Joint 70 mm connector" /></td>
<td><img src="image4" alt="Cross Joint 30" /></td>
</tr>
<tr>
<td>90 Nm</td>
<td>90 Nm</td>
<td>90 Nm</td>
<td>90 Nm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cross Joint 45</th>
<th>Cross Joint 45 for ball mounting</th>
<th>Cross Joint 45 D</th>
<th>Cross Joint 70</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Cross Joint 45" /></td>
<td><img src="image6" alt="Cross Joint 45 for ball mounting" /></td>
<td><img src="image7" alt="Cross Joint 45 D" /></td>
<td><img src="image8" alt="Cross Joint 70" /></td>
</tr>
<tr>
<td>90 Nm</td>
<td>200 Nm</td>
<td>90 Nm</td>
<td>90 Nm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Double cross joint 30</th>
<th>Double cross joint 30 for ball mounting</th>
<th>Double cross joint 30 D</th>
<th>Double cross joint 45</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image9" alt="Double cross joint 30" /></td>
<td><img src="image10" alt="Double cross joint 30 for ball mounting" /></td>
<td><img src="image11" alt="Double cross joint 30 D" /></td>
<td><img src="image12" alt="Double cross joint 45" /></td>
</tr>
<tr>
<td>90 Nm</td>
<td>200 Nm</td>
<td>90 Nm</td>
<td>90 Nm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Round Joint 30</th>
<th>Round Joint 30 for ball mounting</th>
<th>Round Joint 30 D</th>
<th>Round Joint 45</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image13" alt="Round Joint 30" /></td>
<td><img src="image14" alt="Round Joint 30 for ball mounting" /></td>
<td><img src="image15" alt="Round Joint 30 D" /></td>
<td><img src="image16" alt="Round Joint 45" /></td>
</tr>
<tr>
<td>90 Nm</td>
<td>200 Nm</td>
<td>90 Nm</td>
<td>90 Nm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Round Joint 70</th>
<th>Round Joint 70 for ball mounting</th>
<th>Round Joint 70 D</th>
<th>Adapter octagon 30 to round 25</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image17" alt="Round Joint 70" /></td>
<td><img src="image18" alt="Round Joint 70 for ball mounting" /></td>
<td><img src="image19" alt="Round Joint 70 D" /></td>
<td><img src="image20" alt="Adapter octagon 30" /></td>
</tr>
<tr>
<td>90 Nm</td>
<td>200 Nm</td>
<td>90 Nm</td>
<td>90 Nm</td>
</tr>
</tbody>
</table>

*Subject to change*
<table>
<thead>
<tr>
<th>Cross Joint 30 for ball mounting</th>
<th>Cross Joint 30 D</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Cross Joint 30 for ball mounting" /></td>
<td><img src="image2.png" alt="Cross Joint 30 D" /></td>
</tr>
<tr>
<td><strong>200 Nm</strong></td>
<td><strong>200 Nm</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cross Joint 70 for ball mounting</th>
<th>Cross Joint 70 D</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Cross Joint 70 for ball mounting" /></td>
<td><img src="image4.png" alt="Cross Joint 70 D" /></td>
</tr>
<tr>
<td><strong>200 Nm</strong></td>
<td><strong>200 Nm</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Double cross joint 45 for ball mounting</th>
<th>Double cross joint 45 D</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.png" alt="Double cross joint 45 for ball mounting" /></td>
<td><img src="image6.png" alt="Double cross joint 45 D" /></td>
</tr>
<tr>
<td><strong>200 Nm</strong></td>
<td><strong>200 Nm</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Round Joint 45 for ball mounting</th>
<th>Round Joint 45 D</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7.png" alt="Round Joint 45 for ball mounting" /></td>
<td><img src="image8.png" alt="Round Joint 45 D" /></td>
</tr>
<tr>
<td><strong>200 Nm</strong></td>
<td><strong>200 Nm</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adapter octagon 45 to round 40</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image9.png" alt="Adapter octagon 45 to round 40" /></td>
</tr>
<tr>
<td><strong>90 Nm</strong></td>
</tr>
</tbody>
</table>
**ANGLE ADAPTERS**

<table>
<thead>
<tr>
<th>Orientable angle 45°</th>
<th>Orientable angle 45° for ball mounting</th>
<th>Orientable angle 45° D</th>
<th>Orientable angle 90°</th>
</tr>
</thead>
</table>

- Orientable angle 45°: 90 Nm
- Orientable angle 45° for ball mounting: 200 Nm
- Orientable angle 45° D: 90 Nm
- Orientable angle 90°: 200 Nm

**BALL ADAPTERS**

<table>
<thead>
<tr>
<th>Proximity mount 12 mm</th>
<th>Proximity mount 18 mm</th>
<th>Proximity mount 30 mm</th>
<th>Vacuum cup adapter</th>
</tr>
</thead>
</table>

- Proximity mount 12 mm: 90 Nm
- Proximity mount 18 mm: 200 Nm
- Proximity mount 30 mm: 90 Nm
- Vacuum cup adapter: 200 Nm

Subject to change
<table>
<thead>
<tr>
<th>MODULAR TOOLING SYSTEM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientable angle 90° for ball mounting</td>
<td>Orientable angle 90° D</td>
</tr>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>Edge mount orientable side for 45 mm boom</td>
<td>Edge mount orientable side for 45 mm boom D</td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>Max static load: 90 Nm, 200 Nm</td>
<td></td>
</tr>
<tr>
<td>Ball mount 30</td>
<td>Ball mount 45</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>
FRONT MOUNT PLATES

- Front mount plate for clamps size 40
- Interlocking adapter for GR8MF40A and GR8MFGL
- Mount plate for GR8MF40A and GR8MFGL
- Mount flange angle for GR8MF40A and GR8MF40D

REAR MOUNT PLATES

- Mount plate for GR8MF40D and GR8MFGL
- Front mount plate D for clamps size 50/63
- Mount plate for GR8MF50D
- Mount flange angle for GR8MF50D

- Rear mount plate for clamps size 40
- Rear mount plate D for clamps size 40
- Rear mount plate for LCP50
- Rear mount plate D for LCP50

- Rear mount plate
- Rear mount plate with M8 threads
- Flange mount for LCP
- Flange mount for LCP with M8 threads
MODULAR TOOLING SYSTEM

Front mount plate D for clamps size 40

Interlocking adapter for GR8MF40D, GR8MF50D and GR8MFGLD

Front mount plate for UGP40VL

Front mount plate D for UGP40VL

Counter mount for GR8MFGL and GR8MFGLD

Rear mount plate with M8 threads for clamps size 50/63

Rear mount plate D with M8 threads for clamps size 50/63
LGPS ADAPTERS

Orbital mount 360°, ball Ø25 mm for LGPS32

Orbital mount 360°, ball Ø30 mm for LGPS32

Middle flange mount for LGPS32

Orbital mount 360°, ball Ø25 mm for LGPS40

Orbital mount 360°, ball Ø45 mm for LGPS40

Middle flange mount for LGPS40

Rear flange mount 70 mm for LGPS32

Rear flange mount 80 mm for LGPS40

RISERS

Riser size 30

Riser size 45

Riser size 70
MODULAR TOOLING SYSTEM

Orbital mount 360°, ball Ø30 mm for LGPS40

Orbital mount 360°, ball Ø40 mm for LGPS40

Rear flange mount 110 mm for LGPS40
## Compliance with International Standards

<table>
<thead>
<tr>
<th>Directive/Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECTIVE 2014/34 EU “ATEX”</td>
<td>Directive that specifies the safety requirements for equipment/components for use in potentially explosive atmospheres</td>
</tr>
<tr>
<td>PRODUCT CERTIFICATION “CSA/UL” Nr. 2448884 Nr. LR 113373-1</td>
<td>Product Safety certification for the North American market (United States - Canada)</td>
</tr>
<tr>
<td>DIRECTIVE 2011/65/EU “RoHS”</td>
<td>Directive which regulates the use and disposal of hazardous substances in electrical and electronic equipment and their waste disposal.</td>
</tr>
<tr>
<td>DIRECTIVE 97/23/EC “PED”</td>
<td>Directive which applies to the design, manufacture and conformity assessment of pressure equipment and assemblies with a maximum allowable pressure greater than 0.5 bar.</td>
</tr>
<tr>
<td>DIRECTIVE 2006/42/EC “MACHINERY”</td>
<td>Directive defining essential health and safety requirements for the design, construction, installation and maintenance of machinery.</td>
</tr>
</tbody>
</table>

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