UNIVER®

J | Slide Units

STRONG
Extruded aluminium profile structure
UNIVER Original

STURDY
Oversized hollow guiding shafts
made of chromium-plated steel

SMOOTH SLIDING
Self-lubricating guiding bushes
made of special steel

STANDARD
Wide range of standard solutions
for any application requirement

J1
ISO 6432 cylinders

ISO 15552 cylinders

J3
Rodless cylinders

J64RS
STRONG cylinders

J64RT2
Telescopic cylinders

KIT **Assembly Kit**
available for all series

CHARACTERISTICS

Ambient temperature	-20 ÷ 80 °C
Fluid	filtered air, with or without lubrication
Working pressure	2 ÷ 10 bar
Barrel	extruded anodised aluminium
Guide bush for piston rod	special steel
Shafts	chromium-plated steel
Shaft scraper seals	polyurethane
Flange	steel

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

J1




CODIFICATION KEY

J	1	0	A	5	5	0	0	5	0	A
1	2		3	4	5	6				7

1 Series

J = Slide unit

2 Type

10 = Protruding shafts and short housing (recommended for strokes up to 50 mm)
11 = Protruding shafts and medium housing
12 = Protruding shafts and long housing
14 = Fully protected cylinder
16 = Central mounting (semi-external cylinder)
17 = Central mounting (fully protected cylinder)
18 = Medium moving housing (external cylinder)
19 = Long moving housing (external cylinder)

3 Accessories

A = Shaft scrapers standard supplied

4 Slide unit size

0 = 16 for Ø16 cylinder
2 = 25 for Ø25 cylinder
3 = 32 for Ø32 cylinder
4 = 40 for Ø40 cylinder
5 = 50 for Ø50 cylinder
6 = 63 for Ø63 cylinder
7 = 80 for Ø80 cylinder
8 = 100 for Ø100 cylinder

5 Cylinder bore (mm)

0 = Ø16
2 = Ø25
3 = Ø32
4 = Ø40
5 = Ø50
6 = Ø63
7 = Ø80
8 = Ø100

6 Cylinder stroke (mm)

M
0025 - 0030 - 0040 - 0050 - 0075
0100 - 0125 - 0150 - 0160 - 0175
0200 - 0250 - 0300 - 0400 - 0500

KD - KE/K
0025 - 0050 - 0075 - 0080 - 0100
0125 - 0150 - 0160 - 0175 - 0200
0250 - 0300 - 0320 - 0400 - 0450
0500 - 0600 - 0700 - 0800 - 0900
1000

7 Cylinder option

A = M150 series Ø16÷25 microcylinders
K200 series Ø32÷100 cylinders
B = M250 series Ø16÷25 microcylinders with locking unit
K200 series Ø32÷100 cylinders with locking unit
(only for J12, J14, J16, J17)
C = KE200 series Ø 32÷100 cylinders
D = KE200 series Ø 32÷100 cylinders with locking unit (only for J12, J14, J16, J17)
E = KD200 series Ø32÷100 cylinders (except for J14 and J17)
F = KD200 series Ø32÷100 cylinders with locking unit (only for J12 and J16)

Slide units are supplied with integrated cylinder

Slide units for S1 series rodless cylinders

J3

CODIFICATION KEY

J	3	0	A	5	3	0	1	0	0	A
1	2		3	4	5	6				7

1 Series
J = Slide unit

2 Type
30 = With fully protected cylinder (2 bearings - standard carriage)
31 = With fully protected cylinder (2 bearings - long carriage)

3 Accessories
A = Shaft scrapers standard supplied

4 Slide unit size
4 = 40 for Ø25 cylinders
5 = 50 for Ø32 cylinders
6 = 63 for Ø40 cylinders
7 = 80 for Ø50 cylinders

5 Cylinder bore (mm)
2 = Ø25
3 = Ø32
4 = Ø40
5 = Ø50

6 Slide unit stroke (mm)
Up to **0800**

7 Supply port option
A = Supply ports on both end-caps
B = Supply ports on the right end-cap only

Slide Units for RS series STRONG compact cylinders

J64RS

CODIFICATION KEY

J	6	4	R	S	3	3	0	0	5	0	B
1	2		3		4	5	6				7

1 Series
J = Slide unit - Shaft scrapers standard supplied

2 Slide unit type
64 = Fully protected cylinder (stroke longer than 50 mm)
65 = Fully protected cylinder, through opening
66 = Fully protected cylinder, through opening, two plates
67 = Fully protected cylinder, two plates (stroke longer than 50 mm)

3 Cylinder type
RS = STRONG cylinder (RS22J... series) with long piston and tube with sensor grooves on the same side as supply ports to allow mounting of magnetic sensors

4 Slide unit size
3 = 32 for Ø32 cylinders
4 = 40 for Ø40 cylinders
5 = 50 for Ø50 cylinders
6 = 63 for Ø63 cylinders

5 Cylinder bore (mm)
3 = Ø32
4 = Ø40
5 = Ø50
6 = Ø63

6 Slide unit stroke (mm)
0015 ÷ 0800

7 Cylinder option
A = Cylinder with long piston
B = Cylinder with long piston and locking unit

Slide units are supplied with integrated cylinder

Slide Units for RT2 series telescopic cylinders

J64RT2

CODIFICATION KEY

J	6	4	R	T	2	4	4	0	8	0	0	A
1	2		3			4	5		6			7

1 Series
J = Slide unit - Shaft scrapers standard supplied

2 Slide unit type
64 = Fully protected telescopic cylinder

3 Cylinder type
RT2 = 2 stage telescopic cylinders

4 Slide unit size
3 = 32 for Ø32 cylinders
4 = 40 for Ø40 cylinders
5 = 50 for Ø50 cylinders
6 = 63 for Ø63 cylinders

5 Cylinder bore (mm)
3 = Ø32
4 = Ø40
5 = Ø50
6 = Ø63

6 Slide unit stroke (mm)
Standard stroke
0120 - 0160 - 0180 - 0200 - 0300 - 0400 - 0500
0600 - 0700 - 0800 - 0900 - 1000 - 1100 - 1200

Min - Max stroke
0160 ÷ 0400 (Ø32)
0160 ÷ 0600 (Ø40)
0120 ÷ 0900 (Ø50)
0120 ÷ 1200 (Ø63)

7 Cylinder option
A = 2 stage telescopic cylinders

Slide Units for RP series compact cylinders

J65

CODIFICATION KEY

J	6	5	R	P	2	2	0	0	5	0	A
1	2		3		4	5		6			7

1 Series
J = Slide units - Shaft scrapers standard supplied

2 Slide unit type
65 = Fully protected cylinder, through opening

3 Cylinder type
RP = UNITOP Ø25 mm compact cylinder

4 Slide unit size
2 = 25 for Ø25 cylinders

5 Cylinder bore (mm)
2 = Ø25

6 Slide unit stroke (mm)
0050 ÷ 0200

7 Cylinder option
A = Cylinder with long piston

Slide units are supplied with integrated cylinder

CHARACTERISTICS

Ambient temperature	-5 ÷ +60 °C
Fluid	filtered air, with or without lubrication
Working pressure	1 ÷ 10 bar
Body	aluminium alloy
Shafts	chromium-plated steel (JLS)
	hardened and chromium-plated steel (JLV)
Piston	aluminium alloy
Piston rod	chromium-plated stainless steel AISI 303 (Ø12-16-20)
	chromium-plated steel C45 (Ø25-32-40-50-63)
Guide bearing	bearings (JLS)
	ball bushing (JLV)
Piston seal	NBR
Cushion seals	NBR
Magnet	standard supplied
Flange	steel

CODIFICATION KEY

J	L	S	0	1	2	0	0	3	0
1		2	3			4			

1 Series

JL = Guided Compact Cylinders

2 Guide bearing

S = Bearings
V= Ball bushing

3 Bore (mm)

012 = Ø12
016 = Ø16
020 = Ø20
025 = Ø25
032 = Ø32
040 = Ø40
050 = Ø50
063 = Ø63

4 Stroke (mm)

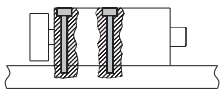
0010 = 10
0020 = 20
0025 = 25
0030 = 30
0040 = 40
0050 = 50
0075 = 75
0100 = 100
0125 = 125
0150 = 150
0175 = 175
0200 = 200

Strokes (mm)

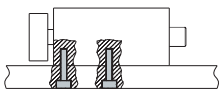
Ø	10	20	25	30	40	50	75	100	125	150	175	200
12	■			■				■				
16	■			■				■				
20		■		■				■				
25		■		■				■				
32			■					■				
40			■			■		■				
50			■			■		■				
63			■			■		■				

Fixing schemes

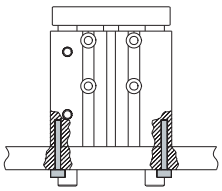
■ **Top** fixing



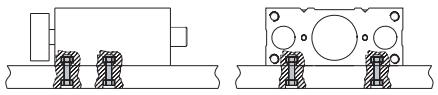
Bottom fixing



Rear fixing



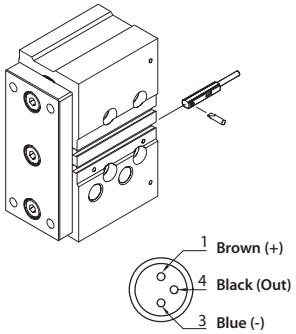
■ **T-slot** fixing



DF-R magnetic sensor

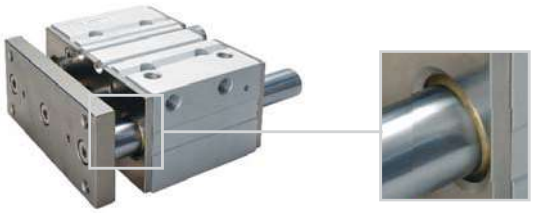
DF-R200L03
DF-R200M08

■ Mounting scheme



Upon request

■ Version with metallic piston rod scraper



Ø 6 ÷ 32 mm - Twin rod guided cylinder

JT

Ambient temperature: -5 ÷ 60 °C
Stroke adjustment: 0 ÷ 5 mm

Part No.	Ø	Working pressure (bar)	Theoretical thrust force (N)*		Standard stroke (mm)	Max stroke (mm)	Sensor
			Thrust	Traction			
JTS006 JTV006	6	1,5 - 7	28	15,5	10-20-30	50	DF-R200
JTS012 JTV012	12	1 - 7	113	84	10-15-20-25-30 35-40-45-50-60-70	70	
JTS016 JTV016	16	1 - 7	200	150	10-15-20-25 30-35-40-45 50-60-70-75 80-90-100	120	
JTS020 JTV020	20	0,5 - 7	314	236		130	
JTS025 JTV025	25	0,5 - 7	490	378		150	
JTS032 JTV032	32	0,5 - 7	802	603		150	

S = Bearings
V= Ball bushing

* = Theoretical thrust force at 5 bar

Ø 6 ÷ 20 mm - Pneumatic mini slide unit

JX1

Part No.	Ø	Working pressure (bar)	Theoretical thrust force (N)*		Standard stroke (mm)	Sensor
			Thrust	Traction		
JX1006	6	1,2 - 7	14,2	10,6	5-10-15-20-25 30-40-50-60	DF-R200
JX1010	10	0,6 -7	39,3	33		
JX1016	16	0,6 -7	101	86		
JX1020	20	0,5 - 7	157	132		

* = Theoretical thrust force at 5 bar

Ambient temperature: -5 ÷ 60 °C
Embodied linear guide

Ø 8 ÷ 25 mm - Slide table actuator

JX2

Part No.	Ø	Working pressure (bar)	Theoretical thrust force (N)*		Standard stroke (mm)	Sensor
			Thrust	Traction		
JX2008	8	1,5 ÷ 7	51	38	10-20-30 - 40-50-75	DF-T200
JX2012	12		113	85	10-20-30 40-50-75 -100	
JX2016	16		201	151		
JX2020	20		314	236		
JX2025	25		491	380		

* = Theoretical thrust force at 5 bar

Ambient temperature: 0 ÷ 60 °C
Versions upon request:
with stroke adjusting screw (add suffix R to part no. e.g. JX2008R)
with hydraulic shock absorbers (add suffix D to part no. e.g. JX2008D)