



NITTO KOHKI

**"Technologies that Respond
to the Needs of the Times"**

Quick Connect Couplings
Machine Tools
Power Tools
Electric Screwdrivers
Air Compressors
Vacuum Pumps

www.nitto-kohki.co.jp/e

**HOLE
CUTTING**

ATRA ACE

Portable Magnetic Base
Drilling Machine

ATRA ACE AO-5575

Manual

• Hole-cutting capacity

Hole Diameter
ø12 to 50 mm
Plate Thickness
9 to 75 mm



**MAX.
ø55**

ATRA ACE WOJ-3200

Manual

• Hole-cutting capacity

One-touch Type JETBROACH ø12 to 32 mm
Plate Thickness
9 to 50 mm
No Load Speed
87 (min-1) (rpm)



**MAX.
ø32**

ATRA ACE WO-3200

• Hole-cutting capacity

One-touch Type HI-BROACH ø12 to 32 mm
Plate Thickness
9 to 50 mm
No Load Speed
630 (min-1) (rpm)



**MAX.
ø32**

ATRA ACE WA-5000

Auto

• Hole-cutting capacity

Hole Diameter
ø12 to 50 mm
Plate Thickness
9 to 75 mm



**MAX.
ø50**

ATRA ACE WA-3500

Auto

• Hole-cutting capacity

Hole Diameter
ø17.5 to 35 mm
Plate Thickness
9 to 35 mm



**MAX.
ø35**

ATRA ACE LO-3550

Manual

• Hole-cutting capacity

Hole Diameter
ø12 to 35 mm
Plate Thickness
6 to 50 mm



**MAX.
ø35**

ATRA ACE A-100

• Hole-cutting capacity

Hole Diameter
ø50 to 100 mm
Plate Thickness
13 to 75 mm



**MAX.
ø100**



	Part Number					
	HI-BROACH			JETBROACH		
	 One-touch Type			 One-touch Type		
mm	25L Plate thickness 25mm	50L Plate thickness 50mm	25L Plate thickness 25mm	35L Plate thickness 35mm	50L Plate thickness 50mm	75L Plate thickness 75mm
Ø12	TK00898	TK00721	TK01148	—	TK01154	—
Ø13	TK00699	TK00722	TK01149	—	TK01155	—
Ø14	TK00700	TK00723	TK01150	—	TK01156	—
Ø15	TK00701	TK00724	TK01151	—	TK01157	—
Ø16	TK00702	TK00725	TK01152	—	TK01158	—
Ø17	TK00703	TK00726	TK01153	—	TK01159	—
Ø17.5	TK00335	—	—	TK00301	TK00330	TK01036
Ø18	TK00336	TK00727	—	TK00302	TK00331	TK01003
Ø19	TK00337	TK00728	—	TK00304	TK00332	TK01004
Ø19.5	TK00338	—	—	TK00305	TK00333	—
Ø20	TK00339	TK00729	—	TK00306	TK00334	TK01005
Ø20.5	—	—	—	TK00307	TK00335	—
Ø21	TK00340	TK00730	—	TK00308	TK00336	TK01006
Ø21.5	TK00341	—	—	TK00309	TK00337	—
Ø22	TK00342	TK00731	—	TK00310	TK00338	TK01007
Ø22.5	TK00343	—	—	TK00311	TK00339	—
Ø23	TK00344	TK00732	—	TK00312	TK00340	TK01008
Ø23.5	TK00345	—	—	TK00313	TK00341	—
Ø24	TK00346	TK00733	—	TK00314	TK00342	TK01009
Ø24.5	TK00347	—	—	TK00315	TK00343	—
Ø25	TK00348	TK00734	—	TK00316	TK00344	TK01010
Ø26	TK00349	TK00735	—	TK00317	TK00345	TK01011
Ø26.5	—	—	—	TK00318	TK00346	—
Ø27	TK00351	TK00736	—	TK00319	TK00347	TK01012
Ø28	TK00352	TK00737	—	TK00320	TK00348	TK01013
Ø29	TK00353	TK00738	—	TK00321	TK00349	TK01014
Ø30	TK00354	TK00739	—	TK00322	TK00400	TK01015
Ø31	TK00355	TK00740	—	TK00323	TK00401	TK01016
Ø32	TK00356	TK00741	—	TK00324	TK00402	TK01017
Ø33	TK00357	TK00742	—	TK00325	TK00403	TK01018
Ø34	TK00359	TK00743	—	TK00326	TK00404	TK01019
Ø35	TK00361	TK00744	—	TK00328	TK00405	TK01020
Ø36	TK00704	TK00745	—	TK00602	TK00406	TK01021
Ø37	TK00705	TK00746	—	TK00603	TK00407	TK01022
Ø38	TK00706	TK00747	—	TK00604	TK00408	TK01023
Ø39	TK00707	TK00748	—	TK00605	TK00409	TK01024
Ø40	TK00708	TK00749	—	TK00606	TK00410	TK01025
Ø41	TK00709	TK00750	—	—	TK00411	TK01026
Ø42	TK00710	TK00751	—	—	TK00412	TK01027
Ø43	TK00711	TK00752	—	—	TK00413	TK01028
Ø44	TK00712	TK00753	—	—	TK00414	TK01029
Ø45	TK00713	TK00754	—	—	TK00415	TK01030
Ø46	TK00714	TK00755	—	—	TK00416	TK01031
Ø47	TK00715	TK00756	—	—	TK00417	TK01032
Ø48	TK00716	TK00757	—	—	TK00418	TK01033
Ø49	TK00717	TK00758	—	—	TK00419	TK01034

	Part Number					
	HI-BROACH			JETBROACH		
	 One-touch Type			 Side-lock Type  One-touch Type		
mm	25L Plate thickness 25mm	50L Plate thickness 50mm	35L Plate thickness 35mm	50L Plate thickness 50mm	75L Plate thickness 75mm	75L Plate thickness 75mm
Ø50	TK00718	TK00759	—	TK00420	TK01035	TJ17709
Ø51	TK00719	TK00760	—	TK00442	TK01112	TJ16851
Ø52	TK00720	TK00761	—	TK00443	TK01113	TJ16852
Ø53	—	—	—	TK00444	TK01114	TJ16853
Ø54	—	—	—	TK00445	TK01115	TJ16854
Ø55	—	—	—	TK00446	TK01116	TJ16855
Ø56	—	—	—	TK00447	—	TJ16856
Ø57	—	—	—	TK00448	—	TJ16857
Ø58	—	—	—	TK00449	—	TJ16858
Ø59	—	—	—	TK00450	—	TJ16859
Ø60	—	—	—	TK00451	—	TJ16860
Ø61	—	—	—	TK00607	—	TJ16861
Ø62	—	—	—	TK00608	—	TJ16862
Ø63	—	—	—	TK00609	—	TJ16863
Ø64	—	—	—	TK00610	—	TJ16864
Ø65	—	—	—	TK00611	—	TJ16865
Ø66	—	—	—	—	—	TJ16866
Ø67	—	—	—	—	—	TJ16867
Ø68	—	—	—	—	—	TJ16868
Ø69	—	—	—	—	—	TJ16869
Ø70	—	—	—	—	—	TJ16870
Ø71	—	—	—	—	—	TJ16871
Ø72	—	—	—	—	—	TJ16872
Ø73	—	—	—	—	—	TJ16873
Ø74	—	—	—	—	—	TJ16874
Ø75	—	—	—	—	—	TJ16875
Ø76	—	—	—	—	—	TJ16876
Ø77	—	—	—	—	—	TJ16877
Ø78	—	—	—	—	—	TJ16878
Ø79	—	—	—	—	—	TJ16879
Ø80	—	—	—	—	—	TJ16880
Ø81	—	—	—	—	—	TJ16881
Ø82	—	—	—	—	—	TJ16882
Ø83	—	—	—	—	—	TJ16883
Ø84	—	—	—	—	—	TJ16884
Ø85	—	—	—	—	—	TJ16885
Ø86	—	—	—	—	—	TJ16886
Ø87	—	—	—	—	—	TJ16887
Ø88	—	—	—	—	—	TJ16888
Ø89	—	—	—	—	—	TJ16889
Ø90	—	—	—	—	—	TJ16890
Ø91	—	—	—	—	—	TJ16891
Ø92	—	—	—	—	—	TJ16892
Ø93	—	—	—	—	—	TJ16893
Ø94	—	—	—	—	—	TJ16894
Ø95	—	—	—	—	—	TJ16895
Ø96	—	—	—	—	—	TJ16896
Ø97	—	—	—	—	—	TJ16897
Ø98	—	—	—	—	—	TJ16898
Ø99	—	—	—	—	—	TJ16899
Ø100	—	—	—	—	—	TJ16900



SCALING

JET CHISEL

Powerful scaling with multi-needles



JET CHISEL JEX-28

- Needle diameter and number of needle
ø2 x 56 • ø3 x 28 • ø4 x 14
Heavy-duty type



JET CHISEL JEX-20

- Needle diameter and number of needle
ø2 x 29 • ø3 x 12
Low vibration



JET CHISEL JEX-24

- Needle diameter and number of needle
ø2 x 53 • ø3 x 23
Universal type



JET CHISEL JEX-2800A

- Needle diameter and number of needle
ø2 x 60 • ø3 x 28 • ø4 x 14
Powerful type, Low vibration



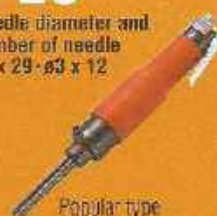
JET CHISEL JC-16

- Needle diameter and number of needle
ø2 x 29
Light weight type, only 1.4kg



JET CHISEL JT-20

- Needle diameter and number of needle
ø2 x 29 • ø3 x 12



Popular type
4000 strokes per minute

JET CHISEL AJC-16

- Needle diameter and number of needle
ø2 x 7 • ø3 x 9



Slim type
6000 strokes per minute

**GRINDING
&
SANDING**

MYTON

A wide variety of models are available to a particular job!



MYTON MLG-25

- Depressed center wheel
OD 58 mm



MYTON MLG-40

- Depressed center wheel
OD 100 mm



MYTON MLG-70

- Depressed center wheel
OD 180 mm



MYTON MAG-50

- Depressed center wheel
OD 150 mm



MYTON MAGW-40

- Depressed center wheel
OD 100 mm



MYTON MAS-20B

- Abrasive disc OD 1", 1 - 1/2" & 2"



MYTON MAS-40

- Abrasive disc OD 100 mm



MYTON MAS-70

- Abrasive disc OD 180 mm



**HANDY BELFER
E55-0619**

- Portable hydraulic puncher



Max. Thrust Depth
55 mm

**AIR DRILL
ADR-65**

- Pneumatic hand drill
Change rotation direction by turning the valve as indicated.



Max. Drilling Capacity
6.5 mm

**AIR DRILL
ADR-100**

- Pneumatic hand drill
Change rotation direction by turning the valve as indicated.



Max. Drilling Capacity
10 mm

**BART BELTON
BB-10A NEW**

- Compact and light weight.
Lever position can be changed for right or left hand.



Bolt size
10 mm

**BART BELTON
BB-20**

- Compact and light weight.
Lever position can be changed for right or left hand.



Bolt size
20 mm

**WELTER
B-10N NEW**

- Suitable for sanding jobs in narrow spaces, recessed corner or on curved surfaces.



Bolt size
10 mm

**WELTER
B-20N NEW**

- Lock lever switch and rear exhaust system.



Bolt size
20 mm

**BELTON
B-20NB NEW**

- Lock lever switch and rear exhaust system.



Bolt size
20 mm

**BELTON
B-30N NEW**

- Lock lever switch and rear exhaust system.



Bolt size
30 mm

**FREE SANDER
FS-50A**

- Small and lightweight for comfort and convenience.



Motor Free Speed
15,000 min⁻¹

**FREE SANDER
FS-100C**

- Hi speed and powerful outline sander type.



Motor Free Speed
20,000 min⁻¹

**LIVE SANDER
LS-10**

- Light sanding with piston movement.

**SUPER HAND
SH-100A**

- Super efficient way of easy filing, polishing and finishing.



Stroke Speed
3,700 min⁻¹

**SUPER HAND
ASH-900**

- Weight reduced by half for comfortable operation over long period of time.



NEW

**MICRO AIR HAND
MAH-05/MAH-16**

- Fine reciprocating motion best for precision parts filing.
Select either one of the 2 models depending on your applications.



MAH-16

MAH-05

**AIR SONIC
L-25B/L-25R**

- Pneumatic Die Grinder
The high-speed mighty mite works on all metals, wood, and plastics even extremely hard and exotic materials.



Free speed min⁻¹(rpm)
27,000

Free speed min⁻¹(rpm)
37,500

**AIR SONIC
AL-55**

- Pencil Grinder
Compact & light weight.
Special plastic grip prevents cold hand and absorbs vibration.

**ORBITAL SANDER
OSV-60A**

- Pneumatic Dust-Free Sander
Random orbital action creates a professional finish.

**POLM ORBITAL SANDER
APS-125/150**

- Pneumatic Compact Sander
Ergonomically designed housing for greater control and comfort.



Self Vacuum

APS-125

APS-150

**AIR CHIPPER
ACH-16/ACH-20**

- Pneumatic chipping hammer
Chipping after welding is easy.



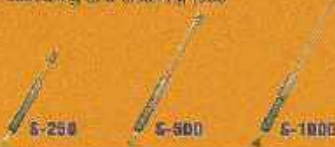
ACH-16

ACH-20

CH-24

**SUPER KEELEN
S-250/S-500/S-1000**

- Pneumatic Scaler
Achieves labor savings in industrial and shipboard descaling and cleaning jobs.



S-250

S-500

S-1000

**AUTO CHISEL
A-300**

- Pneumatic Air Hammer
A special spool valve inside grip assures excellent durability.

**HAND REVELER
HB-15B**

- Portable chamfering tool
Chamfering capacity 0G to 15G.

**MINI REVELER
AMB-0307A**

- Portable pneumatic chamfering tool
Chamfering capacity 7G, 2H, 3H, 4H
Stainless Max 3G, Mild steel Max 7G

**CIRCUIT REVELER
CB-02**

- Portable chamfering tool
Chamfering capacity 2G, 2H

**SUPER SAW
SSW-110**

- Pneumatic Hacksaw
Special double-piston system achieve low vibration.



HOLE CUTTING

SELFER

Portable Hydraulic Puncher



SELFER ACE HS06-1322

Portable
Double-
Acting

- Portable (exclusive circle hole)
- Max Plate Thickness
13 mm
- Max Hole Diameter
ø22 mm



SELFER ACE HS07-1624

Portable
Double-
Acting

- Portable (exclusive circle hole)
- Max Plate Thickness
16 mm
- Max Hole Diameter
ø24 mm



SELFER ACE HS11-1624

Portable
Double-
Acting

- Portable (exclusive circle hole)
- Max Plate Thickness
16 mm
- Max Hole Diameter
ø24 mm



HYDRAULIC PUMP HPD-05

230 V
AC

- HS series Hydraulic Puncher
- Power Source
115V/230V



SELFER HA05-1018

Portable
Single-
Acting

- Portable (exclusive circle hole)
- Max Plate Thickness
10 mm
- Max Hole Diameter
ø18 mm



SELFER HA06-1322

Portable
Single-
Acting

- Portable (exclusive circle hole)
- Max Plate Thickness
13 mm
- Max Hole Diameter
ø22 mm



SELFER HA07-1624

Portable
Single-
Acting

- Portable (exclusive circle hole)
- Max Plate Thickness
16 mm
- Max Hole Diameter
ø24 mm



SELFER HA11-1624

Portable
Single-
Acting

- Portable (exclusive circle hole)
- Max Plate Thickness
16 mm
- Max Hole Diameter
ø24 mm



HYDRAULIC PUMP SC-05

230 V
AC

- HA series Hydraulic Puncher
- Power Source
115V/230V



Specifications

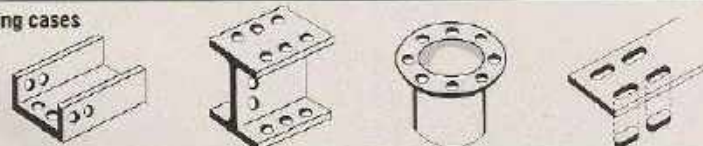
Model	HS06-1322	HS07-1624	HS11-1624	HA05-1018	HA06-1322	HA07-1624	HA11-1624
Max. Throat Depth	mm 60	70	110	50	60	70	110
Max. Punching Thickness	mm 13	16	16	10	13	16	16
Max. Punching Diameter	mm ø22	ø24	ø24	ø18	ø22	ø24	ø24
Hole Making Time	7.5 sec	11.8 sec	11.8 sec	7.0 sec	10.5 sec	16.5 sec	16.5 sec
Allowable Max. Pressure MPa (kg/cm²)	68.65	68.65	68.65	68.65	68.65	68.65	68.65
Max Output	kW (D)	367	464	464	218	304	431
Para Stroke	mm	21	25	25	17.5	21	25
Mass (Weight)	kg	20.5	26.5	30	16	21.5	28.5

FOR HS06-1624/HS07-1624/HS11-1624/HA06-1624/HA07-1624/HA11-1624

Elongated hole D Punch	Elongated hole D Die	Elongated hole Jig
PN	PN	PN
TJ13229 D Punch 16 x 8	TJ13238 D Die 16 x 8	TK0455 Jig 15 x 8
TJ13230 D Punch 18 x 8	TJ13239 D Die 18 x 8	TK0456 Jig 18 x 8
TJ13231 D Punch 20 x 10	TJ13240 D Die 20 x 10	TK0457 Jig 20 x 10
TJ13232 D Punch 22 x 11	TJ13241 D Die 22 x 11	TK0458 Jig 22 x 11
TJ13233 D Punch 24 x 12	TJ13242 D Die 24 x 12	TK0459 Jig 24 x 12
TJ13234 D Punch 25 x 9	TJ13243 D Die 25 x 9	TK0460 Jig 25 x 9
TJ13235 D Punch 25 x 12	TJ13244 D Die 25 x 12	TK0461 Jig 25 x 12
TJ13236 D Punch 25 x 14	TJ13245 D Die 25 x 14	TK0462 Jig 25 x 14
TJ13237 D Punch 25 x 18	TJ13246 D Die 25 x 18	TK0463 Jig 25 x 18

* To 90037 Lock Nut Assy is required for Elongated hole D Punch 25 x 9/12/14/18

Drilling cases

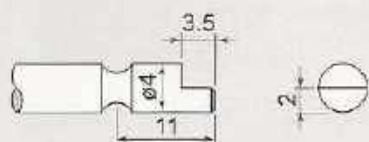


FOR HS06-1624/HS07-1624/HS11-1624/HA06-1624/HA07-1624/HA11-1624

Round hole D Punch		Round hole D Die	
PN	Size	PN	Size
TJ10778	D Punch 8	TJ10779	D Die 8
TJ11088	D Punch 9	TJ11089	D Die 9
TJ06700	D Punch 10	TJ06701	D Die 10
TJ06608	D Punch 11	TJ06609	D Die 11
TJ06606	D Punch 12	TJ06607	D Die 12
TJ06604	D Punch 13	TJ06605	D Die 13
TJ06602	D Punch 14	TJ06603	D Die 14
TJ06601	D Punch 14.5	TJ06602	D Die 14.5
TJ06600	D Punch 15	TJ06601	D Die 15
TJ06608	D Punch 16	TJ06609	D Die 16
TJ06606	D Punch 17	TJ06607	D Die 17
TJ06609	D Punch 17.5	TJ06610	D Die 17.5
TJ06604	D Punch 18	TJ06605	D Die 18
TJ06602	D Punch 19	TJ06603	D Die 19
TJ06600	D Punch 20	TJ06601	D Die 20
TJ06607	D Punch 20.5	TJ06608	D Die 20.5
TJ06678	D Punch 21	TJ06679	D Die 21
TJ07979	D Punch 21.5	TJ07980	D Die 21.5
TJ06676	D Punch 22	TJ06677	D Die 22
TJ06674	D Punch 23	TJ06675	D Die 23
TJ06660	D Punch 23.5	TJ06661	D Die 23.5
TJ07748	D Punch 24	TJ07749	D Die 24
TJ10061	D Punch 25	TJ10062	D Die 25

* To 90037 Lock Nut Assy is required for D Punch 25

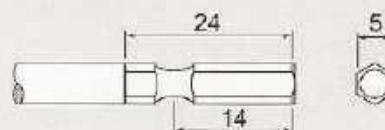




OD 4 mm Shank

Unit: mm

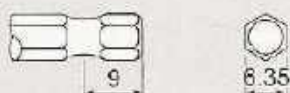
Model	Size No. x d x L	Part No.	Dimensions
Cross Point NK4D	0	2 44 TD20009	
		64 TD20010	
		44 TD20021	
		64 TD20022	
		44 TD20029	
		64 TD20030	
	1	44 TD20037	
		64 TD20038	
		44 TD20039	
	2	44 TD20040	
		64 TD20047	
		64 TD20048	
Plain Slot NK4DN	2 0.3	TD20051	
	2.5 0.3	TD20052	
	3 0.4	TD20053	
	4 0.5	TD20054	
	5 0.65	TD20055	
Hexagon Head NK4DX	1.5	TD20056	
		TD20057	
		TD20058	
		TD20059	
		TD20060	
Hex Socket NK4DB	4 5	TD20064	
		TD20065	
		TD20066	
		TD20067	



OD 5 mm Hex. Shank

Unit: mm

Model	Size No. x d x L	Part No.	Dimensions
Cross Point NK31	1	4 70 TD20193	
		100 TD20194	
		70 TD20195	
		100 TD20197	
		70 TD20200	
		100 TD20201	
	2	70 TD20210	
		100 TD20211	
		70 TD20214	
		100 TD20215	
Cross Point NK15	1	70 TD20224	
		100 TD20225	
		70 TD20232	
		100 TD20233	
Hexagon Head NK31X	2 4 70	TD20254	
		TD20255	
	3 70	TD20256	
		TD20258	
		TD20260	
		TD20262	
		TD20263	
		TD20264	
		TD20265	
		TD20266	
Hex Socket NK31B	5.5 9 4 70	TD20272	
		TD20274	
		TD20276	
		TD20277	
	6 13 6 70	TD20278	
		TD20279	
		TD20282	
		TD20283	

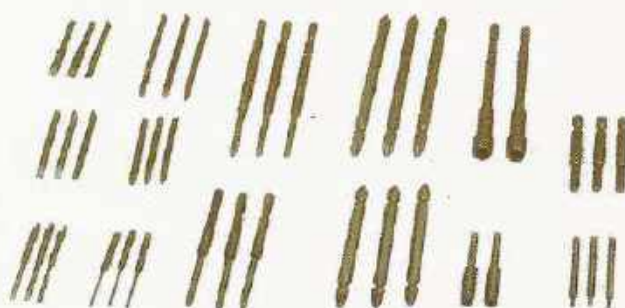


OD 6.35 mm Hex. Shank

Unit: mm

Model	Size No. x d x L	Part No.	Dimensions
Cross Point NK35	1	50 TD20308	
		75 TD20309	
		50 TD20319	
	2	75 TD20320	
		50 TD20327	
		75 TD20328	
Cross Point NK15	2	75 TD20363	
		100 TD20364	
		150 TD20366	
	3	75 TD20371	
		100 TD20372	
		160 TD20374	
Hexagon Head NK35X	5 50	TD20400	
		TD20404	
Hex Socket NK35BN	10 16 6 75	TD20442	
		TD20443	
	13 19 10 100	TD20457	
		TD20458	

NK BIT



Electric
Screwdrivers

delvo

This electric screwdriver is high repeatable torque accuracy provides more consistent screw tightening torque.

DLV 30 series

- Wide Torque Range of 0.4 - 3.0 Nm
- Designed to minimize loss of screw fastening torque that may occur after long-term use, and therefore ensures stable performance

NEW

DLV 30SL-MJE/MKE
DLV 30HL-MJE/MKE



DLV 30SP-MJE/MKE
DLV 30HP-MJE/MKE

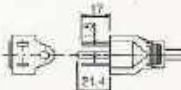
DLV 30LL-MJE/MKE
DLV 30LP-MJE/MKE

Model	Torque/Free Speed		Bit Type
	Low Torque Spring	High Torque Spring	
DLV30LL/LP-MJE	0.4 - 1.6 Nm/650 min ⁻¹	1.2 - 3.0 Nm/650 min ⁻¹	5 mm
DLV30LL/LP-MKE	0.4 - 1.6 Nm/650 min ⁻¹	1.2 - 3.0 Nm/650 min ⁻¹	6.35 mm
DLV30SL/SP-MJE	0.4 - 1.6 Nm/1,200 min ⁻¹	1.2 - 3.0 Nm/1,200 min ⁻¹	5 mm
DLV30SL/SP-MKE	0.4 - 1.6 Nm/1,200 min ⁻¹	1.2 - 3.0 Nm/1,200 min ⁻¹	6.35 mm
DLV30HL/HP-MJE	0.4 - 1.6 Nm/2,000 min ⁻¹	1.2 - 3.0 Nm/2,000 min ⁻¹	5 mm
DLV30HL/HP-MKE	0.4 - 1.6 Nm/2,000 min ⁻¹	1.2 - 3.0 Nm/2,000 min ⁻¹	6.35 mm

DLV 8104/7104 series

- Ergonomic grip design reduces
- Long-Life cam is utilized



Model:		DLV7135-MJE	DLV7144-MJE	DLV7134-MJE
		DLV7154-MJH	DLV7144-MJH	DLV7134-MJH
		DLV7134-MKE	DLV7144-MKE	DLV7134-MKE
		DLV7134-MKH	DLV7144-MKH	DLV7134-MKH
Starting Method	Lever Start			
Input Voltage	230 V AC			
Torque Adjustment	Stepless			
Torque (N·m)	0.5 - 1.7	1.2 - 3.0		
Free Speed (min ⁻¹)	900	600		
Power Consumption (W)	35			
Screw Size (mm)	Machine Screw	2.8 - 4.0	3.5 - 5.0	
	Tapping Screw	2.3 - 3.5	3.0 - 4.0	
Mass (g)	720			
Bit Type (mm)	For MJE/MJH			For MKE/MKH
Plug Shape (mm)	For MJE/MKE			For MJH/MKH

DLV 45/70 series

NEW



**230 V
AC**

Model	Torque/Free Speed	Bit Type
DLV45LL-MKH	2.0 - 4.5 Nm/650 min ⁻¹	6.35 mm
DLV45LP-MKH	2.0 - 4.5 Nm/650 min ⁻¹	
DLV45SL-MKH	2.0 - 4.5 Nm/1,200 min ⁻¹	
DLV45SP-MKH	2.0 - 4.5 Nm/1,200 min ⁻¹	6.35 mm
DLV70LL-MKH	3.0 - 7.0 Nm/650 min ⁻¹	
DLV70LP-MKH	3.0 - 7.0 Nm/650 min ⁻¹	

DLV 30/45/70 series

- Brushless Electric Screwdrivers for Automatic Assembly Robot
- Three series of screwdrivers can be mounted on the XY robot



		30 series			45 series (High Torque)	
		Low Speed	Standard Speed	High Speed	Low Speed	High Speed
Model	Standard coupling	DLV30LAN-DJN	DLV30SAN-DJN	DLV30HAN-DJN	DLV45LAN-DKN	DLV45HAN-DKN
	Coupling with flange	DLV30LAF-DJN	DLV30SAF-DJN	DLV30HAF-DJN	DLV45LAF-DKN	DLV45HAF-DKN
	Coupling with M41 screw	DLV30LAM-DJN	DLV30SAM-DJN	DLV30HAM-DJN	DLV45LAM-DKN	DLV45HAM-DKN
Torque	(N·m)	Low torque spring (Accessory) 0.4 - 1.6 High torque spring (Installed) 1.2 - 3.0			2.0 - 4.5	
Free Speed	(min ⁻¹)	650	1,200	2,000	650	1,200
Screw Size (mm)	Machine Screw	2.6 - 5.0			4.5 - 6.0	
	Tapping Screw	2.6 - 4.0			4.0 - 5.0	
Mass (g)	Standard coupling	700				
	Coupling with flange	760				
	Coupling with M41 screw	740				
Power Consumption	(W)				45	
Input Voltage		100 V AC 50/60 Hz				
Starting Method		External input signal				
Input signal		Start signal / Forward signal / Reverse signal (5 - 24 V DC)				
Output signal		Torque-up signal (Voltage under 30 V DC and current under 100 mA)				
Bit Type	(mm)					
Standard Accessories		Bit NK31 x 2 x 6 x 70: 1 pc. Low torque spring: 1 pc.			Bit NK35 x 2 x 6 x 70: 1 pc. Low torque spring: 1 pc.	

You can choose the best one in the variety lineup.

NEW

DLV 5800 series

- Screw Driver for Miniature Screws (1.0 - 3.0 mm)
- In response to the needs of cell production system Space-saving DELVD screwdrivers are released
- Controller is designed for emphasis on space-saving size and lightness
- Low voltage transformerless controller

Model	Torque/Free Speed	Bit Type
DLV5820	0.02 - 0.20 Nm/750 min ⁻¹	4 mm
DLV5820H	0.02 - 0.20 Nm/1,000 min ⁻¹	
DDLV5840	0.15 - 0.40 Nm/800 min ⁻¹	

40 V DC



Controller DLC0250E

Controller DLC0350

DLV 5700 series

- Screw Driver for Miniature Screws

40 V DC



Controller DLC0350

Controller DLC0950

DLV 7301 series

- High-Accuracy Screw Tightening Type

36 V DC



Controller DLC1213A

DLV 7300 series

- Screw Driver for Miniature Screws
- The Dedicated Controller Realized High-Accuracy Screw Tightening

36 V DC

For Miniature Screw 1.0 - 3.5 mm

DLV 7313/7323/7333

DLV 7325/7335

Controller DLC1213A

DLV 7300-BMN series

- Working-Conscious Electric Screwdriver
- Statistic electricity buildup is prevented to protect workpieces from electrostatic discharge

36 V DC

For Miniature Screw 1.0 - 3.5 mm



Controller DLC1213A

DLV 7000/8000 series

- Transformerless Screw Driver for Miniature Screw
- 100 V direct transformerless type

For Miniature Screw 1.0 - 3.5 mm

DLV 7000 series

DLV 8000 series

100 V AC



Screw Fastening Counter DLR 5040A-WE DLR 5340-WE

- For prevention of human fastening errors and enhanced fastening management accuracy



Count 1 - 99

Count 1 - 99



Screw Fastening Counter DLR 5640-WN

- For prevention of human fastening errors and enhanced fastening management accuracy



Count 1 - 99



Torque Checker DLT1173A/1673A/1973A series

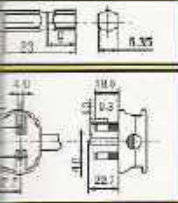
- The data can be fed into a personal computer through RS232C connector

Measurement Range 0.015 - 12.00 Nm



DLV8144-M/E	DLV8144-M/E
DLV8144-M/H	DLV8144-M/H
DLV8144-M/K	DLV8144-M/K
DLV8144-M/KH	DLV8144-M/KH

5-1.7	1.2-3.0
900	600
5-4.0	3.5-5.0
3-3.5	3.0-4.0



100 V AC

(70 series) High Torque	
Low Speed	
N-DKN	DLV70LAN-DKN
F-DKN	DLV70LAF-DKN
M-DKN	DLV70LAM-DKN
3.8 - 7.0	
650	
5.0 - 8.0	
4.5 - 6.0	

Nitto Kohki's unique technologies and dedicated research have been proven by numerous patents, which led to the development of 25,000 different Cupla variations.

HI CUPLA Universal purpose - Working pressure: 1.5 MPa, others - Body material: Steel (Chrome-plated), Brass, Stainless steel - Size of end configurations: 1/8" - 1" 	HI CUPLA BL Universal purpose/sleeve lock function - Working pressure: 1.5 MPa, others - Body material: Steel (Chrome-plated), Stainless steel - Size of end configurations: 1/4" - 1/2", ø6.5 x ø10 - ø8.5 x ø12.5 	HI CUPLA TW Fluid may in either direction from plug or from socket side when coupled. - Working pressure: 1.5 MPa - Body material: Steel (Chrome-plated) - Size of end configurations: 1/4" - 1/2" 	HI CUPLA 200 One touch type - Working pressure: 1.5 MPa - Body material: Steel (Chrome-plated) - Size of end configurations: 1/4" - 1/2" 	HI CUPLA ACE Plastic and automatic sleeve lock for safety operation - Working pressure: 1.5 MPa - Body material: PBT, PGM - Size of end configurations: 1/4" - 3/8", ø6 x ø6 - ø8.5 x ø12.5 
PURGE HI CUPLA Air line coupling with residual pressure release function - Working pressure: 1.5 MPa - Body material: Zinc Die Cast, brass, and others - Size of end configurations: 1/2" - 1" 	PURGE LINE CUPLA Simple air line coupling manifold with residue pressure release function - Working pressure: 1.0 MPa - Body material: Brass (Chrome-plated) - Size of end configurations: 1/2" 	ROTARY NUT CUPLA For connection to urethane hose - Working pressure: 1.5 MPa - Body material: Steel (Chrome-plated) - Size of end configurations: ø6.5 x ø10 - ø8.5 x ø12.5 	DUSTER CUPLA Air line coupling with air blower function - Working pressure: 1.0 MPa - Body material: Aluminum, Steel (Chrome-plated) - Size of end configurations: 1/4" - 1/2", ø5.5 x ø10 - ø8.5 x ø12.5 	LOCK CUPLA 200 Air line coupling with sleeve safety lock feature - Working pressure: 1.5 MPa - Body material: Steel (Chrome-plated) - Size of end configurations: 1/4" - 1/2", ø6.5 x ø10 - ø8.5 x ø12.5 
ROTARY LINE CUPLA (RE TYPE) Simple design line coupling on free turn manifold - Working pressure: 1.5 MPa - Body material: Steel, Brass (Chrome-plated) - Size of end configurations: 1/2" 	ROTARY FULL BLOW LINE CUPLA (RT TYPE) Simple design line coupling on free turn manifold (2 outlets) - Working pressure: 1.5 MPa - Body material: Aluminum - Size of end configurations: 1/4" 	ROTARY FULL BLOW LINE CUPLA (RE TYPE) Simple design line coupling on free turn manifold (3 outlets) - Working pressure: 1.5 MPa - Body material: Aluminum - Size of end configurations: 1/2" 	ROTARY PLUG Rotary function allow 360 swiveling - Working pressure: 1.5 MPa - Body material: Steel (Nickel-plated) - Size of end configurations: 1/4" - 3/8" 	TWIST PLUG Twist function allow 360 swiveling - Working pressure: 1.0 MPa - Body material: Steel (Nickel-plated) - Size of end configurations: 1/8" - 3/8" 
MICRO CUPLA For piping in pneumatic control devices - Working pressure: 1.0 MPa - Body material: Brass (Chrome-plated) - Size of end configurations: 1/32", N1/8", ø4, others 	MICRO LINE CUPLA Simple design air line coupling manifold (5 outlets) - Working pressure: 1.0 MPa - Body material: Brass (Chrome-plated) - Size of end configurations: 1/8" 	SMALL CUPLA Lightweight and compact for use on air lines and scientific equipment - Working pressure: 0.7 MPa - Body material: Brass (Chrome-plated) - Size of end configurations: 1/8", 1/4", others 	SMALL LINE CUPLA Simple design air line coupling manifold (5 outlets) - Working pressure: 0.7 MPa - Body material: Brass (Chrome-plated) - Size of end configurations: 1/8", 1/4" 	MULTI CUPLA Multi port system - Working pressure: 0.7 MPa - Body material: Brass (Chrome-plated) - Size of end configurations: 1/8" 
MICRO CUPLA For piping in pneumatic control devices - Working pressure: 0.7 MPa - Body material: Brass - Size of end configurations: 1/4" - 3/8" 	LINE CUPLA MINI Simple design air line coupling manifold (3 outlets) - Working pressure: 0.7 MPa - Body material: Steel (Chrome-plated), others - Size of end configurations: 1/4" - 3/8" 	MINI CUPLA SUPER Heavy-duty push-to-connect type for oxyacetylene piping - Working pressure: 0.7 MPa - Body material: Steel (Chrome-plated) - Size of end configurations: 1/4" - 3/8" 	MINI COCK Standard type for use on equipment for welding and gas cutting etc - Working pressure: 0.7 MPa - Body material: Steel (Brass/Chrome-plated) - Size of end configurations: 1/4" - 3/8" 	PAINT CUPLA Piping for painting equipment - Working pressure: 1.0 MPa - Body material: Aluminum, Stainless steel - Size of end configurations: 3/8" 
TSP CUPLA For medium pressure general applications - Working pressure: 7.5 MPa, others - Body material: Brass, Stainless steel, Steel (Nickel-plated) - Size of end configurations: 1/8" - 2" 	TSP CUPLA FOR BRAIDED HOSE For medium pressure general applications and braided hose connection type - Working pressure: 7.5 MPa, others - Body material: Brass, Stainless steel - Size of end configurations: ø6 x ø11 - ø25 x ø33 	SP-A CUPLA TYPE-A For medium pressure general applications - Working pressure: 7.5 MPa, others - Body material: Brass, Stainless steel, Steel (Nickel-plated) - Size of end configurations: 1/8" - 2" 	ZEROSPILL CUPLA For medium pressure general applications, and reduce spill - Working pressure: 3.5 MPa - Body material: Brass, Stainless steel - Size of end configurations: 1/4" - 1" 	HSP CUPLA For hydraulic pressure from 14.0 to 20.6 MPa - Working pressure: 20.6 MPa, others - Body material: Special steel (Nickel-plated) - Size of end configurations: 1/4" - 2" 
280 CUPLA For hydraulic pressure up to 27.5 - 31.5 MPa - Working pressure: 31.5 MPa, others - Body material: Special steel - Size of end configurations: 1/4" - 1" 	350 CUPLA For hydraulic pressure up to 34.5 MPa - Working pressure: 34.5 MPa - Body material: Special steel (Nickel-plated) - Size of end configurations: 3/8" - 2" 	FLAT FACE CUPLA F35 For hydraulic pressure up to 35.0 MPa with flat contact face - Working pressure: 35.0 MPa - Body material: Special steel (Nickel-plated) - Size of end configurations: 3/8" - 1" 	FLAT FACE CUPLA FF For hydraulic pressure up to 35.0 MPa with flat contact face - Working pressure: 35.0 MPa - Body material: Special steel - Size of end configurations: 3/8" - 1" 	450B CUPLA For hydraulic pressure up to 44.1 MPa - Working pressure: 44.1 MPa - Body material: Special steel (Nickel-plated) - Size of end configurations: 3/8" 



NUT CUPLA

Simple and secure connection to urethane hose.

- Working pressure: 1.5 MPa
- Body material: Steel (Chrome-plated)
- Size of end configurations: $\phi 5 \times \phi 8 - \phi 11 \times \phi 16$



NUT CUPLA 200

Simple and secure connection to urethane hose.

- Working pressure: 1.5 MPa
- Body material: Steel (Chrome-plated)
- Size of end configurations: $\phi 5 \times \phi 8 - \phi 11 \times \phi 16$



FULL BLOW CUPLA

Unique full-open gate type valve mechanism realizes low pressure loss and high flow rate.

- Working pressure: 1.5 MPa
- Body material: Aluminum
- Size of end configurations: $1/4'' - 3/8''$, $\phi 6.5 \times \phi 10 - \phi 11 \times \phi 15$



PURGE HI CUPLA

Air line coupling with residual pressure release function.

- Working pressure: 1.0 MPa
- Body material: Brass (Chrome-plated)
- Size of end configurations: $1/4'' - 3/4''$



LINE CUPLA 200T

Simple design air line coupling manifold (2 outlets)

- Working pressure: 1.5 MPa
- Body material: Aluminum, Steel (Chrome-plated)
- Size of end configurations: $1/4''$



LINE CUPLA 200L

Simple design air line coupling manifold (5 outlets)

- Working pressure: 1.5 MPa
- Body material: Aluminum, Steel (Chrome-plated)
- Size of end configurations: $1/2''$



LINE CUPLA 200S

Simple design air line coupling manifold (5 outlets)

- Working pressure: 1.5 MPa
- Body material: Aluminum, Steel (Chrome-plated)
- Size of end configurations: $1/2''$



ROTARY LINE CUPLA

(RT TYPE) Simple design air line couplings on free turn manifold (2 outlets)

- Working pressure: 1.5 MPa
- Body material: Steel, Brass (Chrome-plated)
- Size of end configurations: $1/4''$



PURGE PLUG

For air line with purge mechanism

- Working pressure: 1.0 MPa
- Body material: Steel (Chrome-plated)
- Size of end configurations: $1/4'' - 1/2''$, $\phi 6.5 \times \phi 10$, $\phi 6.5 \times \phi 12.5$



ANTI-VIBRATION PLUG HOSE

Protects the cupla from shocks generated by vibration tools and impact tools

- Working pressure: 1.5 MPa
- Body material: Steel (Chrome-plated)
- Size of end configurations: $1/4'' - 3/8''$



INK CUPLA HOSE

Coupling with polyurethane hose for air lines

- Working pressure: 1.0 MPa
- Body material: Engineering plastics and steel
- Size of end configurations: $\phi 6.5 \times \phi 10$, $\phi 8.3 \times \phi 12.5$



INK CUPLA COIL HOSE

Coupling with polyurethane coil hose for air lines

- Working pressure: 0.7 MPa
- Body material: Engineering plastics and steel
- Size of end configurations: $\phi 5 \times \phi 8$, $\phi 6.5 \times \phi 10$



SUPER CUPLA

Light, compact for air piping connection

- Working pressure: 1.0 MPa
- Body material: Aluminum, Steel (Chrome-plated)
- Size of end configurations: $1/8'' - 1/4''$



PLASTIC CUPLA (BC TYPE)

Valveless For low pressure air piping

- Working pressure: 0.07 MPa
- Body material: POM
- Size of end configurations: $1/4'' - 5/8''$



PLASTIC CUPLA (BCC TYPE)

Valveless For low pressure air piping

- Working pressure: 0.07 MPa
- Body material: POM
- Size of end configurations: $3/8''$



CUBE CUPLA

Air supply lines to medical and/or scientific equipment

- Working pressure: 1.0 MPa
- Body material: POM
- Size of end configurations: $1/8''$, $1/4''$, $3/8''$



SP-V CUPLA

For vacuum

- Working pressure: 5.0 MPa
- Body material: Brass, Stainless steel
- Size of end configurations: $1/4'' - 3/4''$



PCV PIPE CUPLA

For connection to copper pipes

- Working pressure: 4.5 MPa
- Body material: Brass
- Size of end configurations: $5/16'' - 5/8''$



LEVER LOCK CUPLA

(METAL BODY)

For bulk flow, low pressure applications

- Working pressure: 1.5 MPa, others
- Body material: Aluminum, Brass, Stainless steel
- Size of end configurations: $3/4'' - 4''$



LEVER LOCK CUPLA

(PLASTIC BODY)

For bulk flow, low pressure applications

- Working pressure: 0.5 MPa, others
- Body material: Plastic
- Size of end configurations: $3/4'' - 1''$



SUPER HSP CUPLA

Connects hydraulic piping even with piping pressure up to 20.6 MPa

- Working pressure: 20.6 MPa
- Body material: Special steel (Nickel-plated)
- Size of end configurations: $1/4'' - 1''$



HYPER HSP CUPLA

Connects hydraulic piping even with residual pressure up to 20.6 MPa

- Working pressure: 20.6 MPa
- Body material: Special steel (Nickel-plated)
- Size of end configurations: $1/4'' - 1''$



210 CUPLA

For hydraulic pressure up to 20.6 MPa

- Working pressure: 20.6 MPa
- Body material: Special steel
- Size of end configurations: $1/4'' - 1''$



S210 CUPLA

Stainless steel cupla for high pressure up to 20.6 MPa

- Working pressure: 20.6 MPa
- Body material: Stainless steel (SUS304)
- Size of end configurations: $1/4'' - 1''$



700R CUPLA

For hydraulic pressure up to 68.6 MPa

- Working pressure: 68.6 MPa
- Body material: Special steel (Nickel-plated)
- Size of end configurations: $3/8'' - 1/2''$



MOLD CUPLA

General purpose and coolant port coupling

- Working pressure: 1.2 MPa
- Body material: Brass
- Size of end configurations: $1/8'' - 3/8''$



FLOW METER

Flow meter with special valve for mold cooling line

- Working pressure: 0.5 MPa
- Body material: Brass
- Size of end configurations: $3/8''$



MULTY CUPLA (MAS TYPE)

7.0 Mpa general purpose type

- Working pressure: 7.0 MPa
- Body material: Stainless steel
- Size of end configurations: $1/4'' - 1''$



SP CUPLA Type-A

For medium pressure general applications

- Working pressure: 7.5 MPa, others
- Body material: Brass, Stainless steel, Steel(Nickel-plated)
- Size of end configurations: 1/8" - 2"

Flow has been increased up

MAX
60%

(compared with conventional SP CUPLA)



HSP CUPLA

For hydraulic pressure from 14.0 to 20.6 MPa

- Working pressure: 20.6 MPa
- Body material: Special steel(Nickel-plated)
- Size of end configurations: 1/4" - 2"



Quick
Connect
Couplings

CUPLA
ACCESSORIES

Sleeve cover

Plastic cover for Hi Cupla Series
Sleeve covers in various colors allow for color identification of various air lines.



Dust cap

Plastic cap for Hi cupla
Dust cap prevent dust from getting inside cuplas



Protection cover

Plastic cover for Nut cupla and Full-Blow Cupla Nut Type
Protection cover wraps up the whole cupla to absorb impacts and reduce the risk of damage if the cupla accidentally strikes other components or products.



Drain cock /pressure gauge

Air line for Hi cupla series
Convenient to control drainage and pressure in air lines



Dip mold cap

Dust caps for Hi Cupla, SP Cupla Type A, and Hydraulic Cupla
Dust caps prevent dust from getting inside the fluid line and protect the sealability and life of the O-ring



Safety cap

Metal caps for Hi Cupla series, SP Cupla type A, TSP Cupla and Hydraulic Cupla



Sleeve stopper

Sleeve stopper for SP Cupla type A
Attaching the sleeve stopper after connection of socket and plug locks the sleeve of the socket and prevent unexpected disconnection.



Accessories for O-ring maintenance

Jigs & grease for replacement of O-ring for SP cupla Type A, TSP cupla and HSP cupla



Residual pressure release jig

residual pressure release metal jig



Purge adapter

Metal purge adaptor for hydraulic lines
Can be attached to hydraulic lines to purge residual pressure effectively



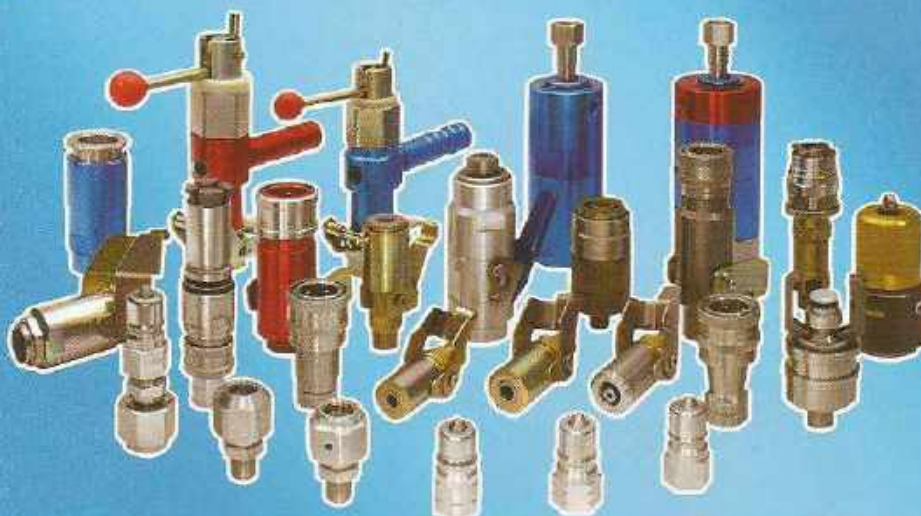
**Quick
Connect
Couplings**

**Refrigeration •
Automotive •
Air conditioning
Cupla series**



Refrigeration • Automotive • Air conditioning Cupla Series

Greatly contributes to rationalizing filling and inspection work on refrigerators, air conditioners and vehicle related devices



For large sized Center Hole Tests



For Car Air Conditioner No Leak Tests



For Condenser No Leak Tests



For Car Air Conditioner No Leak Tests



For Car Air Conditioner No Leak Tests



For Heat Exchanger No Leak Tests



For Engine Bench Tests



For Package Air Conditioner No Leak Tests



For Special Pipe Pressure Resistance and Leak Tests



For Condenser No Leak Tests



For Heat Exchanger No Leak Tests



For Condenser No Leak Tests

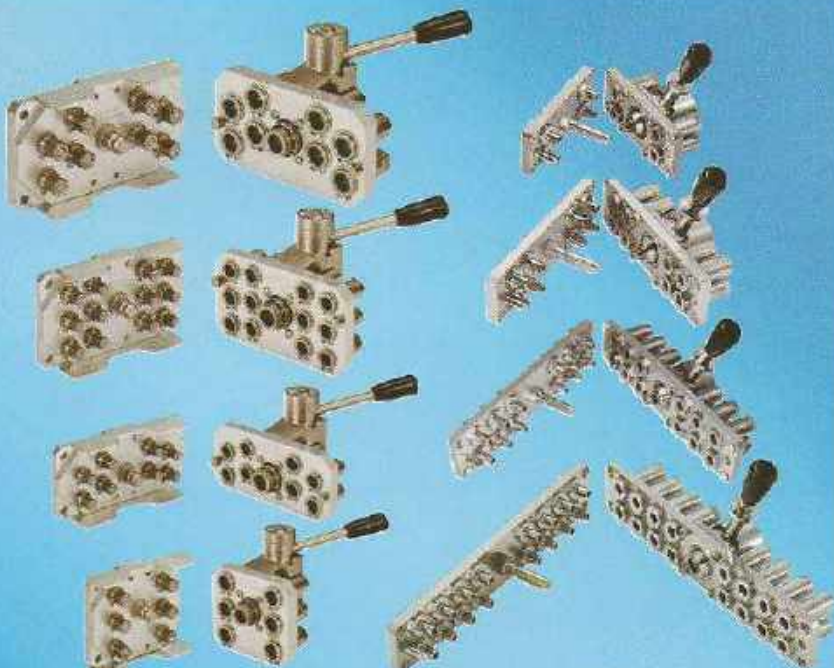
**Quick
Connect
Couplings**

MULTI CUPLA

For Multi-Port Connection

*Simultaneously connects
multiple lines for
different fluids and sizes
with a single operation.*

Contributes to increase work efficiency,
to secure reliability and safety, to
improve productivity, and to reduce cost.



LINEAR

Air Compressor/ Vacuum Pump

The Linear-motor-driven Free Piston System is not only ideal for upgrading existing system but can also be used for future design improvement.

Piezoelectric Pump

BPS/BPL/BPH/BPF

- Compact, Light weight, Durable & Quiet

As the Bimorph also acts as a diaphragm it has no motors or shafts or other troublesome mechanisms, and thus minimal vibrations and fewer breakdowns.

The Bimor is lighter, quieter and more durable than traditional pumps.

Compact
Light weight

BIMOR



BPL type



BPH type



BPF type



BPS type

Diaphragm Pump & Piston Pump

DP0102/DP0105/DP0125/DP0140

- Diaphragm Pump System/Piston Pump System

Compact
Light weight

12 V DC

DP 0140
Diaphragm
Pump
System



12 V DC

DP 0102
Diaphragm
Pump
System



12 V DC

DP 0125
Diaphragm
Pump
System



12 V/24 V
DC

DP 0105
Piston
Pump
System



Vacuum Pump VP0125

- Motor Free Piston System
Longer durability



It support a vacuum use by widely variations
A vacuum degree, flow quantity improves the twin type more

Diaphragm Pump VC0101

- Diaphragm Pump system
Compact • Light weight



Vacuum pump of newly designed diaphragm adoption the pump have two type, exclusive use of the compressor and the combined use.

Vacuum Pump VP0435A

- Motor Free Piston System
Longer durability



It supports a vacuum use by widely variations
A vacuum degree, flow quantity improves the twin type more

Diaphragm Pump VC0201/VC0301

- Diaphragm Pump system
Compact • Light weight



Compact, quite, and vibration free,
and this vacuum pump to incorporate it in an apparatus

Compact, quiet, and vibration free, the extremely reliable free piston pump will enhance your system performance and extend its operating life.

Blower Compact Type

LA-28B
LA-45B



Blower Medium Type

LA-60B
LA-80B



Blower Large Type

LA-100A
LA-120A



Blower Extra Large Type

LAM-200



Benefits Include:

Low noise

Easy maintenance

Unrivalled performance and lifetime

Waterproof case IP55

Low running temperature

No grounding work required

Long durability, energy saving, no needs oil, vibration free. In addition it is easy to maintenance.



Vacuum Tweezers

MH-100A

• Motor Free Piston System
Longer durability

One touch suck-and-release action for easy transfer of miniature components!



Easy to handle pen type tweezers

Duster function is also available

Application

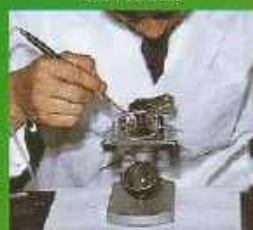
Most suitable for handling electronic parts such as ICs and LSIs. Also precise micro parts such as watches, chemicals and other small parts.



Transferring sphere objects such as balls



Assembling precision parts



Moving tiny parts



Transferring uneven parts

TIGON

Spring Balancer

TIGON Spring Balancer improves work safety & efficiency.
Capacities ranging from 0.5 – 70 kg.

Spring Balancer



MODEL	Capacity (kg)	Stroke (m)	Weight (kg)
TW-00	0.5 - 1.5	0.5	0.2
TW-0	0.5 - 1.5	1.0	0.5
TW-3	1.0 - 3.0	1.3	1.4
TW-5	2.5 - 5.0	1.3	1.5
TW-9	4.5 - 9.0	1.3	3.4
TW-15	9.0 - 15.0	1.3	3.8
TW-22	15.0 - 22.0	1.5	7.2
TW-30	22.0 - 30.0	1.5	7.6
TW-40	30.0 - 40.0	1.5	9.8
TW-50	40.0 - 50.0	1.5	10.4
TW-60	50.0 - 60.0	1.5	11.6
TW-70	60.0 - 70.0	1.5	11.8

Hose Reel Balancer series | Retractor series



MODEL	Capacity (kg)	Stroke (m)	Weight (kg)	Hose DIA (mm)
HW-0	0.5 - 1.5	1.3	1.0	ø6.5 / ø10
HW-3	1.5 - 3.0	1.3	1.7	ø6.5 / ø10
HW-5	3.0 - 5.0	1.3	1.8	ø6.5 / ø10

• Functions both as balancer and hose reel

MODEL	Capacity (kg)	Stroke (m)	Weight (kg)	MODEL	Capacity (kg)	Stroke (m)	Weight (kg)
RW-0	0.5 - 1.5	2.0	0.5	TW-1R	0.5 - 1.5	1.5	0.3
RW-3	1.0 - 3.0	2.0	0.7	• Tension easily adjustable using knob			
RW-5	2.5 - 5.0	2.0	0.9				

• Tension easily adjustable using knob



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