

KATALOG / CATALOG 2018

CDZ GmbH

Wer sind wir

Die Firma CDZ GmbH wurde im Oktober 2011 gegründet. Seitdem beliefern wir die Maschinen unserer Kunden aus aller Welt mit unseren Systemen und den dazugehörigen Komponenten, insbesondere Antriebs-technik, Kühlmittel-Gelenkschlauchsyste-me, Hochdruck-Kühl-mitteldüsen, Energieketten und komplette Zentral-schmiersysteme. Unser Firmensitz ist in Neuss (bei Düsseldorf).

Was machen wir

Als Engineering-orientierter OEM&ODM Spezialist bieten wir auch verschiedenste Zeichnungsteile und Service auf dem europäischen Markt.

Die Serienfertigung wird durch unsere Hauptproduktion und Partnerfirmen in Fernost zuverlässig durchgeführt. Unsere Hauptproduktion ermöglicht es uns, Ihnen gewünschte Bauteile oder komplette Produkte zu wettbewerbsfähigen Preisen anbieten zu können. Unsere Hauptproduktion ist nach ISO 9001:2008 zertifiziert. Durch qualifizierte und erfahrene Ingenieure vor Ort überprüfen wir ständig die Qualität der Bauteile und die Lieferfristen. Durch unser Lager in Deutschland sichern wir die Lieferfähigkeit und Genauigkeit. Sowohl der deutsche und europäische industrielle Mittelstand als auch große Industrieunternehmen und internationale Konzerne vertrauen unserem Qualitätsstandard.

Ihre Vorteile

Durch unser Lager in Deutschland sichern wir die Lieferfähigkeit und Genauigkeit. Der deutsche und europäische industrielle Mittelstand, sowie große Industrieunternehmen und internationale Konzerne vertrauen unserem Qualitätsstandard. Insb. durch Online-Shop wird der Bestellungsprozess vereinfacht, dabei sparen wir Ihnen größtmöglich die Zeit und Kosten.

Ein Probebauteil oder ein Muster liefern wir Ihnen gerne, um Sie von der Qualität und der Leistung zu überzeugen.

Wir hoffen Ihr Interesse geweckt zu haben und stehen für Fragen jederzeit zur Verfügung.

Who are we

CDZ GmbH was established in October 2011. Since then we supply our customers' machines from all around the world with our systems and associated components, especially, power train engineering, adjustable coolant hoses, high-pressure coolant nozzles, cable chain systems and also complete centralized lubrication systems. We expert in working on the projects which located in Neuss (near Düsseldorf in Germany).

What can we do

We are also a high-tech enterprise that provides one stop service including product R&D, mass production, sale and after-sales service. Reliable quality, stable function, timely and effective service is our permanent object.

The serial production will be accomplished reliably by our main production and associated companies in the Far East. It is worth to be mentioned that our main production can provide the competitive price for your required components and complete product line. Our main production has been certified to ISO 9001:2008. As support by local qualified and experienced engineers we could check the components and terms of delivery constantly. As support by our warehouse in Germany we could guarantee deliverability accuracy and reliability. The German and European industrial middle class companies, as well as large industrial companies and international corporations trust our quality standard.

Your Benifit

As support by our warehouse in Germany we could guarantee deliverability accuracy and reliability. The German and European industrial middle class companies, as well as large industrial companies and international corporations trust our quality standard. Via online shop the ordering process is simplified specifically, we save you the time and cost as much as possible.

We are pleasure to provide the components or samples for testing and to be confident that your requirement will be met by the quality and performance of our products.

We hope that we have stimulated your interest and will remain available for any further questions.

Kühlmittelschlauchsystem Adjustable Coolant Hose System



Das JETON Kühlmittelschlauchsystem ist hervorragend für die Beförderung von Kühlschmiermitteln (Luft, Wasser, Öl und andere Medien) bei Prozessen wie Fräsen, Bohren, Sägen, Senken, Schleifen, Gewindeschneiden usw. geeignet.

Das Kühlmittelgelenkschlauchsystem wird in 5 Größen angeboten: 1/4", 3/8", 1/2", 3/4" und 2 1/2". Die säurebeständige Version ist in den Größen 1/4", 3/8" und 1/2" lieferbar.

Aufgrund der Flexibilität bietet das Schlauchsystem eine große Bandbreite an Kombinationsmöglichkeiten von Düsen, Ventilen, Anschlüsse, Y-Verbindungen und Zubehör.

Adjustable Coolant Hoses can be used for air or for water/oil supply to metal processing machinery.

Length and angle can be freely adjusted, suitable for most fluids (liquids and gases), hose orifice can be changed as needed.

Five kinds of orifice inner diameter are available: 1/4", 3/8", 1/2", 3/4", 2 1/2",

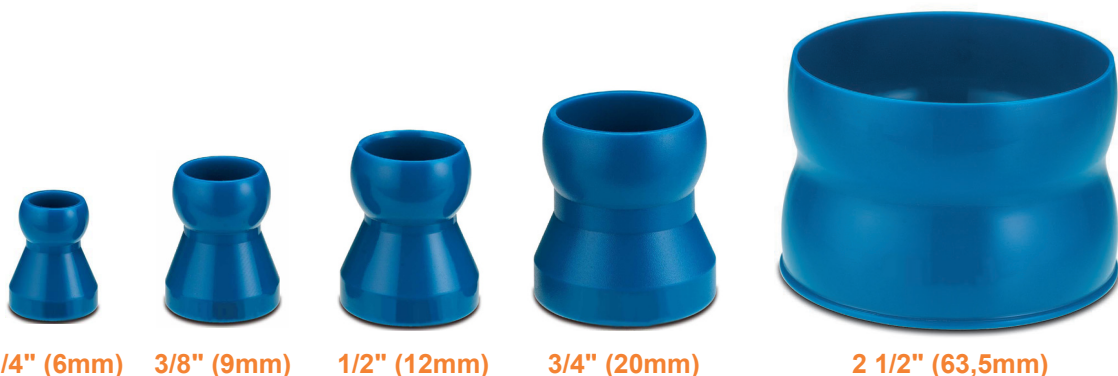
The acid resistant hose system with orifice inner diameter 1/4", 3/8", 1/2" can also be delivered.

Produktvorteile

- Hochwertiges Material aus DuPont Delrin (POM), resistent gegen die meisten Chemikalien und Lösungsmittel
- Hohe Biegefestigkeit und Formstabilität
- Keine Verengung des Durchmessers nach Biegung, keine Knicke und gute Ermüdungsfestigkeit
- Kein Beschädigungsrisiko für das Werkzeug
- Nicht leitfähiger Werkstoff, optimal für Funkenerodieren (EDM)

Product Advantages

- *Made using superior POM plastic steel; is strongly resistant to oils and chemicals.*
- *Adjustable Coolant Hose is highly pliable; it holds its shape well and will not spring back.*
- *Bending hose will not reduce inner diameter; hose will not pinch or fatigue.*
- *Adjustable Coolant Hose will not damage cutting blades if there is accidental contact.*
- *Adjustable Coolant Hose dose not conduct electricity and is suitable for use on electrical discharge (EDM) machines.*



1/4" (6mm)

3/8" (9mm)

1/2" (12mm)

3/4" (20mm)

2 1/2" (63,5mm)

Technische Daten / Technical Specification

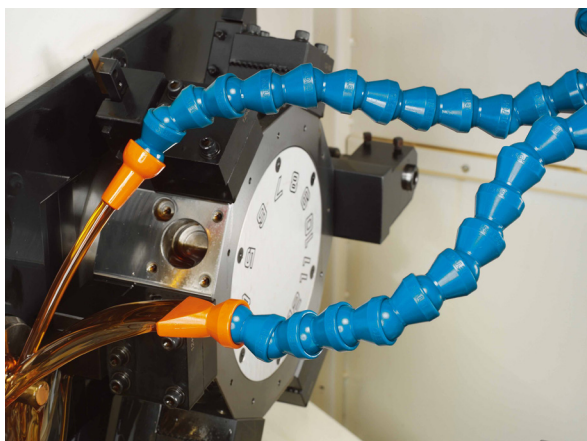
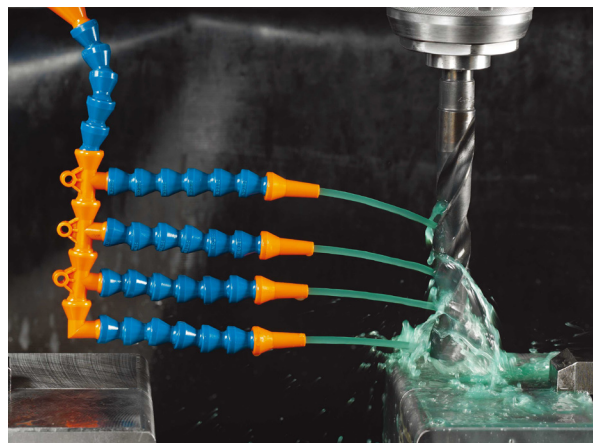
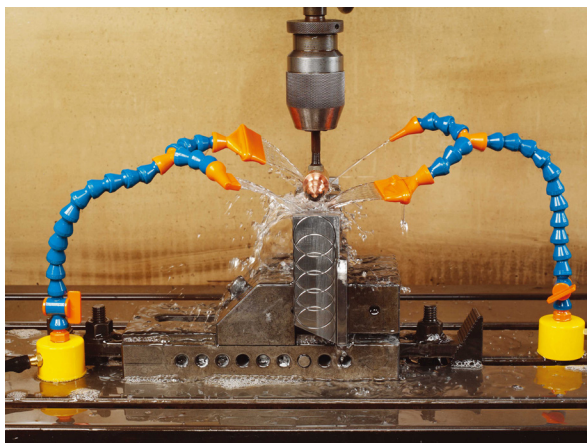
Durchmesser Diameter Ø	
1/4" System	Ø 6 mm
3/8" System	Ø 9 mm
1/2" System	Ø 12 mm
3/4" System	Ø 20 mm
2 1/2" System	Ø 63,5 mm

Druck und Durchflussmenge Pressure and Flow Characteristics		
1/4" System	1,5 - 3,5 bar	900 Liter/ Stunde 900 Liter/ Hour
3/8" System	1,5 - 3,5 bar	1500 Liter/ Stunde 1500 Liter/ Hour
1/2" System	1,37 - 3,5 bar	1700 Liter/ Stunde 1700 Liter/ Hour
3/4" System	0,69 - 2,5 bar	1900 Liter/ Stunde 1900 Liter/ Hour

Thermische Eigenschaften Thermal Characteristics	
Schmelzpunkt Metting Point	165°C
Max. Betriebstemperatur Maximum Use Temperature	75°C

Geeignete Flüssigkeit Suitable Fluids	
Äthylalkohol / Alcohols	O
Azeton / Acetone	O
Spülmittel / Commercial Dishdetergents	O
Benzin / Gasoline	O
Fette / Greases	O
Lack-Lösungsmittel / Laquer Solvents	O
Öle / Oils	O
Natriumhydroxid / Sodium Hydroxide	O
Insektizid / Insecticide	O
Bremsöle / Break Oils	O
Säuren / Acids	X
Alkali Stark / Bases, Strong	X
Ammonium Hydroxid / Ammonium Hydroxide	X
Hypochlorit Lon Lösung / Hypochlorite Lon Solutions	X
Natriumhypochlorit / Sodium Hypochlorite	X

Anwendung / Use



1/4" System 1/4" System

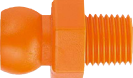
Produkt Product	Artikel Item	Inhalt Content
	82020	1/4" Schlauch Set 10 St. 1/4" Segment - 2 Sets 1/16", 1/8", 1/4" Düse 1/4" & 1/8" Male PT Anschluss 1/4" Hose Kit 10 pcs of 1/4" Segment - 2 sets 1/16", 1/8", 1/4" Nozzles 1/4" & 1/8" Male PT Connectors
	82020A	1/4" Schlauch Set 10 Stk 1/4" Segment - 2 Sets 1/16", 1/8", 1/4" Düse 1/4" & 1/8" Male NPT Anschluss 1/4" Hose Kit 10 pcs of 1/4" Segment - 2 sets 1/16", 1/8", 1/4" Nozzles 1/4" & 1/8" Male NPT Connectors
	82220	1/4" Verlängerungselement Set 1/4" Verlängerungselement, 4 St. 1/4" Elementshalterung, 4 St. 1/4" Extended Element Kit 1/4" Extended Element, 4 pcs 1/4" Element Clamp, 4 pcs
	82021	1/4" Segment Set 15 CM, 10 St. - 2 Sets 1/4" Segment Pack 15 CM, 10 pcs - 2 sets
	82051 82071	1/4" Segment 1524 CM Rolle / 1524 CM Coil 2500 CM Rolle / 2500 CM Coil
	62423	1/4" Kreis Düse Set 15 St. 1/4" Seite Düse 1 St. 1/4" Verschlusskappe 1/4" Circle Flow Nozzle Kit 15 pcs of 1/4" Side Flow Nozzles 1 pc of 1/4" End Cap
	82221 82241	1/4" Verlängerungselement, 4 St. 1/4" Extended Element, 4 pcs 20 St. 20 pcs
	82222 82242	1/4" Elementshalterung, 4 St. 1/4" Element Clamp, 4 pcs 20 St. 20 pcs
	82326	1/4" 90° Düse Set / Nozzle Kit 1/16" 90° Düse / Nozzle 1/8" 90° Düse / Nozzle 1/4" 90° Düse / Nozzle 1/4" 90° Duschdüse / Spray Bar Nozzle
	82022 82042	1/16" Runddüse, 4 St. 1/16" Round Nozzle, 4 pcs 50 St. 50 pcs
	82023 82043	1/8" Runddüse, 4 St. 1/8" Round Nozzle, 4 pcs 50 St. 50 pcs
	82024 82044	1/4" Runddüse, 4 St. 1/4" Round Nozzle, 4 pcs 50 St. 50 pcs

Produkt Product	Artikel Item	Inhalt Content
	82223 82243	1/16" 90° Düse, 4 St. 1/16" 90° Nozzle, 4 pcs 20 St. 20 pcs
	82224 82244	1/8" 90° Düse, 4 St. 1/8" 90° Nozzle, 4 pcs 20 St. 20 pcs
	82225 82245	1/4" 90° Düse, 4 St. 1/4" 90° Nozzle, 4 pcs 20 St. 20 pcs
	82226 82246	1/4" 90° Duschdüse, 2 St. 1/4" 90° Nozzle, 2 pcs 20 St. 20 pcs
	82017 82037	3/8" Flachdüse, 2 St. 3/8" Flat Nozzle, 2 pcs 20 St. 20 pcs
	82027 82047	1" Flachdüse, 2 St. 1" Flat Nozzle, 2 pcs 20 St. 20 pcs
	82054 82074	1/4" Flach Slot 40 Düse, 2 St. 1/4" Flat Slot 40 Nozzle, 2 pcs 20 St. 20 pcs
	82055 82075	1/4" Flach Slot 60 Düse, 2 St. 1/4" Flat Slot 60 Nozzle, 2 pcs 20 St. 20 pcs
	82056 82076	1/4" Flach Slot 7 Loch Düse, 2 St. 1/4" Flat Slot 7 Hole Nozzle, 2 pcs 20 St. 20 pcs
	82057 82077	1/4" Flach Slot 5 Loch Düse, 2 St. 1/4" Flat Slot 5 Hole Nozzle, 2 pcs 20 St. 20 pcs
	82053 82073	1" Schleifdüse, 2 St. 1" Straight Flow Nozzle, 2 pcs 20 St. 20 pcs
	82025 82035	1/8" PT Anschluss, 4 St. 1/8" PT Connector, 4 pcs 50 St. 50 pcs
	82025A 82035A	1/8" NPT Anschluss, 4 St. 1/8" NPT Connector, 4 pcs 50 St. 50 pcs
	82026 82036	1/4" PT Anschluss, 4 St. 1/4" PT Connector, 4 pcs 50 St. 50 pcs

Produkt Product	Artikel Item	Inhalt Content
	82026A 82036A	1/4" NPT Anschluss, 4 St. 1/4" NPT Connector, 4 pcs 50 St. 50 pcs
	82029 82039	1/4" PT Anschluss, 4 St. 1/4" PT Connector, 4 pcs 50 St. 50 pcs
	82028 82038	1/4" Y Verbindungstück, 2 St. 1/4" Y Fitting, 2 pcs 20 St. 20 pcs
	82011 82031	1/4" Kupplung, 4 St. 1/4" Double Socket, 4 pcs 20 St. 20 pcs
	82012 82032	1/4" Reduzierung für 1/8" NPT, 4 St. 1/4" Socket to 1/8" NPT, 4 pcs 20 St. 20 pcs
	82052 82072	1/4" Innen PT Anschluss, 4 St. 1/4" Female PT Connector, 4 pcs 50 St. 50 pcs
	82052F 82072F	1/4" Innen PF Anschluss, 4 St. 1/4" Female PF Connector, 4 pcs 50 St. 50 pcs
	82062 82082	1/4" Innen NPTF Anschluss, 4 St. 1/4" F. NPTF Connector, 4 pcs 50 St. 50 pcs
	82013 82033	5/8" Innen UNF Anschluss, 4 St. 5/8" F. UNF Connector, 4 pcs 20 St. 20 pcs
	82014 82034	7/16" Innen UNF Anschluss, 4 St. 7/16" F. UNF Connector, 4 pcs 20 St. 20 pcs
	62420 62430	1/4" L Verbindungstück, 2 St. 1/4" L Fitting, 2 pcs 20 St. 20 pcs
	62426 62436	1/4" T Verbindungstück, 2 St. 1/4" T Fitting, 2 pcs 20 St. 20 pcs
	62422 62442	1/4" Seite Düse, 4 St. 1/4" Side Flow Nozzle, 4 pcs 20 St. 20 pcs
	62424 62444	1/4" Verschlusskappe, 4 St. 1/4" End Cap, 4 pcs 20 St. 20 pcs
	82227 82247	2 1/2" Gelenkdüse 75, 2 St. 2 1/2" Swivel Nozzle 75, 2 pcs 20 St. 20 pcs

Produkt Product	Artikel Item	Inhalt Content
	82228 82248	1/4" Gelenkdüse 40, 2 St. 1/4" Swivel Nozzle 40, 2 pcs 20 St. 20 pcs
	82229 82249	1/4" Gelenkdüse 60, 2 St. 1/4" Swivel Nozzle 60, 2 pcs 20 St. 20 pcs
	82721A 82731A	1/4" NPT Male Nippel Ventil, 2 St. 1/4" NPT Male Nipple Valve, 2 pcs 10 St. 10 pcs
	82722 82732	1/4" Anschlussventil, 2 St. 1/4" Connection Valve, 2 pcs 10 St. 10 pcs
	82723 82733	1/4" Male PT Ventil, 2 St. 1/4" Male PT Valve, 2 pcs 10 St. 10 pcs
	82723A 82733A	1/4" Male NPT Ventil, 2 St. 1/4" Male NPT Valve, 2 pcs 10 St. 10 pcs
	82724 82744	1/4" Female PT Ventil, 2 St. 1/4" Female PT Valve, 2 pcs 10 St. 10 pcs
	82724A 82744A	1/4" Female NPT Ventil, 2 St. 1/4" Female NPT Valve, 2 pcs 10 St. 10 pcs
	82725 82745	1/4" Rückschlagventil, 2 St. 1/4" In-Line Check Valve, 2 pcs 10 St. 10 pcs
	52400	1/4" Modular Verteiler System 1/4" L-Verbindungstück, 1 St. 1/4" Befestigungsplatte, 1 St. 1/4" T-Verbindungstück, 3 St. Verschraubung, 3 St. 1/4" Modular Manifold System 1/4" Elbow Fitting, 1 pcs 1/4" Manifold Bracket, 1 pcs 1/4" T Fitting, 3 pcs Mounting Screws, 3 pcs
	52410	1/4" Modular Verteiler mit Ventil System 1/4" Modular Verteiler - 1 Set 1/4" Anschlussventil - 5 St. 1/4" Main Flow Control Manifold System 1/4" Modular Manifold - 1 set 1/4" Connection Valve - 5 pcs
	52416	1/4" Befestigungsplatte, 2 St. 1/4" Manifold Bracket - 2 pcs
	26171	1/4" Montagezange 1/4" Hose Assembly Pliers

3/8" System 3/8" System

Produkt Product	Artikel Item	Inhalt Content
	83030	3/8" Schlauch Set 8 St. 3/8" Segment - 2 Sets 3/8" Düse 3/8" Male PT Anschluss 3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 3/8" Nozzles 3/8" Male PT Connectors
	83030A	3/8" Schlauch Set 8 St. 3/8" Segment - 2 Sets 3/8" Düse 3/8" Male NPT Anschluss 3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 3/8" Nozzles 3/8" Male NPT Connectors
	83430	3/8" Schlauch Set 8 St. 3/8" Segment - 2 Sets 1/4", 3/8", 1/2" Düse 3/8" & 1/2" Male PT Anschluss 3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male PT Connectors
	83430A	3/8" Schlauch Set 8 St. 3/8" Segment - 2 Sets 1/4", 3/8", 1/2" Düse 3/8" & 1/2" Male NPT Anschluss 3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male NPT Connectors
	83031	3/8" Segment Set 14.5 CM, 8 St. - 2 Sets 3/8" Segment Pack 14.5 CM, 8 pcs - 2 sets
	83051 83091	3/8" Segment 762 CM Rolle / 762 CM Coil 1524 CM Rolle / 1524 CM Coil
	83032 83052	1/4" Runddüse, 4 St. 1/4" Round Nozzle, 4 pcs 50 St. 50 pcs
	83033 83053	3/8" Runddüse, 4 St. 3/8" Round Nozzle, 4 pcs 50 St. 50 pcs
	83034 83054	1/2" Runddüse, 4 St. 1/2" Round Nozzle, 4 pcs 50 St. 50 pcs
	83026 83046	1/4" PT Anschluss, 4 St. 1/4" PT Connector, 4 pcs 50 St. 50 pcs
	83035 83055	3/8" PT Anschluss, 4 St. 3/8" PT Connector, 4 pcs 50 St. 50 pcs

Produkt Product	Artikel Item	Inhalt Content
	83035A 83055A	3/8" NPT Anschluss, 4 St. 3/8" NPT Connector, 4 pcs 50 St. 50 pcs
	83036 83056	1/2" PT Anschluss, 4 St. 1/2" PT Connector, 4 pcs 50 St. 50 pcs
	83036A 83056A	1/2" NPT Anschluss, 4 St. 1/2" NPT Connector, 4 pcs 50 St. 50 pcs
	83037 83057	1 1/4" Flachdüse, 2 St. 1 1/4" Flat Nozzle, 2 pcs 20 St. 20 pcs
	83038 83058	3/8" Y Verbindungstück, 2 St. 3/8" Y Fitting, 2 pcs 20 St. 20 pcs
	83011 83041	3/8" Kupplung, 4 St. 3/8" Double Socket, 4 pcs 20 St. 20 pcs
	83725 83745	3/8" Rückschlagventil, 2 St. 3/8" In-Line Check Valve, 2 pcs 10 St. 10 pcs
	83651 83851	3/8" zu 1/4" Adapter, 2 St. 3/8" to 1/4" Adapter, 2 pcs 20 St. 20 pcs
	83722 83742	3/8" Anschlussventil, 2 St. 3/8" Connection Valve, 2 pcs 10 St. 10 pcs
	83723 83743	3/8" Male PT Ventil, 2 St. 3/8" Male PT Valve, 2 pcs 10 St. 10 pcs
	83723A 83743A	3/8" Male NPT Ventil, 2 St. 3/8" Male NPT Valve, 2 pcs 10 St. 10 pcs
	83724 83744	3/8" Female PT Ventil, 2 St. 3/8" Female PT Valve, 2 pcs 10 St. 10 pcs
	83724A 83744A	3/8" Female NPT Ventil, 2 St. 3/8" Female NPT Valve, 2 pcs 10 St. 10 pcs
	26176	3/8" Montagezange 3/8" Hose Assembly Pliers

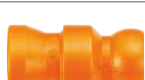
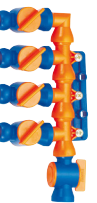
1/2" System 1/2" System

Produkt Product	Artikel Item	Inhalt Content
	84040	1/2" Schlauch Set 6 St. 1/2" Segment - 2 Sets 1/4", 3/8", 1/2" Düse 3/8" & 1/2" Male PT Anschluss 1/2" Hose Kit 6 pcs of 1/2" Segment - 2 sets 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male PT Connectors
	84040A	1/2" Schlauch Set 6 St. 1/2" Segment - 2 Sets 1/4", 3/8", 1/2" Düse 3/8" & 1/2" Male NPT Anschluss 1/2" Hose Kit 6 pcs of 1/2" Segment - 2 sets 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male NPT Connectors
	84440	1/2" Verlängerungselement Set 1/2" Verlängerungselement, 4 St. 1/2" Elementshalterung, 4 St. 1/2" Extended Element Kit 1/2" Extended Element, 4 pcs 1/2" Element Clamp, 4 pcs
	84041	1/2" Segment Set 13.5 CM, 6 St. - 2 Sets 1/2" Segment Pack 13.5 CM, 6 pcs - 2 sets
	84081 84091	1/2" Segment 1524 CM Rolle / 1524 CM Coil 2500 CM Rolle / 2500 CM Coil
	64643	1/2" Kreis Düse Set 15 St. 1/2" Seite Düse 1 St. 1/2" Verschlusskappe 1/2" Circle Flow Nozzle Kit 15 pcs of 1/2" Side Flow Nozzles 1 pc of 1/2" End Cap
	84441 84461	1/2" Verlängerungselement, 4 St. 1/2" Extended Element, 4 pcs 20 St. 20 pcs
	84442 84462	1/2" Elementshalterung, 4 St. 1/2" Element Clamp, 4 pcs 20 St. 20 pcs
	84346	1/4" 90° Düse Set / Nozzle Kit 1/4" 90° Düse / Nozzle 3/8" 90° Düse / Nozzle 1/2" 90° Düse / Nozzle 1/2" 90° Duschküse / Spray Bar Nozzle
	84044 84064	1/4" Runddüse, 4 St. 1/4" Round Nozzle, 4 pcs 50 St. 50 pcs
	84042 84062	3/8" Runddüse, 4 St. 3/8" Round Nozzle, 4 pcs 50 St. 50 pcs
	84043 84063	1/2" Runddüse, 4 St. 1/2" Round Nozzle, 4 pcs 50 St. 50 pcs

	84443 84463	1/4" 90° Düse, 4 St. 1/4" 90° Nozzle, 4 pcs 20 St. 20 pcs
	84444 84464	3/8" 90° Düse, 4 St. 3/8" 90° Nozzle, 4 pcs 20 St. 20 pcs
	84445 84465	1/2" 90° Düse, 4 St. 1/2" 90° Nozzle, 4 pcs 20 St. 20 pcs
	84446 84466	1/2" 90° Duschküse, 2 St. 1/2" 90° Spray Nozzle, 2 pcs 20 St. 20 pcs
	84054 84074	1/2" Flach Slot 40 Düse, 2 St. 1/2" Flat Slot 40 Nozzle, 2 pcs 20 St. 20 pcs
	84055 84075	1/2" Flach Slot 60 Düse, 2 St. 1/2" Flat Slot 60 Nozzle, 2 pcs 20 St. 20 pcs
	84056 84076	1/2" Flach Slot 7 Loch Düse, 2St. 1/2" Flat Slot 7 Hole Nozzle, 2pcs 20 St. 20 pcs
	84057 84077	1/2" Flach Slot 5 Loch Düse, 2St. 1/2" Flat Slot 5 Hole Nozzle, 2pcs 20 St. 20 pcs
	84058 84078	1 1/4" Schleifdüse, 2 St. 1 1/4" Straight Flow Nozzle, 2 pcs 20 St. 20 pcs
	84059 84079	1 5/8" Schleifdüse, 2 St. 1 5/8" Straight Flow Nozzle, 2 pcs 20 St. 20 pcs
	84047 84067	1 1/4" Flachdüse, 2 St. 1 1/4" Flat Nozzle, 2 pcs 20 St. 20 pcs
	84050 84070	1 3/4" Flachdüse, 2 St. 1 3/4" Flat Nozzle, 2 pcs 20 St. 20 pcs
	84052 84072	2 1/2" Flachdüse, 2 St. 2 1/2" Flat Nozzle, 2 pcs 20 St. 20 pcs
	84447 84467	2 1/2" Gelenkduschküse 75, 2 St. 2 1/2" Swivel Nozzle 75, 2 pcs 20 St. 20 pcs

1/2" System 1/2" System

Produkt Product	Artikel Item	Inhalt Content
	84046 84066	3/8" PT Anschluss, 4 St. 3/8" PT Connector, 4 pcs 50 St. 50 pcs
	84046A 84066A	3/8" NPT Anschluss, 4 St. 3/8" NPT Connector, 4 pcs 50 St. 50 pcs
	84045 84065	1/2" PT Anschluss, 4 St. 1/2" PT Connector, 4 pcs 50 St. 50 pcs
	84045A 84065A	1/2" NPT Anschluss, 4 St. 1/2" NPT Connector, 4 pcs 50 St. 50 pcs
	84048 84068	1/2" Y Verbindungstück, 2 St. 1/2" Y Fitting, 2 pcs 20 St. 20 pcs
	84049 84069	1/2" zu 1/4" Y Adapter, 2 St. 1/2" to 1/4" Y Adapter, 2 pcs 20 St. 20 pcs
	84651 84851	1/2" zu 1/4" Adapter, 2 St. 1/2" to 1/4" Adapter, 2 pcs 20 St. 20 pcs
	84011 84031	1/2" Kupplung, 4 St. 1/2" Double Socket, 4 pcs 20 St. 20 pcs
	64620 64640	1/2" L Verbindungstück, 2 St. 1/2" L Fitting, 2 pcs 20 St. 20 pcs
	64626 64646	1/2" T Verbindungstück, 2 St. 1/2" T Fitting, 2 pcs 20 St. 20 pcs
	64622 64642	1/2" Seite Düse, 4 St. 1/2" Side Flow Nozzle, 4 pcs 20 St. 20 pcs
	64624 64644	1/2" Verschlusskappe, 4 St. 1/2" End Cap, 4 pcs 20 St. 20 pcs
	84722 84742	1/2" Anschlussventil, 2 St. 1/2" Connection Valve, 2 pcs 10 St. 10 pcs
	84723 84743	1/2" Male PT Ventil, 2 St. 1/2" Male PT Valve, 2 pcs 10 St. 10 pcs

Produkt Product	Artikel Item	Inhalt Content
	84723A 84743A	1/2" Male NPT Ventil, 2 St. 1/2" Male NPT Valve, 2 pcs 10 St. 10 pcs
	84724 84744	1/2" Female PT Ventil, 2 St. 1/2" Female PT Valve, 2 pcs 10 St. 10 pcs
	84724A 84744A	1/2" Female NPT Ventil, 2 St. 1/2" Female NPT Valve, 2 pcs 10 St. 10 pcs
	84725 84745	1/2" Rückschlagventil, 2 St. 1/2" In-Line Check Valve, 2 pcs 10 St. 10 pcs
	84013 84033	3/8" SAE Flach Schraubenmutter Adapter (5/8"-18 Gewinde), 4 St. 3/8" SAE Flare Nut Adapter (5/8"-18 Thread), 4 pcs 20 St. 20 pcs
	54400	1/2" Modular Verteiler System 1/2" L-Verbindungstück - 1 St. 1/2" Befestigungsplatte - 1 St. 1/2" T-Verbindungstück - 3 St. Verschraubung - 3 St. 1/2" Modular Manifold System 1/2" Elbow Fitting - 1 pcs 1/2" Manifold Bracket - 1 pcs 1/2" T Fitting - 3 pcs Mounting Screws - 3 pcs
	54410	1/2" Modular Verteiler mit Ventil System 1/2" Modular Verteiler, 1 Set 1/2" Anschlussventil, 5 St. 1/2" Main Flow Control Manifold System 1/2" Modular Manifold, 1 set 1/2" Connection Valve, 5 pcs
	54416	1/2" Befestigungsplatte, 2 St. 1/2" Manifold Bracket, 2 pcs
	26172	1/4" Montagezange 1/4" Hose Assembly Pliers

3/4" System 3/4" System

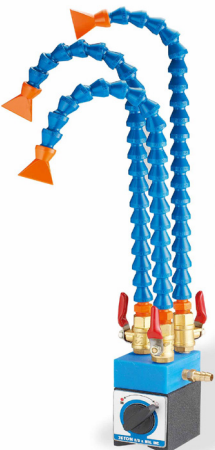
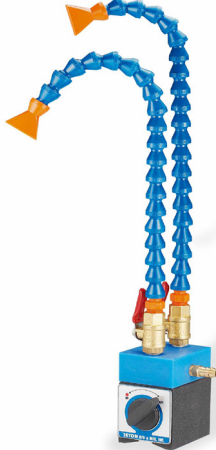
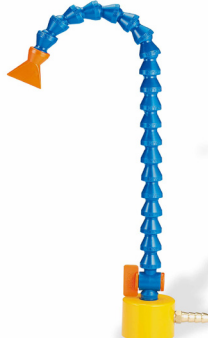
Produkt Product	Artikel Item	Inhalt Content
	86060	3/4" Schlauch Set 6 St. 3/4" Segment - 2 Sets 5/8 & 3/4" Düse 3/4" Male PT Anschluss 3/4" Hose Kit 6 pcs of 3/4" Segment - 2 sets 5/8 & 3/4" Nozzles 3/4" Male PT Connectors
	86060A	3/4" Schlauch Set 6 St. 3/4" Segment - 2 Sets 5/8 & 3/4" Düse 3/4" Male NPT Anschluss 3/4" Hose Kit 6 pcs of 3/4" Segment - 2 sets 5/8 & 3/4" Nozzles 3/4" Male NPT Connectors
	86061	3/4" Segment Set 15 CM, 6 St. - 2 Sets 3/4" Segment Pack 15 CM, 6 pcs - 2 sets
	86081 86091	3/4" Segment 1524 CM Rolle / 1524 CM Coil 2500 CM Rolle / 2500 CM Coil
	86063 86073	5/8" Runddüse, 4 St. 5/8" Round Nozzle, 4 pcs 50 St. 50 pcs
	86062 86072	3/4" Runddüse, 4 St. 3/4" Round Nozzle, 4 pcs 50 St. 50 pcs
	86064 86074	3/4" PT Anschluss, 4 St. 3/4" PT Connector, 4 pcs 50 St. 50 pcs
	86064A 86074A	3/4" NPT Anschluss, 4 St. 3/4" NPT Connector, 4 pcs 50 St. 50 pcs
	86021	3/4" Befestigungstück, 2 St. 3/4" Fixed Mount, 2 pcs
	86022	3/4" Magnetfuss, 1 St. 3/4" Magnetic Base, 1 pc
	86023	3/4" L Schutz Montagestück, 2St. 3/4" Shield Mounting Elbow, 2pcs
	86067 86077	3" Flachdüse, 2 St. 3" Flat Nozzle, 2 pcs 20 St. 20 pcs
	86068 86078	3/4" Y Verbindungstück, 2 St. 3/4" Y Fitting, 2 pcs 20 St. 20 pcs

Produkt Product	Artikel Item	Inhalt Content
	86069 86079	3/4" zu 1/2" Y Verbindung, 2 St. 3/4" to 1/2" Y Fitting, 2 pcs 20 St. 20 pcs
	86051 86071	3/4" zu 1/2" Adapter, 2 St. 3/4" to 1/2" Adapter, 2 pcs 20 St. 20 pcs
	86011 86041	3/4" Kupplung, 4 St. 3/4" Double Socket, 4 pcs 20 St. 20 pcs
	66620 66640	3/4" L Verbindungstück, 2 St. 3/4" L Fitting, 2 pcs 20 St. 20 pcs
	86722 86742	3/4" Anschlussventil, 2 St. 3/4" Connection Valve, 2 pcs 10 St. 10 pcs
	86723 86743	3/4" Male PT Ventil, 2 St. 3/4" Male PT Valve, 2 pcs 10 St. 10 pcs
	86723A 86743A	3/4" Male NPT Ventil, 2 St. 3/4" Male NPT Valve, 2 pcs 10 St. 10 pcs
	86724 86744	3/4" Female PT Ventil, 2 St. 3/4" Female PT Valve, 2 pcs 10 St. 10 pcs
	86724A 86744A	3/4" Female NPT Ventil, 2 St. 3/4" Female NPT Valve, 2 pcs 10 St. 10 pcs
	26177	3/4" Montagezange 3/4" Hose Assembly Pliers

Gelenkschlauch Set mit Ventil Adjustable Coolant Hose & Valves

Produkt Product	Artikel Item	Inhalt Content
 1/4" - 36cm Gelenkschlauch Set (Male) 1/4" - 36cm Length Hose Kit (Male)	62720	1/4" Male PT oder NPT Ventil, 1 St. 1/4" Segment, 20 St. 1/16", 1/8" oder 1/4" Runddüse, 1 St. 1/4" Male PT or NPT Valve, 1 pc 1/4" Segment, 20 pcs 1/16", 1/8" or 1/4" Round Nozzle, 1 pc
 1/4" - 36cm Gelenkschlauch Set (Female) 1/4" - 36cm Length Hose Kit (Female)	62721	1/4" Female PT oder NPT Ventil, 1 St. 1/4" Segment, 20 St. 1/16", 1/8" oder 1/4" Runddüse, 1 St. 1/4" Female PT or NPT Valve, 1 pc 1/4" Segment, 20 pcs 1/16", 1/8" or 1/4" Round Nozzle, 1 pc
 3/8" - 36cm Gelenkschlauch Set (Male) 3/8" - 36cm Length Hose Kit (Male)	63720	3/8" Male PT oder NPT Ventil, 1 St. 3/8" Segment, 16 St. 1/4", 3/8" oder 1/2" Runddüse, 1 St. 3/8" Male PT or NPT Valve, 1 pc 3/8" Segment, 16 pcs 1/4", 3/8" or 1/2" Round Nozzle, 1 pc
 3/8" - 36cm Gelenkschlauch Set (Female) 3/8" - 36cm Length Hose Kit (Female)	63721	3/8" Female PT oder NPT Ventil, 1 St. 3/8" Segment, 16 St. 1/4", 3/8" oder 1/2" Runddüse, 1 St. 3/8" Female PT or NPT Valve, 1 pc 3/8" Segment, 16 pcs 1/4", 3/8" or 1/2" Round Nozzle, 1 pc
 1/2" - 35cm Gelenkschlauch Set (Male) 1/2" - 35cm Length Hose Kit (Male)	64720	1/2" Male PT oder NPT Ventil, 1 St. 1/2" Segment, 12 St. 1/4", 3/8" oder 1/2" Runddüse, 1 St. 1/2" Male PT or NPT Valve, 1 pc 1/2" Segment, 12 pcs 1/4", 3/8" or 1/2" Round Nozzle, 1 pc
 1/2" - 35cm Gelenkschlauch Set (Female) 1/2" - 35cm Length Hose Kit (Female)	64721	1/2" Female PT oder NPT Ventil, 1 St. 1/2" Segment, 12 St. 1/4", 3/8" oder 1/2" Runddüse, 1 St. 1/2" Female PT or NPT Valve, 1 pc 1/2" Segment, 12 pcs 1/4", 3/8" or 1/2" Round Nozzle, 1 pc
 3/4" - 40cm Gelenkschlauch Set (Male) 3/4" - 40cm Length Hose Kit (Male)	66720	3/4" Male PT oder NPT Ventil, 1 St. 3/4" Segment, 12 St. 5/8" oder 3/4" Runddüse, 1 St. 3/4" Male PT or NPT Valve, 1 pc 3/4" Segment, 12 pcs 5/8" or 3/4" Round Nozzle, 1 pc
 3/4" - 40cm Gelenkschlauch Set (Female) 3/4" - 40cm Length Hose Kit (Female)	66721	3/4" Female PT oder NPT Ventil, 1 St. 3/4" Segment, 12 St. 5/8" oder 3/4" Runddüse, 1 St. 3/4" Female PT or NPT Valve, 1 pc 3/4" Segment, 12 pcs 5/8" or 3/4" Round Nozzle, 1 pc

Magnetfuss System Magnetic Base System

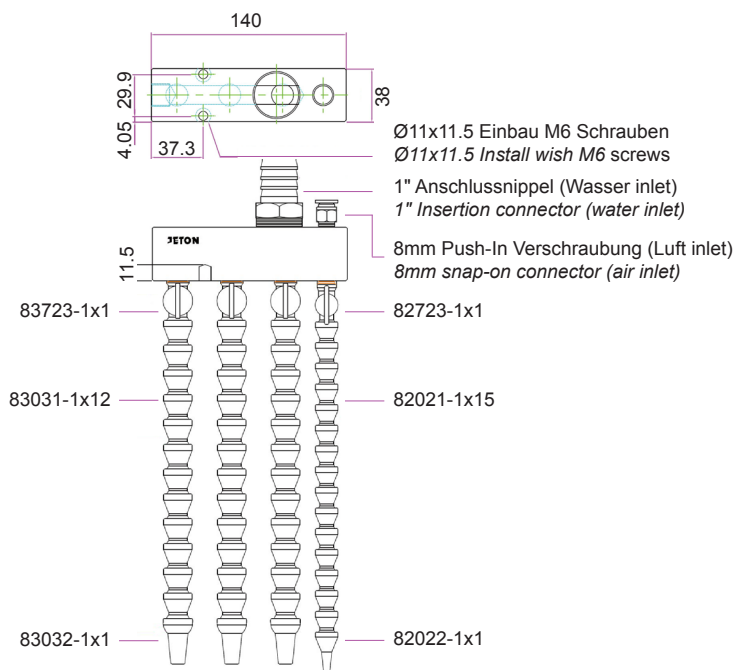
Produkt Product	Inhalt Content	Produkt Product	Inhalt Content
	87011 Magnet Set (On-Off) Magnetfuss (W5xL6.5xH5 cm), 1 Set 20 St. 1/4" Segment, 3 St. 1" Flachdüse, 3 St. 1/4" PT Anschluss, 3 St. 1/4" Kupferventil, 3 St. Magnetic Set (On-Off) Magnetic Base (W5xL6.5xH5 cm), 1 set 20 pcs of 1/4" Segme, 3 pcs 1" Flare Nozzle, 3 pcs 1/4" PT Connector, 3 pcs 1/4" Copper Valve, 3 pcs		87002 Magnet Set (On-Off) Magnetfuss (W5xL6.5xH5 cm), 1 Set 20 St. 1/4" Segment, 2 St. 1" Flachdüse, 2 St. 1/4" PT Anschluss, 2 St. 1/4" Kupferventil, 2 St. Magnetic Set (On-Off) Magnetic Base (W5xL6.5xH5 cm), 1 set 20 pcs of 1/4" Segme, 2 pcs 1" Flare Nozzle, 2 pcs 1/4" PT Connector, 2 pcs 1/4" Copper Valve, 2 pcs
	88003 Magnet Set Magnetfuss 1 Set 10 St. 1/4" Segment, 1 St. 1" Flachdüse, 1 St. 1/4" PT Anschluss, 1 St. Magnetic Set Magnetic Base 1 set 10 pcs of 1/4" Segment, 1 pc 1" Flare Nozzle, 1 pc 1/4" PT Connector, 1 pc		88005 Magnet Set Magnetfuss 1 Set 10 St. 1/4" Segment, 1 St. 1" Flachdüse, 1 St. 1/4" Male PT Ventil, 1 St. Magnetic Set Magnetic Base 1 set 10 pcs of 1/4" Segment, 1 pc 1" Flare Nozzle, 1 pc 1/4" Male PT Valve, 1 pc
	88103 Magnet Set Magnetfuss 1 Set 20 St. 1/4" Segment, 1 St. 1" Flachdüse, 1 St. 1/4" PT Anschluss, 1 St. Magnetic Set Magnetic Base 1 set 20 pcs of 1/4" Segment, 1 pc 1" Flare Nozzle, 1 pc 1/4" PT Connector, 1 pc		88105 Magnet Set Magnetfuss 1 Set 20 St. 1/4" Segment, 1 St. 1" Flachdüse, 1 St. 1/4" Male PT Ventil, 1 St. Magnetic Set Magnetic Base 1 set 20 pcs of 1/4" Segment, 1 pc 1" Flare Nozzle, 1 pc 1/4" Male PT Valve, 1 pc

Magnetfuss Schutzschild System / Magnetic Base Shield Board System

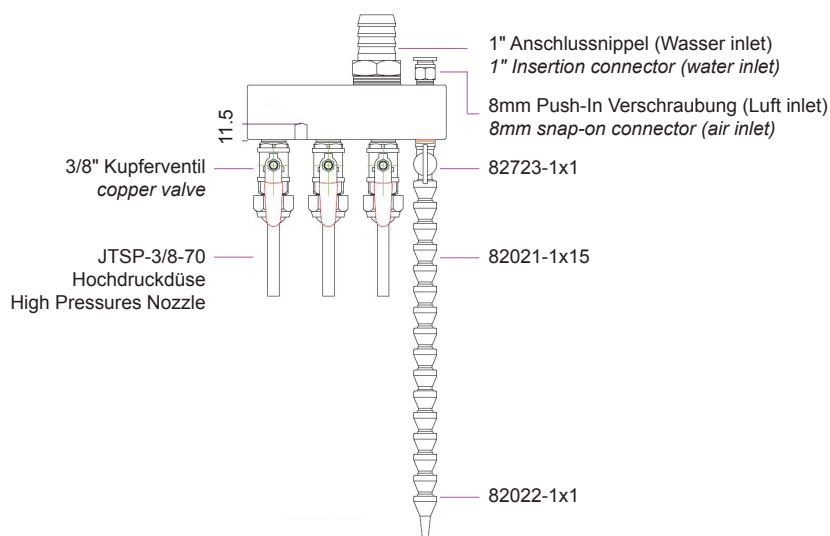
Produkt Product	Artikel Item	Inhalt Content
	34101 (6" x 8") 34102 (7-1/2" x 10") 34103 (8-1/2" x 12")	Schutzschild Set Magnetfuss, 1 Set 12 St. 3/4" Segment, 1 St. 3/4" Schutz Montagestück, 1 St. 3/4" Befestigungstück, 1 St. Schraubenmutter, 2 St. Schutzschild, 1 St. Shield Board System Magnetic Base, 1 set 12 pcs of 3/4" Segment, 1 pc 3/4" Shield Mounting Elbow, 1 pc 3/4" Fixed Mount, 1 pc Nut, 2 pcs Acrylic Board, 1 pc

Durchflussregler Total Flow Control Unit

JTM - 01	
Durchflussregler, 1 Set 1/4" Gelenkschlauch & Ventil, 1 Set 3/8" Gelenkschlauch & Ventil, 3 Sets	Total Flow Control Unit, 1 set 1/4" Adjustable Coolant Hoses & Valves Unit, 1 set 3/8" Adjustable Coolant Hoses & Valves Unit, 3 sets



JTM - 02	
Durchflussregler, 1 Set 1/4" Gelenkschlauch & Ventil, 1 Set Hochdruck Kühlmitteldüse, 3 Sets	Total Flow Control Unit, 1 set 1/4" Adjustable Coolant Hoses & Valves Unit, 1 set High Pressures Adjustable Nozzle, 3 sets



Sprüheinrichtung Spraying Device



JTF - 001

Aluminium Fuß, 1 Set
1/4" Gelenkschlauch, 1 Set
Sprühdüse (Kupfer), 1 Set

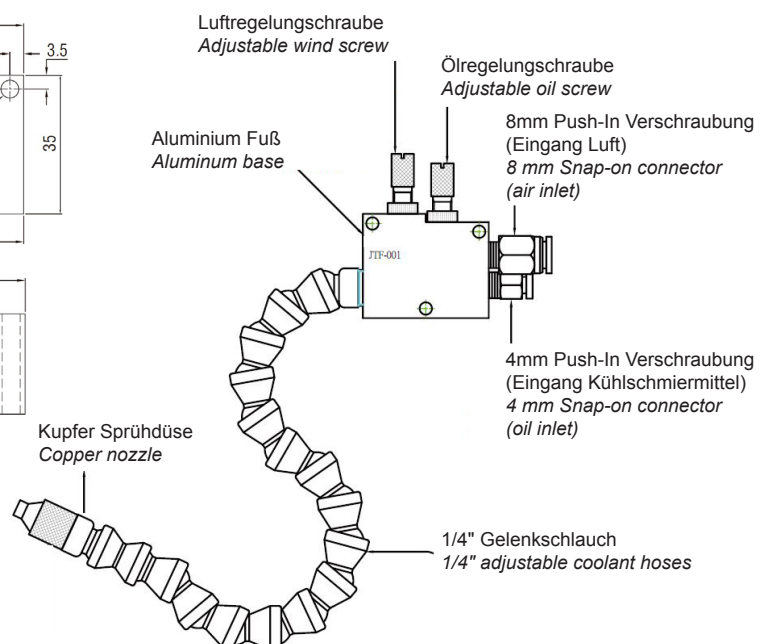
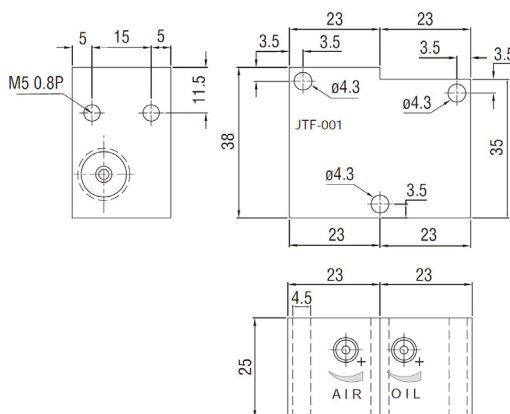
Aluminum Base, 1 set
1/4" Adjustable Coolant Hoses, 1 set
A Spray Nozzle, 1 set

Produktvorteile

- Ideal für Fräsen, Bohren, Sägen, Senken und Gewinde-schneiden, etc.
- Zwei Einlässe, ein für Kühlmittel/Öl, und der andere für Luft
- Öl und Luft sind einstellbar
- **Öl und Luft** werden durch Druck gefördert.
- Eingangsdruck: 0,5 - 5 bar

Product Advantages

- Applied to cool the micro-cutting under the high-speed.
- Two inlet ports, one for oil, and the other one for air.
- Adjust bolt to adjust the oil and air.
- The pressure exportation oil and air.
- Atmospheric pressure: 0.5~5 kgf/cm²



Sprüheinrichtung
Spraying Device



JTF - 002

Aluminium Fuß, 1 Set
1/4" Gelenkschlauch, 1 Set
Sprühdüse (Kupfer), 1 Set

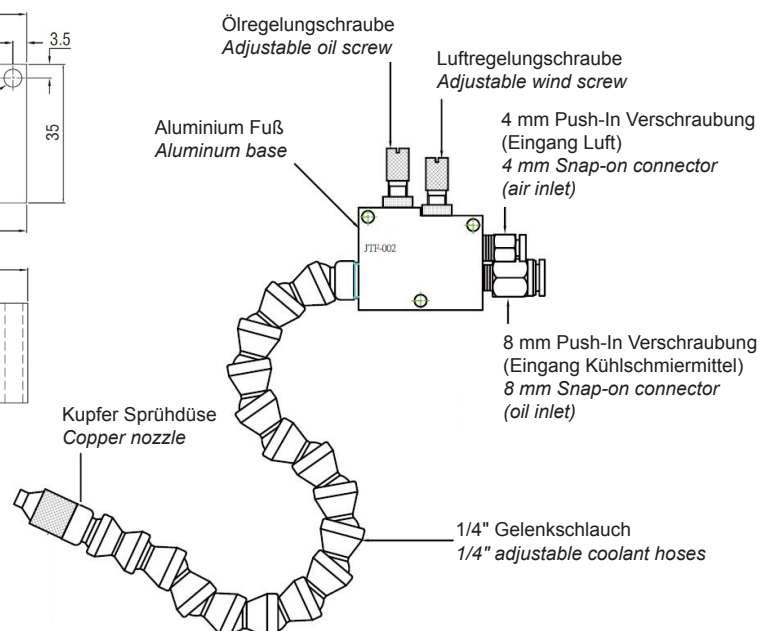
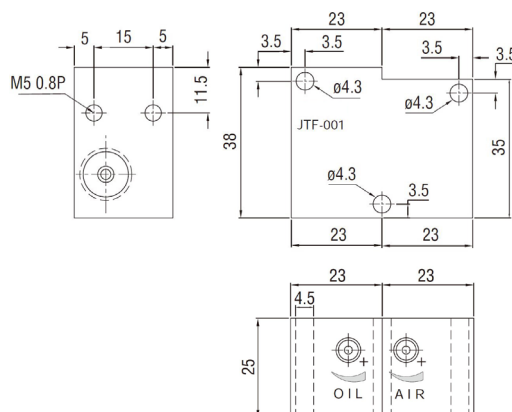
Aluminum Base, 1 set
1/4" Adjustable Coolant Hoses, 1 set
A Spray Nozzle, 1 set

Produktvorteile

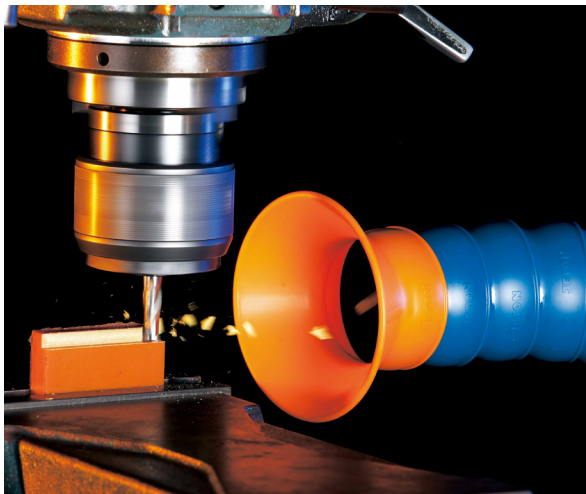
- Ideal für Fräsen, Bohren, Sägen, Senken und Gewindeschneiden, etc.
- Zwei Einlässe, ein für Kühlmittel/Öl, und der andere für Luft
- Öl und Luft sind einstellbar
- **Öl** wird durch Luftdruck gefördert
- Eingangsdruck: 0,5 - 5 bar

Product Advantages

- *Applied to cool the micro-cutting under the high-speed.*
- *Two inlet ports, one for oil, and the other one for air.*
- *Adjust bolt to adjust the oil and air.*
- *The pressure exportation air arouses the oil into.*
- *Atmospheric pressure: 0.5~5 kgf/cm²*



2 1/2" Vakuum Absaugschlauch System 2 1/2" Vacuum Flex Tube System



Der 2-1/2" Absaugschlauch ist speziell für Vakuum-Systeme geeignet und kann zum Absaugen von Staub, Rauch, Spänen, Schmiernebel, Gas und Partikeln verwendet werden. Der Winkel der Schläuche sowie die Länge kann bequem und flexibel justiert werden.

This 2-1/2" vacuum flex tube is designed specifically for vacuum systems, and can be used for vacuuming dust, smoke, and particles. The tube's angle can be conveniently adjusted to reach every place within a work area. Length can also be adjusted to meet work needs.

Verschiedene Arten von Steckverbindern und Düsen sind ebenfalls verfügbar, um am besten geeignete Einstellung zu wählen. Der 2-1/2" Absaugschlauch kann mit 3" PVC/Metallrohr oder an einen Industriesauger oder ein Absaugsystem angeschlossen werden.

Several types of connectors and nozzles are also available, allowing users to select the most suitable setup. This 2-1/2" vacuum tube can be connected to a 3" PVC drainage pipe, 3" metal pipe, or a portable vacuum cleaner.

Produktvorteile

- Der Schlauch kann 360° gedreht werden. Der Winkel wird einfach eingestellt. Die Absaugposition kann einfach per Hand punktgenau eingerichtet werden.
- Langlebige, druckfest, abriebfest.
- Gefertigt aus überlegenen Kunststoffmaterial, beständig gegen die meisten Chemikalien.
- Biegeradius ist ca. 145 mm.

Product Advantages

- *The tube can be rotated 360°; angle is easily adjusted. Can be attached in an ideal working location.*
- *Durable, compression-resistant, wear-resistant.*
- *Made using superior plastic material; resistant to most chemicals.*
- *Bending radius is approximately 145 mm.*

Thermische Eigenschaften / Thermal Characteristics	
Schmelzpunkt / Melting Point	165°C
Max. Betriebstemperatur / Maximum Use Temperature	75°C

Verwarnung

Dieser Absaugschlauch ist aus Kunststoff gefertigt. Dieses Material ist sehr leicht entflammbar und muss weg von Quellen der Flamme gehalten werden, um Feuer zu verhindern.

Warning

These vacuum flex tubes are made from plastic material. This material is highly flammable and must be kept away from sources of flame in order to prevent fire.

Anwendungsbereich

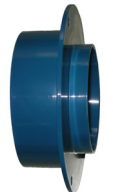
Spanende Bearbeitung (Graphit, Metallstaub, Späne), Lösemitteldämpfe, Gas und Rauch (keine Säuren), Schleifen, Erodieren, Schmiernebel, Trockenräume Laborplätze, Holzbearbeitung, etc.

Application Area

Machining applications (mist, graphite and particles), Woodworking, Oil Mist, etc.

Vakuum Absaugschlauch System Vacuum Flex Tube System

Produkt Product	Artikel Item	Inhalt Content
	89091	Vakuum Segment Set Vacuum Segment Packs, 9 Elements 2.5" ID
	89191	18 Elements 2.5" ID
	89291	180 Elements 2.5" ID
	89094	4.5" Runddüse, 1 St. 4.5" Round Nozzle, 1 pc
	89194	10 St. 10 pcs
	89092	6"x3.5" Rechteckige Düse, 1 St. 6"x3.5" Rectangular Nozzle, 1 pc
	89192	10 St. 10 pcs
	89093	Konische ovale Düse, 1 St. Tapered Oval Nozzle, 1 pc
	89193	10 St. 10 pcs
	89722	2.5" Schieber-Ventil, 1 St. 2.5" Slide Valve, 1 pc
	89742	10 St. 10 pcs
	89096	Vakuum Schlauch Adapter mit Montagelasje , 1 St. Shop Vacuum Hose Adapter with Mounting Tab, 1 pc
	89196	10 St. 10 pcs
	89095	Vakuum Adapter, 1 St. Shop Vacuum Adapter, 1 pc
	89195	10 St. 10 pcs

Produkt Product	Artikel Item	Inhalt Content
	89098	3" PVC Adapter (für 3" PVC Rohr), 1St. 3" PVC Adapter, (for 3" PVC Pipe), 1 pc
	89198	10 St. 10 pcs
	89097	3" Blechrohr Adapter (für 3" Blechrohr), 1 St. 3" Sheet Metal Duct Adapter, (for 3" Metal Duct), 1 pc
	89197	10 St. 10 pcs
	89099	Vakuum Adapter, 1 St. Shop Vacuum Adapter, 1 pc
	89199	10 St. 10 pcs
	89021	4" zu 2.5" Vakuum Adapter, 1 St. 4" to 2.5" Shop Vacuum Adapter, 1 pc
	89121	10 St. 10 pcs
	89038	4" zu 2.5" Y Reduzierung, 1 St. 4" to 2.5" Y Reducer, 1 pc
	89101	2.5" Befestigungsfuss, 1 St. 2.5" Fixed Base, 1 pc
	89102	4" zu 2.5" Vakuum Adapter mit Befestigungsfuss, 1 St. 4" to 2.5" Shop Vacuum Adapter Fixed Base, 1 pc
	89103	4" zu 2.5" Y Reduzierung mit Befestigungsfuss, 1 St. 4" to 2.5" Y Reducer Fixed Base, 1 pc

1/4" System & Maßangabe 1/4" System & Specification

82020 + 82020		82022	82722	82226	62426
82025	82014	82023	82723	62423	
82026	82028	82024	82724	52416	82013
82029	82011	82223	82224	82228	
82012	62420	82725	82225	82229	
82052	82027	82017	82220	82227	
82053	82054	82055	82056	82057	

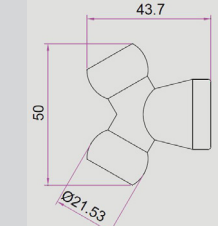
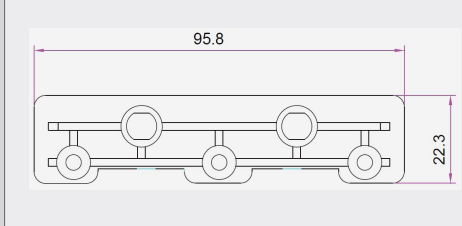
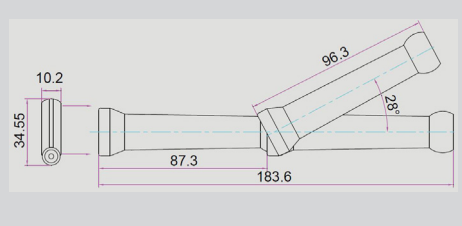
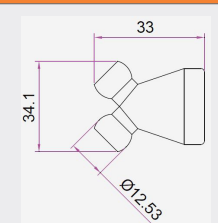
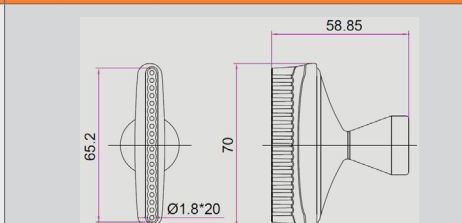
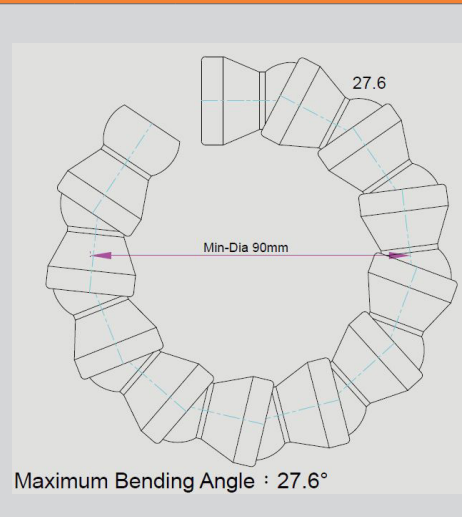
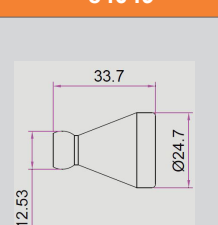
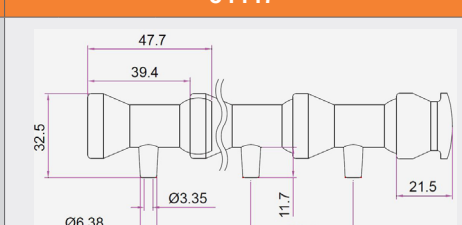
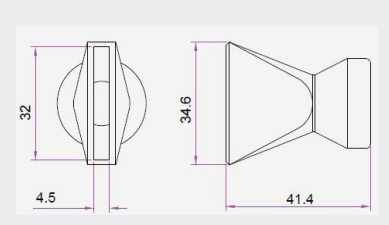
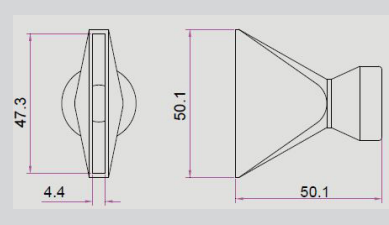
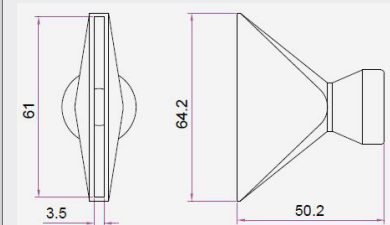
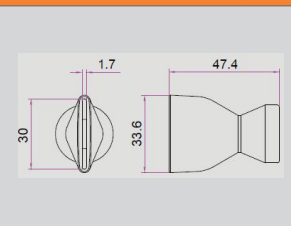
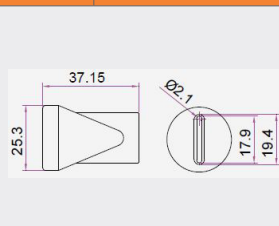
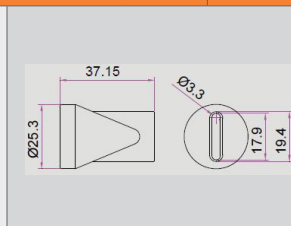
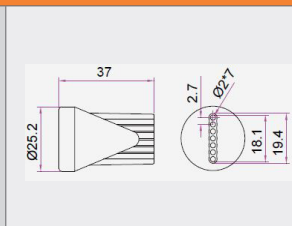
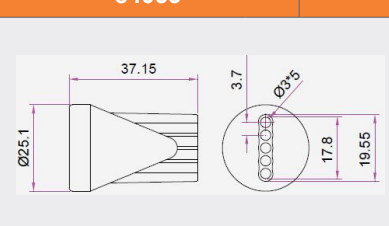
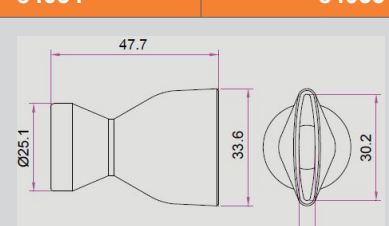
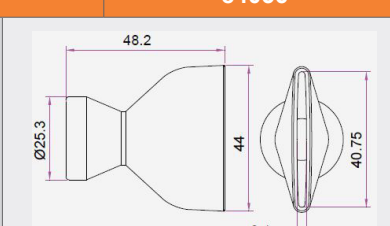
3/8" System & Maßangabe 3/8" System & Specification

83031 + 83031	83723	83035	83032	83724
83033	83036	83038	83034	83725
83037	83722	83011		

1/2" System & Maßangabe 1/2" System & Specification

84041 + 84041	84011	84725	84045	84013	84446
64626	84046	84042	64620	84722	84442
84043	84443	84723	84044	84445	84724

1/2" System & Maßangabe 1/2" System & Specification

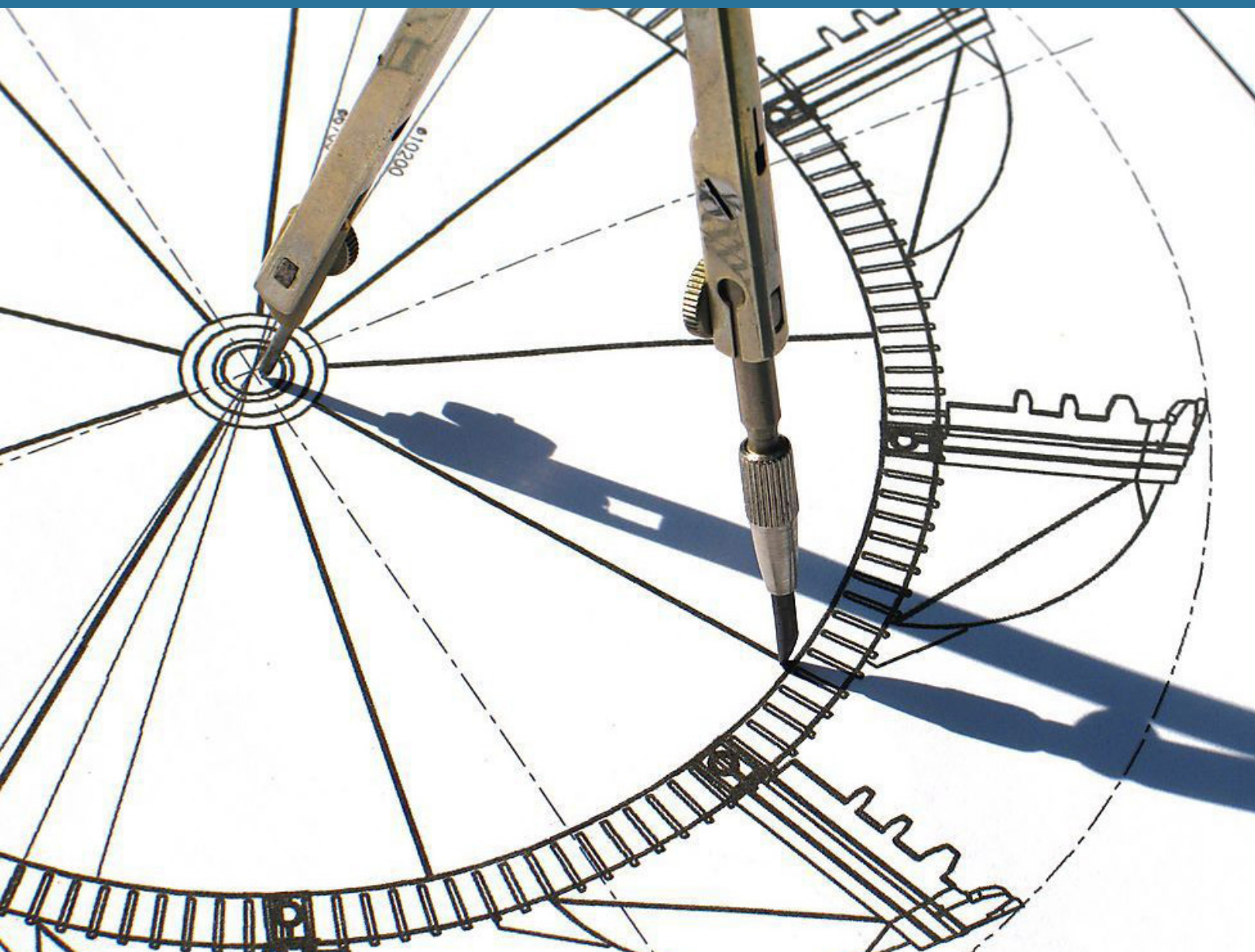
			
84048	54416	84440	
		 Min-Dia 90mm Maximum Bending Angle : 27.6°	
84049	84447		
			
84651	64643		
			
84047	84050	84052	
			
84053	84054	84055	84056
			
84057	84058	84059	

3/4" System & Maßangabe 3/4" System & Specification

86061 + 86061	86011	86021	86022
86023	86064	86051	86067
86062	86063	86068	86069
Min-Dia 129mm Maximum Bending Angle : 21°			
		66620	86722
		86723	86724

2 1/2" System & Maßangabe 2 1/2" System & Specification

89091 + 89091	89092	89099	89094
89095	89096	89097	89098
89722	89093	89101	89038
89103		89099	89021
		89102	



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