

2021 A

FENGYI 锋宜® 刀具

自锁式可换头钻头

Self-lock Indexable Cutting Head Drills



QDRILL 

专利号: ZL.202020154809.0

Patent No: ZL.201610994728.X

ZL.201720774881.1

US10081066B2



公司概况

COMPANY PROFILE

成都锋宜精密工具制造有限公司创建于1997年。多年来对螺纹刀具、石油管螺纹刀具、蜗杆滚刀铣削刀具、轴承刀具及非标成型刀具进行不断的研究开发，形成了规模化的专业生产能力。近来，又成功创新开发了涂层硬质合金自锁式可换头钻头Mono Tip, Multi Tip两大系列产品。从而创建了以复杂精密成型刀具及孔加工刀具为主的设计、研发、制造及服务的创新驱动商业发展模式，并逐步得到了市场认可。产品品种齐全，还可承接非标订制，交货及时，质量达到了国际先进水平。2006年4月顺利通过了ISO9001:2000质量管理体系认证，2016年被重新认定为高新技术企业。

公司位于四川省成都市龙潭都市工业集中发展区，占地10亩，毗邻成都大熊猫繁育基地。地理位置优越，环境优美。现拥有员工140人，各种精密加工检测设备100多台套，包括引进瑞士Ewag Compact line, 德国Deckel S22E, 德国Walter高精度五轴数控工具磨床，英国进口的全自动刀片钝化设备以及国产的周边磨床。2014年底又全套引进了德国PVD涂层设备，及GMF刀片钝化值检测仪，涂层微纳米压痕仪及涂层结合力划痕仪。为进一步提高及保证产品质量和竞争力打下了良好的基础。

本公司具有年产各种螺纹、铣刀和整体硬质合金铣刀二百多万件的生产能力。是国内可转位螺纹车削刀片、可转位螺纹铣削刀片、整体硬质合金螺纹铣刀、石油管螺纹刀具的最大供应商。是国内螺纹刀具品种规格最全的供应商。是具备能完全独立配套生产刀具及配件的成型刀具生产商。公司奉行以提供专业化、高质量、全方位的技术服务为特色的经营模式，深受新老客户的欢迎。

在严酷的市场竞争形势下，我们将发挥自强不息、奋发有为的创业精神：发扬“一心专注，精心磨砺”的严谨作风，以国际优秀的成型刀具为目标，不断研发新产品，提高产品质量，创优品牌，以满足国内外用户的需求。相信通过我们的努力，定能成为你良好的合作伙伴。

Chengdu Fengyi Precision Tool Manufacture Co., Ltd has founded since 1997. The company has constantly devoted to the research and development of metric, British, and American system thread tools, of pipe thread Chasers, worm whirling milling tools, bearing profile cutting tools, customized profile tools, and the latest Mono Tip Line, Multi Tip Line, a self-locked changeable cutting head drill, which has stepped on to the innovation driven road of business model of the complicated and precision profile cutting tool & hole-machining tool research, innovation design, producing and service, and gradually approved by the market. Its product lines, quality and performance have ensured international market standards and presence. The company was awarded ISO9001:2000 certificate in 2006 and Hi-Tech enterprise certificate in 2016 in China again.

Fengyi is located in the Longtan Industrial Zone of Chengdu, Sichuan. Situated in natural geographical surrounding, adjacent to the Chengdu Giant Panda Breeding Centre, Fengyi occupies 6700 square meters, employs 140 employees, and owns more than 100 sets of precision machining and test equipment including CNC grinding machines, Ewag compact line 5 axes grinding machine from Switzerland, Deckel S22E 5 axes grinding machine from Germany, Walter precision grinding machine from Germany, automatic insert honing machine made in UK and domestic automatic periphery grinding machines. By the end of 2014, we imported CC800-9 HPIMS sophisticated PVD coating units from CerneCon Germany, GMF insert honing inspection device, coating thin film micro-nano indentation device and coating film adhesion scratch tester to improve our products quality and enhance the base of the competitiveness in the market.

The company produces more than two million inserts yearly, and is China's largest suppliers for metric/British/American system thread turning inserts, milling inserts, solid carbide thread mills and oil pipe thread inserts. Fengyi uniquely offers a full product line of whole kinds of thread inserts, tool holders and accessories, and supplies its customers with full technical support.

In a competitive market environment, Fengyi applies its pioneering spirit, self-discipline, and determination and relentlessly pursue perfection in order to achieve its goal: excellence in the field of thread tools manufacture. Fengyi is constantly developing innovative products and improving product quality to meet customer demand and expectations. We are certain that Fengyi will be a satisfying business partner, and we look forward to doing business with you.





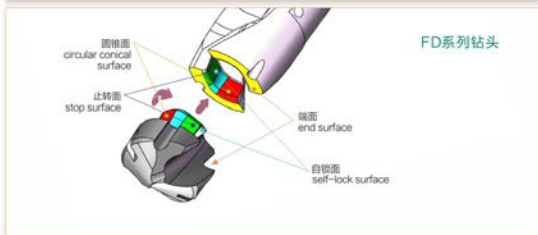
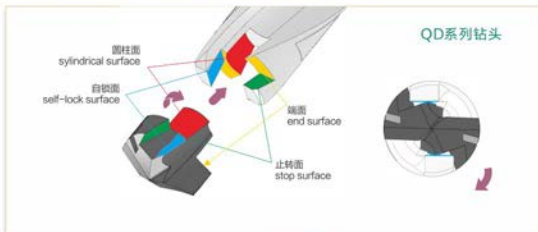
CONTENT

目录

Mono Tip系列自锁式可换钻头刀头编码系统 Mono Tip Line Drilling Head Ordering Code System	12
QD...S1、S2标准钻头S1、S2型 Standard Drilling Head S1、S2	13-18
QD...RA、RD 特种钻头RA、RD 型 Special Drilling Head RA、RD	19-24
QD...F 平底钻头 Flat Drilling Head	25
QD...C 定心钻头 Centering Drilling Head	26
QD...RB 特种钻头RB型 Special Drilling Head RB	27-29
QD...ST 通用型钻头ST型 Special Drilling Head ST	30-32
FD...S1、S2标准钻头S1、S2型 Standard Drilling Head S1、S2	33-38
FD...RA、RD 特种钻头RA、RD 型 Special Drilling Head RA、RD	39-44
FD...F 平底钻头 Flat Drilling Head	45
FD...C 定心钻头 Centering Drilling Head	46
FD...RB 特种钻头RB型 Special Drilling Head RB	47-49
FD...ST 通用型钻头ST型 Special Drilling Head ST	50-52
Mono Tip系列自锁式可换钻头刀体编码系统 Mono Tip Line Drilling Toolholder Ordering Code System	53
Mono Tip系列可换钻头刀体 Mono Tip Line Drilling Toolholders	54-63
Mono Tip系列推荐的切削参数 Technical Information	64
Multi Tip系列整体式复合钻头刀体编码系统 Multi Tip Line Solid Drill Toolholder Ordering Code System	65
Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Drill Toolholders	66-77
Multi Tip系列分体式复合钻头刀体编码系统 Multi Tip Line Modular Drill Toolholder Ordering Code System	78
Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Drill Toolholders	79-84
Multi Tip系列复合钻头用扩孔刀片 Side inserts for Multi Tip Line	85-86
非标准定制台阶槽钻头刀具 Special Multi-insert Step Drill Toolholders	87
Multi Tip系列推荐的切削参数 Technical Information	88



创新的自锁式装卸方式 Innovation Self-Lock Connecting System



可快速更换刀头 No Set-up Time for Changing Cutting Head



完美的抛光刀体 Perfect Polished Toolholders

抛光刀体排屑槽，使切屑更容易排出。
Toolholder flutes polished let chips evacuate easily



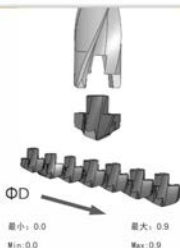
带内冷却水孔的刀体 Toolholders with Coolant

带内冷却孔的设计，使刀头钻削时冷却更充分，刀头寿命更长，切屑更容易排出。
Coolant makes cutting head life much longer and also high pressure cooling liquid pushes chips to evacuate quickly



高互换性，管理更柔性 Interchangeability and Flexibility

同一刀体可装不同尺寸刀头，可减少刀体数量，刀头与刀体完全互换。
Different cutting diameter heads can be fixed into one toolholder so as to reduce the number of toolholder, and cutting heads and toolholders are interchangeable totally

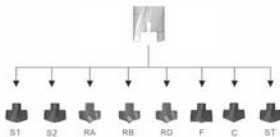




多种钻尖可供选择 Different Drilling Edges are Available

可选择不同被加工材料和不同用途的钻尖型式, S1, S2, RA, RB, RD, F, C, ST.

Standard S1, Standard S2, Special RA, Special RB, Special RD, flat F, self-centering C and universal head ST cutting heads are available.



增值服务 Resharpening Service



提供刀头返厂重磨服务, 为用户进一步减少刀具使用成本。
Supply resharpening cutting head service for customers to cut cast

怎样装刀头 How To Attach Cutting Heads (Mono Tip 系列 Mono Tip Line)



1

把刀杆装在刀柄上,刀柄装在机床或刀具预设仪上,以便安装刀头
Fix drill holder on arbor
For cutting head
exchange, fix arbor on the
machine or
set on toolpresetter



2

用压缩空气清洁刀槽

Remove dust using air
blast



3

把刀头放进刀槽 (戴上手套以防划伤)

Put a cutting head into
drill holder. (Use gloves to
protect your hand from any
danger)



4

轻轻顺时针方向转动
(戴上手套以防划伤)

Turn lightly in a
clockwise direction (Use
gloves to protect your
hand from any danger)



5

选用合适的扳手

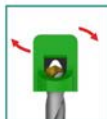
Set the wrench properly



6

确认扳手卡入扳手槽中
Make sure the wrench fits
with cutting head's slot
for the wrench

→ 扳手槽
Slot For
Wrench



7

继续顺时针方向转动,
用力转过自锁位直到锁紧
为止

Turn the wrench in a
clockwise direction slowly,
then turn strongly while
passing self-locked face
until cutting head won't
move



8

完成

Complete



怎样卸刀头 How To Detach Cutting Heads (Mono Tip 系列 Mono Tip Line)



1

用压缩空气清洁刀头
Remove dust from cutting head using air blast



2

选用合适的扳手
Set the wrench properly



3

确认扳手卡入扳手槽中
Fit the wrench to cutting head slot



4

反时针方向转动扳手
Turn the wrench in a counter-clockwise direction



5

一旦失去自锁，用手转动刀头（戴上手套以防划伤）

Once self-lock is released, cutting head can be turned by fingers (Use gloves to protect your hand from any danger)



6

取下刀头（戴上手套以防划伤）

Remove cutting head (Use gloves to protect your hand from any danger)

怎样装刀头 How To Attach Cutting Heads (Multi Tip 系列 Multi Tip Line)



1

把刀杆装在刀柄上,刀柄装在机床或刀具预调仪上,以便安装刀头
Fix drill holder on arbor
For cutting head exchange, fix arbor on the machine or set on toolpresetter



2

用压缩空气清洁刀槽

Remove dust using air blast



3

把刀头放进刀槽 (戴上手套以防划伤)

Put a cutting head into drill holder. (Use gloves to protect your hand from any danger)



4

轻轻顺时针方向转动 (戴上手套以防划伤)

Turn lightly in a clockwise direction (Use gloves to protect your hand from any danger)



5

选用合适的扳手

Set the wrench properly



6

确认扳手卡入扳手槽中
Make sure the wrench fits with cutting head's slot for the wrench

→ 扳手槽 Slot For Wrench ←



7

继续顺时针方向转动,用力转过自锁位直到锁紧为止

Turn the wrench in a clockwise direction slowly, then turn strongly while passing self-locked face until cutting head won't move



8

将扩孔刀片放入刀槽,并用螺丝钉固定

Take two side inserts into the seats, and tighten the screws with the wrench



怎样卸刀头 How To Detach Cutting Heads (Multi Tip 系列 Multi Tip Line)



1

用压缩空气清洁刀头
Remove dust from cutting head using air blast



2

选用合适的扳手
Set the wrench properly



3

确认扳手卡入扳手槽中
Fit the wrench to cutting head slot



4

反时针方向转动扳手
Turn the wrench in a counter-clockwise direction



5

一旦失去自锁，用手转动刀头，并取下刀头（戴上手套以防划伤）

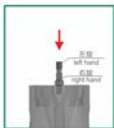
Once self-lock is released, cutting head can be turned by fingers and remove cutting head (Use gloves to protect your hand from any danger)



6

取下扩孔刀片
Remove two side inserts with the wrench

分体式钻杆的安装 How To Fix The Modular Tool Holder (Multi Tip 系列 Multi Tip Line)



1

将双头螺钉旋入杆部3圈。使旋入杆部剩余螺纹长度与左旋螺纹长度大致相等。

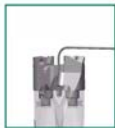
Screw the right hand thread into the screw hole of the holder unit three circles, let the length of left hand thread approximately be equal to the length of right hand thread.



2

将头部模块结合部对准杆部模块结合部。

Put the cutting unit into the holder unit exactly.



3

用扳手以适当的力顺时针方向旋转双头螺钉拧紧，保证头部模块与杆部模块完全结合。避免钻孔时刀体振动引起双头螺钉松动。

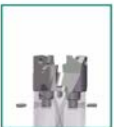
Tighten the screw clockwise using a wrench and make sure close contact between the cutting unit and the holder unit.



4

用0.01mm塞尺，检查头部模块与杆部模块结合部位，以保证接合部位无任何间隙。

Check the gap between the cutting unit and the holder unit using a 0.01mm filler gauge, make sure no any gap.



5

将紧定螺钉旋入杆部模块螺钉孔。

Screw the two screws into the holder unit.



6

用适当的力拧紧螺钉，防止钻孔时螺钉松动。

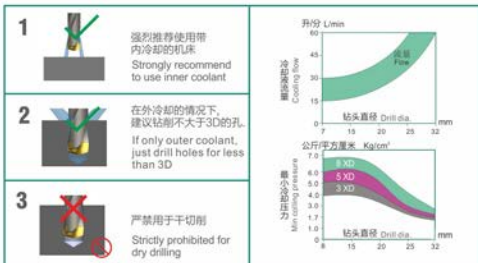
tighten two screws using a wrench.

强烈建议：刀体使用一段时间之后，要经常检查三个螺丝钉是否松动，有松动的情况，必须再次拧紧后使用。

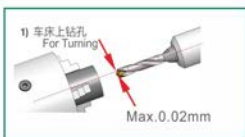
Strongly recommended that the screws are checked often for loosening after drilling.



冷却 Coolant



应用警示 Usage Precautions core deviation



工件与钻头偏心量不大于0.02毫米

Set deviation amount under 0.02mm between the workpiece and the drill



禁止使用粗糙的刀柄。刀柄的偏心量不大于0.02毫米

Do not use any arbor with a deformed attachment surface.
Center of arbor deviation must be within 0.02mm

钻头更换判断标准 Indication of Cutting Head Wear

0.2-0.3mm

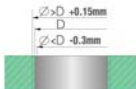


a) 磨损极限
Wear Limit

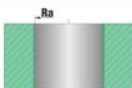


b) 功耗
Power Restriction

- (1)新钻头 New cutting head
- (2)磨损钻头比新钻头大25%
Increase 25% for wore-out cutting head



c) 孔径变化大
Diameter Change



d) 光洁度急剧变差
Surface Finish Deterioration



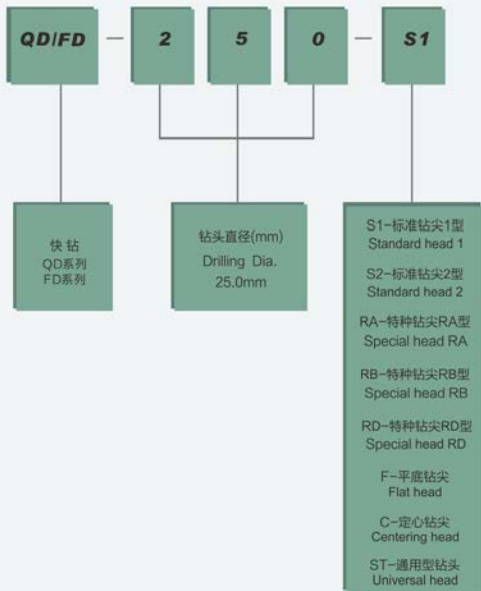
e) 振动噪音急剧上升
Vibration Noise Drastically Increases

应用 Application

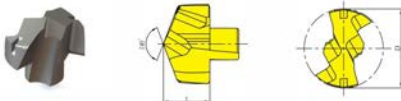
推荐应用 Application Recommendation	工件形状 Workpiece Shape	不推荐应用 Application Not Recommendation	工件形状 Workpiece Shape
平面孔 推荐 Flat Face Recommended		重叠孔 禁用 Hole Expansion Not Recommended	
叠板孔 重叠加固可用 Stacked Plates Recommended(absolutely don't move between plates)		斜面孔 禁用 Slanted Surface Not Recommended	
曲面孔 减少进给量一半可用 Concave Surface Recommended(reduce a half of feed tate as narmal)		半边孔 禁用 Half Cylindrical Not Recommended	
管壁孔 过管中心可用 Pipe Material Recommended		型芯孔 禁用 Cored Hole Not Recommended	



Mono Tip系列自锁式可换头钻头刀头编码系统 Mono Tip Line Drilling Head Ordering Code System



QD...S1 标准钻尖S1型 Standard Drilling Head S1



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-080-S1	8.0	5.4	QD080/089-12-D...
QD-081-S1	8.1	5.4	
QD-082-S1	8.2	5.4	
QD-083-S1	8.3	5.4	
QD-084-S1	8.4	5.4	
QD-085-S1	8.5	5.4	
QD-086-S1	8.6	5.4	
QD-087-S1	8.7	5.4	
QD-088-S1	8.8	5.4	
QD-089-S1	8.9	5.4	
QD-090-S1	9.0	5.8	QD090/099-12-D...
QD-091-S1	9.1	5.8	
QD-092-S1	9.2	5.8	
QD-093-S1	9.3	5.8	
QD-094-S1	9.4	5.8	
QD-095-S1	9.5	5.8	
QD-096-S1	9.6	5.8	
QD-097-S1	9.7	5.8	
QD-098-S1	9.8	5.8	
QD-099-S1	9.9	5.8	
QD-100-S1	10.0	6.2	QD100/109-16-D...
QD-101-S1	10.1	6.2	
QD-102-S1	10.2	6.2	
QD-103-S1	10.3	6.2	
QD-104-S1	10.4	6.2	
QD-105-S1	10.5	6.2	
QD-106-S1	10.6	6.2	
QD-107-S1	10.7	6.2	
QD-108-S1	10.8	6.2	
QD-109-S1	10.9	6.2	

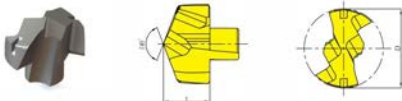
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-110-S1	11.0	6.6	QD110/119-16-D...
QD-111-S1	11.1	6.6	
QD-112-S1	11.2	6.6	
QD-113-S1	11.3	6.6	
QD-114-S1	11.4	6.6	
QD-115-S1	11.5	6.6	
QD-116-S1	11.6	6.6	
QD-117-S1	11.7	6.6	
QD-118-S1	11.8	6.6	
QD-119-S1	11.9	6.6	
QD-120-S1	12.0	7.0	QD120/129-16-D...
QD-121-S1	12.1	7.0	
QD-122-S1	12.2	7.0	
QD-123-S1	12.3	7.0	
QD-124-S1	12.4	7.0	
QD-125-S1	12.5	7.0	
QD-126-S1	12.6	7.0	
QD-127-S1	12.7	7.0	
QD-128-S1	12.8	7.0	
QD-129-S1	12.9	7.0	
QD-130-S1	13.0	7.6	QD130/139-16-D...
QD-131-S1	13.1	7.6	
QD-132-S1	13.2	7.6	
QD-133-S1	13.3	7.6	
QD-134-S1	13.4	7.6	
QD-135-S1	13.5	7.6	
QD-136-S1	13.6	7.6	
QD-137-S1	13.7	7.6	
QD-138-S1	13.8	7.6	
QD-139-S1	13.9	7.6	

注：S1钻尖适用于中碳钢、合金钢、球墨铸铁等钻孔（五倍径孔以下推荐使用）

Recommend S1 cutting head to be used for middle and high carbon steel, alloy steel, nodular cast iron (specially for less than 5D)



QD...S1 标准钻尖S1型 Standard Drilling Head S1



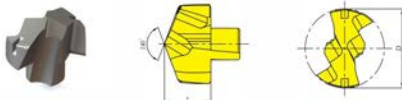
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-140-S1	14.0	8.1	QD140/149-16-D...
QD-141-S1	14.1	8.1	
QD-142-S1	14.2	8.1	
QD-143-S1	14.3	8.1	
QD-144-S1	14.4	8.1	
QD-145-S1	14.5	8.1	
QD-146-S1	14.6	8.1	
QD-147-S1	14.7	8.1	
QD-148-S1	14.8	8.1	
QD-149-S1	14.9	8.1	
QD-150-S1	15.0	8.7	QD150/159-20-D...
QD-151-S1	15.1	8.7	
QD-152-S1	15.2	8.7	
QD-153-S1	15.3	8.7	
QD-154-S1	15.4	8.7	
QD-155-S1	15.5	8.7	
QD-156-S1	15.6	8.7	
QD-157-S1	15.7	8.7	
QD-158-S1	15.8	8.7	
QD-159-S1	15.9	8.7	
QD-160-S1	16.0	9.3	QD160/169-20-D...
QD-161-S1	16.1	9.3	
QD-162-S1	16.2	9.3	
QD-163-S1	16.3	9.3	
QD-164-S1	16.4	9.3	
QD-165-S1	16.5	9.3	
QD-166-S1	16.6	9.3	
QD-167-S1	16.7	9.3	
QD-168-S1	16.8	9.3	
QD-169-S1	16.9	9.3	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-170-S1	17.0	9.9	QD170/179-20-D...
QD-171-S1	17.1	9.9	
QD-172-S1	17.2	9.9	
QD-173-S1	17.3	9.9	
QD-174-S1	17.4	9.9	
QD-175-S1	17.5	9.9	
QD-176-S1	17.6	9.9	
QD-177-S1	17.7	9.9	
QD-178-S1	17.8	9.9	
QD-179-S1	17.9	9.9	
QD-180-S1	18.0	10.5	QD180/189-25-D...
QD-181-S1	18.1	10.5	
QD-182-S1	18.2	10.5	
QD-183-S1	18.3	10.5	
QD-184-S1	18.4	10.5	
QD-185-S1	18.5	10.5	
QD-186-S1	18.6	10.5	
QD-187-S1	18.7	10.5	
QD-188-S1	18.8	10.5	
QD-189-S1	18.9	10.5	
QD-190-S1	19.0	11.0	QD190/199-25-D...
QD-191-S1	19.1	11.0	
QD-192-S1	19.2	11.0	
QD-193-S1	19.3	11.0	
QD-194-S1	19.4	11.0	
QD-195-S1	19.5	11.0	
QD-196-S1	19.6	11.0	
QD-197-S1	19.7	11.0	
QD-198-S1	19.8	11.0	
QD-199-S1	19.9	11.0	

注：S1钻尖适用于中碳钢、合金钢、球墨铸铁等钻孔（五倍径孔以下推荐使用）

Recommend S1 cutting head to be used for middle and high carbon steel, alloy steel, nodular cast iron (specially for less than 5D)

QD...S1 标准钻尖S1型 Standard Drilling Head S1



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-200-S1	20.0	11.6	QD200/209-25-D...
QD-201-S1	20.1	11.6	
QD-202-S1	20.2	11.6	
QD-203-S1	20.3	11.6	
QD-204-S1	20.4	11.6	
QD-205-S1	20.5	11.6	
QD-206-S1	20.6	11.6	
QD-207-S1	20.7	11.6	
QD-208-S1	20.8	11.6	
QD-209-S1	20.9	11.6	
QD-210-S1	21.0	12.1	QD210/219-25-D...
QD-211-S1	21.1	12.1	
QD-212-S1	21.2	12.1	
QD-213-S1	21.3	12.1	
QD-214-S1	21.4	12.1	
QD-215-S1	21.5	12.1	
QD-216-S1	21.6	12.1	
QD-217-S1	21.7	12.1	
QD-218-S1	21.8	12.1	
QD-219-S1	21.9	12.1	
QD-220-S1	22.0	12.7	QD220/229-25-D...
QD-221-S1	22.1	12.7	
QD-222-S1	22.2	12.7	
QD-223-S1	22.3	12.7	
QD-224-S1	22.4	12.7	
QD-225-S1	22.5	12.7	
QD-226-S1	22.6	12.7	
QD-227-S1	22.7	12.7	
QD-228-S1	22.8	12.7	
QD-229-S1	22.9	12.7	

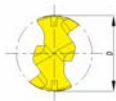
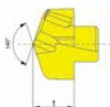
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-230-S1	23.0	13.3	QD230/239-32-D...
QD-231-S1	23.1	13.3	
QD-232-S1	23.2	13.3	
QD-233-S1	23.3	13.3	
QD-234-S1	23.4	13.3	
QD-235-S1	23.5	13.3	
QD-236-S1	23.6	13.3	
QD-237-S1	23.7	13.3	
QD-238-S1	23.8	13.3	
QD-239-S1	23.9	13.3	
QD-240-S1	24.0	13.9	QD240/249-32-D...
QD-241-S1	24.1	13.9	
QD-242-S1	24.2	13.9	
QD-243-S1	24.3	13.9	
QD-244-S1	24.4	13.9	
QD-245-S1	24.5	13.9	
QD-246-S1	24.6	13.9	
QD-247-S1	24.7	13.9	
QD-248-S1	24.8	13.9	
QD-249-S1	24.9	13.9	
QD-250-S1	25.0	14.5	QD250/260-32-D...
QD-251-S1	25.1	14.5	
QD-252-S1	25.2	14.5	
QD-253-S1	25.3	14.5	
QD-254-S1	25.4	14.5	
QD-255-S1	25.5	14.5	
QD-256-S1	25.6	14.5	
QD-257-S1	25.7	14.5	
QD-258-S1	25.8	14.5	
QD-259-S1	25.9	14.5	
QD-260-S1	26.0	14.5	

注：S1钻尖适用于中碳钢、合金钢、球墨铸铁等钻孔（五倍径孔以下推荐使用）

Recommend S1 cutting head to be used for middle and high carbon steel, alloy steel, nodular cast iron (specially for less than 5D)



QD...S2 标准钻尖S2型 Standard Drilling Head S2



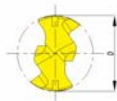
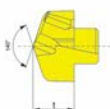
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-080-S2	8.0	5.4	QD080/089-12-D...
QD-081-S2	8.1	5.4	
QD-082-S2	8.2	5.4	
QD-083-S2	8.3	5.4	
QD-084-S2	8.4	5.4	
QD-085-S2	8.5	5.4	
QD-086-S2	8.6	5.4	
QD-087-S2	8.7	5.4	
QD-088-S2	8.8	5.4	
QD-089-S2	8.9	5.4	
QD-090-S2	9.0	5.8	QD090/099-12-D...
QD-091-S2	9.1	5.8	
QD-092-S2	9.2	5.8	
QD-093-S2	9.3	5.8	
QD-094-S2	9.4	5.8	
QD-095-S2	9.5	5.8	
QD-096-S2	9.6	5.8	
QD-097-S2	9.7	5.8	
QD-098-S2	9.8	5.8	
QD-099-S2	9.9	5.8	
QD-100-S2	10.0	6.2	QD100/109-16-D...
QD-101-S2	10.1	6.2	
QD-102-S2	10.2	6.2	
QD-103-S2	10.3	6.2	
QD-104-S2	10.4	6.2	
QD-105-S2	10.5	6.2	
QD-106-S2	10.6	6.2	
QD-107-S2	10.7	6.2	
QD-108-S2	10.8	6.2	
QD-109-S2	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-110-S2	11.0	6.6	QD110/119-16-D...
QD-111-S2	11.1	6.6	
QD-112-S2	11.2	6.6	
QD-113-S2	11.3	6.6	
QD-114-S2	11.4	6.6	
QD-115-S2	11.5	6.6	
QD-116-S2	11.6	6.6	
QD-117-S2	11.7	6.6	
QD-118-S2	11.8	6.6	
QD-119-S2	11.9	6.6	
QD-120-S2	12.0	7.0	QD120/129-16-D...
QD-121-S2	12.1	7.0	
QD-122-S2	12.2	7.0	
QD-123-S2	12.3	7.0	
QD-124-S2	12.4	7.0	
QD-125-S2	12.5	7.0	
QD-126-S2	12.6	7.0	
QD-127-S2	12.7	7.0	
QD-128-S2	12.8	7.0	
QD-129-S2	12.9	7.0	
QD-130-S2	13.0	7.6	QD130/139-16-D...
QD-131-S2	13.1	7.6	
QD-132-S2	13.2	7.6	
QD-133-S2	13.3	7.6	
QD-134-S2	13.4	7.6	
QD-135-S2	13.5	7.6	
QD-136-S2	13.6	7.6	
QD-137-S2	13.7	7.6	
QD-138-S2	13.8	7.6	
QD-139-S2	13.9	7.6	

注：S2钻尖适用于灰口铸铁、球墨铸铁等钻孔。

Recommend S2 cutting head to be used for grey iron cast, nodular cast iron

QD...S2 标准钻尖S2型 Standard Drilling Head S2



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	l	
QD-140-S2	14.0	8.1	QD140/149-16-D...
QD-141-S2	14.1	8.1	
QD-142-S2	14.2	8.1	
QD-143-S2	14.3	8.1	
QD-144-S2	14.4	8.1	
QD-145-S2	14.5	8.1	
QD-146-S2	14.6	8.1	
QD-147-S2	14.7	8.1	
QD-148-S2	14.8	8.1	
QD-149-S2	14.9	8.1	
QD-150-S2	15.0	8.7	QD150/159-20-D...
QD-151-S2	15.1	8.7	
QD-152-S2	15.2	8.7	
QD-153-S2	15.3	8.7	
QD-154-S2	15.4	8.7	
QD-155-S2	15.5	8.7	
QD-156-S2	15.6	8.7	
QD-157-S2	15.7	8.7	
QD-158-S2	15.8	8.7	
QD-159-S2	15.9	8.7	
QD-160-S2	16.0	9.3	QD160/169-20-D...
QD-161-S2	16.1	9.3	
QD-162-S2	16.2	9.3	
QD-163-S2	16.3	9.3	
QD-164-S2	16.4	9.3	
QD-165-S2	16.5	9.3	
QD-166-S2	16.6	9.3	
QD-167-S2	16.7	9.3	
QD-168-S2	16.8	9.3	
QD-169-S2	16.9	9.3	

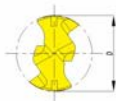
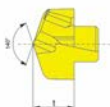
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	l	
QD-170-S2	17.0	9.9	QD170/179-20-D...
QD-171-S2	17.1	9.9	
QD-172-S2	17.2	9.9	
QD-173-S2	17.3	9.9	
QD-174-S2	17.4	9.9	
QD-175-S2	17.5	9.9	
QD-176-S2	17.6	9.9	
QD-177-S2	17.7	9.9	
QD-178-S2	17.8	9.9	
QD-179-S2	17.9	9.9	
QD-180-S2	18.0	10.5	QD180/189-25-D...
QD-181-S2	18.1	10.5	
QD-182-S2	18.2	10.5	
QD-183-S2	18.3	10.5	
QD-184-S2	18.4	10.5	
QD-185-S2	18.5	10.5	
QD-186-S2	18.6	10.5	
QD-187-S2	18.7	10.5	
QD-188-S2	18.8	10.5	
QD-189-S2	18.9	10.5	
QD-190-S2	19.0	11.0	QD190/199-25-D...
QD-191-S2	19.1	11.0	
QD-192-S2	19.2	11.0	
QD-193-S2	19.3	11.0	
QD-194-S2	19.4	11.0	
QD-195-S2	19.5	11.0	
QD-196-S2	19.6	11.0	
QD-197-S2	19.7	11.0	
QD-198-S2	19.8	11.0	
QD-199-S2	19.9	11.0	

注：S2钻尖适用于灰口铸铁、球墨铸铁等钻孔。

Recommend S2 cutting head to be used for grey iron cast, nodular cast iron



QD...S2 标准钻尖S2型 Standard Drilling Head S2



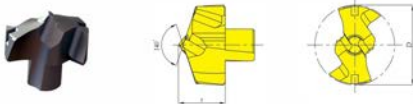
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	l	
QD-200-S2	20.0	11.6	QD200/209-25...D...
QD-201-S2	20.1	11.6	
QD-202-S2	20.2	11.6	
QD-203-S2	20.3	11.6	
QD-204-S2	20.4	11.6	
QD-205-S2	20.5	11.6	
QD-206-S2	20.6	11.6	
QD-207-S2	20.7	11.6	
QD-208-S2	20.8	11.6	
QD-209-S2	20.9	11.6	
QD-210-S2	21.0	12.1	QD210/219-25...D...
QD-211-S2	21.1	12.1	
QD-212-S2	21.2	12.1	
QD-213-S2	21.3	12.1	
QD-214-S2	21.4	12.1	
QD-215-S2	21.5	12.1	
QD-216-S2	21.6	12.1	
QD-217-S2	21.7	12.1	
QD-218-S2	21.8	12.1	
QD-219-S2	21.9	12.1	
QD-220-S2	22.0	12.7	QD220/229-25...D...
QD-221-S2	22.1	12.7	
QD-222-S2	22.2	12.7	
QD-223-S2	22.3	12.7	
QD-224-S2	22.4	12.7	
QD-225-S2	22.5	12.7	
QD-226-S2	22.6	12.7	
QD-227-S2	22.7	12.7	
QD-228-S2	22.8	12.7	
QD-229-S2	22.9	12.7	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	l	
QD-230-S2	23.0	13.3	QD230/239-32...D...
QD-231-S2	23.1	13.3	
QD-232-S2	23.2	13.3	
QD-233-S2	23.3	13.3	
QD-234-S2	23.4	13.3	
QD-235-S2	23.5	13.3	
QD-236-S2	23.6	13.3	
QD-237-S2	23.7	13.3	
QD-238-S2	23.8	13.3	
QD-239-S2	23.9	13.3	
QD-240-S2	24.0	13.9	QD240/249-32...D...
QD-241-S2	24.1	13.9	
QD-242-S2	24.2	13.9	
QD-243-S2	24.3	13.9	
QD-244-S2	24.4	13.9	
QD-245-S2	24.5	13.9	
QD-246-S2	24.6	13.9	
QD-247-S2	24.7	13.9	
QD-248-S2	24.8	13.9	
QD-249-S2	24.9	13.9	
QD-250-S2	25.0	14.5	QD250/260-32...D...
QD-251-S2	25.1	14.5	
QD-252-S2	25.2	14.5	
QD-253-S2	25.3	14.5	
QD-254-S2	25.4	14.5	
QD-255-S2	25.5	14.5	
QD-256-S2	25.6	14.5	
QD-257-S2	25.7	14.5	
QD-258-S2	25.8	14.5	
QD-259-S2	25.9	14.5	
QD-260-S2	26.0	14.5	

注：S2钻尖适用于灰口铸铁、球墨铸铁等钻孔。

Recommend S2 cutting head to be used for grey iron cast, nodular cast iron

QD...RA 特种钻尖RA型 Special Drilling Head RA



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-080-RA	8.0	5.4	QD080/089-12-D...
QD-081-RA	8.1	5.4	
QD-082-RA	8.2	5.4	
QD-083-RA	8.3	5.4	
QD-084-RA	8.4	5.4	
QD-085-RA	8.5	5.4	
QD-086-RA	8.6	5.4	
QD-087-RA	8.7	5.4	
QD-088-RA	8.8	5.4	
QD-089-RA	8.9	5.4	
QD-090-RA	9.0	5.8	QD090/099-12-D...
QD-091-RA	9.1	5.8	
QD-092-RA	9.2	5.8	
QD-093-RA	9.3	5.8	
QD-094-RA	9.4	5.8	
QD-095-RA	9.5	5.8	
QD-096-RA	9.6	5.8	
QD-097-RA	9.7	5.8	
QD-098-RA	9.8	5.8	
QD-099-RA	9.9	5.8	
QD-100-RA	10.0	6.2	QD100/109-16-D...
QD-101-RA	10.1	6.2	
QD-102-RA	10.2	6.2	
QD-103-RA	10.3	6.2	
QD-104-RA	10.4	6.2	
QD-105-RA	10.5	6.2	
QD-106-RA	10.6	6.2	
QD-107-RA	10.7	6.2	
QD-108-RA	10.8	6.2	
QD-109-RA	10.9	6.2	

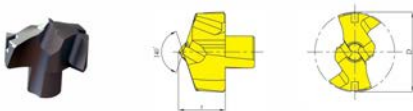
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-110-RA	11.0	6.6	QD110/119-16-D...
QD-111-RA	11.1	6.6	
QD-112-RA	11.2	6.6	
QD-113-RA	11.3	6.6	
QD-114-RA	11.4	6.6	
QD-115-RA	11.5	6.6	
QD-116-RA	11.6	6.6	
QD-117-RA	11.7	6.6	
QD-118-RA	11.8	6.6	
QD-119-RA	11.9	6.6	
QD-120-RA	12.0	7.0	QD120/129-16-D...
QD-121-RA	12.1	7.0	
QD-122-RA	12.2	7.0	
QD-123-RA	12.3	7.0	
QD-124-RA	12.4	7.0	
QD-125-RA	12.5	7.0	
QD-126-RA	12.6	7.0	
QD-127-RA	12.7	7.0	
QD-128-RA	12.8	7.0	
QD-129-RA	12.9	7.0	
QD-130-RA	13.0	7.6	QD130/139-16-D...
QD-131-RA	13.1	7.6	
QD-132-RA	13.2	7.6	
QD-133-RA	13.3	7.6	
QD-134-RA	13.4	7.6	
QD-135-RA	13.5	7.6	
QD-136-RA	13.6	7.6	
QD-137-RA	13.7	7.6	
QD-138-RA	13.8	7.6	
QD-139-RA	13.9	7.6	

注：RA钻尖具有定心功能，轴向钻削力较小，50以上钎孔更具优势，实适用于中高碳钢，合金钢等钻孔。

RA cutting head can drill with self-centering and less drill force and more advantages can be reflected with drilling middle & high carbon, alloy steel etc. (especially for more than 50)



QD...RA 特种钻尖RA型 Special Drilling Head RA



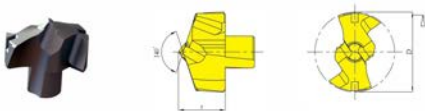
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-140-RA	14.0	8.1	QD140/149-16-D...
QD-141-RA	14.1	8.1	
QD-142-RA	14.2	8.1	
QD-143-RA	14.3	8.1	
QD-144-RA	14.4	8.1	
QD-145-RA	14.5	8.1	
QD-146-RA	14.6	8.1	
QD-147-RA	14.7	8.1	
QD-148-RA	14.8	8.1	
QD-149-RA	14.9	8.1	
QD-150-RA	15.0	8.7	QD150/159-20-D...
QD-151-RA	15.1	8.7	
QD-152-RA	15.2	8.7	
QD-153-RA	15.3	8.7	
QD-154-RA	15.4	8.7	
QD-155-RA	15.5	8.7	
QD-156-RA	15.6	8.7	
QD-157-RA	15.7	8.7	
QD-158-RA	15.8	8.7	
QD-159-RA	15.9	8.7	
QD-160-RA	16.0	9.3	QD160/169-20-D...
QD-161-RA	16.1	9.3	
QD-162-RA	16.2	9.3	
QD-163-RA	16.3	9.3	
QD-164-RA	16.4	9.3	
QD-165-RA	16.5	9.3	
QD-166-RA	16.6	9.3	
QD-167-RA	16.7	9.3	
QD-168-RA	16.8	9.3	
QD-169-RA	16.9	9.3	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-170-RA	17.0	9.9	QD170/179-20-D...
QD-171-RA	17.1	9.9	
QD-172-RA	17.2	9.9	
QD-173-RA	17.3	9.9	
QD-174-RA	17.4	9.9	
QD-175-RA	17.5	9.9	
QD-176-RA	17.6	9.9	
QD-177-RA	17.7	9.9	
QD-178-RA	17.8	9.9	
QD-179-RA	17.9	9.9	
QD-180-RA	18.0	10.5	QD180/189-25-D...
QD-181-RA	18.1	10.5	
QD-182-RA	18.2	10.5	
QD-183-RA	18.3	10.5	
QD-184-RA	18.4	10.5	
QD-185-RA	18.5	10.5	
QD-186-RA	18.6	10.5	
QD-187-RA	18.7	10.5	
QD-188-RA	18.8	10.5	
QD-189-RA	18.9	10.5	
QD-190-RA	19.0	11.0	QD190/199-25-D...
QD-191-RA	19.1	11.0	
QD-192-RA	19.2	11.0	
QD-193-RA	19.3	11.0	
QD-194-RA	19.4	11.0	
QD-195-RA	19.5	11.0	
QD-196-RA	19.6	11.0	
QD-197-RA	19.7	11.0	
QD-198-RA	19.8	11.0	
QD-199-RA	19.9	11.0	

注：RA钻尖具有定心功能，轴向钻削力较小，50以上材料更具优势，实适用于中高碳钢，合金钢等钻孔。

RA cutting head can drill with self-centering and less drill force and more advantages can be reflected with drilling middle & high carbon, alloy steel etc. (especially for more than 50)

QD...RA 特种钻尖RA型 Special Drilling Head RA



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-200-RA	20.0	11.6	QD200/209-25-D...
QD-201-RA	20.1	11.6	
QD-202-RA	20.2	11.6	
QD-203-RA	20.3	11.6	
QD-204-RA	20.4	11.6	
QD-205-RA	20.5	11.6	
QD-206-RA	20.6	11.6	
QD-207-RA	20.7	11.6	
QD-208-RA	20.8	11.6	
QD-209-RA	20.9	11.6	
QD-210-RA	21.0	12.1	QD210/219-25-D...
QD-211-RA	21.1	12.1	
QD-212-RA	21.2	12.1	
QD-213-RA	21.3	12.1	
QD-214-RA	21.4	12.1	
QD-215-RA	21.5	12.1	
QD-216-RA	21.6	12.1	
QD-217-RA	21.7	12.1	
QD-218-RA	21.8	12.1	
QD-219-RA	21.9	12.1	
QD-220-RA	22.0	12.7	QD220/229-25-D...
QD-221-RA	22.1	12.7	
QD-222-RA	22.2	12.7	
QD-223-RA	22.3	12.7	
QD-224-RA	22.4	12.7	
QD-225-RA	22.5	12.7	
QD-226-RA	22.6	12.7	
QD-227-RA	22.7	12.7	
QD-228-RA	22.8	12.7	
QD-229-RA	22.9	12.7	

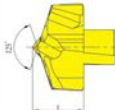
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-230-RA	23.0	13.3	QD230/239-32-D...
QD-231-RA	23.1	13.3	
QD-232-RA	23.2	13.3	
QD-233-RA	23.3	13.3	
QD-234-RA	23.4	13.3	
QD-235-RA	23.5	13.3	
QD-236-RA	23.6	13.3	
QD-237-RA	23.7	13.3	
QD-238-RA	23.8	13.3	
QD-239-RA	23.9	13.3	
QD-240-RA	24.0	13.9	QD240/249-32-D...
QD-241-RA	24.1	13.9	
QD-242-RA	24.2	13.9	
QD-243-RA	24.3	13.9	
QD-244-RA	24.4	13.9	
QD-245-RA	24.5	13.9	
QD-246-RA	24.6	13.9	
QD-247-RA	24.7	13.9	
QD-248-RA	24.8	13.9	
QD-249-RA	24.9	13.9	
QD-250-RA	25.0	14.5	QD250/260-32-D...
QD-251-RA	25.1	14.5	
QD-252-RA	25.2	14.5	
QD-253-RA	25.3	14.5	
QD-254-RA	25.4	14.5	
QD-255-RA	25.5	14.5	
QD-256-RA	25.6	14.5	
QD-257-RA	25.7	14.5	
QD-258-RA	25.8	14.5	
QD-259-RA	25.9	14.5	
QD-260-RA	26.0	14.5	

注：RA钻尖具有定心功能。轴向钻削力较小，50以上材料更具优势，实适用于中高碳钢，合金钢等钻孔。

RA cutting head can drill with self-centering and less drill force and more advantages can be reflected with drilling middle & high carbon, alloy steel etc. (especially for more than 50)



QD...RD 特种钻尖RD型 Special Drilling Head RD



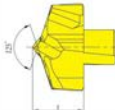
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-080-RD	8.0	5.4	QD080/089-12-D...
QD-081-RD	8.1	5.4	
QD-082-RD	8.2	5.4	
QD-083-RD	8.3	5.4	
QD-084-RD	8.4	5.4	
QD-085-RD	8.5	5.4	
QD-086-RD	8.6	5.4	
QD-087-RD	8.7	5.4	
QD-088-RD	8.8	5.4	
QD-089-RD	8.9	5.4	
QD-090-RD	9.0	5.8	QD090/099-12-D...
QD-091-RD	9.1	5.8	
QD-092-RD	9.2	5.8	
QD-093-RD	9.3	5.8	
QD-094-RD	9.4	5.8	
QD-095-RD	9.5	5.8	
QD-096-RD	9.6	5.8	
QD-097-RD	9.7	5.8	
QD-098-RD	9.8	5.8	
QD-099-RD	9.9	5.8	
QD-100-RD	10.0	6.2	QD100/109-16-D...
QD-101-RD	10.1	6.2	
QD-102-RD	10.2	6.2	
QD-103-RD	10.3	6.2	
QD-104-RD	10.4	6.2	
QD-105-RD	10.5	6.2	
QD-106-RD	10.6	6.2	
QD-107-RD	10.7	6.2	
QD-108-RD	10.8	6.2	
QD-109-RD	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-110-RD	11.0	6.6	QD110/119-16-D...
QD-111-RD	11.1	6.6	
QD-112-RD	11.2	6.6	
QD-113-RD	11.3	6.6	
QD-114-RD	11.4	6.6	
QD-115-RD	11.5	6.6	
QD-116-RD	11.6	6.6	
QD-117-RD	11.7	6.6	
QD-118-RD	11.8	6.6	
QD-119-RD	11.9	6.6	
QD-120-RD	12.0	7.0	QD120/129-16-D...
QD-121-RD	12.1	7.0	
QD-122-RD	12.2	7.0	
QD-123-RD	12.3	7.0	
QD-124-RD	12.4	7.0	
QD-125-RD	12.5	7.0	
QD-126-RD	12.6	7.0	
QD-127-RD	12.7	7.0	
QD-128-RD	12.8	7.0	
QD-129-RD	12.9	7.0	
QD-130-RD	13.0	7.6	QD130/139-16-D...
QD-131-RD	13.1	7.6	
QD-132-RD	13.2	7.6	
QD-133-RD	13.3	7.6	
QD-134-RD	13.4	7.6	
QD-135-RD	13.5	7.6	
QD-136-RD	13.6	7.6	
QD-137-RD	13.7	7.6	
QD-138-RD	13.8	7.6	
QD-139-RD	13.9	7.6	

注：RD钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RD Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.

QD...RD 特种钻尖RD型 Special Drilling Head RD



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-140-RD	14.0	8.1	QD140/149-16-D...
QD-141-RD	14.1	8.1	
QD-142-RD	14.2	8.1	
QD-143-RD	14.3	8.1	
QD-144-RD	14.4	8.1	
QD-145-RD	14.5	8.1	
QD-146-RD	14.6	8.1	
QD-147-RD	14.7	8.1	
QD-148-RD	14.8	8.1	
QD-149-RD	14.9	8.1	
QD-150-RD	15.0	8.7	QD150/159-20-D...
QD-151-RD	15.1	8.7	
QD-152-RD	15.2	8.7	
QD-153-RD	15.3	8.7	
QD-154-RD	15.4	8.7	
QD-155-RD	15.5	8.7	
QD-156-RD	15.6	8.7	
QD-157-RD	15.7	8.7	
QD-158-RD	15.8	8.7	
QD-159-RD	15.9	8.7	
QD-160-RD	16.0	9.3	QD160/169-20-D...
QD-161-RD	16.1	9.3	
QD-162-RD	16.2	9.3	
QD-163-RD	16.3	9.3	
QD-164-RD	16.4	9.3	
QD-165-RD	16.5	9.3	
QD-166-RD	16.6	9.3	
QD-167-RD	16.7	9.3	
QD-168-RD	16.8	9.3	
QD-169-RD	16.9	9.3	

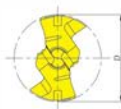
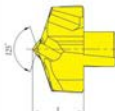
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-170-RD	17.0	9.9	QD170/179-20-D...
QD-171-RD	17.1	9.9	
QD-172-RD	17.2	9.9	
QD-173-RD	17.3	9.9	
QD-174-RD	17.4	9.9	
QD-175-RD	17.5	9.9	
QD-176-RD	17.6	9.9	
QD-177-RD	17.7	9.9	
QD-178-RD	17.8	9.9	
QD-179-RD	17.9	9.9	
QD-180-RD	18.0	10.5	QD180/189-25-D...
QD-181-RD	18.1	10.5	
QD-182-RD	18.2	10.5	
QD-183-RD	18.3	10.5	
QD-184-RD	18.4	10.5	
QD-185-RD	18.5	10.5	
QD-186-RD	18.6	10.5	
QD-187-RD	18.7	10.5	
QD-188-RD	18.8	10.5	
QD-189-RD	18.9	10.5	
QD-190-RD	19.0	11.0	QD190/199-25-D...
QD-191-RD	19.1	11.0	
QD-192-RD	19.2	11.0	
QD-193-RD	19.3	11.0	
QD-194-RD	19.4	11.0	
QD-195-RD	19.5	11.0	
QD-196-RD	19.6	11.0	
QD-197-RD	19.7	11.0	
QD-198-RD	19.8	11.0	
QD-199-RD	19.9	11.0	

注：RD钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RD Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.



QD...RD 特种钻尖RD型 Special Drilling Head RD



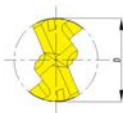
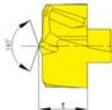
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-200-RD	20.0	11.6	QD200/209-25-D...
QD-201-RD	20.1	11.6	
QD-202-RD	20.2	11.6	
QD-203-RD	20.3	11.6	
QD-204-RD	20.4	11.6	
QD-205-RD	20.5	11.6	
QD-206-RD	20.6	11.6	
QD-207-RD	20.7	11.6	
QD-208-RD	20.8	11.6	
QD-209-RD	20.9	11.6	
QD-210-RD	21.0	12.1	QD210/219-25-D...
QD-211-RD	21.1	12.1	
QD-212-RD	21.2	12.1	
QD-213-RD	21.3	12.1	
QD-214-RD	21.4	12.1	
QD-215-RD	21.5	12.1	
QD-216-RD	21.6	12.1	
QD-217-RD	21.7	12.1	
QD-218-RD	21.8	12.1	
QD-219-RD	21.9	12.1	
QD-220-RD	22.0	12.7	QD220/229-25-D...
QD-221-RD	22.1	12.7	
QD-222-RD	22.2	12.7	
QD-223-RD	22.3	12.7	
QD-224-RD	22.4	12.7	
QD-225-RD	22.5	12.7	
QD-226-RD	22.6	12.7	
QD-227-RD	22.7	12.7	
QD-228-RD	22.8	12.7	
QD-229-RD	22.9	12.7	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-230-RD	23.0	13.3	QD230/239-32-D...
QD-231-RD	23.1	13.3	
QD-232-RD	23.2	13.3	
QD-233-RD	23.3	13.3	
QD-234-RD	23.4	13.3	
QD-235-RD	23.5	13.3	
QD-236-RD	23.6	13.3	
QD-237-RD	23.7	13.3	
QD-238-RD	23.8	13.3	
QD-239-RD	23.9	13.3	
QD-240-RD	24.0	13.9	QD240/249-32-D...
QD-241-RD	24.1	13.9	
QD-242-RD	24.2	13.9	
QD-243-RD	24.3	13.9	
QD-244-RD	24.4	13.9	
QD-245-RD	24.5	13.9	
QD-246-RD	24.6	13.9	
QD-247-RD	24.7	13.9	
QD-248-RD	24.8	13.9	
QD-249-RD	24.9	13.9	
QD-250-RD	25.0	14.5	QD250/260-32-D...
QD-251-RD	25.1	14.5	
QD-252-RD	25.2	14.5	
QD-253-RD	25.3	14.5	
QD-254-RD	25.4	14.5	
QD-255-RD	25.5	14.5	
QD-256-RD	25.6	14.5	
QD-257-RD	25.7	14.5	
QD-258-RD	25.8	14.5	
QD-259-RD	25.9	14.5	
QD-260-RD	26.0	14.5	

注：RD钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RD Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc. and other materials not to be broken easily.

QD...F 平底钻头 Flat Cutting Drilling Head



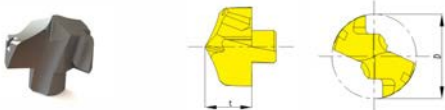
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holder
	D	F	
QD-080-F	8.0	4.0	QD080-089-12-D ₁
QD-085-F	8.5	4.0	
QD-090-F	9.0	4.2	
QD-095-F	9.5	4.2	
QD-100-F	10.0	4.4	QD100-109-16-D ₁
QD-105-F	10.5	4.4	
QD-110-F	11.0	4.5	
QD-115-F	11.5	4.5	
QD-120-F	12.0	4.8	QD120-129-16-D ₁
QD-125-F	12.5	4.8	
QD-130-F	13.0	5.1	
QD-135-F	13.5	5.1	
QD-140-F	14.0	5.5	QD140-149-16-D ₁
QD-145-F	14.5	5.5	
QD-150-F	15.0	5.9	
QD-155-F	15.5	5.9	
QD-160-F	16.0	6.3	QD160-169-20-D ₁
QD-165-F	16.5	6.3	
QD-170-F	17.0	6.6	
QD-175-F	17.5	6.6	
QD-180-F	18.0	6.9	QD180-189-25-D ₁
QD-185-F	18.5	6.9	
QD-190-F	19.0	7.2	
QD-195-F	19.5	7.2	
QD-200-F	20.0	8.2	QD200-209-25-D ₁
QD-205-F	20.5	8.2	
QD-210-F	21.0	8.6	
QD-215-F	21.5	8.6	
QD-220-F	22.0	8.9	QD220-229-25-D ₁
QD-225-F	22.5	8.9	
QD-230-F	23.0	9.3	
QD-235-F	23.5	9.3	
QD-240-F	24.0	9.7	QD240-249-32-D ₁
QD-245-F	24.5	9.7	
QD-250-F	25.0	10.1	
QD-255-F	25.5	10.1	
QD-260-F	26.0	10.1	

注：F平底钻头：具有需要铰平的普通钢材盲孔加工。不推荐用于难加工材料直接钻孔

F flat cutting head can be used for drilling blind flat holes of common material holes, but isn't recommended in drilling difficult-to-machine materials



QD...C 定心刀头 Centering Cutting Drilling Head

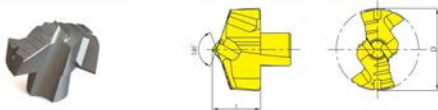


订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holder
	D	T	
QD-080-C	8.0	5.4	QD080-089-12-D...
QD-085-C	8.5	5.4	
QD-090-C	9.0	5.8	
QD-095-C	9.5	5.8	
QD-100-C	10.0	6.2	QD100-109-16-D...
QD-105-C	10.5	6.2	
QD-110-C	11.0	6.6	
QD-115-C	11.5	6.6	
QD-120-C	12.0	7.0	QD120-129-16-D...
QD-125-C	12.5	7.0	
QD-130-C	13.0	7.6	
QD-135-C	13.5	7.6	
QD-140-C	14.0	8.2	QD140-149-16-D...
QD-145-C	14.5	8.2	
QD-150-C	15.0	8.7	
QD-155-C	15.5	8.7	
QD-160-C	16.0	9.3	QD160-169-20-D...
QD-165-C	16.5	9.3	
QD-170-C	17.0	9.9	
QD-175-C	17.5	9.9	
QD-180-C	18.0	10.5	QD180-189-25-D...
QD-185-C	18.5	10.5	
QD-190-C	19.0	11.0	
QD-195-C	19.5	11.0	
QD-200-C	20.0	11.6	QD200-209-25-D...
QD-205-C	20.5	11.6	
QD-210-C	21.0	12.2	
QD-215-C	21.5	12.2	
QD-220-C	22.0	12.8	QD220-229-32-D...
QD-225-C	22.5	12.8	
QD-230-C	23.0	13.3	
QD-235-C	23.5	13.3	
QD-240-C	24.0	13.9	QD240-249-32-D...
QD-245-C	24.5	13.9	
QD-250-C	25.0	14.5	
QD-255-C	25.5	14.5	
QD-260-C	26.0	14.5	QD250-260-32-D...

注：C定心钻尖：具有良好的定心功能的定心钻尖。适用于普通钢材的直接钻孔，不推荐用于难加工材料的钻孔

C self-centering cutting head can be used with excellent centering performance in drilling common metal materials, but isn't recommended for drilling difficult-to-machine materials.

QD...RB 特种钻尖RB型 Special Drilling Head RB



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-080-RB	8.0	5.4	QD080/089-12-D...
QD-081-RB	8.1	5.4	
QD-082-RB	8.2	5.4	
QD-083-RB	8.3	5.4	
QD-084-RB	8.4	5.4	
QD-085-RB	8.5	5.4	
QD-086-RB	8.6	5.4	
QD-087-RB	8.7	5.4	
QD-088-RB	8.8	5.4	
QD-089-RB	8.9	5.4	
QD-090-RB	9.0	5.8	QD090/099-12-D...
QD-091-RB	9.1	5.8	
QD-092-RB	9.2	5.8	
QD-093-RB	9.3	5.8	
QD-094-RB	9.4	5.8	
QD-095-RB	9.5	5.8	
QD-096-RB	9.6	5.8	
QD-097-RB	9.7	5.8	
QD-098-RB	9.8	5.8	
QD-099-RB	9.9	5.8	
QD-100-RB	10.0	6.2	QD100/109-16-D...
QD-101-RB	10.1	6.2	
QD-102-RB	10.2	6.2	
QD-103-RB	10.3	6.2	
QD-104-RB	10.4	6.2	
QD-105-RB	10.5	6.2	
QD-106-RB	10.6	6.2	
QD-107-RB	10.7	6.2	
QD-108-RB	10.8	6.2	
QD-109-RB	10.9	6.2	

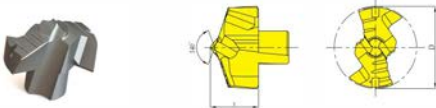
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-110-RB	11.0	6.6	QD110/119-16-D...
QD-111-RB	11.1	6.6	
QD-112-RB	11.2	6.6	
QD-113-RB	11.3	6.6	
QD-114-RB	11.4	6.6	
QD-115-RB	11.5	6.6	
QD-116-RB	11.6	6.6	
QD-117-RB	11.7	6.6	
QD-118-RB	11.8	6.6	
QD-119-RB	11.9	6.6	
QD-120-RB	12.0	7.0	QD120/129-16-D...
QD-121-RB	12.1	7.0	
QD-122-RB	12.2	7.0	
QD-123-RB	12.3	7.0	
QD-124-RB	12.4	7.0	
QD-125-RB	12.5	7.0	
QD-126-RB	12.6	7.0	
QD-127-RB	12.7	7.0	
QD-128-RB	12.8	7.0	
QD-129-RB	12.9	7.0	
QD-130-RB	13.0	7.6	QD130/139-16-D...
QD-131-RB	13.1	7.6	
QD-132-RB	13.2	7.6	
QD-133-RB	13.3	7.6	
QD-134-RB	13.4	7.6	
QD-135-RB	13.5	7.6	
QD-136-RB	13.6	7.6	
QD-137-RB	13.7	7.6	
QD-138-RB	13.8	7.6	
QD-139-RB	13.9	7.6	

注：RB钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易崩屑的材料钻孔。

RB Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.



QD...RB 特种钻尖RB型 Special Drilling Head RB



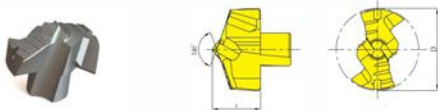
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-140-RB	14.0	8.1	QD140/149-16-D...
QD-141-RB	14.1	8.1	
QD-142-RB	14.2	8.1	
QD-143-RB	14.3	8.1	
QD-144-RB	14.4	8.1	
QD-145-RB	14.5	8.1	
QD-146-RB	14.6	8.1	
QD-147-RB	14.7	8.1	
QD-148-RB	14.8	8.1	
QD-149-RB	14.9	8.1	
QD-150-RB	15.0	8.7	QD150/159-20-D...
QD-151-RB	15.1	8.7	
QD-152-RB	15.2	8.7	
QD-153-RB	15.3	8.7	
QD-154-RB	15.4	8.7	
QD-155-RB	15.5	8.7	
QD-156-RB	15.6	8.7	
QD-157-RB	15.7	8.7	
QD-158-RB	15.8	8.7	
QD-159-RB	15.9	8.7	
QD-160-RB	16.0	9.3	QD160/169-20-D...
QD-161-RB	16.1	9.3	
QD-162-RB	16.2	9.3	
QD-163-RB	16.3	9.3	
QD-164-RB	16.4	9.3	
QD-165-RB	16.5	9.3	
QD-166-RB	16.6	9.3	
QD-167-RB	16.7	9.3	
QD-168-RB	16.8	9.3	
QD-169-RB	16.9	9.3	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-170-RB	17.0	9.9	QD170/179-20-D...
QD-171-RB	17.1	9.9	
QD-172-RB	17.2	9.9	
QD-173-RB	17.3	9.9	
QD-174-RB	17.4	9.9	
QD-175-RB	17.5	9.9	
QD-176-RB	17.6	9.9	
QD-177-RB	17.7	9.9	
QD-178-RB	17.8	9.9	
QD-179-RB	17.9	9.9	
QD-180-RB	18.0	10.5	QD180/189-25-D...
QD-181-RB	18.1	10.5	
QD-182-RB	18.2	10.5	
QD-183-RB	18.3	10.5	
QD-184-RB	18.4	10.5	
QD-185-RB	18.5	10.5	
QD-186-RB	18.6	10.5	
QD-187-RB	18.7	10.5	
QD-188-RB	18.8	10.5	
QD-189-RB	18.9	10.5	
QD-190-RB	19.0	11.0	QD190/199-25-D...
QD-191-RB	19.1	11.0	
QD-192-RB	19.2	11.0	
QD-193-RB	19.3	11.0	
QD-194-RB	19.4	11.0	
QD-195-RB	19.5	11.0	
QD-196-RB	19.6	11.0	
QD-197-RB	19.7	11.0	
QD-198-RB	19.8	11.0	
QD-199-RB	19.9	11.0	

注：RB钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RB Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.

QD...RB 特种钻尖RB型 Special Drilling Head RB



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-200-RB	20.0	11.6	QD200/209-25-D...
QD-201-RB	20.1	11.6	
QD-202-RB	20.2	11.6	
QD-203-RB	20.3	11.6	
QD-204-RB	20.4	11.6	
QD-205-RB	20.5	11.6	
QD-206-RB	20.6	11.6	
QD-207-RB	20.7	11.6	
QD-208-RB	20.8	11.6	
QD-209-RB	20.9	11.6	
QD-210-RB	21.0	12.1	QD210/219-25-D...
QD-211-RB	21.1	12.1	
QD-212-RB	21.2	12.1	
QD-213-RB	21.3	12.1	
QD-214-RB	21.4	12.1	
QD-215-RB	21.5	12.1	
QD-216-RB	21.6	12.1	
QD-217-RB	21.7	12.1	
QD-218-RB	21.8	12.1	
QD-219-RB	21.9	12.1	
QD-220-RB	22.0	12.7	QD220/229-25-D...
QD-221-RB	22.1	12.7	
QD-222-RB	22.2	12.7	
QD-223-RB	22.3	12.7	
QD-224-RB	22.4	12.7	
QD-225-RB	22.5	12.7	
QD-226-RB	22.6	12.7	
QD-227-RB	22.7	12.7	
QD-228-RB	22.8	12.7	
QD-229-RB	22.9	12.7	

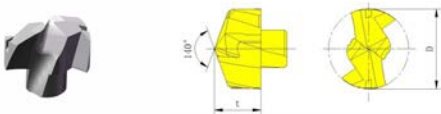
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
QD-230-RB	23.0	13.3	QD230/239-32-D...
QD-231-RB	23.1	13.3	
QD-232-RB	23.2	13.3	
QD-233-RB	23.3	13.3	
QD-234-RB	23.4	13.3	
QD-235-RB	23.5	13.3	
QD-236-RB	23.6	13.3	
QD-237-RB	23.7	13.3	
QD-238-RB	23.8	13.3	
QD-239-RB	23.9	13.3	
QD-240-RB	24.0	13.9	QD240/249-32-D...
QD-241-RB	24.1	13.9	
QD-242-RB	24.2	13.9	
QD-243-RB	24.3	13.9	
QD-244-RB	24.4	13.9	
QD-245-RB	24.5	13.9	
QD-246-RB	24.6	13.9	
QD-247-RB	24.7	13.9	
QD-248-RB	24.8	13.9	
QD-249-RB	24.9	13.9	
QD-250-RB	25.0	14.5	QD250/260-32-D...
QD-251-RB	25.1	14.5	
QD-252-RB	25.2	14.5	
QD-253-RB	25.3	14.5	
QD-254-RB	25.4	14.5	
QD-255-RB	25.5	14.5	
QD-256-RB	25.6	14.5	
QD-257-RB	25.7	14.5	
QD-258-RB	25.8	14.5	
QD-259-RB	25.9	14.5	
QD-260-RB	26.0	14.5	

注：和钻尖具有定心、分离和卷屑功能，适用于锰钢、低碳钢等，以及较软不易断屑的材料钻孔。尤其是对大直径切屑较宽的钻孔，排屑效果尤为明显。

RB: Cuting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.



QD...ST 通用型钻尖ST型 Special Drilling Head ST



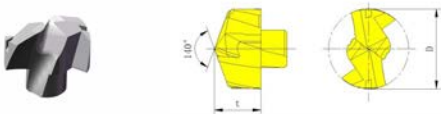
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-080-ST	8.0	5.4	QD080/089-12-D-CST
QD-081-ST	8.1	5.4	
QD-082-ST	8.2	5.4	
QD-083-ST	8.3	5.4	
QD-084-ST	8.4	5.4	
QD-085-ST	8.5	5.4	
QD-086-ST	8.6	5.4	
QD-087-ST	8.7	5.4	
QD-088-ST	8.8	5.4	
QD-089-ST	8.9	5.4	
QD-090-ST	9.0	5.8	QD090/099-12-D-CST
QD-091-ST	9.1	5.8	
QD-092-ST	9.2	5.8	
QD-093-ST	9.3	5.8	
QD-094-ST	9.4	5.8	
QD-095-ST	9.5	5.8	
QD-096-ST	9.6	5.8	
QD-097-ST	9.7	5.8	
QD-098-ST	9.8	5.8	
QD-099-ST	9.9	5.8	
QD-100-ST	10.0	6.2	QD100/109-16-D-CST
QD-101-ST	10.1	6.2	
QD-102-ST	10.2	6.2	
QD-103-ST	10.3	6.2	
QD-104-ST	10.4	6.2	
QD-105-ST	10.5	6.2	
QD-106-ST	10.6	6.2	
QD-107-ST	10.7	6.2	
QD-108-ST	10.8	6.2	
QD-109-ST	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-110-ST	11.0	6.6	QD110/119-16-D-CST
QD-111-ST	11.1	6.6	
QD-112-ST	11.2	6.6	
QD-113-ST	11.3	6.6	
QD-114-ST	11.4	6.6	
QD-115-ST	11.5	6.6	
QD-116-ST	11.6	6.6	
QD-117-ST	11.7	6.6	
QD-118-ST	11.8	6.6	
QD-119-ST	11.9	6.6	
QD-120-ST	12.0	7.0	QD120/129-16-D-CST
QD-121-ST	12.1	7.0	
QD-122-ST	12.2	7.0	
QD-123-ST	12.3	7.0	
QD-124-ST	12.4	7.0	
QD-125-ST	12.5	7.0	
QD-126-ST	12.6	7.0	
QD-127-ST	12.7	7.0	
QD-128-ST	12.8	7.0	
QD-129-ST	12.9	7.0	
QD-130-ST	13.0	7.6	QD130/139-16-D-CST
QD-131-ST	13.1	7.6	
QD-132-ST	13.2	7.6	
QD-133-ST	13.3	7.6	
QD-134-ST	13.4	7.6	
QD-135-ST	13.5	7.6	
QD-136-ST	13.6	7.6	
QD-137-ST	13.7	7.6	
QD-138-ST	13.8	7.6	
QD-139-ST	13.9	7.6	

注：ST钻尖是通用型钻尖，对碳钢、合金钢、锰钢、不锈钢具有良好的钻削性能，与钻杆00...-D-CST配套使用。

ST Cutting head is a universal one, it can be used for drilling stainless steel, carbon steel, Mn steel, alloy steel etc. and other materials for chips not to be broken easily.

QD...ST 通用型钻尖ST型 Special Drilling Head ST



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-140-ST	14.0	8.1	QD140/149-16-D-CST
QD-141-ST	14.1	8.1	
QD-142-ST	14.2	8.1	
QD-143-ST	14.3	8.1	
QD-144-ST	14.4	8.1	
QD-145-ST	14.5	8.1	
QD-146-ST	14.6	8.1	
QD-147-ST	14.7	8.1	
QD-148-ST	14.8	8.1	
QD-149-ST	14.9	8.1	
QD-150-ST	15.0	8.7	QD150/159-20-D-CST
QD-151-ST	15.1	8.7	
QD-152-ST	15.2	8.7	
QD-153-ST	15.3	8.7	
QD-154-ST	15.4	8.7	
QD-155-ST	15.5	8.7	
QD-156-ST	15.6	8.7	
QD-157-ST	15.7	8.7	
QD-158-ST	15.8	8.7	
QD-159-ST	15.9	8.7	
QD-160-ST	16.0	9.3	QD160/169-20-D-CST
QD-161-ST	16.1	9.3	
QD-162-ST	16.2	9.3	
QD-163-ST	16.3	9.3	
QD-164-ST	16.4	9.3	
QD-165-ST	16.5	9.3	
QD-166-ST	16.6	9.3	
QD-167-ST	16.7	9.3	
QD-168-ST	16.8	9.3	
QD-169-ST	16.9	9.3	

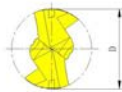
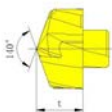
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-170-ST	17.0	9.9	QD170/179-20-D-CST
QD-171-ST	17.1	9.9	
QD-172-ST	17.2	9.9	
QD-173-ST	17.3	9.9	
QD-174-ST	17.4	9.9	
QD-175-ST	17.5	9.9	
QD-176-ST	17.6	9.9	
QD-177-ST	17.7	9.9	
QD-178-ST	17.8	9.9	
QD-179-ST	17.9	9.9	
QD-180-ST	18.0	10.5	QD180/189-25-D-CST
QD-181-ST	18.1	10.5	
QD-182-ST	18.2	10.5	
QD-183-ST	18.3	10.5	
QD-184-ST	18.4	10.5	
QD-185-ST	18.5	10.5	
QD-186-ST	18.6	10.5	
QD-187-ST	18.7	10.5	
QD-188-ST	18.8	10.5	
QD-189-ST	18.9	10.5	
QD-190-ST	19.0	11.0	QD190/199-25-D-CST
QD-191-ST	19.1	11.0	
QD-192-ST	19.2	11.0	
QD-193-ST	19.3	11.0	
QD-194-ST	19.4	11.0	
QD-195-ST	19.5	11.0	
QD-196-ST	19.6	11.0	
QD-197-ST	19.7	11.0	
QD-198-ST	19.8	11.0	
QD-199-ST	19.9	11.0	

注：ST钻尖是通用型钻尖，对碳钢、合金钢、锰钢、不锈钢具有良好的钻削性能，与钻杆00...-D-CST配套使用。

ST Cutting head is a universal one, it can be used for drilling stainless steel, carbon steel, Mn steel, alloy steel etc. and other materials for chips not to be broken easily.



QD...ST 通用型钻尖ST型 Special Drilling Head ST



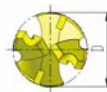
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-200-ST	20.0	11.6	QD200/209-25-D-CST
QD-201-ST	20.1	11.6	
QD-202-ST	20.2	11.6	
QD-203-ST	20.3	11.6	
QD-204-ST	20.4	11.6	
QD-205-ST	20.5	11.6	
QD-206-ST	20.6	11.6	
QD-207-ST	20.7	11.6	
QD-208-ST	20.8	11.6	
QD-209-ST	20.9	11.6	
QD-210-ST	21.0	12.1	QD210/219-25-D-CST
QD-211-ST	21.1	12.1	
QD-212-ST	21.2	12.1	
QD-213-ST	21.3	12.1	
QD-214-ST	21.4	12.1	
QD-215-ST	21.5	12.1	
QD-216-ST	21.6	12.1	
QD-217-ST	21.7	12.1	
QD-218-ST	21.8	12.1	
QD-219-ST	21.9	12.1	
QD-220-ST	22.0	12.7	QD220/229-25-D-CST
QD-221-ST	22.1	12.7	
QD-222-ST	22.2	12.7	
QD-223-ST	22.3	12.7	
QD-224-ST	22.4	12.7	
QD-225-ST	22.5	12.7	
QD-226-ST	22.6	12.7	
QD-227-ST	22.7	12.7	
QD-228-ST	22.8	12.7	
QD-229-ST	22.9	12.7	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-230-ST	23.0	13.3	QD230/239-32-D-CST
QD-231-ST	23.1	13.3	
QD-232-ST	23.2	13.3	
QD-233-ST	23.3	13.3	
QD-234-ST	23.4	13.3	
QD-235-ST	23.5	13.3	
QD-236-ST	23.6	13.3	
QD-237-ST	23.7	13.3	
QD-238-ST	23.8	13.3	
QD-239-ST	23.9	13.3	
QD-240-ST	24.0	13.9	QD240/249-32-D-CST
QD-241-ST	24.1	13.9	
QD-242-ST	24.2	13.9	
QD-243-ST	24.3	13.9	
QD-244-ST	24.4	13.9	
QD-245-ST	24.5	13.9	
QD-246-ST	24.6	13.9	
QD-247-ST	24.7	13.9	
QD-248-ST	24.8	13.9	
QD-249-ST	24.9	13.9	
QD-250-ST	25.0	14.5	QD250/260-32-D-CST
QD-251-ST	25.1	14.5	
QD-252-ST	25.2	14.5	
QD-253-ST	25.3	14.5	
QD-254-ST	25.4	14.5	
QD-255-ST	25.5	14.5	
QD-256-ST	25.6	14.5	
QD-257-ST	25.7	14.5	
QD-258-ST	25.8	14.5	
QD-259-ST	25.9	14.5	
QD-260-ST	26.0	14.5	

注：ST钻尖是通用型钻尖，对碳钢、合金钢、锰钢、不锈钢具有良好的钻削性能，与钻杆QD...-D-CST配套使用。

ST Cutting head is a universal one, it can be used for drilling stainless steel, carbon steel, Mn steel, alloy steel etc. and other materials for chips not to be broken easily.

FD...S1 标准钻尖S1型 Standard Drilling Head S1



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-S1	8.0	5.4	FD080/089-12-D...
FD-081-S1	8.1	5.4	
FD-082-S1	8.2	5.4	
FD-083-S1	8.3	5.4	
FD-084-S1	8.4	5.4	
FD-085-S1	8.5	5.4	
FD-086-S1	8.6	5.4	
FD-087-S1	8.7	5.4	
FD-088-S1	8.8	5.4	
FD-089-S1	8.9	5.4	FD090/099-12-D...
FD-090-S1	9.0	5.8	
FD-091-S1	9.1	5.8	
FD-092-S1	9.2	5.8	
FD-093-S1	9.3	5.8	
FD-094-S1	9.4	5.8	
FD-095-S1	9.5	5.8	
FD-096-S1	9.6	5.8	
FD-097-S1	9.7	5.8	
FD-098-S1	9.8	5.8	FD100/109-16-D...
FD-099-S1	9.9	5.8	
FD-100-S1	10.0	6.2	
FD-101-S1	10.1	6.2	
FD-102-S1	10.2	6.2	
FD-103-S1	10.3	6.2	
FD-104-S1	10.4	6.2	
FD-105-S1	10.5	6.2	
FD-106-S1	10.6	6.2	
FD-107-S1	10.7	6.2	FD130/139-16-D...
FD-108-S1	10.8	6.2	
FD-109-S1	10.9	6.2	

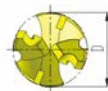
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-S1	11.0	6.6	FD110/119-16-D...
FD-111-S1	11.1	6.6	
FD-112-S1	11.2	6.6	
FD-113-S1	11.3	6.6	
FD-114-S1	11.4	6.6	
FD-115-S1	11.5	6.6	
FD-116-S1	11.6	6.6	
FD-117-S1	11.7	6.6	
FD-118-S1	11.8	6.6	FD120/129-16-D...
FD-119-S1	11.9	6.6	
FD-120-S1	12.0	7.0	
FD-121-S1	12.1	7.0	
FD-122-S1	12.2	7.0	
FD-123-S1	12.3	7.0	
FD-124-S1	12.4	7.0	
FD-125-S1	12.5	7.0	
FD-126-S1	12.6	7.0	FD130/139-16-D...
FD-127-S1	12.7	7.0	
FD-128-S1	12.8	7.0	
FD-129-S1	12.9	7.0	
FD-130-S1	13.0	7.6	
FD-131-S1	13.1	7.6	
FD-132-S1	13.2	7.6	
FD-133-S1	13.3	7.6	
FD-134-S1	13.4	7.6	FD130/139-16-D...
FD-135-S1	13.5	7.6	
FD-136-S1	13.6	7.6	
FD-137-S1	13.7	7.6	
FD-138-S1	13.8	7.6	
FD-139-S1	13.9	7.6	

注：S1钻尖适用于中碳钢、合金钢、球墨铸铁等钻孔（直径50mm以下推荐使用）

Recommend S1 cutting head to be used for middle and high carbon steel, alloy steel, nodular cast iron (specially for less than 50)



FD...S1 标准钻尖S1型 Standard Drilling Head S1



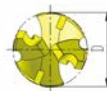
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-S1	14.0	8.1	FD140/149-16-D...
FD-141-S1	14.1	8.1	
FD-142-S1	14.2	8.1	
FD-143-S1	14.3	8.1	
FD-144-S1	14.4	8.1	
FD-145-S1	14.5	8.1	
FD-146-S1	14.6	8.1	
FD-147-S1	14.7	8.1	
FD-148-S1	14.8	8.1	
FD-149-S1	14.9	8.1	
FD-150-S1	15.0	8.7	FD150/159-20-D...
FD-151-S1	15.1	8.7	
FD-152-S1	15.2	8.7	
FD-153-S1	15.3	8.7	
FD-154-S1	15.4	8.7	
FD-155-S1	15.5	8.7	
FD-156-S1	15.6	8.7	
FD-157-S1	15.7	8.7	
FD-158-S1	15.8	8.7	
FD-159-S1	15.9	8.7	
FD-160-S1	16.0	9.3	FD160/169-20-D...
FD-161-S1	16.1	9.3	
FD-162-S1	16.2	9.3	
FD-163-S1	16.3	9.3	
FD-164-S1	16.4	9.3	
FD-165-S1	16.5	9.3	
FD-166-S1	16.6	9.3	
FD-167-S1	16.7	9.3	
FD-168-S1	16.8	9.3	
FD-169-S1	16.9	9.3	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-S1	17.0	9.9	FD170/179-20-D...
FD-171-S1	17.1	9.9	
FD-172-S1	17.2	9.9	
FD-173-S1	17.3	9.9	
FD-174-S1	17.4	9.9	
FD-175-S1	17.5	9.9	
FD-176-S1	17.6	9.9	
FD-177-S1	17.7	9.9	
FD-178-S1	17.8	9.9	
FD-179-S1	17.9	9.9	
FD-180-S1	18.0	10.5	FD180/189-25-D...
FD-181-S1	18.1	10.5	
FD-182-S1	18.2	10.5	
FD-183-S1	18.3	10.5	
FD-184-S1	18.4	10.5	
FD-185-S1	18.5	10.5	
FD-186-S1	18.6	10.5	
FD-187-S1	18.7	10.5	
FD-188-S1	18.8	10.5	
FD-189-S1	18.9	10.5	
FD-190-S1	19.0	11.0	FD190/199-25-D...
FD-191-S1	19.1	11.0	
FD-192-S1	19.2	11.0	
FD-193-S1	19.3	11.0	
FD-194-S1	19.4	11.0	
FD-195-S1	19.5	11.0	
FD-196-S1	19.6	11.0	
FD-197-S1	19.7	11.0	
FD-198-S1	19.8	11.0	
FD-199-S1	19.9	11.0	

注：S1钻尖适用于中碳钢、合金钢、球墨铸铁等钻孔（五倍径孔以下推荐使用）

Recommend S1 cutting head to be used for middle and high carbon steel, alloy steel, nodular cast iron (specially for less than 5D)

FD...S1 标准钻尖S1型 Standard Drilling Head S1



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-200-S1	20.0	11.6	FD200/209-25-D...
FD-201-S1	20.1	11.6	
FD-202-S1	20.2	11.6	
FD-203-S1	20.3	11.6	
FD-204-S1	20.4	11.6	
FD-205-S1	20.5	11.6	
FD-206-S1	20.6	11.6	
FD-207-S1	20.7	11.6	
FD-208-S1	20.8	11.6	
FD-209-S1	20.9	11.6	
FD-210-S1	21.0	12.1	FD210/219-25-D...
FD-211-S1	21.1	12.1	
FD-212-S1	21.2	12.1	
FD-213-S1	21.3	12.1	
FD-214-S1	21.4	12.1	
FD-215-S1	21.5	12.1	
FD-216-S1	21.6	12.1	
FD-217-S1	21.7	12.1	
FD-218-S1	21.8	12.1	
FD-219-S1	21.9	12.1	
FD-220-S1	22.0	12.7	FD220/229-25-D...
FD-221-S1	22.1	12.7	
FD-222-S1	22.2	12.7	
FD-223-S1	22.3	12.7	
FD-224-S1	22.4	12.7	
FD-225-S1	22.5	12.7	
FD-226-S1	22.6	12.7	
FD-227-S1	22.7	12.7	
FD-228-S1	22.8	12.7	
FD-229-S1	22.9	12.7	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-230-S1	23.0	13.3	FD230/239-32-D...
FD-231-S1	23.1	13.3	
FD-232-S1	23.2	13.3	
FD-233-S1	23.3	13.3	
FD-234-S1	23.4	13.3	
FD-235-S1	23.5	13.3	
FD-236-S1	23.6	13.3	
FD-237-S1	23.7	13.3	
FD-238-S1	23.8	13.3	
FD-239-S1	23.9	13.3	
FD-240-S1	24.0	13.9	FD240/249-32-D...
FD-241-S1	24.1	13.9	
FD-242-S1	24.2	13.9	
FD-243-S1	24.3	13.9	
FD-244-S1	24.4	13.9	
FD-245-S1	24.5	13.9	
FD-246-S1	24.6	13.9	
FD-247-S1	24.7	13.9	
FD-248-S1	24.8	13.9	
FD-249-S1	24.9	13.9	
FD-250-S1	25.0	14.5	FD250/260-32-D...
FD-251-S1	25.1	14.5	
FD-252-S1	25.2	14.5	
FD-253-S1	25.3	14.5	
FD-254-S1	25.4	14.5	
FD-255-S1	25.5	14.5	
FD-256-S1	25.6	14.5	
FD-257-S1	25.7	14.5	
FD-258-S1	25.8	14.5	
FD-259-S1	25.9	14.5	
FD-260-S1	26.0	14.5	

注：S1钻尖适用于中碳钢、合金钢、球墨铸铁等钻孔（直径50mm以下推荐使用）

Recommend S1 cutting head to be used for middle and high carbon steel, alloy steel, nodular cast iron (specially for less than 50)



FD...S2 标准钻尖S2型 Standard Drilling Head S2



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-S2	8.0	5.4	FD080/089-12-D...
FD-081-S2	8.1	5.4	
FD-082-S2	8.2	5.4	
FD-083-S2	8.3	5.4	
FD-084-S2	8.4	5.4	
FD-085-S2	8.5	5.4	
FD-086-S2	8.6	5.4	
FD-087-S2	8.7	5.4	
FD-088-S2	8.8	5.4	
FD-089-S2	8.9	5.4	
FD-090-S2	9.0	5.8	FD090/099-12-D...
FD-091-S2	9.1	5.8	
FD-092-S2	9.2	5.8	
FD-093-S2	9.3	5.8	
FD-094-S2	9.4	5.8	
FD-095-S2	9.5	5.8	
FD-096-S2	9.6	5.8	
FD-097-S2	9.7	5.8	
FD-098-S2	9.8	5.8	
FD-099-S2	9.9	5.8	
FD-100-S2	10.0	6.2	FD100/109-16-D...
FD-101-S2	10.1	6.2	
FD-102-S2	10.2	6.2	
FD-103-S2	10.3	6.2	
FD-104-S2	10.4	6.2	
FD-105-S2	10.5	6.2	
FD-106-S2	10.6	6.2	
FD-107-S2	10.7	6.2	
FD-108-S2	10.8	6.2	
FD-109-S2	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-S2	11.0	6.6	FD110/119-16-D...
FD-111-S2	11.1	6.6	
FD-112-S2	11.2	6.6	
FD-113-S2	11.3	6.6	
FD-114-S2	11.4	6.6	
FD-115-S2	11.5	6.6	
FD-116-S2	11.6	6.6	
FD-117-S2	11.7	6.6	
FD-118-S2	11.8	6.6	
FD-119-S2	11.9	6.6	
FD-120-S2	12.0	7.0	FD120/129-16-D...
FD-121-S2	12.1	7.0	
FD-122-S2	12.2	7.0	
FD-123-S2	12.3	7.0	
FD-124-S2	12.4	7.0	
FD-125-S2	12.5	7.0	
FD-126-S2	12.6	7.0	
FD-127-S2	12.7	7.0	
FD-128-S2	12.8	7.0	
FD-129-S2	12.9	7.0	
FD-130-S2	13.0	7.6	FD130/139-16-D...
FD-131-S2	13.1	7.6	
FD-132-S2	13.2	7.6	
FD-133-S2	13.3	7.6	
FD-134-S2	13.4	7.6	
FD-135-S2	13.5	7.6	
FD-136-S2	13.6	7.6	
FD-137-S2	13.7	7.6	
FD-138-S2	13.8	7.6	
FD-139-S2	13.9	7.6	

注：S2钻尖适用于灰口铸铁、球墨铸铁等钻孔。

Recommend S2 cutting head to be used for grey iron cast, nodular cast iron

FD...S2 标准钻尖S2型 Standard Drilling Head S2



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-S2	14.0	8.1	FD140/149-16-D...
FD-141-S2	14.1	8.1	
FD-142-S2	14.2	8.1	
FD-143-S2	14.3	8.1	
FD-144-S2	14.4	8.1	
FD-145-S2	14.5	8.1	
FD-146-S2	14.6	8.1	
FD-147-S2	14.7	8.1	
FD-148-S2	14.8	8.1	
FD-149-S2	14.9	8.1	
FD-150-S2	15.0	8.7	FD150/159-20-D...
FD-151-S2	15.1	8.7	
FD-152-S2	15.2	8.7	
FD-153-S2	15.3	8.7	
FD-154-S2	15.4	8.7	
FD-155-S2	15.5	8.7	
FD-156-S2	15.6	8.7	
FD-157-S2	15.7	8.7	
FD-158-S2	15.8	8.7	
FD-159-S2	15.9	8.7	
FD-160-S2	16.0	9.3	FD160/169-20-D...
FD-161-S2	16.1	9.3	
FD-162-S2	16.2	9.3	
FD-163-S2	16.3	9.3	
FD-164-S2	16.4	9.3	
FD-165-S2	16.5	9.3	
FD-166-S2	16.6	9.3	
FD-167-S2	16.7	9.3	
FD-168-S2	16.8	9.3	
FD-169-S2	16.9	9.3	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-S2	17.0	9.9	FD170/179-20-D...
FD-171-S2	17.1	9.9	
FD-172-S2	17.2	9.9	
FD-173-S2	17.3	9.9	
FD-174-S2	17.4	9.9	
FD-175-S2	17.5	9.9	
FD-176-S2	17.6	9.9	
FD-177-S2	17.7	9.9	
FD-178-S2	17.8	9.9	
FD-179-S2	17.9	9.9	
FD-180-S2	18.0	10.5	FD180/189-25-D...
FD-181-S2	18.1	10.5	
FD-182-S2	18.2	10.5	
FD-183-S2	18.3	10.5	
FD-184-S2	18.4	10.5	
FD-185-S2	18.5	10.5	
FD-186-S2	18.6	10.5	
FD-187-S2	18.7	10.5	
FD-188-S2	18.8	10.5	
FD-189-S2	18.9	10.5	
FD-190-S2	19.0	11.0	FD190/199-25-D...
FD-191-S2	19.1	11.0	
FD-192-S2	19.2	11.0	
FD-193-S2	19.3	11.0	
FD-194-S2	19.4	11.0	
FD-195-S2	19.5	11.0	
FD-196-S2	19.6	11.0	
FD-197-S2	19.7	11.0	
FD-198-S2	19.8	11.0	
FD-199-S2	19.9	11.0	

注：S2钻尖适用于灰口铸铁、球墨铸铁等钻孔。

Recommend S2 cutting head to be used for grey iron cast, nodular cast iron



FD...S2 标准钻尖S2型 Standard Drilling Head S2



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-200-S2	20.0	11.6	FD200/209-25-D...
FD-201-S2	20.1	11.6	
FD-202-S2	20.2	11.6	
FD-203-S2	20.3	11.6	
FD-204-S2	20.4	11.6	
FD-205-S2	20.5	11.6	
FD-206-S2	20.6	11.6	
FD-207-S2	20.7	11.6	
FD-208-S2	20.8	11.6	
FD-209-S2	20.9	11.6	
FD-210-S2	21.0	12.1	FD210/219-25-D...
FD-211-S2	21.1	12.1	
FD-212-S2	21.2	12.1	
FD-213-S2	21.3	12.1	
FD-214-S2	21.4	12.1	
FD-215-S2	21.5	12.1	
FD-216-S2	21.6	12.1	
FD-217-S2	21.7	12.1	
FD-218-S2	21.8	12.1	
FD-219-S2	21.9	12.1	
FD-220-S2	22.0	12.7	FD220/229-25-D...
FD-221-S2	22.1	12.7	
FD-222-S2	22.2	12.7	
FD-223-S2	22.3	12.7	
FD-224-S2	22.4	12.7	
FD-225-S2	22.5	12.7	
FD-226-S2	22.6	12.7	
FD-227-S2	22.7	12.7	
FD-228-S2	22.8	12.7	
FD-229-S2	22.9	12.7	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-230-S2	23.0	13.3	FD230/239-32-D...
FD-231-S2	23.1	13.3	
FD-232-S2	23.2	13.3	
FD-233-S2	23.3	13.3	
FD-234-S2	23.4	13.3	
FD-235-S2	23.5	13.3	
FD-236-S2	23.6	13.3	
FD-237-S2	23.7	13.3	
FD-238-S2	23.8	13.3	
FD-239-S2	23.9	13.3	
FD-240-S2	24.0	13.9	FD240/249-32-D...
FD-241-S2	24.1	13.9	
FD-242-S2	24.2	13.9	
FD-243-S2	24.3	13.9	
FD-244-S2	24.4	13.9	
FD-245-S2	24.5	13.9	
FD-246-S2	24.6	13.9	
FD-247-S2	24.7	13.9	
FD-248-S2	24.8	13.9	
FD-249-S2	24.9	13.9	
FD-250-S2	25.0	14.5	FD250/260-32-D...
FD-251-S2	25.1	14.5	
FD-252-S2	25.2	14.5	
FD-253-S2	25.3	14.5	
FD-254-S2	25.4	14.5	
FD-255-S2	25.5	14.5	
FD-256-S2	25.6	14.5	
FD-257-S2	25.7	14.5	
FD-258-S2	25.8	14.5	
FD-259-S2	25.9	14.5	
FD-260-S2	26.0	14.5	

注：S2钻尖适用于灰口铸铁、球墨铸铁等钻孔。

Recommend S2 cutting head to be used for grey iron cast, nodular cast iron

FD...RA 特种钻尖RA型 Special Drilling Head RA



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-RA	8.0	5.4	FD080/089-12-D...
FD-081-RA	8.1	5.4	
FD-082-RA	8.2	5.4	
FD-083-RA	8.3	5.4	
FD-084-RA	8.4	5.4	
FD-085-RA	8.5	5.4	
FD-086-RA	8.6	5.4	
FD-087-RA	8.7	5.4	
FD-088-RA	8.8	5.4	
FD-089-RA	8.9	5.4	
FD-090-RA	9.0	5.8	FD090/099-12-D...
FD-091-RA	9.1	5.8	
FD-092-RA	9.2	5.8	
FD-093-RA	9.3	5.8	
FD-094-RA	9.4	5.8	
FD-095-RA	9.5	5.8	
FD-096-RA	9.6	5.8	
FD-097-RA	9.7	5.8	
FD-098-RA	9.8	5.8	
FD-099-RA	9.9	5.8	
FD-100-RA	10.0	6.2	FD100/109-16-D...
FD-101-RA	10.1	6.2	
FD-102-RA	10.2	6.2	
FD-103-RA	10.3	6.2	
FD-104-RA	10.4	6.2	
FD-105-RA	10.5	6.2	
FD-106-RA	10.6	6.2	
FD-107-RA	10.7	6.2	
FD-108-RA	10.8	6.2	
FD-109-RA	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-RA	11.0	6.6	FD110/119-16-D...
FD-111-RA	11.1	6.6	
FD-112-RA	11.2	6.6	
FD-113-RA	11.3	6.6	
FD-114-RA	11.4	6.6	
FD-115-RA	11.5	6.6	
FD-116-RA	11.6	6.6	
FD-117-RA	11.7	6.6	
FD-118-RA	11.8	6.6	
FD-119-RA	11.9	6.6	
FD-120-RA	12.0	7.0	FD120/129-16-D...
FD-121-RA	12.1	7.0	
FD-122-RA	12.2	7.0	
FD-123-RA	12.3	7.0	
FD-124-RA	12.4	7.0	
FD-125-RA	12.5	7.0	
FD-126-RA	12.6	7.0	
FD-127-RA	12.7	7.0	
FD-128-RA	12.8	7.0	
FD-129-RA	12.9	7.0	
FD-130-RA	13.0	7.6	FD130/139-16-D...
FD-131-RA	13.1	7.6	
FD-132-RA	13.2	7.6	
FD-133-RA	13.3	7.6	
FD-134-RA	13.4	7.6	
FD-135-RA	13.5	7.6	
FD-136-RA	13.6	7.6	
FD-137-RA	13.7	7.6	
FD-138-RA	13.8	7.6	
FD-139-RA	13.9	7.6	

注：RA钻尖具有定心功能，轴向钻削力较小，50以上材料更具优势，实适用于中高碳钢，合金钢等钻孔。

RA cutting head can drill with self-centering and less drill force and more advantages can be reflected with drilling middle & high carbon, alloy steel etc. (especially for more than 50)



FD...RA 特种钻尖RA型 Special Drilling Head RA



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-RA	14.0	8.1	FD140/149-16-D...
FD-141-RA	14.1	8.1	
FD-142-RA	14.2	8.1	
FD-143-RA	14.3	8.1	
FD-144-RA	14.4	8.1	
FD-145-RA	14.5	8.1	
FD-146-RA	14.6	8.1	
FD-147-RA	14.7	8.1	
FD-148-RA	14.8	8.1	
FD-149-RA	14.9	8.1	
FD-150-RA	15.0	8.7	FD150/159-20-D...
FD-151-RA	15.1	8.7	
FD-152-RA	15.2	8.7	
FD-153-RA	15.3	8.7	
FD-154-RA	15.4	8.7	
FD-155-RA	15.5	8.7	
FD-156-RA	15.6	8.7	
FD-157-RA	15.7	8.7	
FD-158-RA	15.8	8.7	
FD-159-RA	15.9	8.7	
FD-160-RA	16.0	9.3	FD160/169-20-D...
FD-161-RA	16.1	9.3	
FD-162-RA	16.2	9.3	
FD-163-RA	16.3	9.3	
FD-164-RA	16.4	9.3	
FD-165-RA	16.5	9.3	
FD-166-RA	16.6	9.3	
FD-167-RA	16.7	9.3	
FD-168-RA	16.8	9.3	
FD-169-RA	16.9	9.3	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-RA	17.0	9.9	FD170/179-20-D...
FD-171-RA	17.1	9.9	
FD-172-RA	17.2	9.9	
FD-173-RA	17.3	9.9	
FD-174-RA	17.4	9.9	
FD-175-RA	17.5	9.9	
FD-176-RA	17.6	9.9	
FD-177-RA	17.7	9.9	
FD-178-RA	17.8	9.9	
FD-179-RA	17.9	9.9	
FD-180-RA	18.0	10.5	FD180/189-25-D...
FD-181-RA	18.1	10.5	
FD-182-RA	18.2	10.5	
FD-183-RA	18.3	10.5	
FD-184-RA	18.4	10.5	
FD-185-RA	18.5	10.5	
FD-186-RA	18.6	10.5	
FD-187-RA	18.7	10.5	
FD-188-RA	18.8	10.5	
FD-189-RA	18.9	10.5	
FD-190-RA	19.0	11.0	FD190/199-25-D...
FD-191-RA	19.1	11.0	
FD-192-RA	19.2	11.0	
FD-193-RA	19.3	11.0	
FD-194-RA	19.4	11.0	
FD-195-RA	19.5	11.0	
FD-196-RA	19.6	11.0	
FD-197-RA	19.7	11.0	
FD-198-RA	19.8	11.0	
FD-199-RA	19.9	11.0	

注：RA钻尖具有定心功能，轴向钻削力较小，50以上钻孔更具优势，实适用于中高碳钢，合金钢等钻孔。

RA cutting head can drill with self-centering and less drill force and more advantages can be reflected with drilling middle & high carbon, alloy steel etc. (especially for more than 50)

FD...RA 特种钻尖RA型 Special Drilling Head RA



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-200-RA	20.0	11.6	FD200/209-25-D...
FD-201-RA	20.1	11.6	
FD-202-RA	20.2	11.6	
FD-203-RA	20.3	11.6	
FD-204-RA	20.4	11.6	
FD-205-RA	20.5	11.6	
FD-206-RA	20.6	11.6	
FD-207-RA	20.7	11.6	
FD-208-RA	20.8	11.6	
FD-209-RA	20.9	11.6	
FD-210-RA	21.0	12.1	FD210/219-25-D...
FD-211-RA	21.1	12.1	
FD-212-RA	21.2	12.1	
FD-213-RA	21.3	12.1	
FD-214-RA	21.4	12.1	
FD-215-RA	21.5	12.1	
FD-216-RA	21.6	12.1	
FD-217-RA	21.7	12.1	
FD-218-RA	21.8	12.1	
FD-219-RA	21.9	12.1	
FD-220-RA	22.0	12.7	FD220/229-25-D...
FD-221-RA	22.1	12.7	
FD-222-RA	22.2	12.7	
FD-223-RA	22.3	12.7	
FD-224-RA	22.4	12.7	
FD-225-RA	22.5	12.7	
FD-226-RA	22.6	12.7	
FD-227-RA	22.7	12.7	
FD-228-RA	22.8	12.7	
FD-229-RA	22.9	12.7	

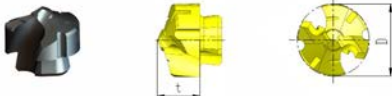
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-230-RA	23.0	13.3	FD230/239-32-D...
FD-231-RA	23.1	13.3	
FD-232-RA	23.2	13.3	
FD-233-RA	23.3	13.3	
FD-234-RA	23.4	13.3	
FD-235-RA	23.5	13.3	
FD-236-RA	23.6	13.3	
FD-237-RA	23.7	13.3	
FD-238-RA	23.8	13.3	
FD-239-RA	23.9	13.3	
FD-240-RA	24.0	13.9	FD240/249-32-D...
FD-241-RA	24.1	13.9	
FD-242-RA	24.2	13.9	
FD-243-RA	24.3	13.9	
FD-244-RA	24.4	13.9	
FD-245-RA	24.5	13.9	
FD-246-RA	24.6	13.9	
FD-247-RA	24.7	13.9	
FD-248-RA	24.8	13.9	
FD-249-RA	24.9	13.9	
FD-250-RA	25.0	14.5	FD250/260-32-D...
FD-251-RA	25.1	14.5	
FD-252-RA	25.2	14.5	
FD-253-RA	25.3	14.5	
FD-254-RA	25.4	14.5	
FD-255-RA	25.5	14.5	
FD-256-RA	25.6	14.5	
FD-257-RA	25.7	14.5	
FD-258-RA	25.8	14.5	
FD-259-RA	25.9	14.5	
FD-260-RA	26.0	14.5	

注：RA钻尖具有定心功能。轴向钻削力较小，50以上材料更具优势。实适用于中高碳钢，合金钢等钻孔。

RA cutting head can drill with self-centering and less drill force and more advantages can be reflected with drilling middle & high carbon, alloy steel etc. (especially for more than 50)



FD...RD 特种钻尖RD型 Special Drilling Head RD



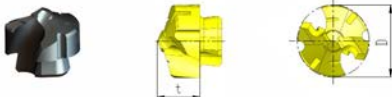
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-RD	8.0	5.4	FD080/089-12-D...
FD-081-RD	8.1	5.4	
FD-082-RD	8.2	5.4	
FD-083-RD	8.3	5.4	
FD-084-RD	8.4	5.4	
FD-085-RD	8.5	5.4	
FD-086-RD	8.6	5.4	
FD-087-RD	8.7	5.4	
FD-088-RD	8.8	5.4	
FD-089-RD	8.9	5.4	
FD-090-RD	9.0	5.8	FD090/099-12-D...
FD-091-RD	9.1	5.8	
FD-092-RD	9.2	5.8	
FD-093-RD	9.3	5.8	
FD-094-RD	9.4	5.8	
FD-095-RD	9.5	5.8	
FD-096-RD	9.6	5.8	
FD-097-RD	9.7	5.8	
FD-098-RD	9.8	5.8	
FD-099-RD	9.9	5.8	
FD-100-RD	10.0	6.2	FD100/109-16-D...
FD-101-RD	10.1	6.2	
FD-102-RD	10.2	6.2	
FD-103-RD	10.3	6.2	
FD-104-RD	10.4	6.2	
FD-105-RD	10.5	6.2	
FD-106-RD	10.6	6.2	
FD-107-RD	10.7	6.2	
FD-108-RD	10.8	6.2	
FD-109-RD	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-RD	11.0	6.6	FD110/119-16-D...
FD-111-RD	11.1	6.6	
FD-112-RD	11.2	6.6	
FD-113-RD	11.3	6.6	
FD-114-RD	11.4	6.6	
FD-115-RD	11.5	6.6	
FD-116-RD	11.6	6.6	
FD-117-RD	11.7	6.6	
FD-118-RD	11.8	6.6	
FD-119-RD	11.9	6.6	
FD-120-RD	12.0	7.0	FD120/129-16-D...
FD-121-RD	12.1	7.0	
FD-122-RD	12.2	7.0	
FD-123-RD	12.3	7.0	
FD-124-RD	12.4	7.0	
FD-125-RD	12.5	7.0	
FD-126-RD	12.6	7.0	
FD-127-RD	12.7	7.0	
FD-128-RD	12.8	7.0	
FD-129-RD	12.9	7.0	
FD-130-RD	13.0	7.6	FD130/139-16-D...
FD-131-RD	13.1	7.6	
FD-132-RD	13.2	7.6	
FD-133-RD	13.3	7.6	
FD-134-RD	13.4	7.6	
FD-135-RD	13.5	7.6	
FD-136-RD	13.6	7.6	
FD-137-RD	13.7	7.6	
FD-138-RD	13.8	7.6	
FD-139-RD	13.9	7.6	

注：RD钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RD Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.

FD...RD 特种钻尖RD型 Special Drilling Head RD



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-RD	14.0	8.1	FD140/149-16-D...
FD-141-RD	14.1	8.1	
FD-142-RD	14.2	8.1	
FD-143-RD	14.3	8.1	
FD-144-RD	14.4	8.1	
FD-145-RD	14.5	8.1	
FD-146-RD	14.6	8.1	
FD-147-RD	14.7	8.1	
FD-148-RD	14.8	8.1	
FD-149-RD	14.9	8.1	
FD-150-RD	15.0	8.7	FD150/159-20-D...
FD-151-RD	15.1	8.7	
FD-152-RD	15.2	8.7	
FD-153-RD	15.3	8.7	
FD-154-RD	15.4	8.7	
FD-155-RD	15.5	8.7	
FD-156-RD	15.6	8.7	
FD-157-RD	15.7	8.7	
FD-158-RD	15.8	8.7	
FD-159-RD	15.9	8.7	
FD-160-RD	16.0	9.3	FD160/169-20-D...
FD-161-RD	16.1	9.3	
FD-162-RD	16.2	9.3	
FD-163-RD	16.3	9.3	
FD-164-RD	16.4	9.3	
FD-165-RD	16.5	9.3	
FD-166-RD	16.6	9.3	
FD-167-RD	16.7	9.3	
FD-168-RD	16.8	9.3	
FD-169-RD	16.9	9.3	

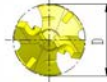
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-RD	17.0	9.9	FD170/179-20-D...
FD-171-RD	17.1	9.9	
FD-172-RD	17.2	9.9	
FD-173-RD	17.3	9.9	
FD-174-RD	17.4	9.9	
FD-175-RD	17.5	9.9	
FD-176-RD	17.6	9.9	
FD-177-RD	17.7	9.9	
FD-178-RD	17.8	9.9	
FD-179-RD	17.9	9.9	
FD-180-RD	18.0	10.5	FD180/189-25-D...
FD-181-RD	18.1	10.5	
FD-182-RD	18.2	10.5	
FD-183-RD	18.3	10.5	
FD-184-RD	18.4	10.5	
FD-185-RD	18.5	10.5	
FD-186-RD	18.6	10.5	
FD-187-RD	18.7	10.5	
FD-188-RD	18.8	10.5	
FD-189-RD	18.9	10.5	
FD-190-RD	19.0	11.0	FD190/199-25-D...
FD-191-RD	19.1	11.0	
FD-192-RD	19.2	11.0	
FD-193-RD	19.3	11.0	
FD-194-RD	19.4	11.0	
FD-195-RD	19.5	11.0	
FD-196-RD	19.6	11.0	
FD-197-RD	19.7	11.0	
FD-198-RD	19.8	11.0	
FD-199-RD	19.9	11.0	

注：RD钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RD Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.



FD...RD 特种钻尖RD型 Special Drilling Head RD



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-200-RD	20.0	11.6	FD200/209-25-D...
FD-201-RD	20.1	11.6	
FD-202-RD	20.2	11.6	
FD-203-RD	20.3	11.6	
FD-204-RD	20.4	11.6	
FD-205-RD	20.5	11.6	
FD-206-RD	20.6	11.6	
FD-207-RD	20.7	11.6	
FD-208-RD	20.8	11.6	
FD-209-RD	20.9	11.6	
FD-210-RD	21.0	12.1	FD210/219-25-D...
FD-211-RD	21.1	12.1	
FD-212-RD	21.2	12.1	
FD-213-RD	21.3	12.1	
FD-214-RD	21.4	12.1	
FD-215-RD	21.5	12.1	
FD-216-RD	21.6	12.1	
FD-217-RD	21.7	12.1	
FD-218-RD	21.8	12.1	
FD-219-RD	21.9	12.1	
FD-220-RD	22.0	12.7	FD220/229-25-D...
FD-221-RD	22.1	12.7	
FD-222-RD	22.2	12.7	
FD-223-RD	22.3	12.7	
FD-224-RD	22.4	12.7	
FD-225-RD	22.5	12.7	
FD-226-RD	22.6	12.7	
FD-227-RD	22.7	12.7	
FD-228-RD	22.8	12.7	
FD-229-RD	22.9	12.7	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-230-RD	23.0	13.3	FD230/239-32-D...
FD-231-RD	23.1	13.3	
FD-232-RD	23.2	13.3	
FD-233-RD	23.3	13.3	
FD-234-RD	23.4	13.3	
FD-235-RD	23.5	13.3	
FD-236-RD	23.6	13.3	
FD-237-RD	23.7	13.3	
FD-238-RD	23.8	13.3	
FD-239-RD	23.9	13.3	
FD-240-RD	24.0	13.9	FD240/249-32-D...
FD-241-RD	24.1	13.9	
FD-242-RD	24.2	13.9	
FD-243-RD	24.3	13.9	
FD-244-RD	24.4	13.9	
FD-245-RD	24.5	13.9	
FD-246-RD	24.6	13.9	
FD-247-RD	24.7	13.9	
FD-248-RD	24.8	13.9	
FD-249-RD	24.9	13.9	
FD-250-RD	25.0	14.5	FD250/260-32-D...
FD-251-RD	25.1	14.5	
FD-252-RD	25.2	14.5	
FD-253-RD	25.3	14.5	
FD-254-RD	25.4	14.5	
FD-255-RD	25.5	14.5	
FD-256-RD	25.6	14.5	
FD-257-RD	25.7	14.5	
FD-258-RD	25.8	14.5	
FD-259-RD	25.9	14.5	
FD-260-RD	26.0	14.5	

注：RD钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RD Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc. and other materials not to be broken easily.

FD...F 平底钻头 Flat Cutting Drilling Head



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-F	8.0	4.0	FD080-089-12-D...
FD-085-F	8.5	4.0	
FD-090-F	9.0	4.2	
FD-095-F	9.5	4.2	FD090-099-12-D...
FD-100-F	10.0	4.4	
FD-105-F	10.5	4.4	
FD-110-F	11.0	4.5	FD110-119-16-D...
FD-115-F	11.5	4.5	
FD-120-F	12.0	4.8	
FD-125-F	12.5	4.8	FD120-129-16-D...
FD-130-F	13.0	5.1	
FD-135-F	13.5	5.1	
FD-140-F	14.0	5.5	FD140-149-16-D...
FD-145-F	14.5	5.5	
FD-150-F	15.0	5.9	
FD-155-F	15.5	5.9	FD150-159-20-D...
FD-160-F	16.0	6.3	
FD-165-F	16.5	6.3	
FD-170-F	17.0	6.6	FD170-179-20-D...
FD-175-F	17.5	6.6	
FD-180-F	18.0	6.9	
FD-185-F	18.5	6.9	FD180-189-25-D...
FD-190-F	19.0	7.2	
FD-195-F	19.5	7.2	
FD-200-F	20.0	8.2	FD200-209-25-D...
FD-205-F	20.5	8.2	
FD-210-F	21.0	8.6	
FD-215-F	21.5	8.6	FD210-219-25-D...
FD-220-F	22.0	8.9	
FD-225-F	22.5	8.9	
FD-230-F	23.0	9.3	FD230-239-32-D...
FD-235-F	23.5	9.3	
FD-240-F	24.0	9.7	
FD-245-F	24.5	9.7	FD240-249-32-D...
FD-250-F	25.0	10.1	
FD-255-F	25.5	10.1	
FD-260-F	26.0	10.1	FD250-260-32-D...

注：F平底钻尖：具有需要磨平的普通钢材盲孔加工。不推荐用于难加工材料直接钻孔

F flat cutting head can be used for drilling blind flat holes of common material holes, but isn't recommended in drilling difficult-to-machine materials



FD...C 定心刀头 Centering Cutting Drilling Head



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	T	
FD-080-C	8.0	5.4	FD080-089-12-D...
FD-085-C	8.5	5.4	
FD-090-C	9.0	5.8	
FD-095-C	9.5	5.8	FD090-099-12-D...
FD-100-C	10.0	6.2	
FD-105-C	10.5	6.2	
FD-110-C	11.0	6.6	FD110-119-16-D...
FD-115-C	11.5	6.6	
FD-120-C	12.0	7.0	
FD-125-C	12.5	7.0	FD120-129-16-D...
FD-130-C	13.0	7.6	
FD-135-C	13.5	7.6	
FD-140-C	14.0	8.2	FD140-149-16-D...
FD-145-C	14.5	8.2	
FD-150-C	15.0	8.7	
FD-155-C	15.5	8.7	FD150-159-20-D...
FD-160-C	16.0	9.3	
FD-165-C	16.5	9.3	
FD-170-C	17.0	9.9	FD170-179-20-D...
FD-175-C	17.5	9.9	
FD-180-C	18.0	10.5	
FD-185-C	18.5	10.5	FD180-189-25-D...
FD-190-C	19.0	11.0	
FD-195-C	19.5	11.0	
FD-200-C	20.0	11.6	FD200-209-25-D...
FD-205-C	20.5	11.6	
FD-210-C	21.0	12.2	
FD-215-C	21.5	12.2	FD210-219-25-D...
FD-220-C	22.0	12.8	
FD-225-C	22.5	12.8	
FD-230-C	23.0	13.3	FD230-239-32-D...
FD-235-C	23.5	13.3	
FD-240-C	24.0	13.9	
FD-245-C	24.5	13.9	FD240-249-32-D...
FD-250-C	25.0	14.5	
FD-255-C	25.5	14.5	
FD-260-C	26.0	14.5	FD250-260-32-D...

注：C定心钻头：具有良好的定心功能的定心钻头。适用于普通钢材的直接钻孔，不推荐用于难加工材料的钻孔

C self-centering cutting head can be used with excellent centering performance in drilling common metal materials, but isn't recommended for drilling difficult-to-machine materials.

FD...RB 特种钻尖RB型 Special Drilling Head RB



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-080-RB	8.0	5.4	FD080/089-12-D...
FD-081-RB	8.1	5.4	
FD-082-RB	8.2	5.4	
FD-083-RB	8.3	5.4	
FD-084-RB	8.4	5.4	
FD-085-RB	8.5	5.4	
FD-086-RB	8.6	5.4	
FD-087-RB	8.7	5.4	
FD-088-RB	8.8	5.4	
FD-089-RB	8.9	5.4	
FD-090-RB	9.0	5.8	FD090/099-12-D...
FD-091-RB	9.1	5.8	
FD-092-RB	9.2	5.8	
FD-093-RB	9.3	5.8	
FD-094-RB	9.4	5.8	
FD-095-RB	9.5	5.8	
FD-096-RB	9.6	5.8	
FD-097-RB	9.7	5.8	
FD-098-RB	9.8	5.8	
FD-099-RB	9.9	5.8	
FD-100-RB	10.0	6.2	FD100/109-16-D...
FD-101-RB	10.1	6.2	
FD-102-RB	10.2	6.2	
FD-103-RB	10.3	6.2	
FD-104-RB	10.4	6.2	
FD-105-RB	10.5	6.2	
FD-106-RB	10.6	6.2	
FD-107-RB	10.7	6.2	
FD-108-RB	10.8	6.2	
FD-109-RB	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-110-RB	11.0	6.6	FD110/119-16-D...
FD-111-RB	11.1	6.6	
FD-112-RB	11.2	6.6	
FD-113-RB	11.3	6.6	
FD-114-RB	11.4	6.6	
FD-115-RB	11.5	6.6	
FD-116-RB	11.6	6.6	
FD-117-RB	11.7	6.6	
FD-118-RB	11.8	6.6	
FD-119-RB	11.9	6.6	
FD-120-RB	12.0	7.0	FD120/129-16-D...
FD-121-RB	12.1	7.0	
FD-122-RB	12.2	7.0	
FD-123-RB	12.3	7.0	
FD-124-RB	12.4	7.0	
FD-125-RB	12.5	7.0	
FD-126-RB	12.6	7.0	
FD-127-RB	12.7	7.0	
FD-128-RB	12.8	7.0	
FD-129-RB	12.9	7.0	
FD-130-RB	13.0	7.6	FD130/139-16-D...
FD-131-RB	13.1	7.6	
FD-132-RB	13.2	7.6	
FD-133-RB	13.3	7.6	
FD-134-RB	13.4	7.6	
FD-135-RB	13.5	7.6	
FD-136-RB	13.6	7.6	
FD-137-RB	13.7	7.6	
FD-138-RB	13.8	7.6	
FD-139-RB	13.9	7.6	

注：RB钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RB Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc. and other materials not to be broken easily.



FD...RB 特种钻尖RB型 Special Drilling Head RB



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-140-RB	14.0	8.1	FD140/149-16-D...
FD-141-RB	14.1	8.1	
FD-142-RB	14.2	8.1	
FD-143-RB	14.3	8.1	
FD-144-RB	14.4	8.1	
FD-145-RB	14.5	8.1	
FD-146-RB	14.6	8.1	
FD-147-RB	14.7	8.1	
FD-148-RB	14.8	8.1	
FD-149-RB	14.9	8.1	
FD-150-RB	15.0	8.7	FD150/159-20-D...
FD-151-RB	15.1	8.7	
FD-152-RB	15.2	8.7	
FD-153-RB	15.3	8.7	
FD-154-RB	15.4	8.7	
FD-155-RB	15.5	8.7	
FD-156-RB	15.6	8.7	
FD-157-RB	15.7	8.7	
FD-158-RB	15.8	8.7	
FD-159-RB	15.9	8.7	
FD-160-RB	16.0	9.3	FD160/169-20-D...
FD-161-RB	16.1	9.3	
FD-162-RB	16.2	9.3	
FD-163-RB	16.3	9.3	
FD-164-RB	16.4	9.3	
FD-165-RB	16.5	9.3	
FD-166-RB	16.6	9.3	
FD-167-RB	16.7	9.3	
FD-168-RB	16.8	9.3	
FD-169-RB	16.9	9.3	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-170-RB	17.0	9.9	FD170/179-20-D...
FD-171-RB	17.1	9.9	
FD-172-RB	17.2	9.9	
FD-173-RB	17.3	9.9	
FD-174-RB	17.4	9.9	
FD-175-RB	17.5	9.9	
FD-176-RB	17.6	9.9	
FD-177-RB	17.7	9.9	
FD-178-RB	17.8	9.9	
FD-179-RB	17.9	9.9	
FD-180-RB	18.0	10.5	FD180/189-25-D...
FD-181-RB	18.1	10.5	
FD-182-RB	18.2	10.5	
FD-183-RB	18.3	10.5	
FD-184-RB	18.4	10.5	
FD-185-RB	18.5	10.5	
FD-186-RB	18.6	10.5	
FD-187-RB	18.7	10.5	
FD-188-RB	18.8	10.5	
FD-189-RB	18.9	10.5	
FD-190-RB	19.0	11.0	FD190/199-25-D...
FD-191-RB	19.1	11.0	
FD-192-RB	19.2	11.0	
FD-193-RB	19.3	11.0	
FD-194-RB	19.4	11.0	
FD-195-RB	19.5	11.0	
FD-196-RB	19.6	11.0	
FD-197-RB	19.7	11.0	
FD-198-RB	19.8	11.0	
FD-199-RB	19.9	11.0	

注：RB钻尖具有定心功能，轴向钻削力较小，适用于不锈钢、钛合金、镍基合金、锰钢等，以及较软不易断屑的材料钻孔。

RB Cutting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.

FD...RB 特种钻尖RB型 Special Drilling Head RB



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-200-RB	20.0	11.6	FD200/209-25-D...
FD-201-RB	20.1	11.6	
FD-202-RB	20.2	11.6	
FD-203-RB	20.3	11.6	
FD-204-RB	20.4	11.6	
FD-205-RB	20.5	11.6	
FD-206-RB	20.6	11.6	
FD-207-RB	20.7	11.6	
FD-208-RB	20.8	11.6	
FD-209-RB	20.9	11.6	
FD-210-RB	21.0	12.1	FD210/219-25-D...
FD-211-RB	21.1	12.1	
FD-212-RB	21.2	12.1	
FD-213-RB	21.3	12.1	
FD-214-RB	21.4	12.1	
FD-215-RB	21.5	12.1	
FD-216-RB	21.6	12.1	
FD-217-RB	21.7	12.1	
FD-218-RB	21.8	12.1	
FD-219-RB	21.9	12.1	
FD-220-RB	22.0	12.7	FD220/229-25-D...
FD-221-RB	22.1	12.7	
FD-222-RB	22.2	12.7	
FD-223-RB	22.3	12.7	
FD-224-RB	22.4	12.7	
FD-225-RB	22.5	12.7	
FD-226-RB	22.6	12.7	
FD-227-RB	22.7	12.7	
FD-228-RB	22.8	12.7	
FD-229-RB	22.9	12.7	

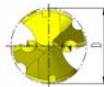
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-230-RB	23.0	13.3	FD230/239-32-D...
FD-231-RB	23.1	13.3	
FD-232-RB	23.2	13.3	
FD-233-RB	23.3	13.3	
FD-234-RB	23.4	13.3	
FD-235-RB	23.5	13.3	
FD-236-RB	23.6	13.3	
FD-237-RB	23.7	13.3	
FD-238-RB	23.8	13.3	
FD-239-RB	23.9	13.3	
FD-240-RB	24.0	13.9	FD240/249-32-D...
FD-241-RB	24.1	13.9	
FD-242-RB	24.2	13.9	
FD-243-RB	24.3	13.9	
FD-244-RB	24.4	13.9	
FD-245-RB	24.5	13.9	
FD-246-RB	24.6	13.9	
FD-247-RB	24.7	13.9	
FD-248-RB	24.8	13.9	
FD-249-RB	24.9	13.9	
FD-250-RB	25.0	14.5	FD250/260-32-D...
FD-251-RB	25.1	14.5	
FD-252-RB	25.2	14.5	
FD-253-RB	25.3	14.5	
FD-254-RB	25.4	14.5	
FD-255-RB	25.5	14.5	
FD-256-RB	25.6	14.5	
FD-257-RB	25.7	14.5	
FD-258-RB	25.8	14.5	
FD-259-RB	25.9	14.5	
FD-260-RB	26.0	14.5	

注：和钻尖具有定心、分离和卷屑功能，适用于锰钢、低碳钢等，以及较软不易断裂的材料钻孔，尤其是对大直径切削量较宽的钻孔，排屑效果尤为明显。

RB: Cuting head can drill with self-centering and less drill force, it can be used for stainless steel, titanium, nickelbase alloys, Mn steel etc and other materials not to be broken easily.



FD...ST 通用型钻尖ST型 Special Drilling Head ST



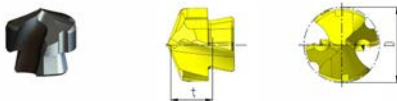
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-ST	8.0	5.4	FD080/089-12-D-CST
FD-081-ST	8.1	5.4	
FD-082-ST	8.2	5.4	
FD-083-ST	8.3	5.4	
FD-084-ST	8.4	5.4	
FD-085-ST	8.5	5.4	
FD-086-ST	8.6	5.4	
FD-087-ST	8.7	5.4	
FD-088-ST	8.8	5.4	
FD-089-ST	8.9	5.4	
FD-090-ST	9.0	5.8	FD090/099-12-D-CST
FD-091-ST	9.1	5.8	
FD-092-ST	9.2	5.8	
FD-093-ST	9.3	5.8	
FD-094-ST	9.4	5.8	
FD-095-ST	9.5	5.8	
FD-096-ST	9.6	5.8	
FD-097-ST	9.7	5.8	
FD-098-ST	9.8	5.8	
FD-099-ST	9.9	5.8	
FD-100-ST	10.0	6.2	FD100/109-16-D-CST
FD-101-ST	10.1	6.2	
FD-102-ST	10.2	6.2	
FD-103-ST	10.3	6.2	
FD-104-ST	10.4	6.2	
FD-105-ST	10.5	6.2	
FD-106-ST	10.6	6.2	
FD-107-ST	10.7	6.2	
FD-108-ST	10.8	6.2	
FD-109-ST	10.9	6.2	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-ST	11.0	6.6	FD110/119-16-D-CST
FD-111-ST	11.1	6.6	
FD-112-ST	11.2	6.6	
FD-113-ST	11.3	6.6	
FD-114-ST	11.4	6.6	
FD-115-ST	11.5	6.6	
FD-116-ST	11.6	6.6	
FD-117-ST	11.7	6.6	
FD-118-ST	11.8	6.6	
FD-119-ST	11.9	6.6	
FD-120-ST	12.0	7.0	FD120/129-16-D-CST
FD-121-ST	12.1	7.0	
FD-122-ST	12.2	7.0	
FD-123-ST	12.3	7.0	
FD-124-ST	12.4	7.0	
FD-125-ST	12.5	7.0	
FD-126-ST	12.6	7.0	
FD-127-ST	12.7	7.0	
FD-128-ST	12.8	7.0	
FD-129-ST	12.9	7.0	
FD-130-ST	13.0	7.6	FD130/139-16-D-CST
FD-131-ST	13.1	7.6	
FD-132-ST	13.2	7.6	
FD-133-ST	13.3	7.6	
FD-134-ST	13.4	7.6	
FD-135-ST	13.5	7.6	
FD-136-ST	13.6	7.6	
FD-137-ST	13.7	7.6	
FD-138-ST	13.8	7.6	
FD-139-ST	13.9	7.6	

注：ST钻尖是通用型钻尖，对碳钢，合金钢，锰钢，不锈钢具有良好的钻削性能，与钻杆00...-D-CST配套使用。

ST Cutting head is a universal one, it can be used for drilling stainless steel, carbon steel, Mn steel, alloy steel etc. and other materials for chips not to be broken easily.

FD...ST 通用型钻尖ST型 Special Drilling Head ST



订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-ST	14.0	8.1	FD140/149-16-D-CST
FD-141-ST	14.1	8.1	
FD-142-ST	14.2	8.1	
FD-143-ST	14.3	8.1	
FD-144-ST	14.4	8.1	
FD-145-ST	14.5	8.1	
FD-146-ST	14.6	8.1	
FD-147-ST	14.7	8.1	
FD-148-ST	14.8	8.1	
FD-149-ST	14.9	8.1	
FD-150-ST	15.0	8.7	FD150/159-20-D-CST
FD-151-ST	15.1	8.7	
FD-152-ST	15.2	8.7	
FD-153-ST	15.3	8.7	
FD-154-ST	15.4	8.7	
FD-155-ST	15.5	8.7	
FD-156-ST	15.6	8.7	
FD-157-ST	15.7	8.7	
FD-158-ST	15.8	8.7	
FD-159-ST	15.9	8.7	
FD-160-ST	16.0	9.3	FD160/169-20-D-CST
FD-161-ST	16.1	9.3	
FD-162-ST	16.2	9.3	
FD-163-ST	16.3	9.3	
FD-164-ST	16.4	9.3	
FD-165-ST	16.5	9.3	
FD-166-ST	16.6	9.3	
FD-167-ST	16.7	9.3	
FD-168-ST	16.8	9.3	
FD-169-ST	16.9	9.3	

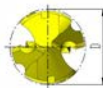
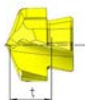
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-ST	17.0	9.9	FD170/179-20-D-CST
FD-171-ST	17.1	9.9	
FD-172-ST	17.2	9.9	
FD-173-ST	17.3	9.9	
FD-174-ST	17.4	9.9	
FD-175-ST	17.5	9.9	
FD-176-ST	17.6	9.9	
FD-177-ST	17.7	9.9	
FD-178-ST	17.8	9.9	
FD-179-ST	17.9	9.9	
FD-180-ST	18.0	10.5	FD180/189-25-D-CST
FD-181-ST	18.1	10.5	
FD-182-ST	18.2	10.5	
FD-183-ST	18.3	10.5	
FD-184-ST	18.4	10.5	
FD-185-ST	18.5	10.5	
FD-186-ST	18.6	10.5	
FD-187-ST	18.7	10.5	
FD-188-ST	18.8	10.5	
FD-189-ST	18.9	10.5	
FD-190-ST	19.0	11.0	FD190/199-25-D-CST
FD-191-ST	19.1	11.0	
FD-192-ST	19.2	11.0	
FD-193-ST	19.3	11.0	
FD-194-ST	19.4	11.0	
FD-195-ST	19.5	11.0	
FD-196-ST	19.6	11.0	
FD-197-ST	19.7	11.0	
FD-198-ST	19.8	11.0	
FD-199-ST	19.9	11.0	

注：ST钻尖是通用型钻尖，对碳钢、合金钢、锰钢、不锈钢具有良好的钻削性能，与钻杆00...-D-CST配套使用。

ST Cutting head is a universal one, it can be used for drilling stainless steel, carbon steel, Mn steel, alloy steel etc. and other materials for chips not to be broken easily.



FD...ST 通用型钻尖ST型 Special Drilling Head ST



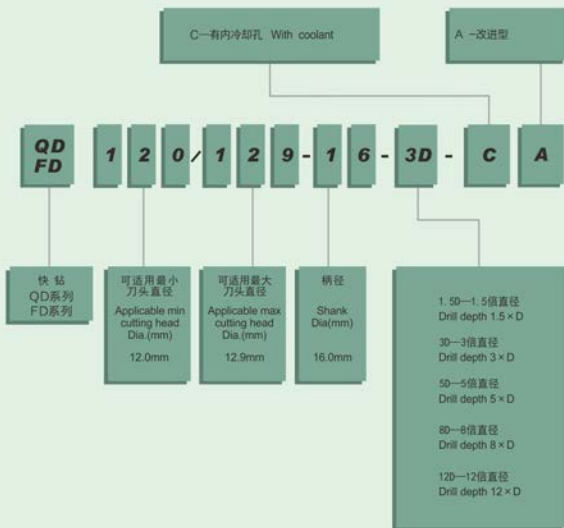
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-200-ST	20.0	11.6	FD200/209-25-D-CST
FD-201-ST	20.1	11.6	
FD-202-ST	20.2	11.6	
FD-203-ST	20.3	11.6	
FD-204-ST	20.4	11.6	
FD-205-ST	20.5	11.6	
FD-206-ST	20.6	11.6	
FD-207-ST	20.7	11.6	
FD-208-ST	20.8	11.6	
FD-209-ST	20.9	11.6	
FD-210-ST	21.0	12.1	FD210/219-25-D-CST
FD-211-ST	21.1	12.1	
FD-212-ST	21.2	12.1	
FD-213-ST	21.3	12.1	
FD-214-ST	21.4	12.1	
FD-215-ST	21.5	12.1	
FD-216-ST	21.6	12.1	
FD-217-ST	21.7	12.1	
FD-218-ST	21.8	12.1	
FD-219-ST	21.9	12.1	
FD-220-ST	22.0	12.7	FD220/229-25-D-CST
FD-221-ST	22.1	12.7	
FD-222-ST	22.2	12.7	
FD-223-ST	22.3	12.7	
FD-224-ST	22.4	12.7	
FD-225-ST	22.5	12.7	
FD-226-ST	22.6	12.7	
FD-227-ST	22.7	12.7	
FD-228-ST	22.8	12.7	
FD-229-ST	22.9	12.7	

订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	L	
FD-230-ST	23.0	13.3	FD230/239-32-D-CST
FD-231-ST	23.1	13.3	
FD-232-ST	23.2	13.3	
FD-233-ST	23.3	13.3	
FD-234-ST	23.4	13.3	
FD-235-ST	23.5	13.3	
FD-236-ST	23.6	13.3	
FD-237-ST	23.7	13.3	
FD-238-ST	23.8	13.3	
FD-239-ST	23.9	13.3	
FD-240-ST	24.0	13.9	FD240/249-32-D-CST
FD-241-ST	24.1	13.9	
FD-242-ST	24.2	13.9	
FD-243-ST	24.3	13.9	
FD-244-ST	24.4	13.9	
FD-245-ST	24.5	13.9	
FD-246-ST	24.6	13.9	
FD-247-ST	24.7	13.9	
FD-248-ST	24.8	13.9	
FD-249-ST	24.9	13.9	
FD-250-ST	25.0	14.5	FD250/260-32-D-CST
FD-251-ST	25.1	14.5	
FD-252-ST	25.2	14.5	
FD-253-ST	25.3	14.5	
FD-254-ST	25.4	14.5	
FD-255-ST	25.5	14.5	
FD-256-ST	25.6	14.5	
FD-257-ST	25.7	14.5	
FD-258-ST	25.8	14.5	
FD-259-ST	25.9	14.5	
FD-260-ST	26.0	14.5	

注: ST钻尖是通用型钻尖,对碳钢、合金钢、锰钢、不锈钢具有良好的钻削性能,与钻杆00...-D-CST配套使用。

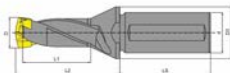
ST Cutting head is a universal one, it can be used for drilling stainless steel, carbon steel, Mn steel, alloy steel etc. and other materials for chips not to be broken easily.

Mono Tip系列自锁式可换钻头刀体编码系统 Mono Tip Line Toolholder Ordering Code System



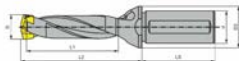


QD...-1.5D-CA Mono Tip 系列快钻头 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
QD090/089-12-1.5D-CA	8.0-8.9	12	16	16	45	7.8	8-11.9
QD090/099-12-1.5D-CA	9.0-9.9	12	16	18	45	8.8	
QD100/109-16-1.5D-CA	10.0-10.9	16	20	20	48	9.8	
QD110/119-16-1.5D-CA	11.0-11.9	16	20	22	48	10.8	
QD120/129-16-1.5D-CA	12.0-12.9	16	20	24	48	11.8	12-16.9
QD130/139-16-1.5D-CA	13.0-13.9	16	20	25	48	12.8	
QD140/149-16-1.5D-CA	14.0-14.9	16	20	27	48	13.8	
QD150/159-20-1.5D-CA	15.0-15.9	20	25	29	50	14.8	
QD160/169-20-1.5D-CA	16.0-16.9	20	25	30	50	15.8	17-20.9
QD170/179-20-1.5D-CA	17.0-17.9	20	25	32	50	16.8	
QD180/189-25-1.5D-CA	18.0-18.9	25	32	34	56	17.8	
QD190/199-25-1.5D-CA	19.0-19.9	25	32	36	56	18.8	
QD200/209-25-1.5D-CA	20.0-20.9	25	32	38	56	19.8	21-26
QD210/219-25-1.5D-CA	21.0-21.9	25	32	40	56	20.8	
QD220/229-25-1.5D-CA	22.0-22.9	25	32	42	56	21.8	
QD230/239-32-1.5D-CA	23.0-23.9	32	42	43	60	22.8	
QD240/249-32-1.5D-CA	24.0-24.9	32	42	45	60	23.8	8-11.9
QD250/260-32-1.5D-CA	25.0-26.0	32	42	47	60	24.8	
inch	inch	inch	mm	mm	mm	mm	8-11.9
QD5/16-11/32-1/2-1.5D-CA	5/16-11/32	1/2	16	16	45	7.5	
QD23/64-25/64-1/2-1.5D-CA	23/64-25/64	1/2	16	18	45	8.8	
QD13/32-27/64-5/8-1.5D-CA	13/32-27/64	5/8	20	20	48	9.9	
QD7/16-15/32-5/8-1.5D-CA	7/16-15/32	5/8	20	22	48	10.7	12-16.9
QD31/64-1/2-5/8-1.5D-CA	31/64-1/2	5/8	20	24	48	11.9	
QD33/64-15/64-1/2-1.5D-CA	33/64-15/64	5/8	20	25	48	12.6	
QD9/16-37/64-1/2-1.5D-CA	9/16-37/64	5/8	25	27	48	13.8	
QD19/32-5/8-3/4-1.5D-CA	19/32-5/8	3/4	25	29	50	14.5	17-20.9
QD41/64-21/32-3/4-1.5D-CA	41/64-21/32	3/4	25	30	50	15.6	
QD43/64-45/64-3/4-1.5D-CA	43/64-45/64	3/4	25	32	50	16.7	
QD23/32-47/64-1-1.5D-CA	23/32-47/64	1	32	34	56	17.6	
QD3/8-25/32-1-1.5D-CA	3/8-25/32	1	32	36	56	18.4	21-26
QD15/64-13/16-1-1.5D-CA	15/64-13/16	1	32	38	56	19.6	
QD53/64-55/64-1-1.5D-CA	53/64-55/64	1	32	40	56	20.4	
QD7/8-57/64-1-1.5D-CA	7/8-57/64	1	32	42	56	21.6	
QD29/32-59/64-1-1/4-1.5D-CA	29/32-59/64	1 1/4	42	43	60	22.4	21-26
QD63/64-31/32-1 1/4-1.5D-CA	63/64-31/32	1 1/4	42	45	60	23.6	
QD63/64-1-1 1/4-1.5D-CA	63/64-1	1 1/4	42	47	60	24.4	

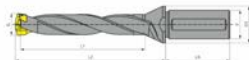
QD...-3D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
QD08/089-12-3D-CA	8.0-8.9	12	16	32	45	7.8	8-11.9
QD09/099-12-3D-CA	9.0-9.9	12	16	35	45	8.8	
QD10/109-16-3D-CA	10.0-10.9	16	20	39	48	9.8	
QD11/119-16-3D-CA	11.0-11.9	16	20	42	48	10.8	
QD12/129-16-3D-CA	12.0-12.9	16	20	45	48	11.8	12-16.9
QD13/139-16-3D-CA	13.0-13.9	16	20	49	48	12.9	
QD14/149-16-3D-CA	14.0-14.9	16	20	53	48	13.8	
QD15/159-20-3D-CA	15.0-15.9	20	25	56	50	14.8	
QD16/169-20-3D-CA	16.0-16.9	20	25	60	50	15.8	17-20.9
QD17/179-20-3D-CA	17.0-17.9	20	25	63	50	16.8	
QD18/189-25-3D-CA	18.0-18.9	25	32	66	56	17.8	
QD19/199-25-3D-CA	19.0-19.9	25	32	70	56	18.8	
QD20/209-25-3D-CA	20.0-20.9	25	32	73	56	19.8	21-26
QD21/219-25-3D-CA	21.0-21.9	25	32	77	56	20.8	
QD22/229-25-3D-CA	22.0-22.9	25	32	80	56	21.8	
QD23/239-32-3D-CA	23.0-23.9	32	42	84	60	22.8	
QD24/249-32-3D-CA	24.0-24.9	32	42	88	60	23.8	8-11.9
QD25/259-32-3D-CA	25.0-25.9	32	42	91	60	24.8	
	inch	inch	mm	mm	mm	mm	12-16.9
QD5/16-11/32-1/2-3D-CA	5/16-11/32	1/2	16	32	45	7.5	
QD23/64-25/64-1/2-3D-CA	23/64-25/64	1/2	16	35	45	8.8	
QD13/32-27/64-5/8-3D-CA	13/32-27/64	5/8	20	39	48	9.9	
QD17/16-15/32-5/8-3D-CA	7/16-15/32	5/8	20	42	48	10.7	17-20.9
QD31/64-1/2-5/8-3D-CA	31/64-1/2	5/8	20	45	48	11.9	
QD33/64-35/64-1/2-3D-CA	33/64-35/64	5/8	20	49	48	12.6	
QD9/16-37/64-1/2-3D-CA	9/16-37/64	5/8	25	53	48	13.8	
QD19/32-5/8-3/4-3D-CA	19/32-5/8	3/4	25	56	50	14.5	21-26
QD41/64-21/32-3/4-3D-CA	41/64-21/32	3/4	25	60	50	15.6	
QD43/64-45/64-3/4-3D-CA	43/64-45/64	3/4	25	63	50	16.7	
QD73/32-47/64-1-3D-CA	23/32-47/64	1	32	66	56	17.6	
QD3/8-25/32-1-3D-CA	3/8-25/32	1	32	70	56	18.4	21-26
QD1/4-13/16-1-3D-CA	1/4-13/16	1	32	73	56	19.6	
QD53/64-55/64-1-3D-CA	53/64-55/64	1	32	77	56	20.4	
QD7/8-57/64-1-3D-CA	7/8-57/64	1	32	80	56	21.6	
QD2/32-59/64-1-1/4-3D-CA	2/32-59/64	1.1/4	42	84	60	22.4	21-26
QD63/64-31/32-1-1/4-3D-CA	63/64-31/32	1.1/4	42	88	60	23.6	
QD63/64-1-1-1/4-3D-CA	63/64-1	1.1/4	42	91	60	24.4	

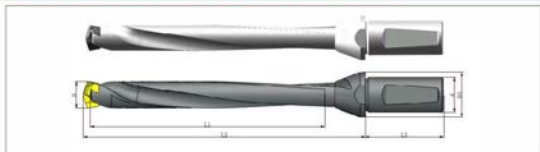


QD...-5D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
QD080/089-12-5D-CA	8.0-8.9	12	16	50	45	7.8	8-11.9
QD090/099-12-5D-CA	9.0-9.9	12	16	55	45	8.8	
QD100/109-16-5D-CA	10.0-10.9	16	20	60	48	9.8	
QD110/119-16-5D-CA	11.0-11.9	16	20	66	48	10.8	
QD120/129-16-5D-CA	12.0-12.9	16	20	71	48	11.8	12-16.9
QD130/139-16-5D-CA	13.0-13.9	16	20	77	48	12.8	
QD140/149-16-5D-CA	14.0-14.9	16	20	82	48	13.8	
QD150/159-20-5D-CA	15.0-15.9	20	25	88	50	14.8	
QD160/169-20-5D-CA	16.0-16.9	20	25	93	50	15.8	17-20.9
QD170/179-20-5D-CA	17.0-17.9	20	25	99	50	16.8	
QD180/189-25-5D-CA	18.0-18.9	25	32	104	56	17.8	
QD190/199-25-5D-CA	19.0-19.9	25	32	110	56	18.8	
QD200/209-25-5D-CA	20.0-20.9	25	32	115	56	19.8	21-26
QD210/219-25-5D-CA	21.0-21.9	25	32	121	56	20.8	
QD220/229-25-5D-CA	22.0-22.9	25	32	126	56	21.8	
QD230/239-32-5D-CA	23.0-23.9	32	42	132	60	22.8	
QD240/249-32-5D-CA	24.0-24.9	32	42	137	60	23.8	8-11.9
QD250/260-32-5D-CA	25.0-26.0	32	42	143	60	24.8	
inch	inch	inch	mm	mm	mm	mm	8-11.9
QD5/16-11/32-1/2-5D-CA	5/16-11/32	1/2	16	50	45	7.5	
QD3/8-25/64-1/2-5D-CA	23/64-25/64	1/2	16	55	45	8.8	
QD13/32-27/64-5/8-5D-CA	13/32-27/64	5/8	20	60	48	9.9	
QD7/16-15/32-5/8-5D-CA	7/16-15/32	5/8	20	66	48	10.7	12-16.9
QD31/64-1/2-5/8-5D-CA	31/64-1/2	5/8	20	71	48	11.9	
QD13/64-35/64-1/2-5D-CA	33/64-35/64	5/8	20	77	48	12.6	
QD9/16-37/64-1/2-5D-CA	9/16-37/64	5/8	25	82	48	13.8	
QD19/32-5/8-3/4-5D-CA	19/32-5/8	3/4	25	88	50	14.5	17-20.9
QD41/64-21/32-3/4-5D-CA	41/64-21/32	3/4	25	93	50	15.6	
QD43/64-45/64-3/4-5D-CA	43/64-45/64	3/4	25	99	50	16.7	
QD23/32-47/64-1-5D-CA	23/32-47/64	1	32	104	56	17.6	
QD3/8-25/32-1-5D-CA	3/8-25/32	1	32	110	56	18.4	21-26
QD1/4-51/64-1-5D-CA	51/64-13/16	1	32	115	56	19.6	
QD53/64-55/64-1-5D-CA	53/64-55/64	1	32	121	56	20.4	
QD7/8-57/64-1-5D-CA	7/8-57/64	1	32	126	56	21.6	
QD29/32-59/64-1-1/4-5D-CA	29/32-59/64	1 1/4	42	132	60	22.4	21-26
QD61/64-31/32-1 1/4-5D-CA	61/64-1/32	1 1/4	42	137	60	23.6	
QD63/64-1-1 1/4-5D-CA	63/64-1	1 1/4	42	143	60	24.4	

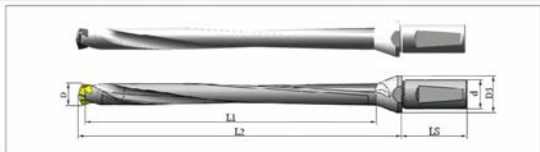
QD...8D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable (cutting head Dia.(mm))	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
QD080/089-12-8D-CA	8.0~8.9	12	16	76	45	7.6	8-11.9
QD090/099-12-8D-CA	9.0~9.9	12	16	85	45	8.6	
QD100/109-16-8D-CA	10.0~10.9	16	20	93	48	9.6	
QD110/119-16-8D-CA	11.0~11.9	16	20	102	48	10.6	
QD120/129-16-8D-CA	12.0~12.9	16	20	110	48	11.6	12-16.9
QD130/139-16-8D-CA	13.0~13.9	16	20	119	48	12.6	
QD140/149-16-8D-CA	14.0~14.9	16	20	127	48	13.6	
QD150/159-20-8D-CA	15.0~15.9	20	25	136	50	14.6	
QD160/169-20-8D-CA	16.0~16.9	20	25	144	50	15.6	17-20.9
QD170/179-20-8D-CA	17.0~17.9	20	25	153	50	16.6	
QD180/189-25-8D-CA	18.0~18.9	25	32	161	56	17.6	
QD190/199-25-8D-CA	19.0~19.9	25	32	170	56	18.6	
QD200/209-25-8D-CA	20.0~20.9	25	32	178	56	19.6	21-26
QD210/219-25-8D-CA	21.0~21.9	25	32	187	56	20.6	
QD220/229-25-8D-CA	22.0~22.9	25	32	195	56	21.6	
QD230/239-32-8D-CA	23.0~23.9	32	42	204	60	22.6	
QD240/249-32-8D-CA	24.0~24.9	32	42	212	60	23.6	8-11.9
QD250/260-32-8D-CA	25.0~26.0	32	42	221	60	24.6	
		inch	mm	mm	mm	mm	
QD516-11/32-1/2-8D-CA	5/16~11/32	1/2	16	76	45	7.5	8-11.9
QD3164-25/64-1/2-8D-CA	23/64~25/64	1/2	16	85	45	8.8	
QD13/32-27/64-5/8-8D-CA	13/32~27/64	5/8	20	93	48	9.9	
QD716-15/32-5/8-8D-CA	7/16~15/32	5/8	20	102	48	10.7	
QD3164-1/2-5/8-8D-CA	31/64~1/2	5/8	20	110	48	11.9	12-16.9
QD13/64-35/64-1/2-8D-CA	33/64~35/64	5/8	20	119	48	12.6	
QD916-37/64-1/2-8D-CA	9/16~37/64	5/8	25	127	48	13.8	
QD19/32-5/8-3/4-8D-CA	19/32~5/8	3/4	25	136	50	14.5	
QD4164-21/32-3/4-8D-CA	41/64~21/32	3/4	25	144	50	15.6	17-20.9
QD4364-45/64-3/4-8D-CA	43/64~45/64	3/4	25	153	50	16.7	
QD23/32-47/64-1-8D-CA	23/32~47/64	1	32	161	56	17.6	
QD316-25/32-1-8D-CA	31/6~25/32	1	32	170	56	18.4	
QD5164-13/16-1-8D-CA	51/64~13/16	1	32	178	56	19.6	21-26
QD53164-55/64-1-8D-CA	53/64~55/64	1	32	187	56	20.4	
QD716-57/64-1-8D-CA	716~57/64	1	32	195	56	21.6	
QD2932-59/64-1 1/4-8D-CA	29/32~59/64	1 1/4	42	204	60	22.4	
QD6164-31/32-1 1/4-8D-CA	61/64~1/32	1 1/4	42	212	60	23.6	21-26
QD6364-1-1 1/4-8D-CA	63/64~1	1 1/4	42	221	60	24.4	

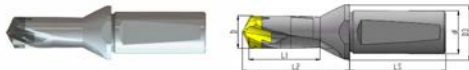


QD...-12D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
QD120/12916-12D-CA	12.0~12.9	16	20	162	48	11.6	12-16.9
QD130/13916-12D-CA	13.0~13.9	16	20	175	48	12.6	
QD140/14916-12D-CA	14.0~14.9	16	20	187	48	13.6	
QD150/15920-12D-CA	15.0~15.9	20	20	200	50	14.6	
QD160/16920-12D-CA	16.0~16.9	20	20	212	50	15.6	
QD170/17920-12D-CA	17.0~17.9	20	20	225	50	16.6	17-20.9
QD180/18925-12D-CA	18.0~18.9	25	32	237	56	17.6	
QD190/19925-12D-CA	19.0~19.9	25	32	250	56	18.6	
QD200/20925-12D-CA	20.0~20.9	25	32	262	56	19.6	
QD210/21925-12D-CA	21.0~21.9	25	32	275	56	20.6	
QD220/22925-12D-CA	22.0~22.9	25	32	287	56	21.6	21-26
QD230/23932-12D-CA	23.0~23.9	32	42	300	60	22.6	
QD240/24932-12D-CA	24.0~24.9	32	42	313	60	23.6	
QD250/26032-12D-CA	25.0~26.0	32	42	325	60	24.6	
inch	inch	inch	mm	mm	mm	mm	
QD31/64-1/2-5/8-12D-CA	31/64~1/2	5/8	20	162	48	11.9	12-16.9
QD33/64-31/64-1/2-12D-CA	33/64~31/64	5/8	20	175	48	12.6	
QD37/64-37/64-1/2-12D-CA	37/64~37/64	5/8	25	187	48	13.8	
QD19/32-5/8-3/4-12D-CA	19/32~5/8	3/4	25	200	50	14.5	
QD41/64-21/32-3/4-12D-CA	41/64~21/32	3/4	25	212	50	15.8	
QD43/64-43/64-3/4-12D-CA	43/64~43/64	3/4	25	225	50	16.7	17-20.9
QD23/32-47/64-1-12D-CA	23/32~47/64	1	32	237	56	17.6	
QD3/8-25/32-1-12D-CA	3/8~25/32	1	32	250	56	18.4	
QD51/64-13/16-1-12D-CA	51/64~13/16	1	32	262	56	19.6	
QD53/64-53/64-1-12D-CA	53/64~53/64	1	32	275	56	20.4	
QD7/8-57/64-1-12D-CA	7/8~57/64	1	32	287	56	21.6	21-26
QD29/32-59/64-1 1/4-12D-CA	29/32~59/64	1 1/4	42	300	60	22.4	
QD61/64-31/32-1 1/4-12D-CA	61/64~31/32	1 1/4	42	313	60	23.6	
QD63/64-1 1/8-12D-CA	63/64~1 1/8	1 1/4	42	325	60	24.4	

FD...-1.5D-CA Mono Tip 系列快钻头体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
FD090/099-12-1.5D-CA	8.0-8.9	12	16	16	45	7.8	8-11.9
FD090/099-12-1.5D-CA	9.0-9.9	12	16	18	45	8.8	
FD100/109-16-1.5D-CA	10.0-10.9	16	20	20	48	9.8	
FD110/119-16-1.5D-CA	11.0-11.9	16	20	22	48	10.8	
FD120/129-16-1.5D-CA	12.0-12.9	16	20	24	48	11.8	12-16.9
FD130/139-16-1.5D-CA	13.0-13.9	16	20	25	48	12.8	
FD140/149-16-1.5D-CA	14.0-14.9	16	20	27	48	13.8	
FD150/159-20-1.5D-CA	15.0-15.9	20	25	29	50	14.8	
FD160/169-20-1.5D-CA	16.0-16.9	20	25	30	50	15.8	17-20.9
FD170/179-20-1.5D-CA	17.0-17.9	20	25	32	50	16.8	
FD180/189-25-1.5D-CA	18.0-18.9	25	32	34	56	17.8	
FD190/199-25-1.5D-CA	19.0-19.9	25	32	36	56	18.8	
FD200/209-25-1.5D-CA	20.0-20.9	25	32	38	56	19.8	21-26
FD210/219-25-1.5D-CA	21.0-21.9	25	32	40	56	20.8	
FD220/229-25-1.5D-CA	22.0-22.9	25	32	42	56	21.8	
FD230/239-32-1.5D-CA	23.0-23.9	32	42	43	60	22.8	
FD240/249-32-1.5D-CA	24.0-24.9	32	42	45	60	23.8	12-16.9
FD250/260-32-1.5D-CA	25.0-26.0	32	42	47	60	24.8	
inch	inch	inch	mm	mm	mm	mm	
FD5/16-11/32-1/2-1.5D-CA	5/16-11/32	1/2	16	16	45	7.5	8-11.9
FD23/64-25/64-1/2-1.5D-CA	23/64-25/64	1/2	16	18	45	8.8	
FD13/32-27/64-5/8-1.5D-CA	13/32-27/64	5/8	20	20	48	9.8	
FD7/16-15/32-5/8-1.5D-CA	7/16-15/32	5/8	20	22	48	10.7	
FD31/64-1/2-5/8-1.5D-CA	31/64-1/2	5/8	20	24	48	11.9	12-16.9
FD33/64-35/64-1/2-1.5D-CA	33/64-35/64	5/8	20	25	48	12.6	
FD9/16-37/64-1/2-1.5D-CA	9/16-37/64	5/8	25	27	48	13.8	
FD19/32-5/8-3/4-1.5D-CA	19/32-5/8	3/4	25	29	50	14.5	
FD41/64-21/32-3/4-1.5D-CA	41/64-21/32	3/4	25	30	50	15.6	17-20.9
FD43/64-43/64-3/4-1.5D-CA	43/64-43/64	3/4	25	32	50	16.7	
FD33/32-47/64-1-1.5D-CA	23/32-47/64	1	32	34	56	17.6	
FD3/8-25/32-1-1.5D-CA	3/8-25/32	1	32	36	56	18.4	
FD51/64-13/16-1-1.5D-CA	51/64-13/16	1	32	38	56	19.6	21-26
FD53/64-55/64-1-1.5D-CA	53/64-55/64	1	32	40	56	20.4	
FD7/8-57/64-1-1.5D-CA	7/8-57/64	1	32	42	56	21.6	
FD29/32-59/64-1-1/4-1.5D-CA	29/32-59/64	1.1/4	42	43	60	22.4	
FD61/64-31/32-1-1/4-1.5D-CA	61/64-31/32	1.1/4	42	45	60	23.6	21-26
FD63/64-1-1-1/4-1.5D-CA	63/64-1	1.1/4	42	47	60	24.4	



FD...-3D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
FD080/089-12-3D-CA	8.0~8.9	12	16	32	45	7.8	8-11.9
FD090/099-12-3D-CA	9.0~9.9	12	16	35	45	8.8	
FD100/109-16-3D-CA	10.0~10.9	16	20	39	48	9.8	
FD110/119-16-3D-CA	11.0~11.9	16	20	42	48	10.8	
FD120/129-16-3D-CA	12.0~12.9	16	20	45	48	11.8	12-16.9
FD130/139-16-3D-CA	13.0~13.9	16	20	49	48	12.9	
FD140/149-16-3D-CA	14.0~14.9	16	20	53	48	13.8	
FD150/159-20-3D-CA	15.0~15.9	20	25	56	50	14.8	
FD160/169-20-3D-CA	16.0~16.9	20	25	60	50	15.8	17-20.9
FD170/179-20-3D-CA	17.0~17.9	20	25	63	50	16.8	
FD180/189-25-3D-CA	18.0~18.9	25	32	66	56	17.8	
FD190/199-25-3D-CA	19.0~19.9	25	32	70	56	18.8	
FD200/209-25-3D-CA	20.0~20.9	25	32	73	56	19.8	21-26
FD210/219-25-3D-CA	21.0~21.9	25	32	77	56	20.8	
FD220/229-25-3D-CA	22.0~22.9	25	32	80	56	21.8	
FD230/239-32-3D-CA	23.0~23.9	32	42	84	60	22.8	
FD240/249-32-3D-CA	24.0~24.9	32	42	88	60	23.8	8-11.9
FD250/260-32-3D-CA	25.0~26.0	32	42	91	60	24.8	
inch	inch	inch	mm	mm	mm	mm	8-11.9
FD5/16-11/32-1/2-3D-CA	5/16~11/32	1/2	16	32	45	7.5	
FD23/64-25/64-1/2-3D-CA	23/64~25/64	1/2	16	35	45	8.8	
FD13/32-27/64-5/8-3D-CA	13/32~27/64	5/8	20	39	48	9.9	
FD7/16-15/32-5/8-3D-CA	7/16~15/32	5/8	20	42	48	10.7	12-16.9
FD31/64-1/2-5/8-3D-CA	31/64~1/2	5/8	20	45	48	11.9	
FD33/64-35/64-1/2-3D-CA	33/64~35/64	5/8	20	49	48	12.6	
FD9/16-37/64-1/2-3D-CA	9/16~37/64	5/8	25	53	48	13.8	
FD19/32-5/8-3/4-3D-CA	19/32~5/8	3/4	25	56	50	14.5	17-20.9
FD41/64-21/32-3/4-3D-CA	41/64~21/32	3/4	25	60	50	15.6	
FD43/64-45/64-3/4-3D-CA	43/64~45/64	3/4	25	63	50	16.7	
FD21/32-47/64-1-3D-CA	21/32~47/64	1	32	66	56	17.6	
FD3/8-25/32-1-3D-CA	3/8~25/32	1	32	70	56	18.4	21-26
FD5/16-13/16-1-3D-CA	5/16~13/16	1	32	73	56	19.6	
FD53/64-55/64-1-3D-CA	53/64~55/64	1	32	77	56	20.4	
FD7/8-57/64-1-3D-CA	7/8~57/64	1	32	80	56	21.6	
FD29/32-59/64-1 1/4-3D-CA	29/32~59/64	1 1/4	42	84	60	22.4	21-26
FD61/64-31/32-1 1/4-3D-CA	61/64~31/32	1 1/4	42	88	60	23.6	
FD63/64-1 1/4-3D-CA	63/64~1	1 1/4	42	91	60	24.4	

FD...-5D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
FD080/089-12-SD-CA	8.0-8.9	12	16	50	45	7.8	8-11.9
FD090/099-12-SD-CA	9.0-9.9	12	16	55	45	8.8	
FD100/109-16-SD-CA	10.0-10.9	16	20	60	48	9.8	
FD110/119-16-SD-CA	11.0-11.9	16	20	66	48	10.8	
FD120/129-16-SD-CA	12.0-12.9	16	20	71	48	11.8	12-16.9
FD130/139-16-SD-CA	13.0-13.9	16	20	77	48	12.8	
FD140/149-16-SD-CA	14.0-14.9	16	20	82	48	13.8	
FD150/159-20-SD-CA	15.0-15.9	20	25	88	50	14.8	
FD160/169-20-SD-CA	16.0-16.9	20	25	93	50	15.8	17-20.9
FD170/179-20-SD-CA	17.0-17.9	20	25	99	50	16.8	
FD180/189-25-SD-CA	18.0-18.9	25	32	104	56	17.8	
FD190/199-25-SD-CA	19.0-19.9	25	32	110	56	18.8	
FD200/209-25-SD-CA	20.0-20.9	25	32	115	56	19.8	21-26
FD210/219-25-SD-CA	21.0-21.9	25	32	121	56	20.8	
FD220/229-25-SD-CA	22.0-22.9	25	32	126	56	21.8	
FD230/239-32-SD-CA	23.0-23.9	32	42	132	60	22.8	
FD240/249-32-SD-CA	24.0-24.9	32	42	137	60	23.8	8-11.9
FD250/260-32-SD-CA	25.0-26.0	32	42	143	60	24.8	
inch	inch	inch	mm	mm	mm	mm	
FD5/16-13/32-1/2-SD-CA	5/16-11/32	1/2	16	50	45	7.5	8-11.9
FD23/64-25/64-1/2-SD-CA	23/64-25/64	1/2	16	55	45	8.8	
FD13/32-27/64-5/8-SD-CA	13/32-27/64	5/8	20	60	48	9.9	
FD7/16-13/32-5/8-SD-CA	7/16-13/32	5/8	20	66	48	10.7	
FD31/64-1/2-5/8-SD-CA	31/64-1/2	5/8	20	71	48	11.9	12-16.9
FD13/64-35/64-1/2-SD-CA	13/64-35/64	5/8	20	77	48	12.6	
FD9/16-37/64-1/2-SD-CA	9/16-37/64	5/8	25	82	48	13.8	
FD19/32-5/8-3/4-SD-CA	19/32-5/8	3/4	25	88	50	14.5	
FD41/64-21/32-3/4-SD-CA	41/64-21/32	3/4	25	93	50	15.6	17-20.9
FD43/64-45/64-3/4-SD-CA	43/64-45/64	3/4	25	99	50	16.7	
FD23/32-47/64-1-SD-CA	23/32-47/64	1	32	104	56	17.6	
FD3/8-25/32-1-SD-CA	3/8-25/32	1	32	110	56	18.4	
FD51/64-13/16-1-SD-CA	51/64-13/16	1	32	115	56	19.6	21-26
FD53/64-55/64-1-SD-CA	53/64-55/64	1	32	121	56	20.4	
FD7/8-57/64-1-SD-CA	7/8-57/64	1	32	126	56	21.6	
FD29/32-59/64-1 1/4-SD-CA	29/32-59/64	1 1/4	42	132	60	22.4	
FD61/64-31/32-1 1/4-SD-CA	61/64-31/32	1 1/4	42	137	60	23.6	21-26
FD63/64-1-1 1/4-SD-CA	63/64-1	1 1/4	42	143	60	24.4	



FD...-8D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable (cutting head Dia.(mm))	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
FD080/089-12-8D-CA	8.0~8.9	12	16	76	45	7.6	8-11.9
FD090/099-12-8D-CA	9.0~9.9	12	16	85	45	8.6	
FD100/109-16-8D-CA	10.0~10.9	16	20	93	48	9.6	
FD110/119-16-8D-CA	11.0~11.9	16	20	102	48	10.6	
FD120/129-16-8D-CA	12.0~12.9	16	20	110	48	11.6	12-16.9
FD130/139-16-8D-CA	13.0~13.9	16	20	119	48	12.6	
FD140/149-16-8D-CA	14.0~14.9	16	20	127	48	13.6	
FD150/159-20-8D-CA	15.0~15.9	20	25	136	50	14.6	
FD160/169-20-8D-CA	16.0~16.9	20	25	144	50	15.6	17-20.9
FD170/179-20-8D-CA	17.0~17.9	20	25	153	50	16.6	
FD180/189-25-8D-CA	18.0~18.9	25	32	161	56	17.6	
FD190/199-25-8D-CA	19.0~19.9	25	32	170	56	18.6	
FD200/209-25-8D-CA	20.0~20.9	25	32	178	56	19.6	21-26
FD210/219-25-8D-CA	21.0~21.9	25	32	187	56	20.6	
FD220/229-32-8D-CA	22.0~22.9	25	32	195	56	21.6	
FD230/239-32-8D-CA	23.0~23.9	32	42	204	60	22.6	
FD240/249-32-8D-CA	24.0~24.9	32	42	212	60	23.6	8-11.9
FD250/260-32-8D-CA	25.0~26.0	32	42	221	60	24.6	
inch	inch	inch	mm	mm	mm	mm	
FD5/16-11/32-1/2-8D-CA	5/16~11/32	1/2	16	76	45	7.5	8-11.9
FD23/64-25/64-1/2-8D-CA	23/64~25/64	1/2	16	85	45	8.8	
FD13/32-37/64-5/8-8D-CA	13/32~37/64	5/8	20	93	48	9.9	
FD7/16-13/32-5/8-8D-CA	7/16~13/32	5/8	20	102	48	10.7	
FD31/64-1/2-5/8-8D-CA	31/64~1/2	5/8	20	110	48	11.9	12-16.9
FD13/64-35/64-1/2-8D-CA	13/64~35/64	5/8	20	119	48	12.6	
FD9/16-37/64-1/2-8D-CA	9/16~37/64	5/8	25	127	48	13.8	
FD15/32-5/8-3/4-8D-CA	15/32~5/8	3/4	25	136	50	14.5	
FD41/64-21/32-3/4-8D-CA	41/64~21/32	3/4	25	144	50	15.6	17-20.9
FD43/64-45/64-3/4-8D-CA	43/64~45/64	3/4	25	153	50	16.7	
FD23/32-47/64-1-8D-CA	23/32~47/64	1	32	161	56	17.6	
FD3/8-25/32-1-8D-CA	3/8~25/32	1	32	170	56	18.4	
FD51/64-13/16-1-8D-CA	51/64~13/16	1	32	178	56	19.6	21-26
FD53/64-55/64-1-8D-CA	53/64~55/64	1	32	187	56	20.4	
FD7/8-57/64-1-8D-CA	7/8~57/64	1	32	195	56	21.6	
FD29/32-59/64-1 1/4-8D-CA	29/32~59/64	1 1/4	42	204	60	22.4	
FD61/64-1 1/32-1 1/4-8D-CA	61/64~1 1/32	1 1/4	42	212	60	23.6	21-26
FD63/64-1 1/4-8D-CA	63/64~1 1/4	1 1/4	42	221	60	24.4	

FD...-12D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



订货号 Order No.	刀头直径范围 Applicable cutting head Dia.(mm)	尺寸 Dimensions(mm)					锁紧钥匙 Wrench
		d	D3	L1	Ls	D	
FD120/12918-12D-CA	12.0-12.9	16	20	162	48	11.6	12-16.9
FD130/13916-12D-CA	13.0-13.9	16	20	175	48	12.6	
FD140/14916-12D-CA	14.0-14.9	16	20	187	48	13.6	
FD150/15920-12D-CA	15.0-15.9	20	20	200	50	14.6	
FD160/16920-12D-CA	16.0-16.9	20	20	212	50	15.6	
FD170/17920-12D-CA	17.0-17.9	20	20	225	50	16.6	
FD180/18925-12D-CA	18.0-18.9	25	32	237	56	17.6	17-20.9
FD190/19925-12D-CA	19.0-19.9	25	32	250	56	18.6	
FD200/20925-12D-CA	20.0-20.9	25	32	262	56	19.6	
FD210/21925-12D-CA	21.0-21.9	25	32	275	56	20.6	
FD220/22925-12D-CA	22.0-22.9	25	32	287	56	21.6	21-26
FD230/23932-12D-CA	23.0-23.9	32	42	300	60	22.6	
FD240/24932-12D-CA	24.0-24.9	32	42	313	60	23.6	
FD250/26632-12D-CA	25.0-26.0	32	42	325	60	24.6	
inch	inch	inch	mm	mm	mm	mm	
FD31/64-1/2-5/8-12D-CA	31/64-1/2	5/8	20	162	48	11.9	12-16.9
FD33/64-35/64-1/2-12D-CA	33/64-35/64	5/8	20	175	48	12.6	
FD9/16-37/64-1/2-12D-CA	9/16-37/64	5/8	25	187	48	13.8	
FD18/32-5/8-3/4-12D-CA	18/32-5/8	3/4	25	200	50	14.3	
FD41/64-21/32-3/4-12D-CA	41/64-21/32	3/4	25	212	50	15.6	
FD43/64-45/64-3/4-12D-CA	43/64-45/64	3/4	25	225	50	16.7	
FD031/8-25/32-1-12D-CA	25/32-47/64	1	32	237	56	17.6	17-20.9
FD51/64-13/16-1-12D-CA	3/8-25/32	1	32	250	56	18.4	
FD53/64-55/64-1-12D-CA	51/64-13/16	1	32	262	56	19.6	
FD7/8-57/64-1-12D-CA	53/64-55/64	1	32	275	56	20.4	
FD28/32-59/64-1 1/4-12D-CA	7/8-57/64	1	32	287	56	21.6	21-26
FD61/64-31/32-1 1/4-12D-CA	29/32-59/64	1 1/4	42	300	60	22.4	
FD63/64-1-1 1/4-12D-CA	41/64-1/32	1 1/4	42	313	60	23.6	
	63/64-1	1 1/4	42	325	60	24.4	

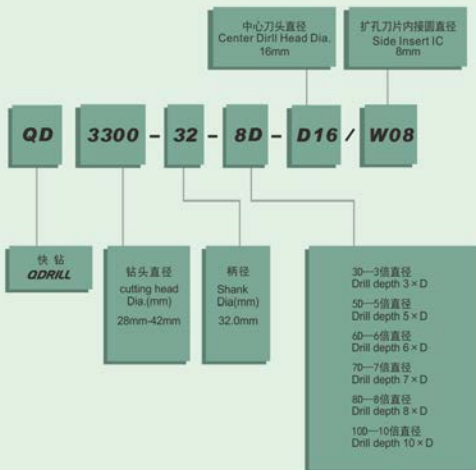


Mono Tip系列推荐的切削参数 Technical Information

ISO	被加工材料 Material	条件 Heat treatment	抗拉力 (N/mm ²) Tensile force	布氏硬度 (HB)	切削速度 (m/min) Cutting speed	进给 (mm/min) Feed rate (mm/min)					
						D<10	D=10-11.8	D=12-13.8	D=14-15.9	D=16-19.8	D=20-25.8
P	合金钢 alloy steel	<0.25% C 退火 annealed	420	125	80-140						
		<0.25% C 调质 quenched	650	190	80-130	0.12	0.15	0.18	0.20	0.25	0.25
	碳钢 carbon steel	<0.55% C 退火和调质 annealing and tempering	850	250	80-120	0.17	0.21	0.24	0.27	0.35	0.35
	易切钢 free cutting steel	<0.35% C 退火 annealed	750	220	70-110	0.22	0.28	0.30	0.35	0.45	0.45
		退火和调质 annealing and tempering	1000	300	50-90						
	低碳合金钢 low carbon steel	退火 annealed	690	200	70-120	0.12	0.14	0.16	0.18	0.23	0.25
	碳钢 (含硫或含钙) carbon steel (containing sulfur or calcium)	退火和调质 annealing and tempering	930	275	70-110	0.18	0.21	0.24	0.26	0.31	0.35
	易切钢 (含硫或含钙) free cutting steel (containing sulfur or calcium)	退火和调质 annealing and tempering	1000	300	50-90	0.25	0.28	0.32	0.35	0.40	0.45
			1200	350	40-70						
	高合金钢 (含钨) high alloy steel (containing tungsten)	退火 annealed	680	200	30-90	0.12	0.12	0.15	0.16	0.20	0.22
M	工具钢 tool steel	退火和调质 annealing and tempering	1700	525	40-80	0.16	0.17	0.20	0.23	0.25	0.27
	不锈钢, 铁素体 stainless steel, ferritic	退火和调质 annealing and tempering	680	200	40-70	0.20	0.22	0.25	0.28	0.30	0.33
	不锈钢, 马氏体 stainless steel, martensitic	退火和调质 annealing and tempering	820	240	40-70	0.10	0.12	0.14	0.16	0.16	0.18
	不锈钢, 奥氏体 stainless steel, austenitic	退火和调质 annealing and tempering	600	180	30-70	0.12	0.15	0.17	0.20	0.21	0.24
K	灰铸铁 (GG)	退火和调质 annealing and tempering	160	50	90-140						
	球墨铸铁 (GGG)	退火和调质 annealing and tempering	250	80	80-140	0.15	0.18	0.20	0.24	0.26	0.30
	球墨铸铁 (GGG)	退火和调质 annealing and tempering	180	60	90-180	0.15	0.20	0.25	0.30	0.35	0.35
	可锻铸铁 malleable cast iron	退火和调质 annealing and tempering	260	80	80-140	0.22	0.27	0.32	0.37	0.45	0.57
		退火和调质 annealing and tempering	130	40	90-140	0.30	0.35	0.40	0.45	0.55	0.60
N	铝合金 aluminum alloy	退火和调质 annealing and tempering	220	70	90-140						
	2024 Al	退火和调质 annealing and tempering	460	140	90-220	0.20	0.25	0.30	0.35	0.40	0.45
	7075 Al	退火和调质 annealing and tempering	500	160	90-220	0.27	0.32	0.37	0.42	0.50	0.57
	6061 Al	退火和调质 annealing and tempering	310	100	80-140	0.35	0.40	0.45	0.50	0.60	0.70
	铜合金 copper alloy	退火和调质 annealing and tempering	350	110	90-220						
	黄铜 brass	退火和调质 annealing and tempering	300	100	90-220						
	铍铜 beryllium copper	退火和调质 annealing and tempering	1000	300	90-220						
S	钛合金 titanium alloy	退火和调质 annealing and tempering	900	275	20-50	0.06	0.08	0.10	0.12	0.12	0.14
	钛合金 titanium alloy	退火和调质 annealing and tempering	900	275	20-50	0.11	0.13	0.15	0.18	0.20	0.22
H	高速钢 high speed steel	退火和调质 annealing and tempering	620	190	20-50	0.06	0.08	0.10	0.12	0.14	0.16
	硬质合金 carbide	退火和调质 annealing and tempering	1200	360	20-50	0.12	0.15	0.18	0.20	0.22	0.25
	陶瓷 ceramic	退火和调质 annealing and tempering	1200	360	20-50	0.06	0.08	0.10	0.12	0.14	0.16
	金刚石 diamond	退火和调质 annealing and tempering	1200	360	20-50	0.06	0.08	0.10	0.12	0.14	0.16

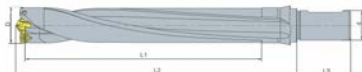
- * 如果选用超过8倍径的刀锋请降低切削速度和进给率
- * Lower cutting speed and feed rate should be used for tool holders of 8D or 12D

Multi Tip系列整体式复合钻头刀体编码系统 Multi Tip Line Solid Toolholder code system





QD...3D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 Dimensions(mm)					配件 Spare Parts		
			d	L1	L2	Ls	D			
QD2800-32-3D-D14/A04	MD-140-RA	ACMT040308	32	64	118	60	28	Key14-16	M2.5X8	T9
QD2858-32-3D-D15/A04	MD-150-RA	ACMT040308	32	66	120	60	28.58			
QD2900-32-3D-D16/A04	MD-160-RA	ACMT040308	32	87	121	60	29			
QD2936-32-3D-D16/A04	MD-160-RA	ACMT040308	32	89	123	60	29.36			
QD3000-32-3D-D16/A04	MD-160-RA	ACMT040308	32	90	125	60	30	Key17-20		
QD3018-32-3D-D17/A04	MD-170-RA	ACMT040308	32	91	126	60	30.18			
QD3096-32-3D-D17/A04	MD-170-RA	ACMT040308	32	93	128	60	30.96			
QD3106-32-3D-D17/A04	MD-170-RA	ACMT040308	32	94	129	60	31			
QD3175-32-3D-D15/W08	MD-150-RA	WOMT080308...D33	32	96	133	60	31.75	Key14-16		
QD3200-32-3D-D15/W08	MD-150-RA	WOMT080308...D33	32	97	134	60	32			
QD3300-32-3D-D16/W08	MD-160-RA	WOMT080308...D33	32	99	136	60	33			
QD3320-32-3D-D16/W08	MD-160-RA	WOMT080308...D33	32	100	137	60	33.2			
QD3335-32-3D-D16/W08	MD-160-RA	WOMT080308...D33	32	101	138	60	33.35	Key17-20		
QD3400-32-3D-D16/W08	MD-160-RA	WOMT080308...D33	32	102	139	60	34			
QD3495-32-3D-D18/W08	MD-180-RA	WOMT080308...D33	32	105	142	60	34.93			
QD3506-32-3D-D18/W08	MD-180-RA	WOMT080308...D33	32	106	144	60	35			
QD3600-32-3D-D18/W08	MD-180-RA	WOMT080308...D33	32	108	146	60	36	Key14-16		
QD3653-32-3D-D19/W08	MD-190-RA	WOMT080308...D33	32	110	148	60	36.53			
QD3700-32-3D-D16/W10	MD-160-RA	WOMT100308...D39	32	111	149	60	37			
QD3750-32-3D-D16/W10	MD-160-RA	WOMT100308...D39	32	113	151	60	37.5			
QD3800-32-3D-D16/W10	MD-160-RA	WOMT100308...D39	32	114	154	60	38	Key17-20		
QD3810-32-3D-D16/W10	MD-160-RA	WOMT100308...D39	32	115	155	60	38.1			
QD3900-32-3D-D18/W10	MD-180-RA	WOMT100308...D39	32	117	157	60	39			
QD3920-32-3D-D18/W10	MD-180-RA	WOMT100308...D39	32	118	158	60	39.2			
QD3970-32-3D-D18/W10	MD-180-RA	WOMT100308...D39	32	120	160	60	39.7	Key14-16		
QD4000-32-3D-D18/W10	MD-180-RA	WOMT100308...D39	50	121	164	70	40			
QD4100-32-3D-D19/W10	MD-190-RA	WOMT100308...D39	50	123	166	70	41			
QD4126-32-3D-D19/W10	MD-190-RA	WOMT100308...D39	50	124	167	70	41.26			
QD4200-50-3D-D19/W10	MD-190-RA	WOMT120408...D42	50	126	170	70	42	Key17-20		
QD4300-50-3D-D16/W12	MD-160-RA	WOMT120408...D42	50	129	173	70	43			
QD4400-50-3D-D18/W12	MD-180-RA	WOMT120408...D42	50	132	176	70	44			
QD4445-50-3D-D18/W12	MD-180-RA	WOMT120408...D42	50	134	178	70	44.45			
QD4500-50-3D-D18/W12	MD-180-RA	WOMT120408...D42	50	135	179	70	45	Key14-16		
QD4600-50-3D-D19/W12	MD-190-RA	WOMT120408...D42	50	138	182	70	46			
QD4700-50-3D-D20/W12	MD-200-RA	WOMT120408...D42	50	141	185	70	47			
QD4763-50-3D-D21/W12	MD-210-RA	WOMT120408...D42	50	143	187	70	47.63			
QD4800-50-3D-D21/W12	MD-210-RA	WOMT120408...D42	50	144	189	70	48	Key21-28		
QD4900-50-3D-D22/W12	MD-220-RA	WOMT120408...D42	50	147	192	70	49			
QD5000-50-3D-D23/W12	MD-230-RA	WOMT120408...D42	50	150	195	70	50			
QD5080-50-3D-D24/W12	MD-240-RA	WOMT120408...D42	50	153	198	70	50.8			
QD5100-50-3D-D24/W12	MD-240-RA	WOMT120408...D42	50	154	199	70	51	Key14-16		
QD5200-50-3D-D25/W12	MD-250-RA	WOMT120408...D42	50	156	201	70	52			
QD5300-50-3D-D26/W12	MD-260-RA	WOMT120408...D42	50	159	204	70	53			
QD5386-50-3D-D27/W12	MD-270-RA	WOMT120408...D42	50	162	207	70	53.86			
QD5400-50-3D-D27/W12	MD-270-RA	WOMT120408...D42	50	163	208	70	54	Key17-20		
QD5500-50-3D-D28/W12	MD-280-RA	WOMT120408...D42	50	165	210	70	55			

QD...-3D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号
Order No.

中心刀头
Center Drill Head Dia

扩孔刀片x2
Side Insert x2

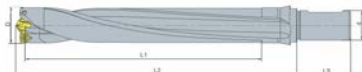
尺寸
Dimensions(mm)

配件
Spare Parts

				d	L1	L2	Ls	D					
QD5600-50-3D-D20/W15	MD-200-RA	WOMT150308...D55		50	168	213	70	56	Key17-20	MSX10	T20		
QD5700-50-3D-D21/W15	MD-210-RA	WOMT150308...D55		50	171	216	70	57					
QD5800-50-3D-D22/W15	MD-220-RA	WOMT150308...D55		50	174	219	70	58					
QD5900-50-3D-D23/W15	MD-230-RA	WOMT150308...D55		50	177	222	70	59					
QD6000-50-3D-D24/W15	MD-240-RA	WOMT150308...D55		50	180	225	70	60	Key21-28				
QD6100-50-3D-D25/W15	MD-250-RA	WOMT150308...D55		50	183	228	70	61					
QD6200-50-3D-D26/W15	MD-260-RA	WOMT150308...D55		50	186	231	70	62					
QD6300-50-3D-D27/W15	MD-270-RA	WOMT150308...D55		50	189	234	70	63					
QD6400-50-3D-D28/W15	MD-280-RA	WOMT150308...D55		50	192	237	70	64					
QD6500-50-3D-D29/W15	MD-290-RA	WOMT150308...D55		50	195	240	70	65					
QD6600-50-3D-D30/W15	MD-300-RA	WOMT150308...D55		50	198	243	70	66					
QD6700-50-3D-D31/W15	MD-310-RA	WOMT150308...D55		50	201	246	70	67	Key29-34				
QD6800-50-3D-D32/W15	MD-320-RA	WOMT150308...D55		50	204	249	70	68					
QD6900-50-3D-D33/W15	MD-330-RA	WOMT150308...D55		50	207	252	70	69					
QD7000-50-3D-D34/W15	MD-340-RA	WOMT150308...D55		50	210	255	70	70					



QD...-5D... Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	
QD2800-32-SD-D14/A04	MD-140-RA	ACMT040308	32	140	174	60	28	Key14-16
QD2858-32-SD-D15/A04	MD-150-RA	ACMT040308	32	143	177	60	28.58	
QD2900-32-SD-D16/A04	MD-160-RA	ACMT040308	32	145	179	60	29	
QD2936-32-SD-D16/A04	MD-160-RA	ACMT040308	32	147	181	60	29.36	
QD3000-32-SD-D16/A04	MD-160-RA	ACMT040308	32	150	185	60	30	Key17-20
QD3018-32-SD-D17/A04	MD-170-RA	ACMT040308	32	151	186	60	30.18	
QD3096-32-SD-D17/A04	MD-170-RA	ACMT040308	32	155	190	60	30.96	
QD3106-32-SD-D17/A04	MD-170-RA	ACMT040308	32	156	191	60	31	
QD3175-32-SD-D15/W08	MD-150-RA	WOMT080308...D33	32	159	196	60	31.75	Key14-16
QD3200-32-SD-D15/W08	MD-150-RA	WOMT080308...D33	32	160	197	60	32	
QD3300-32-SD-D16/W08	MD-160-RA	WOMT080308...D33	32	165	202	60	33	
QD3320-32-SD-D16/W08	MD-160-RA	WOMT080308...D33	32	166	203	60	33.2	
QD3335-32-SD-D16/W08	MD-160-RA	WOMT080308...D33	32	167	204	60	33.35	Key17-20
QD3400-32-SD-D16/W08	MD-160-RA	WOMT080308...D33	32	170	207	60	34	
QD3495-32-SD-D18/W08	MD-180-RA	WOMT080308...D33	32	175	212	60	34.93	
QD3506-32-SD-D18/W08	MD-180-RA	WOMT080308...D33	32	176	214	60	35	
QD3600-32-SD-D18/W08	MD-180-RA	WOMT080308...D33	32	180	218	60	36	Key14-16
QD3653-32-SD-D19/W08	MD-190-RA	WOMT080308...D33	32	183	221	60	36.53	
QD3700-32-SD-D16/W10	MD-160-RA	WOMT100308...D39	32	185	223	60	37	
QD3750-32-SD-D16/W10	MD-160-RA	WOMT100308...D39	32	188	226	60	37.5	
QD3800-32-SD-D16/W10	MD-160-RA	WOMT100308...D39	32	190	230	60	38	Key17-20
QD3810-32-SD-D16/W10	MD-160-RA	WOMT100308...D39	32	191	231	60	38.1	
QD3900-32-SD-D18/W10	MD-180-RA	WOMT100308...D39	32	195	235	60	39	
QD3920-32-SD-D18/W10	MD-180-RA	WOMT100308...D39	32	196	236	60	39.2	
QD3970-32-SD-D18/W10	MD-180-RA	WOMT100308...D39	32	199	239	60	39.7	Key14-16
QD4000-32-SD-D18/W10	MD-180-RA	WOMT100308...D39	50	200	243	70	40	
QD4100-32-SD-D19/W10	MD-190-RA	WOMT100308...D39	50	205	248	70	41	
QD4126-32-SD-D19/W10	MD-190-RA	WOMT100308...D39	50	207	250	70	41.26	
QD4200-50-SD-D18/W10	MD-190-RA	WOMT120408...D42	50	210	254	70	42	Key17-20
QD4300-50-SD-D16/W12	MD-160-RA	WOMT120408...D42	50	215	259	70	43	
QD4400-50-SD-D18/W12	MD-180-RA	WOMT120408...D42	50	220	264	70	44	
QD4445-50-SD-D18/W12	MD-180-RA	WOMT120408...D42	50	223	267	70	44.45	
QD4500-50-SD-D18/W12	MD-180-RA	WOMT120408...D42	50	225	269	70	45	Key21-28
QD4600-50-SD-D18/W12	MD-190-RA	WOMT120408...D42	50	230	274	70	46	
QD4700-50-SD-D20/W12	MD-200-RA	WOMT120408...D42	50	235	279	70	47	
QD4763-50-SD-D21/W12	MD-210-RA	WOMT120408...D42	50	238	283	70	47.63	
QD4800-50-SD-D21/W12	MD-210-RA	WOMT120408...D42	50	240	285	70	48	Key14-16
QD4900-50-SD-D22/W12	MD-220-RA	WOMT120408...D42	50	245	290	70	49	
QD5000-50-SD-D23/W12	MD-230-RA	WOMT120408...D42	50	250	295	70	50	
QD5080-50-SD-D24/W12	MD-240-RA	WOMT120408...D42	50	254	299	70	50.8	
QD5100-50-SD-D24/W12	MD-240-RA	WOMT120408...D42	50	255	300	70	51	Key17-20
QD5200-50-SD-D25/W12	MD-250-RA	WOMT120408...D42	50	260	305	70	52	
QD5300-50-SD-D26/W12	MD-260-RA	WOMT120408...D42	50	265	310	70	53	
QD5386-50-SD-D27/W12	MD-270-RA	WOMT120408...D42	50	270	315	70	53.86	
QD5400-50-SD-D27/W12	MD-270-RA	WOMT120408...D42	50	271	316	70	54	Key14-16
QD5500-50-SD-D28/W12	MD-280-RA	WOMT120408...D42	50	275	320	70	55	

QD...-5D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	  
QD5600-5D-SD-D20/W15	MD-200-RA	WOMT150308...D55	50	280	325	70	56	Key17-20 MSX10 T20
QD5700-5D-SD-D21/W15	MD-210-RA	WOMT150308...D55	50	285	330	70	57	
QD5800-5D-SD-D22/W15	MD-220-RA	WOMT150308...D55	50	290	335	70	58	
QD5900-5D-SD-D23/W15	MD-230-RA	WOMT150308...D55	50	295	340	70	59	
QD6000-5D-SD-D24/W15	MD-240-RA	WOMT150308...D55	50	300	345	70	60	
QD6100-5D-SD-D25/W15	MD-250-RA	WOMT150308...D55	50	305	350	70	61	
QD6200-5D-SD-D26/W15	MD-260-RA	WOMT150308...D55	50	310	355	70	62	
QD6300-5D-SD-D27/W15	MD-270-RA	WOMT150308...D55	50	315	360	70	63	
QD6400-5D-SD-D28/W15	MD-280-RA	WOMT150308...D55	50	320	365	70	64	
QD6500-5D-SD-D29/W15	MD-290-RA	WOMT150308...D55	50	325	370	70	65	
QD6600-5D-SD-D30/W15	MD-300-RA	WOMT150308...D55	50	330	375	70	66	Key29-34
QD6700-5D-SD-D31/W15	MD-310-RA	WOMT150308...D55	50	335	380	70	67	
QD6800-5D-SD-D32/W15	MD-320-RA	WOMT150308...D55	50	340	385	70	68	
QD6900-5D-SD-D33/W15	MD-330-RA	WOMT150308...D55	50	345	390	70	69	
QD7000-5D-SD-D34/W15	MD-340-RA	WOMT150308...D55	50	350	395	70	70	



QD...-6D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)	配件 Spare Parts
			d L1 L2 Ls D	
QD2800-32-6D-D14/A04	MD-140-RA	ACMT040308	32 168 202 60 28	Key14-16 M2.5X8 T9
QD2858-32-6D-D15/A04	MD-150-RA	ACMT040308	32 172 206 60 28.58	
QD2900-32-6D-D16/A04	MD-160-RA	ACMT040308	32 174 208 60 29	
QD2936-32-6D-D16/A04	MD-160-RA	ACMT040308	32 177 211 60 29.36	
QD3000-32-6D-D16/A04	MD-160-RA	ACMT040308	32 180 215 60 30	Key17-20
QD3018-32-6D-D17/A04	MD-170-RA	ACMT040308	32 182 217 60 30.18	
QD3096-32-6D-D17/A04	MD-170-RA	ACMT040308	32 186 221 60 30.96	
QD3106-32-6D-D17/A04	MD-170-RA	ACMT040308	32 187 222 60 31	
QD3175-32-6D-D15/W08	MD-150-RA	WOMT080308...D33	32 191 228 60 31.75	Key14-16 M3X8 T10
QD3200-32-6D-D15/W08	MD-150-RA	WOMT080308...D33	32 192 229 60 32	
QD3300-32-6D-D16/W08	MD-160-RA	WOMT080308...D33	32 198 235 60 33	
QD3320-32-6D-D16/W08	MD-160-RA	WOMT080308...D33	32 200 237 60 33.2	
QD3335-32-6D-D16/W08	MD-160-RA	WOMT080308...D33	32 201 238 60 33.35	Key17-20
QD3400-32-6D-D16/W08	MD-160-RA	WOMT080308...D33	32 204 241 60 34	
QD3495-32-6D-D18/W08	MD-180-RA	WOMT080308...D33	32 210 247 60 34.93	
QD3506-32-6D-D18/W08	MD-180-RA	WOMT080308...D33	32 211 249 60 35	
QD3600-32-6D-D18/W08	MD-180-RA	WOMT080308...D33	32 216 254 60 36	Key14-16
QD3653-32-6D-D19/W08	MD-190-RA	WOMT080308...D33	32 220 258 60 36.53	
QD3700-32-6D-D16/W10	MD-160-RA	WOMT100308...D39	32 222 260 60 37	
QD3750-32-6D-D16/W10	MD-160-RA	WOMT100308...D39	32 225 263 60 37.5	
QD3800-32-6D-D16/W10	MD-160-RA	WOMT100308...D39	32 228 266 60 38	Key17-20
QD3810-32-6D-D16/W10	MD-160-RA	WOMT100308...D39	32 229 269 60 38.1	
QD3900-32-6D-D18/W10	MD-180-RA	WOMT100308...D39	32 234 274 60 39	
QD3920-32-6D-D18/W10	MD-180-RA	WOMT100308...D39	32 236 276 60 39.2	
QD3970-32-6D-D18/W10	MD-180-RA	WOMT100308...D39	32 239 279 60 39.7	Key14-16
QD4000-32-6D-D18/W10	MD-180-RA	WOMT100308...D39	32 240 283 70 40	
QD4100-32-6D-D19/W10	MD-190-RA	WOMT100308...D39	32 246 289 70 41	
QD4126-32-6D-D19/W10	MD-190-RA	WOMT100308...D39	32 248 291 70 41.26	
QD4200-50-6D-D19/W10	MD-190-RA	WOMT120408...D42	50 252 296 70 42	Key17-20
QD4300-60-6D-D16/W12	MD-160-RA	WOMT120408...D42	50 258 302 70 43	
QD4400-50-6D-D18/W12	MD-180-RA	WOMT120408...D42	50 264 308 70 44	
QD4445-50-6D-D18/W12	MD-180-RA	WOMT120408...D42	50 267 311 70 44.45	
QD4500-50-6D-D18/W12	MD-180-RA	WOMT120408...D42	50 270 314 70 45	Key14-16
QD4600-50-6D-D19/W12	MD-190-RA	WOMT120408...D42	50 276 320 70 46	
QD4700-50-6D-D20/W12	MD-200-RA	WOMT120408...D42	50 282 326 70 47	
QD4763-50-6D-D21/W12	MD-210-RA	WOMT120408...D42	50 286 330 70 47.63	
QD4800-50-6D-D21/W12	MD-210-RA	WOMT120408...D42	50 288 333 70 48	Key17-20
QD4900-50-6D-D22/W12	MD-220-RA	WOMT120408...D42	50 294 339 70 49	
QD5000-50-6D-D23/W12	MD-230-RA	WOMT120408...D42	50 300 345 70 50	
QD5080-50-6D-D24/W12	MD-240-RA	WOMT120408...D42	50 305 350 70 50.8	
QD5100-50-6D-D24/W12	MD-240-RA	WOMT120408...D42	50 306 351 70 51	Key21-28
QD5200-50-6D-D25/W12	MD-250-RA	WOMT120408...D42	50 312 357 70 52	
QD5300-50-6D-D26/W12	MD-260-RA	WOMT120408...D42	50 318 363 70 53	
QD5386-50-6D-D27/W12	MD-270-RA	WOMT120408...D42	50 324 369 70 53.86	
QD5400-50-6D-D27/W12	MD-270-RA	WOMT120408...D42	50 325 370 70 54	Key14-16
QD5500-50-6D-D28/W12	MD-280-RA	WOMT120408...D42	50 330 375 70 55	

QD...-6D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号
Order No.

中心刀头
Center Drill head Dia

扩孔刀片x2
Side Insert x2

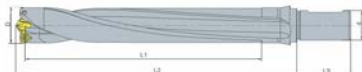
尺寸
Dimensions(mm)

配件
Spare Parts

				d	L1	L2	Ls	D			
											
QD560-50-6D-D20/W15	MD-200-RA	WOMT150308...D55		50	336	381	70	56	Key17-20	MSX10	T20
QD5700-50-6D-D21/W15	MD-210-RA	WOMT150308...D55		50	342	387	70	57			
QD5800-50-6D-D22/W15	MD-220-RA	WOMT150308...D55		50	348	393	70	58			
QD5900-50-6D-D23/W15	MD-230-RA	WOMT150308...D55		50	354	399	70	59			
QD6000-50-6D-D24/W15	MD-240-RA	WOMT150308...D55		50	360	405	70	60			
QD6100-50-6D-D25/W15	MD-250-RA	WOMT150308...D55		50	366	411	70	61			
QD6200-50-6D-D26/W15	MD-260-RA	WOMT150308...D55		50	372	417	70	62			
QD6300-50-6D-D27/W15	MD-270-RA	WOMT150308...D55		50	378	423	70	63	Key21-28	MSX10	T20
QD6400-50-6D-D28/W15	MD-280-RA	WOMT150308...D55		50	384	429	70	64			
QD6500-50-6D-D29/W15	MD-290-RA	WOMT150308...D55		50	390	435	70	65			
QD6600-50-6D-D30/W15	MD-300-RA	WOMT150308...D55		50	396	441	70	66			
QD6700-50-6D-D31/W15	MD-310-RA	WOMT150308...D55		50	402	447	70	67			
QD6800-50-6D-D32/W15	MD-320-RA	WOMT150308...D55		50	408	453	70	68			
QD6900-50-6D-D33/W15	MD-330-RA	WOMT150308...D55		50	414	459	70	69	Key29-34	MSX10	T20
QD7000-50-6D-D34/W15	MD-340-RA	WOMT150308...D55		50	420	465	70	70			



QD...-7D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)	配件 Spare Parts
			d L1 L2 Ls D	
QD2800-32-7D-D14/A04	MD-140-RA	ACMT040308	32 196 230 60 28	Key14-16 M2.5X08 T9
QD2858-32-7D-D15/A04	MD-150-RA	ACMT040308	32 201 235 60 28.58	
QD2900-32-7D-D16/A04	MD-160-RA	ACMT040308	32 203 237 60 29	
QD2936-32-7D-D16/A04	MD-160-RA	ACMT040308	32 206 240 60 29.36	
QD3000-32-7D-D16/A04	MD-160-RA	ACMT040308	32 210 245 60 30	Key17-20
QD3018-32-7D-D17/A04	MD-170-RA	ACMT040308	32 212 247 60 30.18	
QD3096-32-7D-D17/A04	MD-170-RA	ACMT040308	32 217 252 60 30.96	
QD3106-32-7D-D17/A04	MD-170-RA	ACMT040308	32 218 253 60 31	
QD3175-32-7D-D15/W08	MD-150-RA	WOMT080308...D33	32 223 260 60 31.75	Key14-16 M3X08 T10
QD3200-32-7D-D15/W08	MD-150-RA	WOMT080308...D33	32 224 261 60 32	
QD3300-32-7D-D16/W08	MD-160-RA	WOMT080308...D33	32 231 268 60 33	
QD3320-32-7D-D16/W08	MD-160-RA	WOMT080308...D33	32 233 270 60 33.2	
QD3335-32-7D-D16/W08	MD-160-RA	WOMT080308...D33	32 234 271 60 33.35	Key17-20
QD3400-32-7D-D16/W08	MD-160-RA	WOMT080308...D33	32 238 275 60 34	
QD3495-32-7D-D18/W08	MD-180-RA	WOMT080308...D33	32 245 282 60 34.93	
QD3500-32-7D-D18/W08	MD-180-RA	WOMT080308...D33	32 246 284 60 35	
QD3600-32-7D-D18/W08	MD-180-RA	WOMT080308...D33	32 252 290 60 36	Key14-16
QD3663-32-7D-D19/W08	MD-190-RA	WOMT080308...D33	32 256 294 60 36.53	
QD3700-32-7D-D16/W10	MD-160-RA	WOMT100308...D39	32 259 297 60 37	
QD3750-32-7D-D16/W10	MD-160-RA	WOMT100308...D39	32 263 301 60 37.5	
QD3800-32-7D-D16/W10	MD-160-RA	WOMT100308...D39	32 266 306 60 38	Key17-20
QD3810-32-7D-D16/W10	MD-160-RA	WOMT100308...D39	32 267 307 60 38.1	
QD3900-32-7D-D18/W10	MD-180-RA	WOMT100308...D39	32 273 313 60 39	
QD3920-32-7D-D18/W10	MD-180-RA	WOMT100308...D39	32 275 315 60 39.2	
QD3970-32-7D-D18/W10	MD-180-RA	WOMT100308...D39	32 278 318 60 39.7	Key14-16 M4X10 T15
QD4000-50-7D-D18/W10	MD-180-RA	WOMT100308...D39	50 280 323 70 40	
QD4100-50-7D-D19/W10	MD-190-RA	WOMT100308...D39	50 287 330 70 41	
QD4126-50-7D-D19/W10	MD-190-RA	WOMT100308...D39	50 289 332 70 41.26	
QD4200-50-7D-D19/W10	MD-190-RA	WOMT120408...D42	50 294 338 70 42	Key17-20
QD4300-50-7D-D16/W12	MD-160-RA	WOMT120408...D42	50 301 345 70 43	
QD4400-50-7D-D18/W12	MD-180-RA	WOMT120408...D42	50 308 352 70 44	
QD4445-50-7D-D18/W12	MD-180-RA	WOMT120408...D42	50 312 356 70 44.45	
QD4500-50-7D-D18/W12	MD-180-RA	WOMT120408...D42	50 315 359 70 45	Key21-28
QD4600-50-7D-D19/W12	MD-190-RA	WOMT120408...D42	50 322 366 70 46	
QD4700-50-7D-D20/W12	MD-200-RA	WOMT120408...D42	50 329 373 70 47	
QD4763-50-7D-D21/W12	MD-210-RA	WOMT120408...D42	50 334 378 70 47.63	
QD4800-50-7D-D21/W12	MD-210-RA	WOMT120408...D42	50 336 381 70 48	Key17-20
QD4900-50-7D-D22/W12	MD-220-RA	WOMT120408...D42	50 343 388 70 49	
QD5000-50-7D-D23/W12	MD-230-RA	WOMT120408...D42	50 350 395 70 50	
QD5080-50-7D-D24/W12	MD-240-RA	WOMT120408...D42	50 356 401 70 50.8	
QD5100-50-7D-D24/W12	MD-240-RA	WOMT120408...D42	50 357 402 70 51	Key17-20
QD5200-50-7D-D25/W12	MD-250-RA	WOMT120408...D42	50 364 409 70 52	
QD5300-50-7D-D26/W12	MD-260-RA	WOMT120408...D42	50 371 416 70 53	
QD5386-50-7D-D27/W12	MD-270-RA	WOMT120408...D42	50 378 423 70 53.86	
QD5400-50-7D-D27/W12	MD-270-RA	WOMT120408...D42	50 379 424 70 54	Key17-20
QD5500-50-7D-D28/W12	MD-280-RA	WOMT120408...D42	50 385 430 70 55	

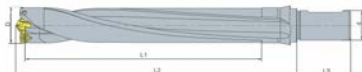
QD...-7D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	  
QD560-50-7D-D20/W15	MD-200-RA	WOMT150308...D55	50	392	437	70	56	Key17-20 MSX10 T20
QD5700-50-7D-D21/W15	MD-210-RA	WOMT150308...D55	50	399	444	70	57	
QD5800-50-7D-D22/W15	MD-220-RA	WOMT150308...D55	50	406	451	70	58	
QD5900-50-7D-D23/W15	MD-230-RA	WOMT150308...D55	50	413	458	70	59	
QD6000-50-7D-D24/W15	MD-240-RA	WOMT150308...D55	50	420	465	70	60	
QD6100-50-7D-D25/W15	MD-250-RA	WOMT150308...D55	50	427	472	70	61	
QD6200-50-7D-D26/W15	MD-260-RA	WOMT150308...D55	50	434	479	70	62	
QD6300-50-7D-D27/W15	MD-270-RA	WOMT150308...D55	50	441	486	70	63	
QD6400-50-7D-D28/W15	MD-280-RA	WOMT150308...D55	50	448	493	70	64	Key29-34
QD6500-50-7D-D29/W15	MD-290-RA	WOMT150308...D55	50	455	500	70	65	
QD6600-50-7D-D30/W15	MD-300-RA	WOMT150308...D55	50	462	507	70	66	
QD6700-50-7D-D31/W15	MD-310-RA	WOMT150308...D55	50	469	514	70	67	
QD6800-50-7D-D32/W15	MD-320-RA	WOMT150308...D55	50	476	521	70	68	
QD6900-50-7D-D33/W15	MD-330-RA	WOMT150308...D55	50	483	528	70	69	
QD7000-50-7D-D34/W15	MD-340-RA	WOMT150308...D55	50	490	535	70	70	



QD...-8D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)					配件 Spare Parts		
			d	L1	L2	Ls	D			
QD2800-32-8D-D14/A04	MD-140-RA	ACMT040308	32	224	258	60	28	Key14-16	M2.5X8	T9
QD2858-32-8D-D15/A04	MD-150-RA	ACMT040308	32	229	263	60	28.58			
QD2900-32-8D-D16/A04	MD-160-RA	ACMT040308	32	232	266	60	29			
QD2936-32-8D-D16/A04	MD-160-RA	ACMT040308	32	235	269	60	29.36			
QD3000-32-8D-D16/A04	MD-160-RA	ACMT040308	32	240	275	60	30	Key17-20		
QD3018-32-8D-D17/A04	MD-170-RA	ACMT040308	32	242	277	60	30.18			
QD3096-32-8D-D17/A04	MD-170-RA	ACMT040308	32	248	283	60	30.96			
QD3106-32-8D-D17/A04	MD-170-RA	ACMT040308	32	249	284	60	31			
QD3175-32-8D-D15/W08	MD-150-RA	WOMT080308...D33	32	254	291	60	31.75	Key14-16		
QD3200-32-8D-D15/W08	MD-150-RA	WOMT080308...D33	32	256	293	60	32			
QD3300-32-8D-D16/W08	MD-160-RA	WOMT080308...D33	32	264	301	60	33			
QD3320-32-8D-D16/W08	MD-160-RA	WOMT080308...D33	32	266	303	60	33.2			
QD3335-32-8D-D16/W08	MD-160-RA	WOMT080308...D33	32	267	304	60	33.35	Key17-20		
QD3400-32-8D-D16/W08	MD-160-RA	WOMT080308...D33	32	272	309	60	34			
QD3495-32-8D-D18/W08	MD-180-RA	WOMT080308...D33	32	280	317	60	34.93			
QD3506-32-8D-D18/W08	MD-180-RA	WOMT080308...D33	32	281	319	60	35			
QD3600-32-8D-D18/W08	MD-180-RA	WOMT080308...D33	32	288	326	60	36	Key14-16		
QD3653-32-8D-D19/W08	MD-190-RA	WOMT080308...D33	32	293	331	60	36.53			
QD3700-32-8D-D16/W10	MD-160-RA	WOMT100308...D39	32	296	334	60	37			
QD3750-32-8D-D16/W10	MD-160-RA	WOMT100308...D39	32	300	338	60	37.5			
QD3800-32-8D-D16/W10	MD-160-RA	WOMT100308...D39	32	304	344	60	38	Key17-20		
QD3810-32-8D-D16/W10	MD-160-RA	WOMT100308...D39	32	305	345	60	38.1			
QD3900-32-8D-D18/W10	MD-180-RA	WOMT100308...D39	32	312	352	60	39			
QD3920-32-8D-D18/W10	MD-180-RA	WOMT100308...D39	32	314	354	60	39.2			
QD3970-32-8D-D18/W10	MD-180-RA	WOMT100308...D39	32	318	358	60	39.7	Key14-16		
QD4000-32-8D-D18/W10	MD-180-RA	WOMT100308...D39	50	320	363	70	40			
QD4100-32-8D-D19/W10	MD-190-RA	WOMT100308...D39	50	328	371	70	41			
QD4126-32-8D-D19/W10	MD-190-RA	WOMT100308...D39	50	331	374	70	41.26			
QD4200-50-8D-D19/W10	MD-190-RA	WOMT120408...D42	50	336	380	70	42	Key17-20		
QD4300-50-8D-D16/W12	MD-160-RA	WOMT120408...D42	50	344	388	70	43			
QD4400-50-8D-D18/W12	MD-180-RA	WOMT120408...D42	50	352	396	70	44			
QD4445-50-8D-D18/W12	MD-180-RA	WOMT120408...D42	50	356	400	70	44.45			
QD4500-50-8D-D18/W12	MD-180-RA	WOMT120408...D42	50	360	404	70	45	Key14-16		
QD4600-50-8D-D19/W12	MD-190-RA	WOMT120408...D42	50	368	412	70	46			
QD4700-50-8D-D20/W12	MD-200-RA	WOMT120408...D42	50	376	420	70	47			
QD4763-50-8D-D21/W12	MD-210-RA	WOMT120408...D42	50	382	426	70	47.63			
QD4800-50-8D-D21/W12	MD-210-RA	WOMT120408...D42	50	384	429	70	48	Key17-20		
QD4900-50-8D-D22/W12	MD-220-RA	WOMT120408...D42	50	392	437	70	49			
QD5000-50-8D-D23/W12	MD-230-RA	WOMT120408...D42	50	400	445	70	50			
QD5080-50-8D-D24/W12	MD-240-RA	WOMT120408...D42	50	407	452	70	50.8			
QD5100-50-8D-D24/W12	MD-240-RA	WOMT120408...D42	50	408	453	70	51	Key14-16		
QD5200-50-8D-D25/W12	MD-250-RA	WOMT120408...D42	50	416	461	70	52			
QD5300-50-8D-D26/W12	MD-260-RA	WOMT120408...D42	50	424	469	70	53			
QD5386-50-8D-D27/W12	MD-270-RA	WOMT120408...D42	50	432	477	70	53.86			
QD5400-50-8D-D27/W12	MD-270-RA	WOMT120408...D42	50	433	478	70	54	Key17-20		
QD5500-50-8D-D28/W12	MD-280-RA	WOMT120408...D42	50	440	485	70	55			

QD...-8D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders


 订货号
Order No.

 中心刀头
Center Drill head Dia

 扩孔刀片x2
Side Insert x2

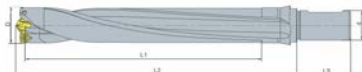
 尺寸
Dimensions(mm)

 配件
Spare Parts

			d	L1	L2	Ls	D			
QD5600-50-8D-D20/W15	MD-200-RA	WOMT150308...D55	50	448	493	70	56	Key17-20	MSX10	T20
QD5700-50-8D-D21/W15	MD-210-RA	WOMT150308...D55	50	456	501	70	57	Key21-28		
QD5800-50-8D-D22/W15	MD-220-RA	WOMT150308...D55	50	464	509	70	58			
QD5900-50-8D-D23/W15	MD-230-RA	WOMT150308...D55	50	472	517	70	59			
QD6000-50-8D-D24/W15	MD-240-RA	WOMT150308...D55	50	480	525	70	60			
QD6100-50-8D-D25/W15	MD-250-RA	WOMT150308...D55	50	488	533	70	61			
QD6200-50-8D-D26/W15	MD-260-RA	WOMT150308...D55	50	496	541	70	62			
QD6300-50-8D-D27/W15	MD-270-RA	WOMT150308...D55	50	504	549	70	63			
QD6400-50-8D-D28/W15	MD-280-RA	WOMT150308...D55	50	512	557	70	64			
QD6500-50-8D-D29/W15	MD-290-RA	WOMT150308...D55	50	520	565	70	65			
QD6600-50-8D-D30/W15	MD-300-RA	WOMT150308...D55	50	528	573	70	66	Key29-34		
QD6700-50-8D-D31/W15	MD-310-RA	WOMT150308...D55	50	536	581	70	67			
QD6800-50-8D-D32/W15	MD-320-RA	WOMT150308...D55	50	544	589	70	68			
QD6900-50-8D-D33/W15	MD-330-RA	WOMT150308...D55	50	552	597	70	69			
QD7000-50-8D-D34/W15	MD-340-RA	WOMT150308...D55	50	560	605	70	70			



QD...-10D... Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)					配件 Spare Parts		
			d	L1	L2	Ls	D			
QD2809-32-10D-D14/A04	MD-140-RA	ACMT040308	32	280	314	60	28	Key14-16	M2.5X08	T9
QD2858-32-10D-D15/A04	MD-150-RA	ACMT040308	32	266	320	60	28.58			
QD2900-32-10D-D16/A04	MD-160-RA	ACMT040308	32	290	324	60	29			
QD2936-32-10D-D16/A04	MD-160-RA	ACMT040308	32	294	328	60	29.36			
QD3000-32-10D-D16/A04	MD-160-RA	ACMT040308	32	300	335	60	30	Key17-20		
QD3018-32-10D-D17/A04	MD-170-RA	ACMT040308	32	302	337	60	30.18			
QD3096-32-10D-D17/A04	MD-170-RA	ACMT040308	32	310	345	60	30.96			
QD3105-32-10D-D17/A04	MD-170-RA	ACMT040308	32	311	346	60	31			
QD3175-32-10D-D15/W08	MD-150-RA	WOMT080308...D33	32	318	355	60	31.75	Key14-16		
QD3200-32-10D-D15/W08	MD-150-RA	WOMT080308...D33	32	320	357	60	32			
QD3300-32-10D-D16/W08	MD-160-RA	WOMT080308...D33	32	330	367	60	33			
QD3320-32-10D-D16/W08	MD-160-RA	WOMT080308...D33	32	332	369	60	33.2			
QD3335-32-10D-D16/W08	MD-160-RA	WOMT080308...D33	32	334	371	60	33.35	Key17-20	M3X08	T10
QD3400-32-10D-D16/W08	MD-160-RA	WOMT080308...D33	32	340	377	60	34			
QD3451-32-10D-D18/W08	MD-180-RA	WOMT080308...D33	32	350	387	60	34.93			
QD3500-32-10D-D18/W08	MD-180-RA	WOMT080308...D33	32	350	388	60	35			
QD3600-32-10D-D18/W08	MD-180-RA	WOMT080308...D33	32	360	398	60	36	Key14-16		
QD3653-32-10D-D19/W08	MD-190-RA	WOMT080308...D33	32	366	404	60	36.53			
QD3700-32-10D-D19/W10	MD-160-RA	WOMT100308...D39	32	370	408	60	37			
QD3750-32-10D-D19/W10	MD-160-RA	WOMT100308...D39	32	375	413	60	37.5			
QD3800-32-10D-D16/W10	MD-160-RA	WOMT100308...D39	32	380	420	60	38	Key17-20		
QD3810-32-10D-D16/W10	MD-160-RA	WOMT100308...D39	32	381	421	60	38.1			
QD3900-32-10D-D18/W10	MD-180-RA	WOMT100308...D39	32	390	430	60	39			
QD3920-32-10D-D18/W10	MD-180-RA	WOMT100308...D39	32	392	432	60	39.2			
QD3970-32-10D-D18/W10	MD-180-RA	WOMT100308...D39	32	397	437	60	39.7	Key14-16		
QD4000-32-10D-D18/W10	MD-180-RA	WOMT100308...D39	50	400	443	70	40			
QD4100-32-10D-D19/W10	MD-190-RA	WOMT100308...D39	50	410	453	70	41			
QD4128-32-10D-D19/W10	MD-190-RA	WOMT100308...D39	50	413	456	70	41.28			
QD4200-50-10D-D19/W10	MD-190-RA	WOMT120408...D42	50	420	464	70	42	Key17-20		
QD4300-50-10D-D16/W12	MD-160-RA	WOMT120408...D42	50	430	474	70	43			
QD4400-50-10D-D18/W12	MD-180-RA	WOMT120408...D42	50	440	484	70	44			
QD4445-50-10D-D18/W12	MD-180-RA	WOMT120408...D42	50	445	489	70	44.45			
QD4500-50-10D-D18/W12	MD-180-RA	WOMT120408...D42	50	450	494	70	45	Key14-16		
QD4600-50-10D-D19/W12	MD-190-RA	WOMT120408...D42	50	460	504	70	46			
QD4700-50-10D-D20/W12	MD-200-RA	WOMT120408...D42	50	470	514	70	47			
QD4793-50-10D-D21/W12	MD-210-RA	WOMT120408...D42	50	477	521	70	47.93			
QD4800-50-10D-D21/W12	MD-210-RA	WOMT120408...D42	50	480	525	70	48	Key17-20		
QD4900-50-10D-D22/W12	MD-220-RA	WOMT120408...D42	50	490	535	70	49			
QD5000-50-10D-D23/W12	MD-230-RA	WOMT120408...D42	50	500	545	70	50			
QD5080-50-10D-D24/W12	MD-240-RA	WOMT120408...D42	50	508	553	70	50.8			
QD5100-50-10D-D24/W12	MD-240-RA	WOMT120408...D42	50	510	555	70	51	Key14-16		
QD5200-50-10D-D25/W12	MD-250-RA	WOMT120408...D42	50	520	565	70	52			
QD5300-50-10D-D26/W12	MD-260-RA	WOMT120408...D42	50	530	575	70	53			
QD5388-50-10D-D27/W12	MD-270-RA	WOMT120408...D42	50	540	585	70	53.88			
QD5400-50-10D-D27/W12	MD-270-RA	WOMT120408...D42	50	541	586	70	54	Key17-20		
QD5500-50-10D-D28/W12	MD-280-RA	WOMT120408...D42	50	550	595	70	55			

QD...-10D... Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心刀头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 (Dimensions)(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	  
QD5600-50-10D-020/W15	MD-200-RA	WOMT150308...D55	50	560	605	70	56	Key17-20 MSX10 T20
QD5700-50-10D-021/W15	MD-210-RA	WOMT150308...D55	50	570	615	70	57	
QD5800-50-10D-022/W15	MD-220-RA	WOMT150308...D55	50	580	625	70	58	
QD5900-50-10D-023/W15	MD-230-RA	WOMT150308...D55	50	590	635	70	59	
QD6000-50-10D-024/W15	MD-240-RA	WOMT150308...D55	50	600	645	70	60	
QD6100-50-10D-025/W15	MD-250-RA	WOMT150308...D55	50	610	655	70	61	
QD6200-50-10D-026/W15	MD-260-RA	WOMT150308...D55	50	620	665	70	62	
QD6300-50-10D-027/W15	MD-270-RA	WOMT150308...D55	50	630	675	70	63	
QD6400-50-10D-028/W15	MD-280-RA	WOMT150308...D55	50	640	685	70	64	
QD6500-50-10D-029/W15	MD-290-RA	WOMT150308...D55	50	650	695	70	65	
QD6600-50-10D-030/W15	MD-300-RA	WOMT150308...D55	50	660	705	70	66	Key29-34
QD6700-50-10D-031/W15	MD-310-RA	WOMT150308...D55	50	670	715	70	67	
QD6800-50-10D-032/W15	MD-320-RA	WOMT150308...D55	50	680	725	70	68	
QD6900-50-10D-033/W15	MD-330-RA	WOMT150308...D55	50	690	735	70	69	
QD7000-50-10D-034/W15	MD-340-RA	WOMT150308...D55	50	700	745	70	70	



Multi Tip系列分体式复合钻头刀体编码系统 Multi Tip Line Modular Toolholder Code System

头部模块编码系统 Cutting unit ordering code system

H

头部模块
QDRILL
Cutting Unit

3300

钻孔直径
Drill Dia.(mm)
33.0mm
(28-55)

-

D16

中心刀头直径
Center Drill Head Dia.
16mm

/

W08

扩孔刀片内接圆直径
Side Insert IC
8mm

杆部模块编码系统 Holder unit ordering code system

S

杆部模块
QDRILL
Holder Unit

31

杆部直径
Holder Dia.
(mm)

/

32

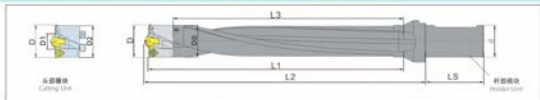
柄部直径
Shank Dia.
(mm)
32.0mm

-

3D

杆部长度
Holder
Length

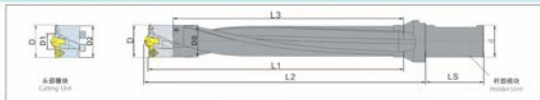
3D„Multi Tip系列分体式复合钻头 Multi Tip Line Modular Toolholders



头部模块 Cutting Unit	钻头尺寸 Drill Dia.D mm	中心钻头 Center Drill head Dia.D1	扩孔刀片x2 Side Insert x2	杆部模块 Holder Unit	尺寸 Dimensions (mm)							接口型号 Interface Code	配件 Spare Parts		
					D2	D0	d	L1	L2	L3	L5				
															
H2800-D14/A04	28.00	MD-140-BA	ACMT040308	527-32-3D	27.5	27	32	95	134	75	60	IF28	M2.5X8	T9	
H2858-D15/A04	28.58	MD-150-BA	ACMT040308		27.5	27	32	95	134	75	60				
H2900-D16/A04	29.00	MD-160-BA	ACMT040308		27.5	27	32	95	134	75	60				
H2936-D16/A04	29.36	MD-160-BA	ACMT040308		27.5	27	32	95	134	75	60				
H3000-D16/A04	30.00	MD-160-BA	ACMT040308	529-32-3D	29.5	29	32	100	138	80	60	Key17-20			
H3018-D17/A04	30.18	MD-170-BA	ACMT040308		29.5	29	32	100	138	80	60				
H3096-D17/A04	30.96	MD-170-BA	ACMT040308		29.5	29	32	100	138	80	60				
H3100-D17/A04	31.00	MD-170-BA	ACMT040308		29.5	29	32	100	138	80	60				
H3175-D15/W08	31.75	MD-150-BA	WOMT080308...-D33	531-32-3D	31.25	30.75	32	112	148	90	60	Key14-16	M3X10	T10	
H3200-D15/W08	32.00	MD-150-BA	WOMT080308...-D33		31.25	30.75	32	112	148	90	60				
H3300-D16/W08	33.00	MD-160-BA	WOMT080308...-D33		31.25	30.75	32	112	148	90	60				
H3320-D16/W08	33.20	MD-160-BA	WOMT080308...-D33		31.25	30.75	32	112	148	90	60				
H3335-D16/W08	33.35	MD-160-BA	WOMT080308...-D33	534-32-3D	31.25	30.75	32	112	148	90	60	IF32			
H3400-D16/W08	34.00	MD-160-BA	WOMT080308...-D33		31.25	30.75	32	112	148	90	60				
H3495-D16/W08	34.93	MD-160-BA	WOMT080308...-D33		31.25	30.75	32	112	148	90	60				
H3500-D16/W08	35.00	MD-180-BA	WOMT080308...-D33		34.5	34	32	122	160	100	60				
H3600-D16/W08	36.00	MD-180-BA	WOMT080308...-D33	534-32-3D	34.5	34	32	122	160	100	60	Key17-20			
H3653-D19/W08	36.53	MD-190-BA	WOMT080308...-D33		34.5	34	32	122	160	100	60				
H3700-D16/W10	37.00	MD-160-BA	WOMT100308...-D39		34.5	34	32	122	160	100	60				
H3750-D16/W10	37.50	MD-160-BA	WOMT100308...-D39		34.5	34	32	122	160	100	60				
H3800-D16/W10	38.00	MD-160-BA	WOMT100308...-D39	537-32-3D	37.5	37	32	125	165	100	60	Key14-16			
H3810-D16/W10	38.10	MD-160-BA	WOMT100308...-D39		37.5	37	32	125	165	100	60				
H3900-D16/W10	39.00	MD-180-BA	WOMT100308...-D39		37.5	37	32	125	165	100	60				
H3920-D16/W10	39.20	MD-180-BA	WOMT100308...-D39		37.5	37	32	125	165	100	60				
H3970-D16/W10	39.70	MD-180-BA	WOMT100308...-D39	539-50-3D	37.5	37	32	125	165	100	60	IF38	Key17-20		
H4000-D18/W10	40.00	MD-180-BA	WOMT100308...-D39		39.5	39	50	135	180	110	70				
H4100-D18/W10	41.00	MD-190-BA	WOMT100308...-D39		39.5	39	50	135	180	110	70				
H4128-D18/W10	41.28	MD-190-BA	WOMT100308...-D39		39.5	39	50	135	180	110	70				
H4200-D19/W10	42.00	MD-190-BA	WOMT120408...-D42	541-50-3D	41.5	41	50	140	185	115	70	Key14-16			
H4300-D16/W12	43.00	MD-160-BA	WOMT120408...-D42		41.5	41	50	140	185	115	70				
H4400-D18/W12	44.00	MD-180-BA	WOMT120408...-D42		41.5	41	50	140	185	115	70				
H4445-D18/W12	44.45	MD-180-BA	WOMT120408...-D42		41.5	41	50	140	185	115	70				
H4500-D18/W12	45.00	MD-180-BA	WOMT120408...-D42	544-50-3D	44.5	44	50	150	195	124	70	IF42	Key17-20	M4X12	T15
H4600-D19/W12	46.00	MD-190-BA	WOMT120408...-D42		44.5	44	50	150	195	124	70				
H4700-D20/W12	47.00	MD-200-BA	WOMT120408...-D42		44.5	44	50	150	195	124	70				
H4763-D21/W12	47.63	MD-210-BA	WOMT120408...-D42		44.5	44	50	150	195	124	70				
H4800-D21/W12	48.00	MD-210-BA	WOMT120408...-D42	547-50-3D	47.5	47	50	160	200	125	70	IF48	Key21-28		
H4900-D22/W12	49.00	MD-220-BA	WOMT120408...-D42		47.5	47	50	160	200	125	70				
H5000-D23/W12	50.00	MD-230-BA	WOMT120408...-D42		47.5	47	50	160	200	125	70				
H5080-D24/W12	50.80	MD-240-BA	WOMT120408...-D42		50.3	49.8	50	170	210	135	70				
H5100-D24/W12	51.00	MD-240-BA	WOMT120408...-D42	550-50-3D	50.3	49.8	50	170	210	135	70				
H5200-D25/W12	52.00	MD-250-BA	WOMT120408...-D42		50.3	49.8	50	170	210	135	70				
H5300-D26/W12	53.00	MD-260-BA	WOMT120408...-D42		50.3	49.8	50	170	210	135	70				
H5396-D27/W12	53.96	MD-270-BA	WOMT120408...-D42		53.4	53	50	175	215	140	70				
H5400-D27/W12	54.00	MD-270-BA	WOMT120408...-D42	553-50-3D	53.4	53	50	175	215	140	70				
H5500-D28/W12	55.00	MD-280-BA	WOMT120408...-D42		53.4	53	50	175	215	140	70				

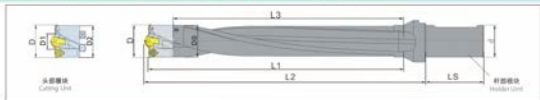


5D..Multi Tip系列分体式复合钻头 Multi Tip Line Modular Toolholders



头部模块 Cutting Unit	钻头尺寸 Drill Dia.D (mm)	中心刀头 Center Drill head Dia.D1	扩孔刀片x2 Side Insert x2	杆部模块 Holder Unit	尺寸 Dimensions (mm) D2 D0 d L1 L2 L3 L5	接口型号 Interface Code	配件 Spare Parts
H2800-D14/A04	28.00	MD-140-BA	ACMT040308	527-32-5D	27.5 27 32 155 194 135 60	IF28	M2.5X8 T9
H2858-D15/A04	28.58	MD-150-BA	ACMT040308		27.5 27 32 155 194 135 60		
H2900-D16/A04	29.00	MD-160-BA	ACMT040308		27.5 27 32 155 194 135 60		
H2936-D16/A04	29.36	MD-160-BA	ACMT040308		27.5 27 32 155 194 135 60		
H3000-D16/A04	30.00	MD-160-BA	ACMT040308	529-32-5D	29.5 29 32 160 199 140 60	IF32	M3X10 T10
H3018-D17/A04	30.18	MD-170-BA	ACMT040308		29.5 29 32 160 199 140 60		
H3096-D17/A04	30.96	MD-170-BA	ACMT040308		29.5 29 32 160 199 140 60		
H3100-D17/A04	31.00	MD-170-BA	ACMT040308		29.5 29 32 160 199 140 60		
H3175-D15/W08	31.75	MD-150-BA	WOMT080308...-D33	531-32-5D	31.25 30.75 32 177 212 155 60	IF32	M3X10 T10
H3200-D15/W08	32.00	MD-150-BA	WOMT080308...-D33		31.25 30.75 32 177 212 155 60		
H3300-D16/W08	33.00	MD-160-BA	WOMT080308...-D33		31.25 30.75 32 177 212 155 60		
H3320-D16/W08	33.20	MD-160-BA	WOMT080308...-D33		31.25 30.75 32 177 212 155 60		
H3335-D16/W08	33.35	MD-160-BA	WOMT080308...-D33	534-32-5D	31.25 30.75 32 177 212 155 60	IF38	M4X12 T15
H3400-D16/W08	34.00	MD-160-BA	WOMT080308...-D33		31.25 30.75 32 177 212 155 60		
H3495-D18/W08	34.95	MD-180-BA	WOMT080308...-D33		31.25 30.75 32 177 212 155 60		
H3500-D18/W08	35.00	MD-180-BA	WOMT080308...-D33		31.25 30.75 32 177 212 155 60		
H3600-D18/W08	36.00	MD-180-BA	WOMT080308...-D33	537-32-5D	34.5 34 32 192 230 170 60	IF38	Key17-20
H3653-D19/W08	36.53	MD-190-BA	WOMT080308...-D33		34.5 34 32 192 230 170 60		
H3700-D16/W10	37.00	MD-160-BA	WOMT100308...-D39		34.5 34 32 192 230 170 60		
H3750-D16/W10	37.50	MD-160-BA	WOMT100308...-D39		34.5 34 32 192 230 170 60		
H3800-D16/W10	38.00	MD-160-BA	WOMT100308...-D39	539-50-5D	37.5 37 32 215 245 190 60	IF42	Key17-20
H3810-D16/W10	38.10	MD-160-BA	WOMT100308...-D39		37.5 37 32 215 245 190 60		
H3900-D18/W10	39.00	MD-180-BA	WOMT100308...-D39		37.5 37 32 215 245 190 60		
H3920-D18/W10	39.20	MD-180-BA	WOMT100308...-D39		37.5 37 32 215 245 190 60		
H3970-D18/W10	39.70	MD-180-BA	WOMT100308...-D39	541-50-5D	37.5 37 32 215 245 190 60	IF48	Key21-28
H4000-D18/W10	40.00	MD-180-BA	WOMT100308...-D39		37.5 37 32 215 245 190 60		
H4100-D18/W10	41.00	MD-190-BA	WOMT100308...-D39		39.5 39 50 220 265 195 70		
H4128-D19/W10	41.28	MD-190-BA	WOMT100308...-D39		39.5 39 50 220 265 195 70		
H4200-D19/W10	42.00	MD-190-BA	WOMT120408...-D42	544-50-5D	41.5 41 50 230 277 205 70	IF48	Key21-28
H4300-D16/W12	43.00	MD-160-BA	WOMT120408...-D42		41.5 41 50 230 277 205 70		
H4400-D18/W12	44.00	MD-180-BA	WOMT120408...-D42		41.5 41 50 230 277 205 70		
H4445-D18/W12	44.45	MD-180-BA	WOMT120408...-D42		41.5 41 50 230 277 205 70		
H4500-D18/W12	45.00	MD-180-BA	WOMT120408...-D42	547-50-5D	44.5 44 50 245 285 219 70	IF48	Key21-28
H4600-D19/W12	46.00	MD-190-BA	WOMT120408...-D42		44.5 44 50 245 285 219 70		
H4700-D20/W12	47.00	MD-200-BA	WOMT120408...-D42		44.5 44 50 245 285 219 70		
H4763-D21/W12	47.63	MD-210-BA	WOMT120408...-D42		44.5 44 50 245 285 219 70		
H4800-D21/W12	48.00	MD-210-BA	WOMT120408...-D42	550-50-5D	47.5 47 50 260 305 225 70	IF48	Key21-28
H4900-D22/W12	49.00	MD-220-BA	WOMT120408...-D42		47.5 47 50 260 305 225 70		
H5000-D23/W12	50.00	MD-230-BA	WOMT120408...-D42		47.5 47 50 260 305 225 70		
H5080-D24/W12	50.80	MD-240-BA	WOMT120408...-D42		50.3 49.8 50 275 315 240 70		
H5100-D24/W12	51.00	MD-240-BA	WOMT120408...-D42	553-50-5D	50.3 49.8 50 275 315 240 70	IF48	Key21-28
H5200-D25/W12	52.00	MD-250-BA	WOMT120408...-D42		50.3 49.8 50 275 315 240 70		
H5300-D26/W12	53.00	MD-260-BA	WOMT120408...-D42		50.3 49.8 50 275 315 240 70		
H5396-D27/W12	53.96	MD-270-BA	WOMT120408...-D42		53.4 53 50 280 320 245 70		
H5400-D27/W12	54.00	MD-270-BA	WOMT120408...-D42	553-50-5D	53.4 53 50 280 320 245 70	IF48	Key21-28
H5500-D28/W12	55.00	MD-280-BA	WOMT120408...-D42		53.4 53 50 280 320 245 70		

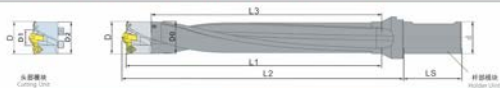
6D..Multi Tip系列分体式复合钻头 Multi Tip Line Modular Toolholders



头部模块 Cutting Unit	钻头尺寸 Drill Dia.D mm	中心刀头 Center Drill head Dia.D1	扩孔刀片x2 Side Insert x2	杆部模块 Holder Unit	尺寸 Dimensions (mm) D2 D0 d L1 L2 L3 L5	接口型号 Interface Code	配件 Spare Parts
H2800-D14/A04	28.00	MD-140-BA	ACMT040308	S27-32-6D	27.5 27 32 180 220 160 60	IF28	M2.5X8 T9
H2858-D15/A04	28.58	MD-150-BA	ACMT040308		27.5 27 32 180 220 160 60		
H2900-D16/A04	29.00	MD-160-BA	ACMT040308		27.5 27 32 180 220 160 60		
H2936-D16/A04	29.36	MD-160-BA	ACMT040308		27.5 27 32 180 220 160 60		
H3000-D16/A04	30.00	MD-160-BA	ACMT040308	S29-32-6D	29.5 29 32 195 233 175 60	Key17-20	
H3018-D17/A04	30.18	MD-170-BA	ACMT040308		29.5 29 32 195 233 175 60		
H3096-D17/A04	30.96	MD-170-BA	ACMT040308		29.5 29 32 195 233 175 60		
H3100-D17/A04	31.00	MD-170-BA	ACMT040308		29.5 29 32 195 233 175 60		
H3175-D15/W08	31.75	MD-150-BA	WOMT080308...D33	S31-32-6D	31.25 30.75 32 211 246 189 60	Key14-16	M3X10 T10
H3200-D15/W08	32.00	MD-150-BA	WOMT080308...D33		31.25 30.75 32 211 246 189 60		
H3300-D16/W08	33.00	MD-160-BA	WOMT080308...D33		31.25 30.75 32 211 246 189 60		
H3320-D16/W08	33.20	MD-160-BA	WOMT080308...D33		31.25 30.75 32 211 246 189 60		
H3335-D16/W08	33.35	MD-160-BA	WOMT080308...D33	S34-32-6D	31.25 30.75 32 211 246 189 60	IF32	
H3400-D16/W08	34.00	MD-160-BA	WOMT080308...D33		31.25 30.75 32 211 246 189 60		
H3495-D18/W08	34.95	MD-180-BA	WOMT080308...D33		31.25 30.75 32 211 246 189 60		
H3500-D18/W08	35.00	MD-180-BA	WOMT080308...D33		34.5 34 32 227 265 205 60		
H3600-D18/W08	36.00	MD-180-BA	WOMT080308...D33	S34-32-6D	34.5 34 32 227 265 205 60	Key17-20	
H3653-D19/W08	36.53	MD-190-BA	WOMT080308...D33		34.5 34 32 227 265 205 60		
H3700-D16/W10	37.00	MD-160-BA	WOMT100308...D39		34.5 34 32 227 265 205 60		
H3750-D16/W10	37.50	MD-160-BA	WOMT100308...D39		34.5 34 32 227 265 205 60		
H3800-D16/W10	38.00	MD-160-BA	WOMT100308...D39	S37-32-6D	37.5 37 32 255 290 230 60	Key14-16	
H3810-D16/W10	38.10	MD-160-BA	WOMT100308...D39		37.5 37 32 255 290 230 60		
H3900-D18/W10	39.00	MD-180-BA	WOMT100308...D39		37.5 37 32 255 290 230 60		
H3920-D18/W10	39.20	MD-180-BA	WOMT100308...D39		37.5 37 32 255 290 230 60		
H3970-D18/W10	39.70	MD-180-BA	WOMT100308...D39	S39-50-6D	37.5 37 32 255 290 230 60	IF38	Key17-20
H4000-D18/W10	40.00	MD-180-BA	WOMT100308...D39		39.5 39 50 257 305 232 70		
H4100-D18/W10	41.00	MD-190-BA	WOMT100308...D39		39.5 39 50 257 305 232 70		
H4128-D19/W10	41.28	MD-190-BA	WOMT100308...D39		39.5 39 50 257 305 232 70		
H4200-D19/W10	42.00	MD-190-BA	WOMT120408...D42	S41-50-6D	41.5 41 50 275 320 250 70	Key14-16	M4X12 T15
H4300-D16/W12	43.00	MD-160-BA	WOMT120408...D42		41.5 41 50 275 320 250 70		
H4400-D18/W12	44.00	MD-180-BA	WOMT120408...D42		41.5 41 50 275 320 250 70		
H4445-D18/W12	44.45	MD-180-BA	WOMT120408...D42		41.5 41 50 275 320 250 70		
H4500-D18/W12	45.00	MD-180-BA	WOMT120408...D42	S44-50-6D	44.5 44 50 295 350 269 70	IF42	Key17-20
H4600-D19/W12	46.00	MD-190-BA	WOMT120408...D42		44.5 44 50 295 350 269 70		
H4700-D20/W12	47.00	MD-200-BA	WOMT120408...D42		44.5 44 50 295 350 269 70		
H4763-D21/W12	47.63	MD-210-BA	WOMT120408...D42		44.5 44 50 295 350 269 70		
H4800-D21/W12	48.00	MD-210-BA	WOMT120408...D42	S47-50-6D	47.5 47 50 310 350 275 70	IF48	Key21-28
H4900-D22/W12	49.00	MD-220-BA	WOMT120408...D42		47.5 47 50 310 350 275 70		
H5000-D23/W12	50.00	MD-230-BA	WOMT120408...D42		47.5 47 50 310 350 275 70		
H5080-D24/W12	50.80	MD-240-BA	WOMT120408...D42		50.3 49.8 50 330 370 295 70		
H5100-D24/W12	51.00	MD-240-BA	WOMT120408...D42	S50-50-6D	50.3 49.8 50 330 370 295 70		
H5200-D25/W12	52.00	MD-250-BA	WOMT120408...D42		50.3 49.8 50 330 370 295 70		
H5300-D26/W12	53.00	MD-260-BA	WOMT120408...D42		50.3 49.8 50 330 370 295 70		
H5396-D27/W12	53.96	MD-270-BA	WOMT120408...D42		53.4 53 50 340 380 305 70		
H5400-D27/W12	54.00	MD-270-BA	WOMT120408...D42	S53-50-6D	53.4 53 50 340 380 305 70		
H5500-D28/W12	55.00	MD-280-BA	WOMT120408...D42		53.4 53 50 340 380 305 70		

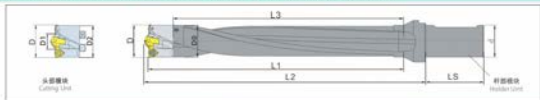


7D...Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



头部模块 Cutting Unit	钻孔尺寸 Drill Dia/D (mm)	中心刀头 Center Drill head Dia/D1	扩孔刀片x2 Side Insert x2	杆部模块 Holder Unit	尺寸 Dimensions (mm) D2 D0 d L1 L2 L3 L5	接口型号 Interface Code	配件 Spare Parts
H2800-D14/A04	28.00	MD-140-RA	ACMT040308	527-32-7D	27.5 27 32 215 255 195 60	IF26	M2.5X8 T9
H2858-D15/A04	28.58	MD-150-RA	ACMT040308		27.5 27 32 215 255 195 60		
H2900-D16/A04	29.00	MD-160-RA	ACMT040308		27.5 27 32 215 255 195 60		
H2936-D16/A04	29.36	MD-160-RA	ACMT040308		27.5 27 32 215 255 195 60		
H3000-D16/A04	30.00	MD-160-RA	ACMT040308	529-32-7D	29.5 29 32 220 258 200 60	Key17-20	
H3018-D17/A04	30.18	MD-170-RA	ACMT040308		29.5 29 32 220 258 200 60		
H3096-D17/A04	30.96	MD-170-RA	ACMT040308		29.5 29 32 220 258 200 60		
H3100-D17/A04	31.00	MD-170-RA	ACMT040308		29.5 29 32 220 258 200 60		
H3175-D15/W08	31.75	MD-150-RA	WOMT080308...D33	531-32-7D	31.25 30.75 32 251 286 229 60	Key14-16	M3X10 T10
H3200-D15/W08	32.00	MD-150-RA	WOMT080308...D33		31.25 30.75 32 251 286 229 60		
H3300-D16/W08	33.00	MD-160-RA	WOMT080308...D33		31.25 30.75 32 251 286 229 60		
H3320-D16/W08	33.20	MD-160-RA	WOMT080308...D33		31.25 30.75 32 251 286 229 60		
H3335-D16/W08	33.35	MD-160-RA	WOMT080308...D33	534-32-7D	31.25 30.75 32 251 286 229 60	IF32	
H3400-D16/W08	34.00	MD-160-RA	WOMT080308...D33		31.25 30.75 32 251 286 229 60		
H3493-D18/W08	34.93	MD-180-RA	WOMT080308...D33		31.25 30.75 32 251 286 229 60		
H3500-D18/W08	35.00	MD-180-RA	WOMT080308...D33		31.25 30.75 32 251 286 229 60		
H3600-D18/W08	36.00	MD-180-RA	WOMT080308...D33	534-32-7D	34.5 34 32 272 308 250 60	Key17-20	
H3653-D18/W08	36.53	MD-180-RA	WOMT080308...D33		34.5 34 32 272 308 250 60		
H3700-D16/W10	37.00	MD-160-RA	WOMT100308...D39		34.5 34 32 272 308 250 60		
H3750-D16/W10	37.50	MD-160-RA	WOMT100308...D39		34.5 34 32 272 308 250 60		
H3800-D16/W10	38.00	MD-160-RA	WOMT100308...D39	537-32-7D	37.5 37 32 295 329 270 60	Key14-16	
H3810-D16/W10	38.10	MD-160-RA	WOMT100308...D39		37.5 37 32 295 329 270 60		
H3900-D18/W10	39.00	MD-180-RA	WOMT100308...D39		37.5 37 32 295 329 270 60		
H3920-D18/W10	39.20	MD-180-RA	WOMT100308...D39		37.5 37 32 295 329 270 60		
H3970-D18/W10	39.70	MD-180-RA	WOMT100308...D39	539-50-7D	37.5 37 32 295 329 270 60	IF38	Key17-20
H4000-D18/W10	40.00	MD-180-RA	WOMT100308...D39		39.5 39 50 300 343 275 70		
H4100-D19/W10	41.00	MD-190-RA	WOMT100308...D39		39.5 39 50 300 343 275 70		
H4128-D19/W10	41.28	MD-190-RA	WOMT100308...D39		39.5 39 50 300 343 275 70		
H4200-D18/W10	42.00	MD-180-RA	WOMT120408...D42	541-50-7D	41.5 41 50 320 360 295 70	Key14-16	
H4300-D16/W12	43.00	MD-160-RA	WOMT120408...D42		41.5 41 50 320 360 295 70		
H4400-D18/W12	44.00	MD-180-RA	WOMT120408...D42		41.5 41 50 320 360 295 70		
H4445-D18/W12	44.45	MD-180-RA	WOMT120408...D42		41.5 41 50 320 360 295 70		
H4500-D18/W12	45.00	MD-180-RA	WOMT120408...D42	544-50-7D	44.5 44 50 346 390 320 70	IF42	Key17-20
H4600-D18/W12	46.00	MD-180-RA	WOMT120408...D42		44.5 44 50 346 390 320 70		
H4700-D20/W12	47.00	MD-200-RA	WOMT120408...D42		44.5 44 50 346 390 320 70		
H4763-D21/W12	47.63	MD-210-RA	WOMT120408...D42		44.5 44 50 346 390 320 70		
H4800-D21/W12	48.00	MD-210-RA	WOMT120408...D42	547-50-7D	47.5 47 50 360 400 325 70	Key17-20	
H4900-D22/W12	49.00	MD-220-RA	WOMT120408...D42		47.5 47 50 360 400 325 70		
H5000-D23/W12	50.00	MD-230-RA	WOMT120408...D42		47.5 47 50 360 400 325 70		
H5080-D24/W12	50.80	MD-240-RA	WOMT120408...D42		50.3 49.8 50 375 415 340 70		
H5100-D24/W12	51.00	MD-240-RA	WOMT120408...D42	550-50-7D	50.3 49.8 50 375 415 340 70	IF48	Key21-28
H5200-D25/W12	52.00	MD-250-RA	WOMT120408...D42		50.3 49.8 50 375 415 340 70		
H5300-D26/W12	53.00	MD-260-RA	WOMT120408...D42		50.3 49.8 50 375 415 340 70		
H5398-D27/W12	53.98	MD-270-RA	WOMT120408...D42		53.4 53 50 385 425 350 70		
H5400-D27/W12	54.00	MD-270-RA	WOMT120408...D42	553-50-7D	53.4 53 50 385 425 350 70		
H5500-D28/W12	55.00	MD-280-RA	WOMT120408...D42		53.4 53 50 385 425 350 70		

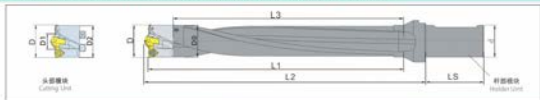
8D..Multi Tip系列分体式复合钻头 Multi Tip Line Modular Toolholders



头部模块 Cutting Unit	钻头尺寸 Drill Dia.D mm	中心刀头 Center Drill head Dia.D1	扩孔刀片x2 Side Insert x2	杆部模块 Holder Unit	尺寸 Dimensions (mm)							接口型号 Interface Code	配件 Spare Parts		
					D2	D0	d	L1	L2	L3	L5				
	H2800 D14/A04	28.00	MD-140-BA	ACMT040308	S27-32-80	27.5	27	32	245	285	225	60	IF28	M2.5X8	T9
	H2858 D15/A04	28.58	MD-150-BA	ACMT040308		27.5	27	32	245	285	225	60			
	H2900 D16/A04	29.00	MD-160-BA	ACMT040308		27.5	27	32	245	285	225	60			
	H2936 D16/A04	29.36	MD-160-BA	ACMT040308		27.5	27	32	245	285	225	60			
	H3000 D16/A04	30.00	MD-160-BA	ACMT040308	S29-32-80	29.5	29	32	250	288	230	60	Key17-20		
	H3018 D17/A04	30.18	MD-170-BA	ACMT040308		29.5	29	32	250	288	230	60			
	H3096 D17/A04	30.96	MD-170-BA	ACMT040308		29.5	29	32	250	288	230	60			
	H3100 D17/A04	31.00	MD-170-BA	ACMT040308		29.5	29	32	250	288	230	60			
	H3175 D15/W08	31.75	MD-150-BA	WOMT080308...D33	S31-32-80	31.25	30.75	32	279	314	257	60	Key14-16	M3X10	T10
	H3200 D15/W08	32.00	MD-150-BA	WOMT080308...D33		31.25	30.75	32	279	314	257	60			
	H3300 D16/W08	33.00	MD-160-BA	WOMT080308...D33		31.25	30.75	32	279	314	257	60			
	H3320 D16/W08	33.20	MD-160-BA	WOMT080308...D33		31.25	30.75	32	279	314	257	60			
	H3335 D16/W08	33.35	MD-160-BA	WOMT080308...D33	S34-32-80	31.25	30.75	32	279	314	257	60	IF32		
	H3400 D16/W08	34.00	MD-160-BA	WOMT080308...D33		31.25	30.75	32	279	314	257	60			
	H3495 D18/W08	34.93	MD-180-BA	WOMT080308...D33		31.25	30.75	32	279	314	257	60			
	H3500 D18/W08	35.00	MD-180-BA	WOMT080308...D33		34.5	34	32	312	348	290	60			
	H3600 D18/W08	36.00	MD-180-BA	WOMT080308...D33	S34-32-80	34.5	34	32	312	348	290	60	Key17-20		
	H3653 D19/W08	36.53	MD-190-BA	WOMT080308...D33		34.5	34	32	312	348	290	60			
	H3700 D16/W10	37.00	MD-160-BA	WOMT100308...D39		34.5	34	32	312	348	290	60			
	H3750 D16/W10	37.50	MD-160-BA	WOMT100308...D39		34.5	34	32	312	348	290	60			
	H3800 D16/W10	38.00	MD-160-BA	WOMT100308...D39	S37-32-80	37.5	37	32	335	366	310	60	Key14-16		
	H3810 D16/W10	38.10	MD-160-BA	WOMT100308...D39		37.5	37	32	335	366	310	60			
	H3900 D18/W10	39.00	MD-180-BA	WOMT100308...D39		37.5	37	32	335	366	310	60			
	H3920 D18/W10	39.20	MD-180-BA	WOMT100308...D39		37.5	37	32	335	366	310	60			
	H3970 D18/W10	39.70	MD-180-BA	WOMT100308...D39	S39-50-80	37.5	37	32	335	366	310	60	IF38	Key17-20	
	H4000 D18/W10	40.00	MD-180-BA	WOMT100308...D39		39.5	39	50	345	395	320	70			
	H4100 D19/W10	41.00	MD-190-BA	WOMT100308...D39		39.5	39	50	345	395	320	70			
	H4128 D19/W10	41.28	MD-190-BA	WOMT100308...D39		39.5	39	50	345	395	320	70			
	H4200 D19/W10	42.00	MD-190-BA	WOMT120408...D42	S41-50-80	41.5	41	50	365	405	340	70	Key14-16		
	H4300 D16/W12	43.00	MD-160-BA	WOMT120408...D42		41.5	41	50	365	405	340	70			
	H4400 D18/W12	44.00	MD-180-BA	WOMT120408...D42		41.5	41	50	365	405	340	70			
	H4445 D18/W12	44.45	MD-180-BA	WOMT120408...D42		41.5	41	50	365	405	340	70			
	H4500 D18/W12	45.00	MD-180-BA	WOMT120408...D42	S44-50-80	44.5	44	50	390	435	364	70	IF42	Key17-20	
	H4600 D19/W12	46.00	MD-190-BA	WOMT120408...D42		44.5	44	50	390	435	364	70			
	H4700 D20/W12	47.00	MD-200-BA	WOMT120408...D42		44.5	44	50	390	435	364	70			
	H4763 D21/W12	47.63	MD-210-BA	WOMT120408...D42		44.5	44	50	390	435	364	70			
	H4800 D21/W12	48.00	MD-210-BA	WOMT120408...D42	S47-50-80	47.5	47	50	410	450	375	70	Key17-20		
	H4900 D22/W12	49.00	MD-220-BA	WOMT120408...D42		47.5	47	50	410	450	375	70			
	H5000 D23/W12	50.00	MD-230-BA	WOMT120408...D42		47.5	47	50	410	450	375	70			
	H5080 D24/W12	50.80	MD-240-BA	WOMT120408...D42		50.3	49.8	50	425	465	390	70			
	H5100 D24/W12	51.00	MD-240-BA	WOMT120408...D42	S50-50-80	50.3	49.8	50	425	465	390	70	IF48	Key21-28	
	H5200 D25/W12	52.00	MD-250-BA	WOMT120408...D42		50.3	49.8	50	425	465	390	70			
	H5300 D26/W12	53.00	MD-260-BA	WOMT120408...D42		50.3	49.8	50	425	465	390	70			
	H5396 D27/W12	53.96	MD-270-BA	WOMT120408...D42		53.4	53	50	440	480	405	70			
	H5400 D27/W12	54.00	MD-270-BA	WOMT120408...D42	S53-50-80	53.4	53	50	440	480	405	70	Key17-20		
	H5500 D28/W12	55.00	MD-280-BA	WOMT120408...D42		53.4	53	50	440	480	405	70			

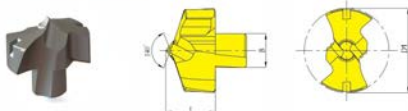


10D..Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



头部模块 Cutting Unit	钻头尺寸 Drill Dia.D mm	中心刀头 Center Drill head Dia.D1	扩孔刀片x2 Side Insert x2	杆部模块 Holder Unit	尺寸 Dimensions (mm) D2 D0 d L1 L2 L3 L5	接口型号 Interface Code	配件 Spare Parts
H2800-D14/A04	28.00	MD-140-RA	ACMT040308	527-32-100	27.5 27 32 300 340 280 60	IF28	M2.5X8 T9
H2858-D15/A04	28.58	MD-150-RA	ACMT040308		27.5 27 32 300 340 280 60		
H2900-D16/A04	29.00	MD-160-RA	ACMT040308		27.5 27 32 300 340 280 60		
H2936-D16/A04	29.36	MD-160-RA	ACMT040308		27.5 27 32 300 340 280 60		
H3000-D16/A04	30.00	MD-160-RA	ACMT040308	529-33-100	29.5 29 32 310 348 290 60	Key17-20	
H3018-D17/A04	30.18	MD-170-RA	ACMT040308		29.5 29 32 310 348 290 60		
H3096-D17/A04	30.96	MD-170-RA	ACMT040308		29.5 29 32 310 348 290 60		
H3100-D17/A04	31.00	MD-170-RA	ACMT040308		29.5 29 32 310 348 290 60		
H3175-D15/W08	31.75	MD-150-RA	WOMT080308-D33	531-33-100	31.25 30.75 32 349 384 327 60	Key14-16	M3X10 T10
H3200-D15/W08	32.00	MD-150-RA	WOMT080308-D33		31.25 30.75 32 349 384 327 60		
H3300-D16/W08	33.00	MD-160-RA	WOMT080308-D33		31.25 30.75 32 349 384 327 60		
H3320-D16/W08	33.20	MD-160-RA	WOMT080308-D33		31.25 30.75 32 349 384 327 60		
H3335-D16/W08	33.35	MD-160-RA	WOMT080308-D33	534-32-100	31.25 30.75 32 349 384 327 60	IF32	
H3400-D16/W08	34.00	MD-160-RA	WOMT080308-D33		31.25 30.75 32 349 384 327 60		
H3495-D16/W08	34.93	MD-160-RA	WOMT080308-D33		31.25 30.75 32 349 384 327 60		
H3500-D18/W08	35.00	MD-180-RA	WOMT080308-D33		34.5 34 32 382 418 360 60		
H3600-D18/W08	36.00	MD-180-RA	WOMT080308-D33	534-32-100	34.5 34 32 382 418 360 60	Key17-20	
H3653-D19/W08	36.53	MD-190-RA	WOMT080308-D33		34.5 34 32 382 418 360 60		
H3700-D16/W10	37.00	MD-160-RA	WOMT100308-D39		34.5 34 32 382 418 360 60		
H3750-D16/W10	37.50	MD-160-RA	WOMT100308-D39		34.5 34 32 382 418 360 60		
H3800-D16/W10	38.00	MD-160-RA	WOMT100308-D39	537-32-100	37.5 37 32 412 443 387 60	Key14-16	
H3810-D16/W10	38.10	MD-160-RA	WOMT100308-D39		37.5 37 32 412 443 387 60		
H3900-D18/W10	39.00	MD-180-RA	WOMT100308-D39		37.5 37 32 412 443 387 60		
H3920-D18/W10	39.20	MD-180-RA	WOMT100308-D39		37.5 37 32 412 443 387 60		
H3970-D18/W10	39.70	MD-180-RA	WOMT100308-D39	539-30-100	37.5 37 32 412 443 387 60	IF38	Key17-20
H4000-D18/W10	40.00	MD-180-RA	WOMT100308-D39		39.5 39 50 425 480 400 70		
H4100-D19/W10	41.00	MD-190-RA	WOMT100308-D39		39.5 39 50 425 480 400 70		
H4128-D19/W10	41.28	MD-190-RA	WOMT100308-D39		39.5 39 50 425 480 400 70		
H4200-D19/W10	42.00	MD-190-RA	WOMT120408-D42	541-50-100	41.5 41 50 455 500 430 70	Key14-16	M4X12 T15
H4300-D16/W12	43.00	MD-160-RA	WOMT120408-D42		41.5 41 50 455 500 430 70		
H4400-D18/W12	44.00	MD-180-RA	WOMT120408-D42		41.5 41 50 455 500 430 70		
H4445-D18/W12	44.45	MD-180-RA	WOMT120408-D42		41.5 41 50 455 500 430 70		
H4500-D18/W12	45.00	MD-180-RA	WOMT120408-D42	544-50-100	44.5 44 50 485 530 459 70	IF42	Key17-20
H4600-D19/W12	46.00	MD-190-RA	WOMT120408-D42		44.5 44 50 485 530 459 70		
H4700-D20/W12	47.00	MD-200-RA	WOMT120408-D42		44.5 44 50 485 530 459 70		
H4763-D21/W12	47.63	MD-210-RA	WOMT120408-D42		44.5 44 50 485 530 459 70		
H4800-D21/W12	48.00	MD-210-RA	WOMT120408-D42	547-50-100	47.5 47 50 510 550 475 70	IF48	Key21-28
H4900-D22/W12	49.00	MD-220-RA	WOMT120408-D42		47.5 47 50 510 550 475 70		
H5000-D23/W12	50.00	MD-230-RA	WOMT120408-D42		47.5 47 50 510 550 475 70		
H5080-D24/W12	50.80	MD-240-RA	WOMT120408-D42		50.3 49.8 50 530 570 495 70		
H5100-D24/W12	51.00	MD-240-RA	WOMT120408-D42	550-50-100	50.3 49.8 50 530 570 495 70		
H5200-D25/W12	52.00	MD-250-RA	WOMT120408-D42		50.3 49.8 50 530 570 495 70		
H5300-D26/W12	53.00	MD-260-RA	WOMT120408-D42		50.3 49.8 50 530 570 495 70		
H5398-D27/W12	53.98	MD-270-RA	WOMT120408-D42		53.4 53 50 550 590 515 70		
H5400-D27/W12	54.00	MD-270-RA	WOMT120408-D42	553-50-100	53.4 53 50 550 590 515 70		
H5500-D28/W12	55.00	MD-280-RA	WOMT120408-D42		53.4 53 50 550 590 515 70		

MD...RA 中心刀头 Center Drill head



订货号 Order No.	尺寸 Dimension(mm)		
	D1	B	t
MD-140-RA	14	6	8.1
MD-150-RA	15	6	8.7
MD-160-RA	16	6	8.8
MD-170-RA	17	6	9.9
MD-180-RA	18	8	10.5
MD-190-RA	19	8	11.0
MD-200-RA	20	8	11.6
MD-210-RA	21	8	12.1
MD-220-RA	22	10	12.7
MD-230-RA	23	10	13.3
MD-240-RA	24	12	13.9
MD-250-RA	25	12	14.5
MD-260-RA	26	12	14.5
MD-270-RA	27	12	15.5
MD-280-RA	28	12	15.5
MD-290-RA	29	14	15.5
MD-300-RA	30	14	15.5
MD-310-RA	31	14	15.5
MD-320-RA	32	14	16.5
MD-330-RA	33	14	16.5
MD-340-RA	34	14	16.5

WOMT...W...扩孔刀片 Side Inserts



订货号 Order No.	尺寸 Dimension(mm)			
	D	D1	R	S
WOMT060308-WS-D33	8	3.4	0.8	3.75
WOMT100308-WS-D39	10	4.4	0.8	3.75
WOMT120408-WS-D42	12	4.4	0.8	4.75
WOMT150508-WS-D55	15	5.5	0.8	5.25



WOMT...W...扩孔刀片 Side Inserts

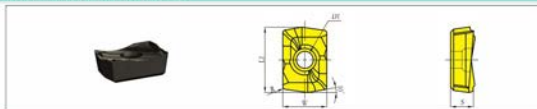
订货号 Order No.	尺寸 Dimensions(mm)			
	D	D1	R	S
WOMT080308-W6-D33	8	3.4	0.8	3.75
WOMT100308-W6-D39	10	4.4	0.8	3.75
WOMT120408-W6-D42	12	4.4	0.8	4.75
WOMT150508-W6-D55	15	5.5	0.8	5.25

WOMT...V...扩孔刀片 Side Inserts



订货号 Order No.	尺寸 Dimensions(mm)			
	D	D1	R	S
WOMT080308-V1-D33	8	3.4	0.8	3.75
WOMT100308-V1-D39	10	4.4	0.8	3.75
WOMT120408-V1-D42	12	4.4	0.8	4.75
WOMT150508-V1-D55	15	5.5	0.8	5.25
WOMT080308-V2-D33	8	3.4	0.8	3.75
WOMT100308-V2-D39	10	4.4	0.8	3.75
WOMT120408-V2-D42	12	4.4	0.8	4.75
WOMT150508-V2-D55	15	5.5	0.8	5.25

AOMT...扩孔刀片 Side Inserts

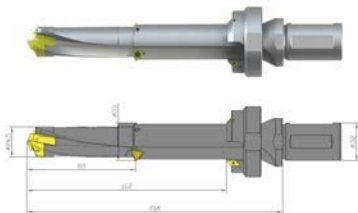


订货号 Order No.	尺寸 Dimensions(mm)				
	W	L1	D1	R	S
AOMT040308	7.26	10.76	2.85	0.4	3.79

非标定制复合阶梯钻孔刀具 Special Multi-insert Step Drill Toolholders with Coolant



非标定制复合阶梯钻孔刀具 Special Multi-Insert Step Drill Toolholders with Coolant



*可根据用户提供图纸专门设计制造复合钻孔刀具
we can design and make special multi-insert drill tools according to client's drawings



Multi Tip系列推荐的切削参数 Technical Information

材料分组 materials		条件 heat treatment	切削速度 - VC 范围 - m/min			公制 Metric System			
						根据直径推荐进给率 (F mm/s)			
			最小值min	初始值init	最大值max	28.00-31.74 mm	31.75-35.99 mm	36.00-44.99 mm	45.00-55.00 mm
P	2	S	90	190	230	0.160-0.280	0.160-0.280	0.200-0.360	0.200-0.400
		U	71	130	170	0.160-0.280	0.160-0.280	0.200-0.360	0.200-0.400
		I	50	80	110	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
	3	S	90	180	230	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
		U	70	120	170	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
		I	50	70	106	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
	4	S	90	140	220	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
		U	70	110	160	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
		I	50	80	110	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
	5	S	90	130	210	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
		U	70	100	150	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
		I	50	70	100	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400
6	S	90	90	180	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400	
	U	75	75	120	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400	
	I	60	60	100	0.160-0.280	0.160-0.280	0.200-0.320	0.200-0.400	
M	1	S	110	110	135	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
		U	70	70	90	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
		I	50	50	65	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
	2	S	100	100	135	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
		U	60	60	90	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
		I	50	50	65	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
	3	S	90	90	135	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
		U	60	60	90	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
		I	40	40	65	0.130-0.250	0.130-0.250	0.160-0.280	0.160-0.320
K	1	S	170	170	230	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
		U	120	120	160	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
		I	70	70	90	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
	2	S	160	160	220	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
		U	110	110	160	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
		I	70	70	100	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
	3	S	150	150	210	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
		U	100	100	150	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
		I	60	60	90	0.180-0.300	0.180-0.300	0.216-0.360	0.240-0.420
N	1	S	240	240	360	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		U	160	160	240	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		I	100	100	160	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
	2	S	220	220	360	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		U	150	150	240	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		I	100	100	160	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
	3	S	200	200	360	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		U	140	140	240	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		I	90	90	160	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
	4	S	220	220	260	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		U	140	140	170	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320
		I	90	90	110	0.120-0.200	0.120-0.200	0.144-0.280	0.160-0.320



成都锋宜精密工具制造有限公司

CHENGDU FENGYI PRECISION TOOLS MANUFACTURE CO.,LTD

地址：成都市成华区龙潭工业区成佳路2号

销售服务热线：028-84723613

028-84723285

028-84215372-8004

技术服务热线：028-84215372-8001

销售部企业QQ：2851383350 2851383351 2851383353

2851383354 2851383369

传真：028-84722814

邮编：610052

网址：www.fengyitool.com

E-mail: plg@fengyitool.com

ADD: Longtan Industry Zone, Chenghua District, Chengdu, Sichuan Province, China.

Tel:

+862884215371

+862884723613

+862884723285

Fax:

+862884722814

P.C. 610052

web: www.fengyitool.com

E-mail: plg@fengyitool.com

阿里巴巴中国站

Alibaba Chinese Website

<http://fengyitool.1688.com/>



官方微信



官方微博