



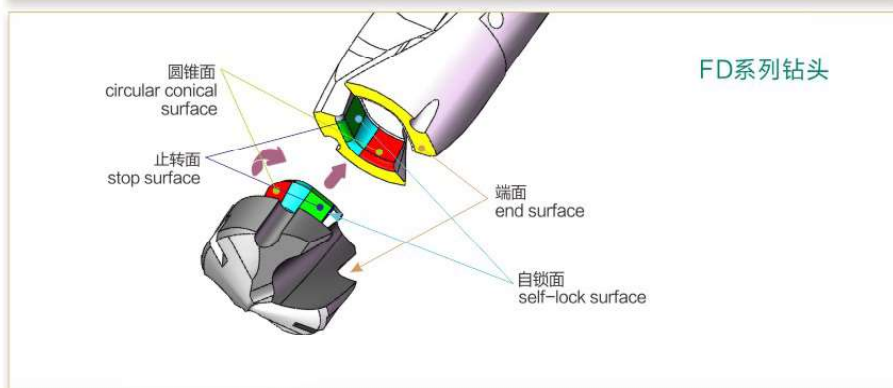
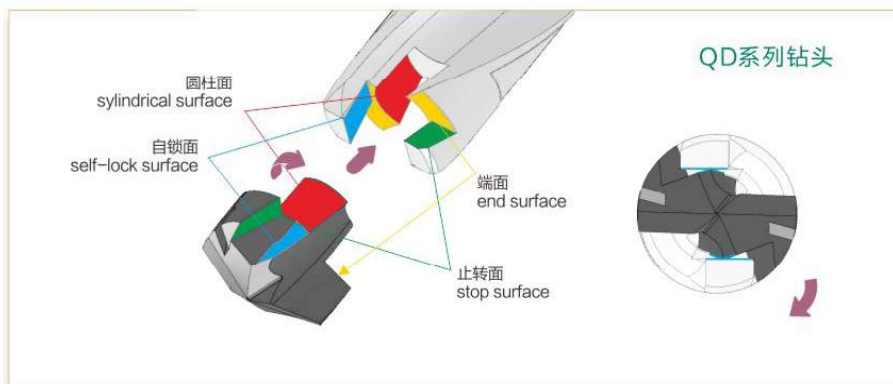
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创新的自锁式装卸方式 Innovation Self-Lock Connecting System



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



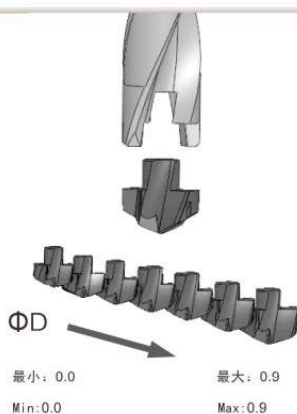
带内冷却水孔的刀体 Toolholders with Coolant

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

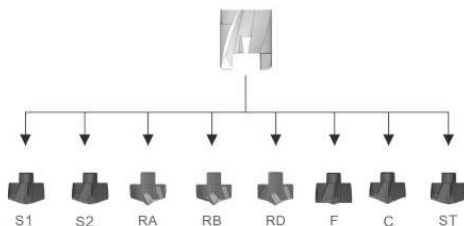




多种钻尖可供选择 Different Drilling Edges are Available

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 Resharpener 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 resharpener 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 tool presetter



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)

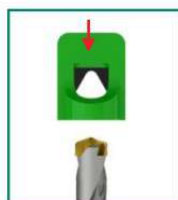
Put a cutting head into drill holder. (Use gloves to protect your hand from any danger)



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

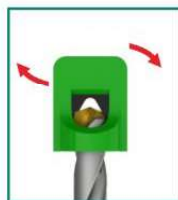
Set the wrench properly



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



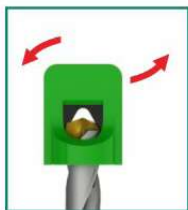
2

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

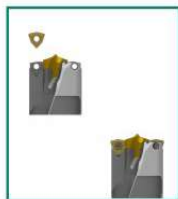
 扳手槽
Slot For Wrench



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



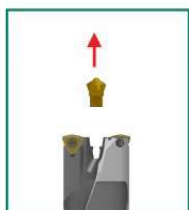
3

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）

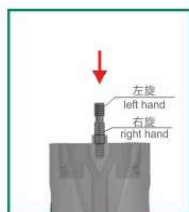
Once self-lock is released, cutting head can be turned by fingers and remove cutting head (Use gloves to protect your hand from any danger)



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。

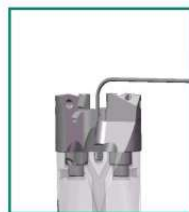
Screw the right hand thread into the screw hole of the holder unit three circles, let the length of left hand thread approximately be equal to the length of right hand thread.



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.

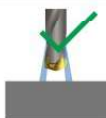
强烈建议：刀体使用一段时间之后，要经常检查三个螺丝钉是否松动，有松动的情况，必须再次拧紧后使用。

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



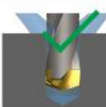
冷却 Coolant

1



强烈推荐使用带
内冷却的机床
Strongly recommend
to use inner coolant

2

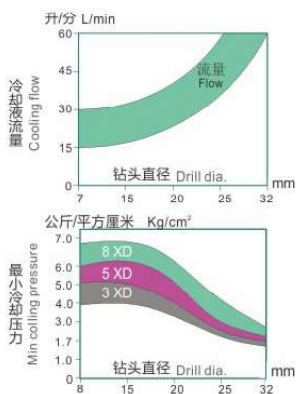


在外冷却的情况下，
建议钻削不大于3D的孔。
If only outer coolant,
just drill holes for less
than 3D

3

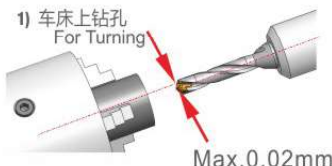


严禁用于干切削
Strictly prohibited for
dry drilling



应用警示 Usage Precautions core deviation

1) 车床上钻孔
For Turning



Max.0.02mm

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

2) 铣床或钻床钻孔
For Drilling



Max.0.02mm

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

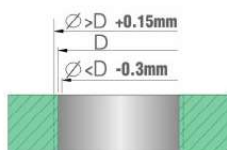


a) 磨损极限
Wear Limit



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

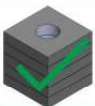


d) 光洁度急剧变差
Surface Finish Deterioration



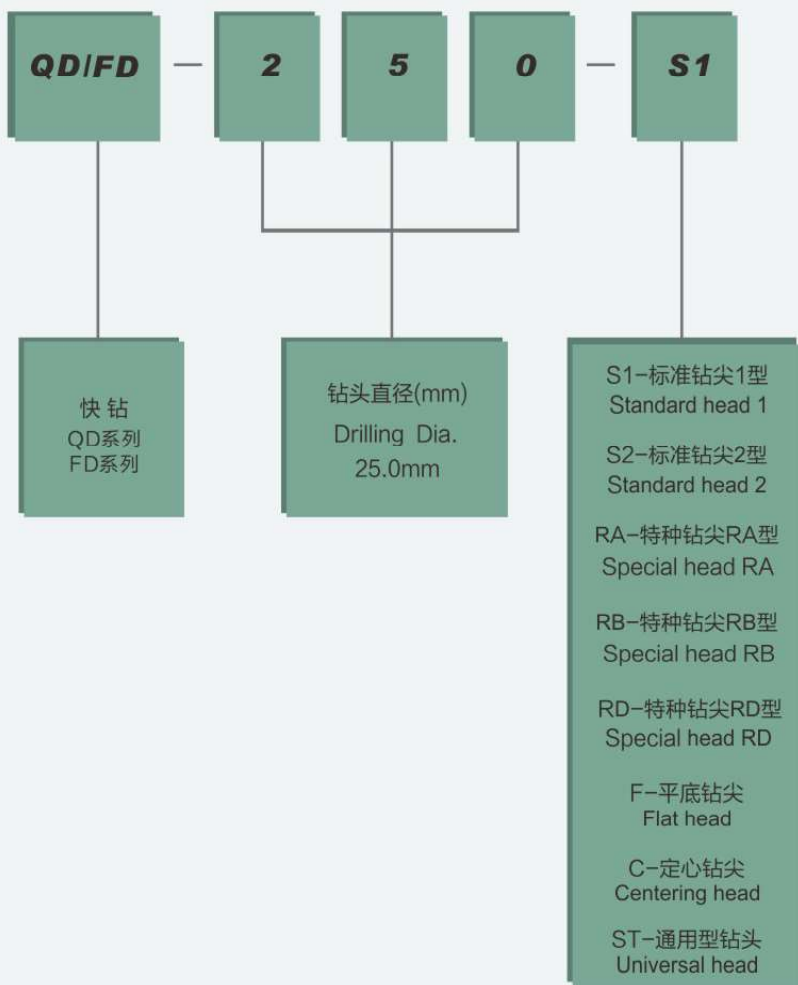
e) 振动噪音急剧上升
Vibration Noise
Drastically Increases

应用 Application

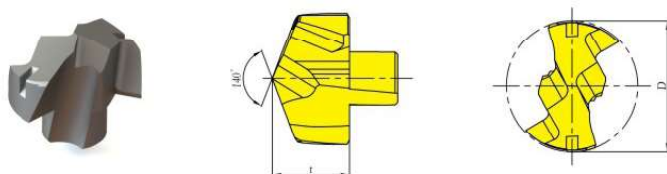
推荐应用 Application Recommendation	工件形状 Workpiece Shape	不推荐应用 Application Not Recommendation	工件形状 Workpiece Shape
平面孔 推荐 Flat Face Recommended		重叠孔 禁用 Hole Expansion Not Recommended	
叠板孔 重叠加固可用 Stacked Plates Recommended (absolutely don't move between plates)		斜面孔 禁用 Slanted Surface Not Recommended	
曲面孔 减少进给量一半可用 Concave Surface Recommended (reduce a half of feed rate as normal)		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	t	
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	

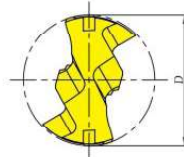
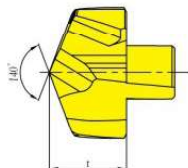
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-110-S1	11.0	6.6	QD110/119-16...D...
QD-111-S1	11.1	6.6	
QD-112-S1	11.2	6.6	
QD-113-S1	11.3	6.6	
QD-114-S1	11.4	6.6	
QD-115-S1	11.5	6.6	
QD-116-S1	11.6	6.6	
QD-117-S1	11.7	6.6	
QD-118-S1	11.8	6.6	
QD-119-S1	11.9	6.6	
QD-120-S1	12.0	7.0	QD120/129-16...D...
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钻尖适用于中高碳钢、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



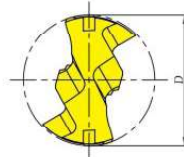
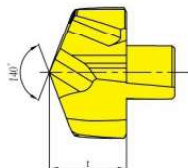
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-140-S1	14.0	8.1	QD140/149-16...D-..
QD-141-S1	14.1	8.1	
QD-142-S1	14.2	8.1	
QD-143-S1	14.3	8.1	
QD-144-S1	14.4	8.1	
QD-145-S1	14.5	8.1	
QD-146-S1	14.6	8.1	
QD-147-S1	14.7	8.1	
QD-148-S1	14.8	8.1	
QD-149-S1	14.9	8.1	
QD-150-S1	15.0	8.7	QD150/159-20...D-..
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	t	
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钻尖适用于中高碳钢、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	t	
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	

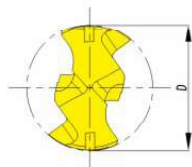
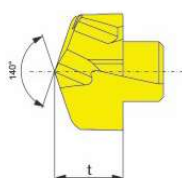
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-230-S1	23.0	13.3	QD230/239-32...D...
QD-231-S1	23.1	13.3	
QD-232-S1	23.2	13.3	
QD-233-S1	23.3	13.3	
QD-234-S1	23.4	13.3	
QD-235-S1	23.5	13.3	
QD-236-S1	23.6	13.3	
QD-237-S1	23.7	13.3	
QD-238-S1	23.8	13.3	
QD-239-S1	23.9	13.3	
QD-240-S1	24.0	13.9	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钻尖适用于中高碳钢、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



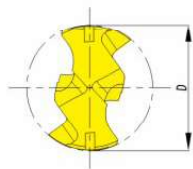
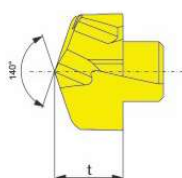
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-080-S2	8.0	5.4	QD080/089-12...D...
QD-081-S2	8.1	5.4	
QD-082-S2	8.2	5.4	
QD-083-S2	8.3	5.4	
QD-084-S2	8.4	5.4	
QD-085-S2	8.5	5.4	
QD-086-S2	8.6	5.4	
QD-087-S2	8.7	5.4	
QD-088-S2	8.8	5.4	
QD-089-S2	8.9	5.4	
QD-090-S2	9.0	5.8	QD090/099-12...D...
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	t	
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	t	
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	

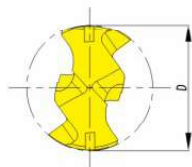
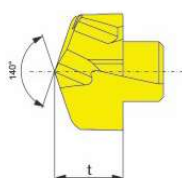
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-170-S2	17.0	9.9	QD170/179-20...D...
QD-171-S2	17.1	9.9	
QD-172-S2	17.2	9.9	
QD-173-S2	17.3	9.9	
QD-174-S2	17.4	9.9	
QD-175-S2	17.5	9.9	
QD-176-S2	17.6	9.9	
QD-177-S2	17.7	9.9	
QD-178-S2	17.8	9.9	
QD-179-S2	17.9	9.9	
QD-180-S2	18.0	10.5	QD180/189-25...D...
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



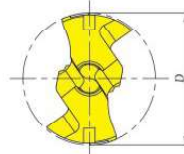
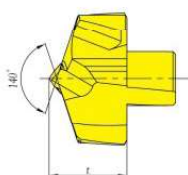
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-200-S2	20.0	11.6	QD200/209-25...D...
QD-201-S2	20.1	11.6	
QD-202-S2	20.2	11.6	
QD-203-S2	20.3	11.6	
QD-204-S2	20.4	11.6	
QD-205-S2	20.5	11.6	
QD-206-S2	20.6	11.6	
QD-207-S2	20.7	11.6	
QD-208-S2	20.8	11.6	
QD-209-S2	20.9	11.6	
QD-210-S2	21.0	12.1	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	t	
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	t	
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	

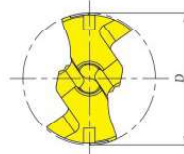
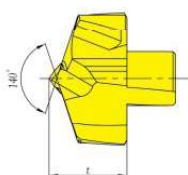
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-110-RA	11.0	6.6	QD110/119-16...D...
QD-111-RA	11.1	6.6	
QD-112-RA	11.2	6.6	
QD-113-RA	11.3	6.6	
QD-114-RA	11.4	6.6	
QD-115-RA	11.5	6.6	
QD-116-RA	11.6	6.6	
QD-117-RA	11.7	6.6	
QD-118-RA	11.8	6.6	
QD-119-RA	11.9	6.6	
QD-120-RA	12.0	7.0	QD120/129-16...D...
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，5D以上钻孔更具优势，尖适用于中高碳钢，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 5D)



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



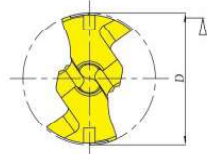
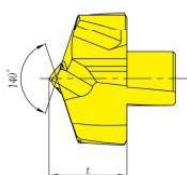
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-140-RA	14.0	8.1	QD140/149-20...D...
QD-141-RA	14.1	8.1	
QD-142-RA	14.2	8.1	
QD-143-RA	14.3	8.1	
QD-144-RA	14.4	8.1	
QD-145-RA	14.5	8.1	
QD-146-RA	14.6	8.1	
QD-147-RA	14.7	8.1	
QD-148-RA	14.8	8.1	
QD-149-RA	14.9	8.1	
QD-150-RA	15.0	8.7	QD150/159-20...D...
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	t	
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，5D以上钻孔更具优势，尖适用于中高碳钢，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 , ally steel etc. (especially for more than 5D)

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	t	
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	

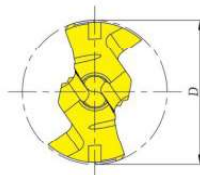
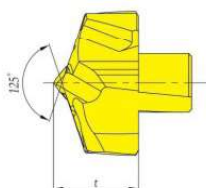
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-230-RA	23.0	13.3	QD230/239-32...D...
QD-231-RA	23.1	13.3	
QD-232-RA	23.2	13.3	
QD-233-RA	23.3	13.3	
QD-234-RA	23.4	13.3	
QD-235-RA	23.5	13.3	
QD-236-RA	23.6	13.3	
QD-237-RA	23.7	13.3	
QD-238-RA	23.8	13.3	
QD-239-RA	23.9	13.3	
QD-240-RA	24.0	13.9	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，5D以上钻孔更具优势，尖适用于中高碳钢、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 5D)



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



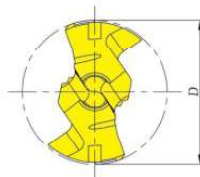
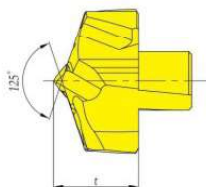
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-080-RD	8.0	5.4	QD080/089-12...D...
QD-081-RD	8.1	5.4	
QD-082-RD	8.2	5.4	
QD-083-RD	8.3	5.4	
QD-084-RD	8.4	5.4	
QD-085-RD	8.5	5.4	
QD-086-RD	8.6	5.4	
QD-087-RD	8.7	5.4	
QD-088-RD	8.8	5.4	
QD-089-RD	8.9	5.4	
QD-090-RD	9.0	5.8	QD090/099-12...D...
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	t	
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	t	
QD-140-RD	14.0	8.1	QD140/149-20...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	

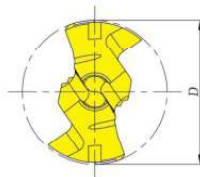
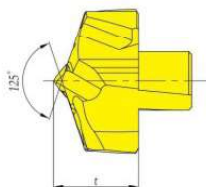
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-170-RD	17.0	9.9	QD170/179-20...D...
QD-171-RD	17.1	9.9	
QD-172-RD	17.2	9.9	
QD-173-RD	17.3	9.9	
QD-174-RD	17.4	9.9	
QD-175-RD	17.5	9.9	
QD-176-RD	17.6	9.9	
QD-177-RD	17.7	9.9	
QD-178-RD	17.8	9.9	
QD-179-RD	17.9	9.9	
QD-180-RD	18.0	10.5	QD180/189-25...D...
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



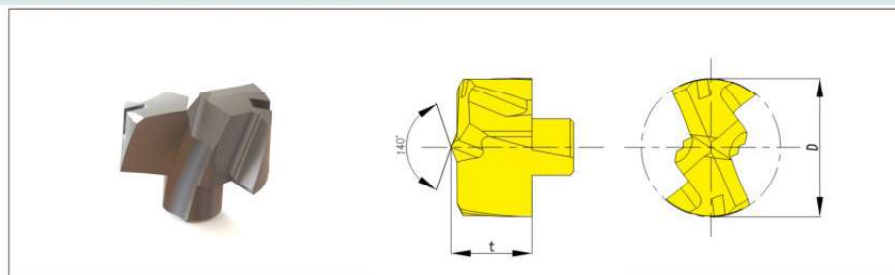
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-200-RD	20.0	11.6	QD200/209-25...D...
QD-201-RD	20.1	11.6	
QD-202-RD	20.2	11.6	
QD-203-RD	20.3	11.6	
QD-204-RD	20.4	11.6	
QD-205-RD	20.5	11.6	
QD-206-RD	20.6	11.6	
QD-207-RD	20.7	11.6	
QD-208-RD	20.8	11.6	
QD-209-RD	20.9	11.6	
QD-210-RD	21.0	12.1	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	t	
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 平底刀头 Flat Cutting Drilling Head



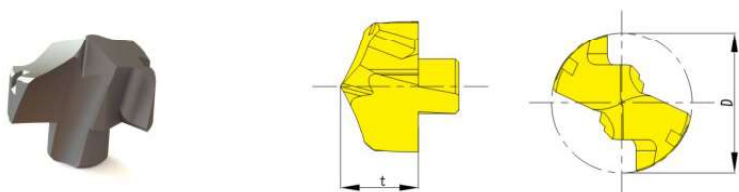
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-080-F	8.0	4.0	QD080-089-12-.D-.
QD-085-F	8.5	4.0	
QD-090-F	9.0	4.2	
QD-095-F	9.5	4.2	
QD-100-F	10.0	4.4	QD100-109-16-.D-.
QD-105-F	10.5	4.4	
QD-110-F	11.0	4.5	
QD-115-F	11.5	4.5	
QD-120-F	12.0	4.8	QD120-129-16-.D-.
QD-125-F	12.5	4.8	
QD-130-F	13.0	5.1	
QD-135-F	13.5	5.1	
QD-140-F	14.0	5.5	QD140-149-16-.D-.
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-.
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-.
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-.
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-.
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-.
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	QD250 260 32 .D-.

注：F平底钻尖：具有需要德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

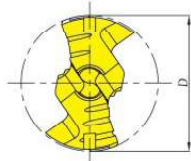
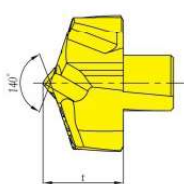


订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-080-C	8.0	5.4	QD080-089-12..D..
QD-085-C	8.5	5.4	
QD-090-C	9.0	5.8	
QD-095-C	9.5	5.8	
QD-100-C	10.0	6.2	QD100-109-16..D..
QD-105-C	10.5	6.2	
QD-110-C	11.0	6.6	
QD-115-C	11.5	6.6	
QD-120-C	12.0	7.0	QD120-129-16..D..
QD-125-C	12.5	7.0	
QD-130-C	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	QD220-229-25..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

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	t	
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	

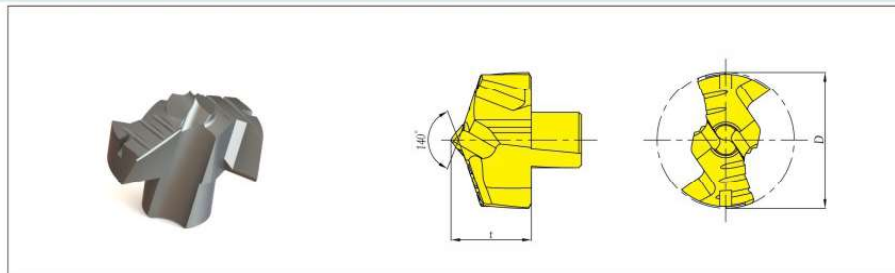
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-110-RB	11.0	6.6	QD110/119-16...D...
QD-111-RB	11.1	6.6	
QD-112-RB	11.2	6.6	
QD-113-RB	11.3	6.6	
QD-114-RB	11.4	6.6	
QD-115-RB	11.5	6.6	
QD-116-RB	11.6	6.6	
QD-117-RB	11.7	6.6	
QD-118-RB	11.8	6.6	
QD-119-RB	11.9	6.6	
QD-120-RB	12.0	7.0	QD120/129-16...D...
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



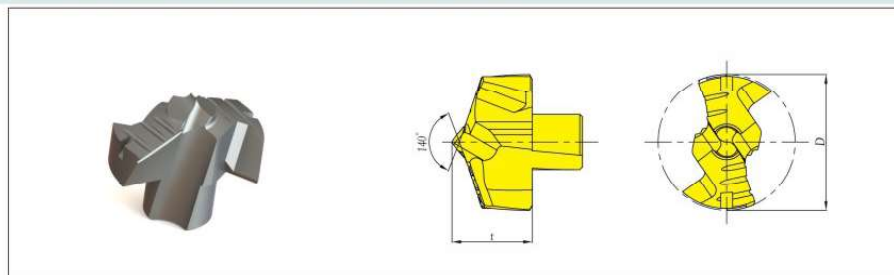
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-140-RB	14.0	8.1	QD140/149-20...D...
QD-141-RB	14.1	8.1	
QD-142-RB	14.2	8.1	
QD-143-RB	14.3	8.1	
QD-144-RB	14.4	8.1	
QD-145-RB	14.5	8.1	
QD-146-RB	14.6	8.1	
QD-147-RB	14.7	8.1	
QD-148-RB	14.8	8.1	
QD-149-RB	14.9	8.1	
QD-150-RB	15.0	8.7	QD150/159-20...D...
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	t	
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	t	
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	QD210/219-25...D...
QD-210-RB	21.0	12.1	
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	QD220/229-25...D...
QD-218-RB	21.8	12.1	
QD-219-RB	21.9	12.1	
QD-220-RB	22.0	12.7	
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	

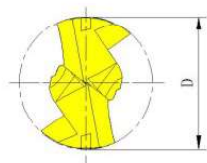
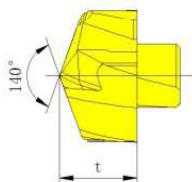
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-230-RB	23.0	13.3	QD230/239-32...D...
QD-231-RB	23.1	13.3	
QD-232-RB	23.2	13.3	
QD-233-RB	23.3	13.3	
QD-234-RB	23.4	13.3	
QD-235-RB	23.5	13.3	
QD-236-RB	23.6	13.3	
QD-237-RB	23.7	13.3	
QD-238-RB	23.8	13.3	
QD-239-RB	23.9	13.3	QD240/249-32...D...
QD-240-RB	24.0	13.9	
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	QD250/260-32...D...
QD-248-RB	24.8	13.9	
QD-249-RB	24.9	13.9	
QD-250-RB	25.0	14.5	
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：RB钻尖具有定心、分屑和卷屑功能，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 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...ST 通用型钻尖ST型 Special Drilling Head ST



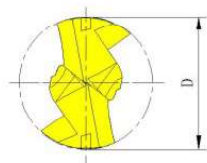
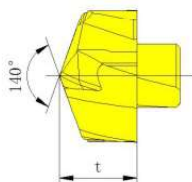
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-080-ST	8.0	5.4	QD080/089-12-D-CST
QD-081-ST	8.1	5.4	
QD-082-ST	8.2	5.4	
QD-083-ST	8.3	5.4	
QD-084-ST	8.4	5.4	
QD-085-ST	8.5	5.4	
QD-086-ST	8.6	5.4	
QD-087-ST	8.7	5.4	
QD-088-ST	8.8	5.4	
QD-089-ST	8.9	5.4	
QD-090-ST	9.0	5.8	QD090/099-12-D-CST
QD-091-ST	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.

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	

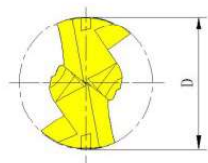
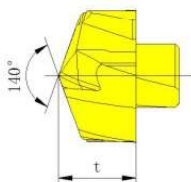
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-170-ST	17.0	9.9	QD170/179-20...D-CST
QD-171-ST	17.1	9.9	
QD-172-ST	17.2	9.9	
QD-173-ST	17.3	9.9	
QD-174-ST	17.4	9.9	
QD-175-ST	17.5	9.9	
QD-176-ST	17.6	9.9	
QD-177-ST	17.7	9.9	
QD-178-ST	17.8	9.9	
QD-179-ST	17.9	9.9	
QD-180-ST	18.0	10.5	QD180/189-25...D-CST
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	

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



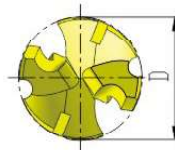
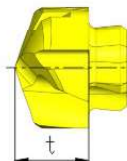
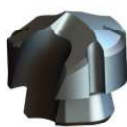
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD-200-ST	20.0	11.6	QD200/209-25...D-CST
QD-201-ST	20.1	11.6	
QD-202-ST	20.2	11.6	
QD-203-ST	20.3	11.6	
QD-204-ST	20.4	11.6	
QD-205-ST	20.5	11.6	
QD-206-ST	20.6	11.6	
QD-207-ST	20.7	11.6	
QD-208-ST	20.8	11.6	
QD-209-ST	20.9	11.6	
QD-210-ST	21.0	12.1	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	
FD-090-S1	9.0	5.8	FD090/099-12...D-..
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	
FD-099-S1	9.9	5.8	
FD-100-S1	10.0	6.2	FD100/109-16...D-..
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	
FD-108-S1	10.8	6.2	
FD-109-S1	10.9	6.2	

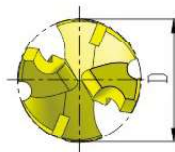
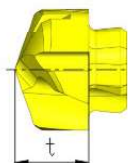
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-S1	11.0	6.6	FD110/119-16...D-..
FD-111-S1	11.1	6.6	
FD-112-S1	11.2	6.6	
FD-113-S1	11.3	6.6	
FD-114-S1	11.4	6.6	
FD-115-S1	11.5	6.6	
FD-116-S1	11.6	6.6	
FD-117-S1	11.7	6.6	
FD-118-S1	11.8	6.6	
FD-119-S1	11.9	6.6	
FD-120-S1	12.0	7.0	FD120/129-16...D-..
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	
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	FD130/139-16...D-..
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	
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钻尖适用于中高碳钢、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



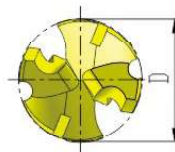
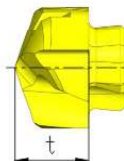
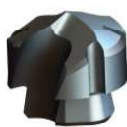
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-S1	14.0	8.1	FD140/149-16...D-..
FD-141-S1	14.1	8.1	
FD-142-S1	14.2	8.1	
FD-143-S1	14.3	8.1	
FD-144-S1	14.4	8.1	
FD-145-S1	14.5	8.1	
FD-146-S1	14.6	8.1	
FD-147-S1	14.7	8.1	
FD-148-S1	14.8	8.1	
FD-149-S1	14.9	8.1	
FD-150-S1	15.0	8.7	FD150/159-20...D-..
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	FD160/169-25...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钻尖适用于中高碳钢、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	

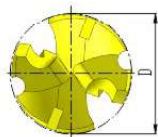
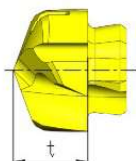
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-230-S1	23.0	13.3	FD230/239-32...D-..
FD-231-S1	23.1	13.3	
FD-232-S1	23.2	13.3	
FD-233-S1	23.3	13.3	
FD-234-S1	23.4	13.3	
FD-235-S1	23.5	13.3	
FD-236-S1	23.6	13.3	
FD-237-S1	23.7	13.3	
FD-238-S1	23.8	13.3	
FD-239-S1	23.9	13.3	
FD-240-S1	24.0	13.9	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钻尖适用于中高碳钢、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...S2 标准钻尖S2型 Standard Drilling Head S2



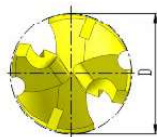
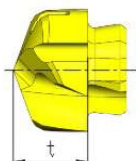
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-S2	8.0	5.4	FD080/089-12...D-..
FD-081-S2	8.1	5.4	
FD-082-S2	8.2	5.4	
FD-083-S2	8.3	5.4	
FD-084-S2	8.4	5.4	
FD-085-S2	8.5	5.4	
FD-086-S2	8.6	5.4	
FD-087-S2	8.7	5.4	
FD-088-S2	8.8	5.4	
FD-089-S2	8.9	5.4	
FD-090-S2	9.0	5.8	FD090/099-12...D-..
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	FD160/169-25...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	

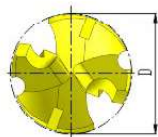
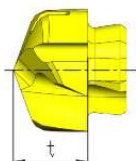
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-S2	17.0	9.9	FD170/179-20...D...
FD-171-S2	17.1	9.9	
FD-172-S2	17.2	9.9	
FD-173-S2	17.3	9.9	
FD-174-S2	17.4	9.9	
FD-175-S2	17.5	9.9	
FD-176-S2	17.6	9.9	
FD-177-S2	17.7	9.9	
FD-178-S2	17.8	9.9	
FD-179-S2	17.9	9.9	
FD-180-S2	18.0	10.5	FD180/189-25...D...
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



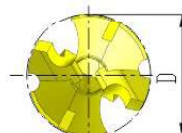
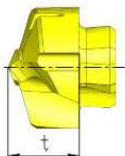
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-200-S2	20.0	11.6	FD200/209-25...D-..
FD-201-S2	20.1	11.6	
FD-202-S2	20.2	11.6	
FD-203-S2	20.3	11.6	
FD-204-S2	20.4	11.6	
FD-205-S2	20.5	11.6	
FD-206-S2	20.6	11.6	
FD-207-S2	20.7	11.6	
FD-208-S2	20.8	11.6	
FD-209-S2	20.9	11.6	
FD-210-S2	21.0	12.1	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	FD220/229-32...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	

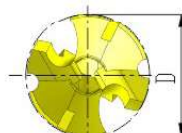
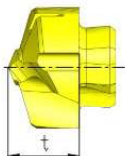
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-RA	11.0	6.6	FD110/119-16...D...
FD-111-RA	11.1	6.6	
FD-112-RA	11.2	6.6	
FD-113-RA	11.3	6.6	
FD-114-RA	11.4	6.6	
FD-115-RA	11.5	6.6	
FD-116-RA	11.6	6.6	
FD-117-RA	11.7	6.6	
FD-118-RA	11.8	6.6	
FD-119-RA	11.9	6.6	
FD-120-RA	12.0	7.0	FD120/129-16...D...
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，5D以上钻孔更具优势，尖适用于中高碳钢，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 5D)



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



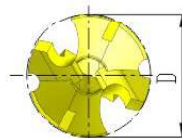
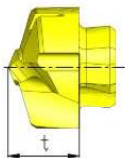
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-RA	14.0	8.1	FD140/149-16...D-..
FD-141-RA	14.1	8.1	
FD-142-RA	14.2	8.1	
FD-143-RA	14.3	8.1	
FD-144-RA	14.4	8.1	
FD-145-RA	14.5	8.1	
FD-146-RA	14.6	8.1	
FD-147-RA	14.7	8.1	
FD-148-RA	14.8	8.1	
FD-149-RA	14.9	8.1	
FD-150-RA	15.0	8.7	FD150/159-20...D-..
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，5D以上钻孔更具优势，尖适用于中高碳钢、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 , ally steel etc. (especially for more than 5D)

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-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	

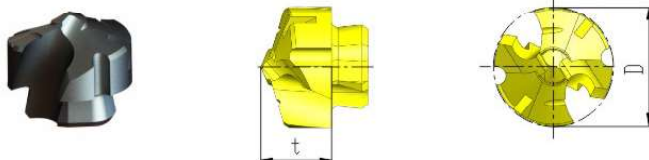
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-230-RA	23.0	13.3	FD230/239-32...D...
FD-231-RA	23.1	13.3	
FD-232-RA	23.2	13.3	
FD-233-RA	23.3	13.3	
FD-234-RA	23.4	13.3	
FD-235-RA	23.5	13.3	
FD-236-RA	23.6	13.3	
FD-237-RA	23.7	13.3	
FD-238-RA	23.8	13.3	
FD-239-RA	23.9	13.3	
FD-240-RA	24.0	13.9	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，5D以上钻孔更具优势，尖适用于中高碳钢、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 5D)



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



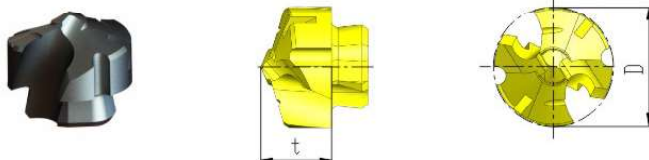
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-RD	8.0	5.4	FD080/089-12...D...
FD-081-RD	8.1	5.4	
FD-082-RD	8.2	5.4	
FD-083-RD	8.3	5.4	
FD-084-RD	8.4	5.4	
FD-085-RD	8.5	5.4	
FD-086-RD	8.6	5.4	
FD-087-RD	8.7	5.4	
FD-088-RD	8.8	5.4	
FD-089-RD	8.9	5.4	
FD-090-RD	9.0	5.8	FD090/099-12...D...
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	FD160/169-25...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	

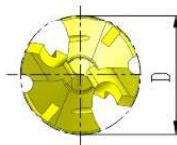
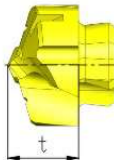
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-RD	17.0	9.9	FD170/179-20...D...
FD-171-RD	17.1	9.9	
FD-172-RD	17.2	9.9	
FD-173-RD	17.3	9.9	
FD-174-RD	17.4	9.9	
FD-175-RD	17.5	9.9	
FD-176-RD	17.6	9.9	
FD-177-RD	17.7	9.9	
FD-178-RD	17.8	9.9	
FD-179-RD	17.9	9.9	
FD-180-RD	18.0	10.5	FD180/189-25...D...
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



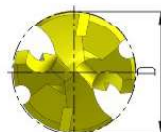
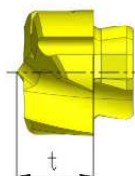
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-200-RD	20.0	11.6	FD200/209-25...D...
FD-201-RD	20.1	11.6	
FD-202-RD	20.2	11.6	
FD-203-RD	20.3	11.6	
FD-204-RD	20.4	11.6	
FD-205-RD	20.5	11.6	
FD-206-RD	20.6	11.6	
FD-207-RD	20.7	11.6	
FD-208-RD	20.8	11.6	
FD-209-RD	20.9	11.6	
FD-210-RD	21.0	12.1	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 平底刀头 Flat Cutting Drilling Head



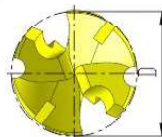
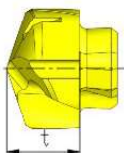
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-F	8.0	4.0	FD080-089-12-..D-..
FD-085-F	8.5	4.0	
FD-090-F	9.0	4.2	
FD-095-F	9.5	4.2	
FD-100-F	10.0	4.4	FD100-109-16-..D-..
FD-105-F	10.5	4.4	
FD-110-F	11.0	4.5	
FD-115-F	11.5	4.5	
FD-120-F	12.0	4.8	FD120-129-16-..D-..
FD-125-F	12.5	4.8	
FD-130-F	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	
FD-160-F	16.0	6.3	FD160-169-20-..D-..
FD-165-F	16.5	6.3	
FD-170-F	17.0	6.6	
FD-175-F	17.5	6.6	
FD-180-F	18.0	6.9	FD180-189-25-..D-..
FD-185-F	18.5	6.9	
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	
FD-220-F	22.0	8.9	FD220-229-25-..D-..
FD-225-F	22.5	8.9	
FD-230-F	23.0	9.3	
FD-235-F	23.5	9.3	
FD-240-F	24.0	9.7	FD240-249-32-..D-..
FD-245-F	24.5	9.7	
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：具有需要德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

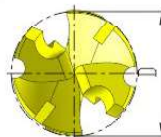
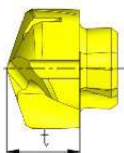


订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-C	8.0	5.4	FD080-089-12-D-
FD-085-C	8.5	5.4	
FD-090-C	9.0	5.8	
FD-095-C	9.5	5.8	
FD-100-C	10.0	6.2	FD100-109-16-D-
FD-105-C	10.5	6.2	
FD-110-C	11.0	6.6	
FD-115-C	11.5	6.6	
FD-120-C	12.0	7.0	FD120-129-16-D-
FD-125-C	12.5	7.0	
FD-130-C	13.0	7.6	
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	
FD-160-C	16.0	9.3	FD160-169-20-D-
FD-165-C	16.5	9.3	
FD-170-C	17.0	9.9	
FD-175-C	17.5	9.9	
FD-180-C	18.0	10.5	FD180-189-25-D-
FD-185-C	18.5	10.5	
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	
FD-220-C	22.0	12.8	FD220-229-25-D-
FD-225-C	22.5	12.8	
FD-230-C	23.0	13.3	
FD-235-C	23.5	13.3	
FD-240-C	24.0	13.9	FD240-249-32-D-
FD-245-C	24.5	13.9	
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	t	
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	

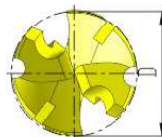
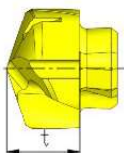
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-110-RB	11.0	6.6	FD110/119-16...D...
FD-111-RB	11.1	6.6	
FD-112-RB	11.2	6.6	
FD-113-RB	11.3	6.6	
FD-114-RB	11.4	6.6	
FD-115-RB	11.5	6.6	
FD-116-RB	11.6	6.6	
FD-117-RB	11.7	6.6	
FD-118-RB	11.8	6.6	
FD-119-RB	11.9	6.6	
FD-120-RB	12.0	7.0	FD120/129-16...D...
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。

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



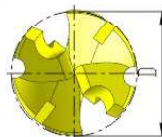
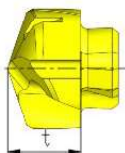
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-140-RB	14.0	8.1	FD140/149-16...D...
FD-141-RB	14.1	8.1	
FD-142-RB	14.2	8.1	
FD-143-RB	14.3	8.1	
FD-144-RB	14.4	8.1	
FD-145-RB	14.5	8.1	
FD-146-RB	14.6	8.1	
FD-147-RB	14.7	8.1	
FD-148-RB	14.8	8.1	
FD-149-RB	14.9	8.1	
FD-150-RB	15.0	8.7	FD150/159-20...D...
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	FD160/169-25...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	t	
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	t	
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	

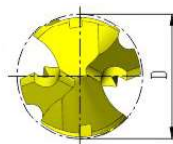
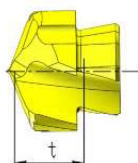
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-230-RB	23.0	13.3	FD230/239-32...D...
FD-231-RB	23.1	13.3	
FD-232-RB	23.2	13.3	
FD-233-RB	23.3	13.3	
FD-234-RB	23.4	13.3	
FD-235-RB	23.5	13.3	
FD-236-RB	23.6	13.3	
FD-237-RB	23.7	13.3	
FD-238-RB	23.8	13.3	
FD-239-RB	23.9	13.3	
FD-240-RB	24.0	13.9	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：RB钻尖具有定心、分屑和卷屑功能，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 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...ST 通用型钻尖ST型 Special Drilling Head ST



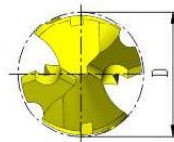
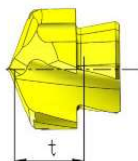
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-080-ST	8.0	5.4	FD080/089-12...D-CST
FD-081-ST	8.1	5.4	
FD-082-ST	8.2	5.4	
FD-083-ST	8.3	5.4	
FD-084-ST	8.4	5.4	
FD-085-ST	8.5	5.4	
FD-086-ST	8.6	5.4	
FD-087-ST	8.7	5.4	
FD-088-ST	8.8	5.4	
FD-089-ST	8.9	5.4	
FD-090-ST	9.0	5.8	FD090/099-12...D-CST
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OD...D-CST配套使用。

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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	

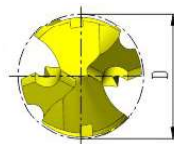
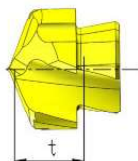
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-170-ST	17.0	9.9	FD170/179-20...D-CST
FD-171-ST	17.1	9.9	
FD-172-ST	17.2	9.9	
FD-173-ST	17.3	9.9	
FD-174-ST	17.4	9.9	
FD-175-ST	17.5	9.9	
FD-176-ST	17.6	9.9	
FD-177-ST	17.7	9.9	
FD-178-ST	17.8	9.9	
FD-179-ST	17.9	9.9	
FD-180-ST	18.0	10.5	FD180/189-25...D-CST
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	

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



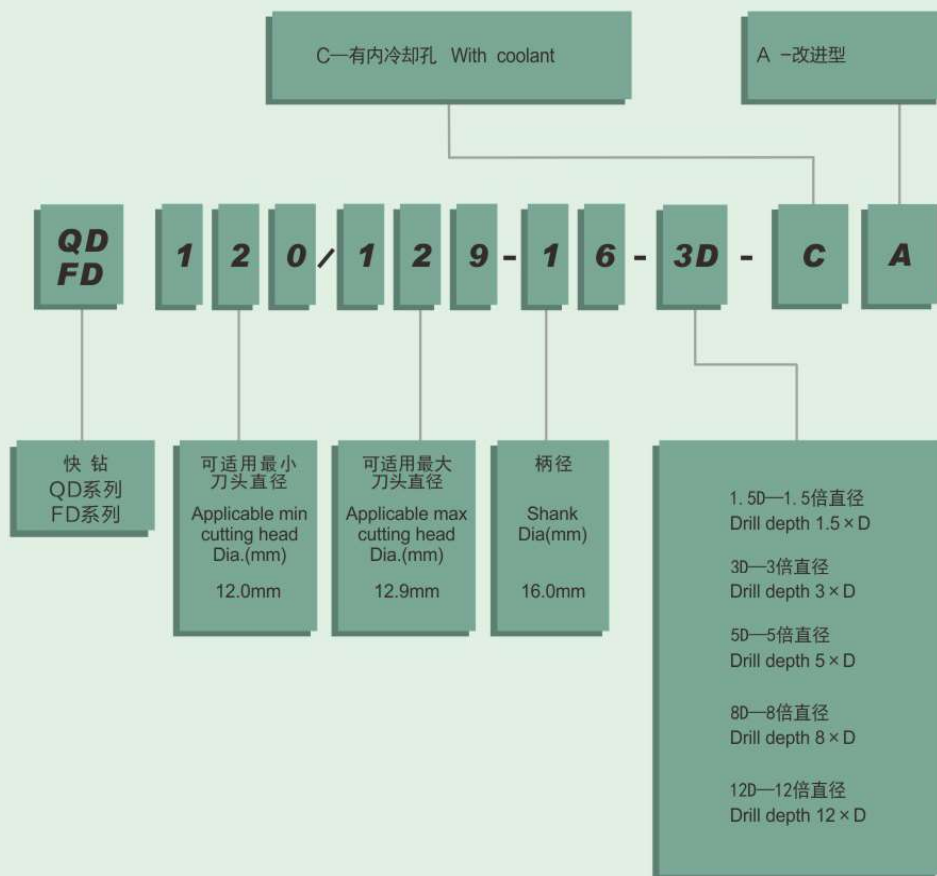
订货号 Order No.	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
FD-200-ST	20.0	11.6	FD200/209-25...D-CST
FD-201-ST	20.1	11.6	
FD-202-ST	20.2	11.6	
FD-203-ST	20.3	11.6	
FD-204-ST	20.4	11.6	
FD-205-ST	20.5	11.6	
FD-206-ST	20.6	11.6	
FD-207-ST	20.7	11.6	
FD-208-ST	20.8	11.6	
FD-209-ST	20.9	11.6	
FD-210-ST	21.0	12.1	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	t	
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OD...D-CST配套使用。

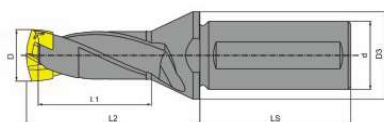
ST Cutting head is a universal one ,it can be used for drilling stainless steel , carbon steel,Mn steel,alloy steel etc.and other materials for chips not to be broken easily .

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



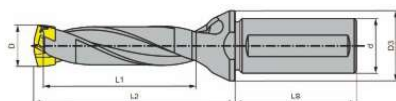


QD...-1.5D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



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	
QD080/089-12-1.5D-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	21~26
QD250/260-32-1.5D-CA	25.0~26.0	32	42	47	60	24.8	
inch	inch	inch	mm	mm	mm	mm	
QD5/16-11/32-1/2-1.5D-CA	5/16~11/32	1/2	16	16	45	7.5	8~11.9
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	
QD31/64-1/2-5/8-1.5D-CA	31/64~1/2	5/8	20	24	48	11.9	12~16.9
QD33/64-35/64-1/2-1.5D-CA	33/64~35/64	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	
QD41/64-21/32-3/4-1.5D-CA	41/64~21/32	3/4	25	30	50	15.6	17~20.9
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	
QD51/64-13/16-1-1.5D-CA	51/64~13/16	1	32	38	56	19.6	21~26
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	
QD61/64-31/32-1 1/4-1.5D-CA	61/64~1/32	1 1/4	42	45	60	23.6	21~26
QD63/64-1-1 1/4-1.5D-CA	63/64~1	1 1/4	42	47	60	24.4	

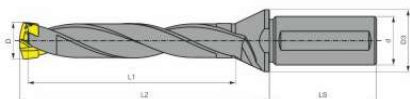
QD...-3D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



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	
QD080/089-12-3D-CA	8.0~8.9	12	16	32	45	7.8	8-11.9
QD090/099-12-3D-CA	9.0~9.9	12	16	35	45	8.8	
QD100/109-16-3D-CA	10.0~10.9	16	20	39	48	9.8	
QD110/119-16-3D-CA	11.0~11.9	16	20	42	48	10.8	
QD120/129-20-3D-CA	12.0~12.9	16	20	45	48	11.8	12-16.9
QD130/139-16-3D-CA	13.0~13.9	16	20	49	48	12.8	
QD140/149-16-3D-CA	14.0~14.9	16	20	53	48	13.8	
QD150/159-20-3D-CA	15.0~15.9	20	25	56	50	14.8	
QD160/169-20-3D-CA	16.0~16.9	20	25	60	50	15.8	17-20.9
QD170/179-20-3D-CA	17.0~17.9	20	25	63	50	16.8	
QD180/189-25-3D-CA	18.0~18.9	25	32	66	56	17.8	
QD190/199-25-3D-CA	19.0~19.9	25	32	70	56	18.8	
QD200/209-25-3D-CA	20.0~20.9	25	32	73	56	19.8	21-26
QD210/219-25-3D-CA	21.0~21.9	25	32	77	56	20.8	
QD220/229-25-3D-CA	22.0~22.9	25	32	80	56	21.8	
QD230/239-32-3D-CA	23.0~23.9	32	42	84	60	22.8	
QD240/249-32-3D-CA	24.0~24.9	32	42	88	60	23.8	21-26
QD250/260-32-3D-CA	25.0~26.0	32	42	91	60	24.8	
inch	inch	inch	mm	mm	mm	mm	
QD5/16-11/32-1/2-3D-CA	5/16~11/32	1/2	16	32	45	7.5	8-11.9
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	
QD7/16-15/32-5/8-3D-CA	7/16~15/32	5/8	20	42	48	10.7	
QD31/64-1/2-5/8-3D-CA	31/64~1/2	5/8	20	45	48	11.9	12-16.9
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	
QD41/64-21/32-3/4-3D-CA	41/64~21/32	3/4	25	60	50	15.6	17-20.9
QD43/64-45/64-3/4-3D-CA	43/64~45/64	3/4	25	63	50	16.7	
QD23/32-47/64-1-3D-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	
QD51/64-13/16-1-3D-CA	51/64~13/16	1	32	73	56	19.6	21-26
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	
QD29/32-59/64-1 1/4-3D-CA	29/32~59/64	1 1/4	42	84	60	22.4	
QD61/64-31/32-1 1/4-3D-CA	61/64~1/32	1 1/4	42	88	60	23.6	21-26
QD63/64-1-1 1/4-3D-CA	63/64~1	1 1/4	42	91	60	24.4	

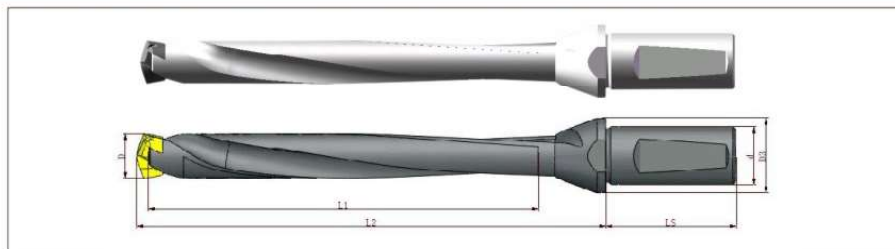


QD...-5D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



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	12-16.9
QD120/129-16-5D-CA	12.0~12.9	16	20	71	48	11.8	
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	17-20.9
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	
QD170/179-20-5D-CA	17.0~17.9	20	25	99	50	16.8	21-26
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	21-26
QD240/249-32-5D-CA	24.0~24.9	32	42	137	60	23.8	
QD250/260-32-5D-CA	25.0~26.0	32	42	143	60	24.8	
inch	inch	inch	mm	mm	mm	mm	
QD5/16-11/32-1/2-5D-CA	5/16~11/32	1/2	16	50	45	7.5	8-11.9
QD23/64-25/64-1/2-5D-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	
QD33/64-35/64-1/2-5D-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	17-20.9
QD19/32-5/8-3/4-5D-CA	19/32~5/8	3/4	25	88	50	14.5	
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	21-26
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	
QD51/64-13/16-1-5D-CA	51/64~13/16	1	32	115	56	19.6	21-26
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	61/64~31/32	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	

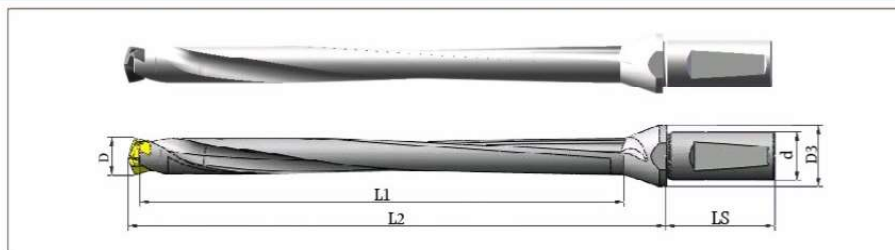
QD...-8D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



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	inch	inch	mm	mm	mm	mm	
QD5/16-11/32-1/2-8D-CA	5/16~11/32	1/2	16	76	45	7.5	8-11.9
QD23/64-25/64-1/2-8D-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	
QD7/16-15/32-5/8-8D-CA	7/16~15/32	5/8	20	102	48	10.7	
QD31/64-1/2-5/8-8D-CA	31/64~1/2	5/8	20	110	48	11.9	12-16.9
QD33/64-35/64-1/2-8D-CA	33/64~35/64	5/8	20	119	48	12.6	
QD9/16-37/64-1/2-8D-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	
QD41/64-21/32-3/4-8D-CA	41/64~21/32	3/4	25	144	50	15.6	17-20.9
QD43/64-45/64-3/4-8D-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	
QD3/8-25/32-1-8D-CA	3/8~25/32	1	32	170	56	18.4	
QD51/64-13/16-1-8D-CA	51/64~13/16	1	32	178	56	19.6	21-26
QD53/64-55/64-1-8D-CA	53/64~55/64	1	32	187	56	20.4	
QD7/8-57/64-1-8D-CA	7/8~57/64	1	32	195	56	21.6	
QD29/32-59/64-1 1/4-8D-CA	29/32~59/64	1 1/4	42	204	60	22.4	
QD61/64-31/32-1 1/4-8D-CA	61/64~1/32	1 1/4	42	212	60	23.6	21-26
QD63/64-1-1 1/4-8D-CA	63/64~1	1 1/4	42	221	60	24.4	

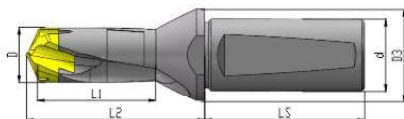


QD...-12D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



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
QD130/139-16-12D-CA	13.0~13.9	16	20	175	48	12.6	
QD140/149-16-12D-CA	14.0~14.9	16	20	187	48	13.6	
QD150/159-20-12D-CA	15.0~15.9	20	20	200	50	14.6	
QD160/169-20-12D-CA	16.0~16.9	20	20	212	50	15.6	
QD170/179-20-12D-CA	17.0~17.9	20	20	225	50	16.6	17-20.9
QD180/189-25-12D-CA	18.0~18.9	25	32	237	56	17.6	
QD190/199-25-12D-CA	19.0~19.9	25	32	250	56	18.6	
QD200/209-25-12D-CA	20.0~20.9	25	32	262	56	19.6	
QD210/219-25-12D-CA	21.0~21.9	25	32	275	56	20.6	
QD220/229-25-12D-CA	22.0~22.9	25	32	287	56	21.6	21-26
QD230/239-32-12D-CA	23.0~23.9	32	42	300	60	22.6	
QD240/249-32-12D-CA	24.0~24.9	32	42	313	60	23.6	
QD250/260-32-12D-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
QD33/64-35/64-1/2-12D-CA	33/64~35/64	5/8	20	175	48	12.6	
QD9/16-37/64-1/2-12D-CA	9/16~37/64	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	15.6	
QD43/64-45/64-3/4-12D-CA	43/64~45/64	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	
QD53/64-55/64-1-12D-CA	53/64~55/64	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	61/64~1/32	1 1/4	42	313	60	23.6	
QD63/64-1-1 1/4-12D-CA	63/64~1	1 1/4	42	325	60	24.4	

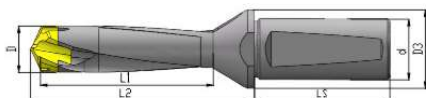
FD...-1.5D-CA Mono Tip 系列快钻刀体 Mono Tip Line Toolholders



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	
FD080/089-12-1.5D-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	21~26
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	9.9	
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
FD43/64-45/64-3/4-1.5D-CA	43/64~45/64	3/4	25	32	50	16.7	
FD23/32-47/64-1-1.5D-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	61/64~1/32	1 1/4	42	45	60	23.6	21~26
FD63/64-1 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	
FD130/139-16-3D-CA	13.0~13.9	16	20	49	48	12.8	12-16.9
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	
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	17-20.9
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	
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	21-26
FD240/249-32-3D-CA	24.0~24.9	32	42	88	60	23.8	
FD250/260-32-3D-CA	25.0~26.0	32	42	91	60	24.8	
inch	inch	inch	mm	mm	mm	mm	
FD5/16-11/32-1/2-3D-CA	5/16~11/32	1/2	16	32	45	7.5	8-11.9
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	
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	12-16.9
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	
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	
FD23/32-47/64-1-3D-CA	23/32~47/64	1	32	66	56	17.6	17-20.9
FD3/8-25/32-1-3D-CA	3/8~25/32	1	32	70	56	18.4	
FD51/64-13/16-1-3D-CA	51/64~13/16	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	61/64~1/32	1 1/4	42	88	60	23.6	
FD63/64-1-1 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	
FD080/089-12-5D-CA	8.0~8.9	12	16	50	45	7.8	8-11.9
FD090/099-12-5D-CA	9.0~9.9	12	16	55	45	8.8	
FD100/109-16-5D-CA	10.0~10.9	16	20	60	48	9.8	
FD110/119-16-5D-CA	11.0~11.9	16	20	66	48	10.8	
FD120/129-16-5D-CA	12.0~12.9	16	20	71	48	11.8	12-16.9
FD130/139-16-5D-CA	13.0~13.9	16	20	77	48	12.8	
FD140/149-16-5D-CA	14.0~14.9	16	20	82	48	13.8	
FD150/159-20-5D-CA	15.0~15.9	20	25	88	50	14.8	
FD160/169-20-5D-CA	16.0~16.9	20	25	93	50	15.8	17-20.9
FD170/179-20-5D-CA	17.0~17.9	20	25	99	50	16.8	
FD180/189-25-5D-CA	18.0~18.9	25	32	104	56	17.8	
FD190/199-25-5D-CA	19.0~19.9	25	32	110	56	18.8	
FD200/209-25-5D-CA	20.0~20.9	25	32	115	56	19.8	21-26
FD210/219-25-5D-CA	21.0~21.9	25	32	121	56	20.8	
FD220/229-25-5D-CA	22.0~22.9	25	32	126	56	21.8	
FD230/239-32-5D-CA	23.0~23.9	32	42	132	60	22.8	
FD240/249-32-5D-CA	24.0~24.9	32	42	137	60	23.8	21-26
FD250/260-32-5D-CA	25.0~26.0	32	42	143	60	24.8	
inch	inch	inch	mm	mm	mm	mm	
FD5/16-11/32-1/2-5D-CA	5/16~11/32	1/2	16	50	45	7.5	8-11.9
FD23/64-25/64-1/2-5D-CA	23/64~25/64	1/2	16	55	45	8.8	
FD13/32-27/64-5/8-5D-CA	13/32~27/64	5/8	20	60	48	9.9	
FD7/16-15/32-5/8-5D-CA	7/16~15/32	5/8	20	66	48	10.7	
FD31/64-1/2-5/8-5D-CA	31/64~1/2	5/8	20	71	48	11.9	12-16.9
FD33/64-35/64-1/2-5D-CA	33/64~35/64	5/8	20	77	48	12.6	
FD9/16-37/64-1/2-5D-CA	9/16~37/64	5/8	25	82	48	13.8	
FD19/32-5/8-3/4-5D-CA	19/32~5/8	3/4	25	88	50	14.5	
FD41/64-21/32-3/4-5D-CA	41/64~21/32	3/4	25	93	50	15.6	17-20.9
FD43/64-45/64-3/4-5D-CA	43/64~45/64	3/4	25	99	50	16.7	
FD23/32-47/64-1-5D-CA	23/32~47/64	1	32	104	56	17.6	
FD3/8-25/32-1-5D-CA	3/8~25/32	1	32	110	56	18.4	
FD51/64-13/16-1-5D-CA	51/64~13/16	1	32	115	56	19.6	21-26
FD53/64-55/64-1-5D-CA	53/64~55/64	1	32	121	56	20.4	
FD7/8-57/64-1-5D-CA	7/8~57/64	1	32	126	56	21.6	
FD29/32-59/64-1 1/4-5D-CA	29/32~59/64	1 1/4	42	132	60	22.4	
FD61/64-31/32-1 1/4-5D-CA	61/64~31/32	1 1/4	42	137	60	23.6	21-26
FD63/64-1-1 1/4-5D-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	
FD220/229-25-8D-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	21-26
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	
FD13/32-27/64-5/8-8D-CA	13/32~27/64	5/8	20	93	48	9.9	
FD7/16-15/32-5/8-8D-CA	7/16~15/32	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
FD33/64-35/64-1/2-8D-CA	33/64~35/64	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	
FD19/32-5/8-3/4-8D-CA	19/32~5/8	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	
FD38-25/32-1-8D-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	
FD7/8-5/16-1-8D-CA	7/8~5/16	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	
FD61/64-31/32-1 1/4-8D-CA	61/64~1/32	1 1/4	42	212	60	23.6	21-26
FD63/64-1-1 1/4-8D-CA	63/64~1	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	
FD120/12916-12D-CA	12.0~12.9	16	20	162	48	11.6	12-16.9
FD130/139-16-12D-CA	13.0~13.9	16	20	175	48	12.6	
FD140/149-16-12D-CA	14.0~14.9	16	20	187	48	13.6	
FD150/159-20-12D-CA	15.0~15.9	20	20	200	50	14.6	
FD160/169-20-12D-CA	16.0~16.9	20	20	212	50	15.6	
FD170/179-20-12D-CA	17.0~17.9	20	20	225	50	16.6	17-20.9
FD180/189-25-12D-CA	18.0~18.9	25	32	237	56	17.6	
FD190/199-25-12D-CA	19.0~19.9	25	32	250	56	18.6	
FD200/209-25-12D-CA	20.0~20.9	25	32	262	56	19.6	
FD210/219-25-12D-CA	21.0~21.9	25	32	275	56	20.6	
FD220/229-25-12D-CA	22.0~22.9	25	32	287	56	21.6	21-26
FD230/239-32-12D-CA	23.0~23.9	32	42	300	60	22.6	
FD240/249-32-12D-CA	24.0~24.9	32	42	313	60	23.6	
FD250/260-32-12D-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	
FD19/32-5/8-3/4-12D-CA	19/32~5/8	3/4	25	200	50	14.5	
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	17-20.9
FDQ3/8-25/32-1-12D-CA	23/32~47/64	1	32	237	56	17.6	
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	
FD29/32-59/64-1 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	61/64~1/32	1 1/4	42	313	60	23.6	
	63/64~1	1 1/4	42	325	60	24.4	



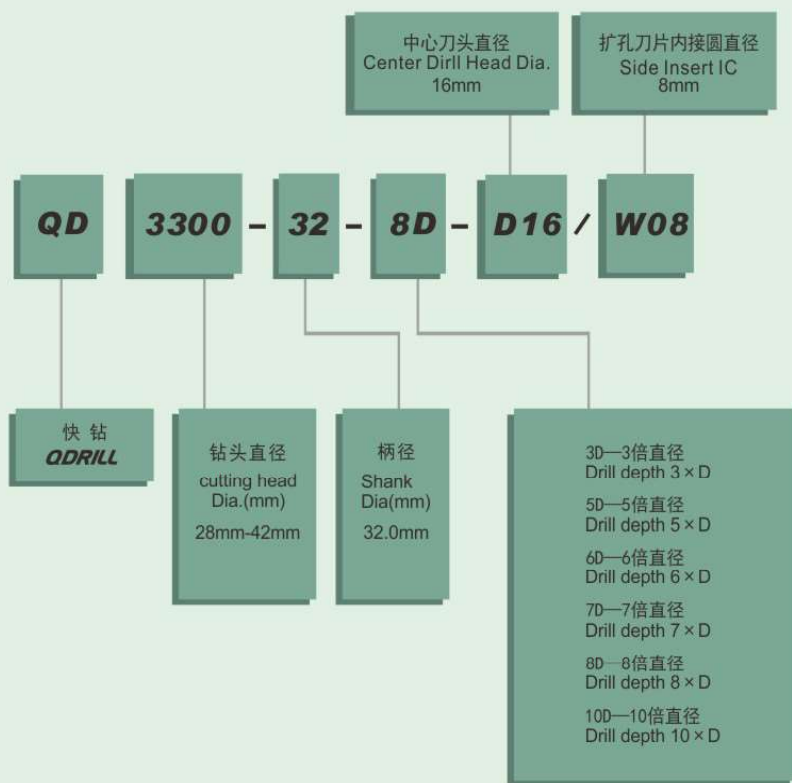
Mono Tip系列推荐的切削参数 Technical Information

ISO	被加工材料 materials	条件 heat treatment	拉伸力 (N/mm2) drawing force	布氏硬度 (HB) hardness	切削速度 Vc(m/min) cutting speed	进给(mm/rev) Feed rate(mm/rev)					
						D<10	D=10~11.9	D=12~13.9	D=14~15.9	D=16~19.9	D=20~25.9
P	非合金钢 un alloy steel	<0.25% C 退火 annealed	420	125	80~140						
		>=0.25% C 退火 annealed	650	190	80~130	0.12	0.15	0.18	0.20	0.25	0.25
	铸铁 cast iron	<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
		>=0.55% C 退火 annealed	750	220	70~110	0.22	0.28	0.30	0.35	0.45	0.45
	易切削钢 free cutting steel	退火和调质 annealing and tempering	1000	300	50~90						
		退火 annealed	600	200	70~120	0.12	0.14	0.16	0.18	0.23	0.25
	低合金钢 low carbon steel	退火和调质 annealing and tempering	930	275	70~110	0.18	0.21	0.24	0.26	0.31	0.35
		退火和调质 annealing and tempering	1000	300	50~90	0.25	0.28	0.32	0.35	0.40	0.45
		退火和调质 annealing and tempering	1200	350	40~70						
	高合金钢 铸钢 high alloy steel cast iron	退火 annealed	680	200	50~90	0.12	0.12	0.15	0.18	0.20	0.22
M	工具钢 tool steel	退火和调质 annealing and tempering	1100	325	40~80	0.16	0.17	0.20	0.23	0.25	0.27
		铁素体/马氏体 ferritic/martensite	680	200	40~70	0.20	0.22	0.25	0.28	0.30	0.33
		马氏体 martensite	820	240	40~70	0.10	0.12	0.14	0.16	0.16	0.18
		奥氏体 austenitic	600	180	30~70	0.12	0.15	0.17	0.20	0.21	0.24
K	不锈钢 铸钢 stainless steel cast iron	铁素体 ferritic		160	90~160						
		珠光体 pearlitic		250	80~140	0.15	0.18	0.20	0.24	0.26	0.30
	球墨铸铁 (GGG) nodular SG iron	铁素体 ferritic		180	90~180	0.15	0.20	0.25	0.30	0.35	0.35
		珠光体 pearlitic		260	80~140	0.22	0.27	0.32	0.37	0.45	0.37
	可锻铸铁 malleable cast iron	铁素体 ferritic		130	90~160	0.30	0.35	0.40	0.45	0.55	0.60
N	铝铝合金 cast aluminium alloy	未固化的 unsolidification	60	90~220							
		固化的 solidification	100	90~220							
	铸铝合金 cast aluminium alloy	<=12% Si 未固化的 unsolidification	75	90~220	0.20	0.25	0.30	0.35	0.40	0.45	
		固化的 solidification	90	90~220	0.27	0.32	0.37	0.42	0.50	0.57	
		>12% Si 高温处理 high temperature treatment	130	80~160	0.35	0.40	0.45	0.50	0.60	0.70	
	铜合金 copper alloy	>1% Pb 屑切 free cutting		110	90~220						
		黄铜 copper		90	90~220						
	非铁金属 non-metallic material	电解铜 cathode copper		100	90~220						
		塑料纤维 plastic fiber									
		硬橡胶 hard rubber									
S	高温合金 high temperature alloys	铁基 iron-base			30~60	0.06	0.08	0.10	0.12	0.12	0.14
		固化的 solidification		200	20~50	0.08	0.10	0.12	0.15	0.16	0.18
		镍基 nickelbase		280	20~50	0.11	0.13	0.15	0.18	0.20	0.22
		固化的 solidification		250	20~50	0.06	0.08	0.10	0.12	0.14	0.16
	钴基 cobalt base	固化的 solidification		350	20~50	0.09	0.11	0.14	0.16	0.18	0.20
		Cast									
H	钛合金 titanium,titanium alloys	退火 annealed	Rm 400	320	20~50	0.12	0.15	0.18	0.20	0.22	0.25
		α+β合金合金化 α+β alloys	RM1050		20~50	0.06	0.08	0.10	0.12	0.14	0.16
	高碳钢 hard steel	淬硬 hardened		55HRC	20~50	0.09	0.11	0.14	0.16	0.18	0.20
		淬硬 hardened		60HRC	20~50	0.12	0.15	0.18	0.20	0.22	0.25
H	冷硬铸铁 chilled cast iron	调质 Cast		400							
	铸铁 cast iron	淬硬 hardened		55HRC							

* 如果选用超过8倍径的刀体请降低切削速度和进给率

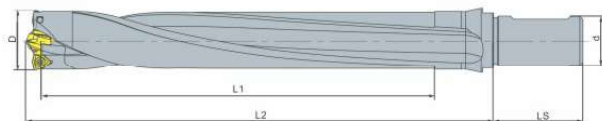
* Lower cutting speed and feed rate should be used for tool holders of 8D or 12D

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



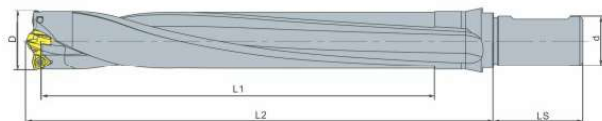


QD...-3D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



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	AOMT040308	32	84	118	60	28	Key14-16	M2.5X8	T9
QD2858-32-3D-D15/A04	MD-150-RA	AOMT040308	32	86	120	60	28.58			
QD2900-32-3D-D16/A04	MD-160-RA	AOMT040308	32	87	121	60	29			
QD2936-32-3D-D16/A04	MD-160-RA	AOMT040308	32	89	123	60	29.36			
QD3000-32-3D-D16/A04	MD-160-RA	AOMT040308	32	90	125	60	30			
QD3018-32-3D-D17/A04	MD-170-RA	AOMT040308	32	91	126	60	30.18	Key17-20		
QD3096-32-3D-D17/A04	MD-170-RA	AOMT040308	32	93	128	60	30.96			
QD3100-32-3D-D17/A04	MD-170-RA	AOMT040308	32	94	129	60	31	Key14-16	M3X8	T10
QD3175-32-3D-D15/W08	MD-150-RA	WOMT080308--D33	32	96	133	60	31.75			
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			
QD3493-32-3D-D18/W08	MD-180-RA	WOMT080308--D33	32	105	142	60	34.93	Key14-16		
QD3500-32-3D-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			
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	Key14-16		
QD3800-32-3D-D16/W10	MD-160-RA	WOMT100308--D39	32	114	154	60	38			
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	Key17-20		
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			
QD4128-32-3D-D19/W10	MD-190-RA	WOMT100308--D39	50	124	167	70	41.28			
QD4200-50-3D-D19/W10	MD-190-RA	WOMT120408--D42	50	126	170	70	42			
QD4300-50-3D-D16/W12	MD-160-RA	WOMT120408--D42	50	129	173	70	43	Key14-16	M4X10	T15
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			
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	Key17-20		
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			
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	Key21-28		
QD5100-50-3D-D24/W12	MD-240-RA	WOMT120408--D42	50	154	199	70	51			
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			
QD5398-50-3D-D27/W12	MD-270-RA	WOMT120408--D42	50	162	207	70	53.98			
QD5400-50-3D-D27/W12	MD-270-RA	WOMT120408--D42	50	163	208	70	54			
QD5500-50-3D-D28/W12	MD-280-RA	WOMT120408--D42	50	165	210	70	55			

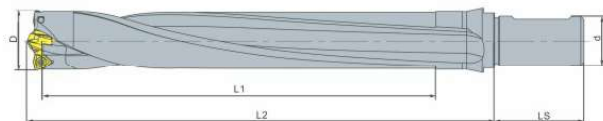
QD...-3D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心钻头 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
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	
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	Key21-28
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	
QD6800-50-3D-D32/W15	MD-320-RA	WOMT150308-...D55	50	204	249	70	68	Key29-34
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	

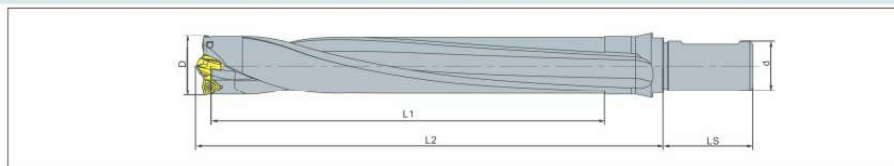


QD...-5D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



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			
QD2800-32-5D-D14/A04	MD-140-RA	AOMT040308	32	140	174	60	28	Key14-16	M2.5X8	T9
QD2858-32-5D-D15/A04	MD-150-RA	AOMT040308	32	143	177	60	28.58			
QD2900-32-5D-D16/A04	MD-160-RA	AOMT040308	32	145	179	60	29			
QD2936-32-5D-D16/A04	MD-160-RA	AOMT040308	32	147	181	60	29.36			
QD3000-32-5D-D16/A04	MD-160-RA	AOMT040308	32	150	185	60	30	Key17-20		
QD3018-32-5D-D17/A04	MD-170-RA	AOMT040308	32	151	186	60	30.18			
QD3096-32-5D-D17/A04	MD-170-RA	AOMT040308	32	155	190	60	30.96			
QD3100-32-5D-D17/A04	MD-170-RA	AOMT040308	32	156	191	60	31			
QD3175-32-5D-D15/W08	MD-150-RA	WOMT080308--D33	32	159	196	60	31.75	Key14-16		
QD3200-32-5D-D15/W08	MD-150-RA	WOMT080308--D33	32	160	197	60	32			
QD3300-32-5D-D16/W08	MD-160-RA	WOMT080308--D33	32	165	202	60	33			
QD3320-32-5D-D16/W08	MD-160-RA	WOMT080308--D33	32	166	203	60	33.2			
QD3335-32-5D-D16/W08	MD-160-RA	WOMT080308--D33	32	167	204	60	33.35	Key17-20	M3X8	T10
QD3400-32-5D-D16/W08	MD-160-RA	WOMT080308--D33	32	170	207	60	34			
QD3493-32-5D-D18/W08	MD-180-RA	WOMT080308--D33	32	175	212	60	34.93			
QD3500-32-5D-D18/W08	MD-180-RA	WOMT080308--D33	32	176	214	60	35			
QD3600-32-5D-D18/W08	MD-180-RA	WOMT080308--D33	32	180	218	60	36	Key14-16		
QD3653-32-5D-D19/W08	MD-190-RA	WOMT080308--D33	32	183	221	60	36.53			
QD3700-32-5D-D16/W10	MD-160-RA	WOMT100308--D39	32	185	223	60	37			
QD3750-32-5D-D16/W10	MD-160-RA	WOMT100308--D39	32	188	226	60	37.5			
QD3800-32-5D-D16/W10	MD-160-RA	WOMT100308--D39	32	190	230	60	38	Key17-20		
QD3810-32-5D-D16/W10	MD-160-RA	WOMT100308--D39	32	191	231	60	38.1			
QD3900-32-5D-D18/W10	MD-180-RA	WOMT100308--D39	32	195	235	60	39			
QD3920-32-5D-D18/W10	MD-180-RA	WOMT100308--D39	32	196	236	60	39.2			
QD3970-32-5D-D18/W10	MD-180-RA	WOMT100308--D39	32	199	239	60	39.7	Key14-16		
QD4000-32-5D-D18/W10	MD-180-RA	WOMT100308--D39	50	200	243	70	40			
QD4100-32-5D-D19/W10	MD-190-RA	WOMT100308--D39	50	205	248	70	41			
QD4128-32-5D-D19/W10	MD-190-RA	WOMT100308--D39	50	207	250	70	41.28			
QD4200-50-5D-D19/W10	MD-190-RA	WOMT120408--D42	50	210	254	70	42	Key17-20		
QD4300-50-5D-D16/W12	MD-160-RA	WOMT120408--D42	50	215	259	70	43			
QD4400-50-5D-D18/W12	MD-180-RA	WOMT120408--D42	50	220	264	70	44			
QD4445-50-5D-D18/W12	MD-180-RA	WOMT120408--D42	50	223	267	70	44.45			
QD4500-50-5D-D18/W12	MD-180-RA	WOMT120408--D42	50	225	269	70	45	Key14-16	M4X10	T15
QD4600-50-5D-D19/W12	MD-190-RA	WOMT120408--D42	50	230	274	70	46			
QD4700-50-5D-D20/W12	MD-200-RA	WOMT120408--D42	50	235	279	70	47			
QD4763-50-5D-D21/W12	MD-210-RA	WOMT120408--D42	50	139	183	70	47.63			
QD4800-50-5D-D21/W12	MD-210-RA	WOMT120408--D42	50	240	285	70	48	Key21-28		
QD4900-50-5D-D22/W12	MD-220-RA	WOMT120408--D42	50	245	290	70	49			
QD5000-50-5D-D23/W12	MD-230-RA	WOMT120408--D42	50	250	295	70	50			
QD5080-50-5D-D24/W12	MD-240-RA	WOMT120408--D42	50	254	299	70	50.8			
QD5100-50-5D-D24/W12	MD-240-RA	WOMT120408--D42	50	255	300	70	51			
QD5200-50-5D-D25/W12	MD-250-RA	WOMT120408--D42	50	260	305	70	52			
QD5300-50-5D-D26/W12	MD-260-RA	WOMT120408--D42	50	265	310	70	53			
QD5398-50-5D-D27/W12	MD-270-RA	WOMT120408--D42	50	270	315	70	53.98			
QD5400-50-5D-D27/W12	MD-270-RA	WOMT120408--D42	50	271	316	70	54			
QD5500-50-5D-D28/W12	MD-280-RA	WOMT120408--D42	50	275	320	70	55			

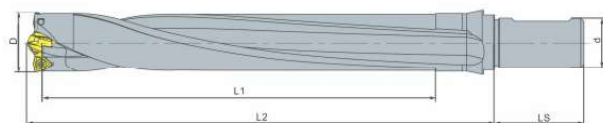
QD...-5D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



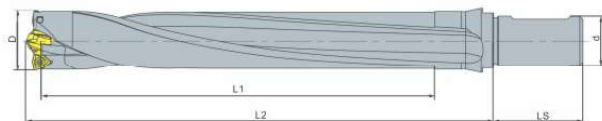
订货号 Order No.	中心钻头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 Dimensions(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	  
QD5600-50-5D-D20/W15	MD-200-RA	WOMT150308-...D55	50	280	325	70	56	Key17-20 Key21-28 M5X10 T20
QD5700-50-5D-D21/W15	MD-210-RA	WOMT150308-...D55	50	285	330	70	57	
QD5800-50-5D-D22/W15	MD-220-RA	WOMT150308-...D55	50	290	335	70	58	
QD5900-50-5D-D23/W15	MD-230-RA	WOMT150308-...D55	50	295	340	70	59	
QD6000-50-5D-D24/W15	MD-240-RA	WOMT150308-...D55	50	300	345	70	60	
QD6100-50-5D-D25/W15	MD-250-RA	WOMT150308-...D55	50	305	350	70	61	
QD6200-50-5D-D26/W15	MD-260-RA	WOMT150308-...D55	50	310	355	70	62	
QD6300-50-5D-D27/W15	MD-270-RA	WOMT150308-...D55	50	315	360	70	63	
QD6400-50-5D-D28/W15	MD-280-RA	WOMT150308-...D55	50	320	365	70	64	
QD6500-50-5D-D29/W15	MD-290-RA	WOMT150308-...D55	50	325	370	70	65	
QD6600-50-5D-D30/W15	MD-300-RA	WOMT150308-...D55	50	330	375	70	66	Key29-34
QD6700-50-5D-D31/W15	MD-310-RA	WOMT150308-...D55	50	335	380	70	67	
QD6800-50-5D-D32/W15	MD-320-RA	WOMT150308-...D55	50	340	385	70	68	
QD6900-50-5D-D33/W15	MD-330-RA	WOMT150308-...D55	50	345	390	70	69	
QD7000-50-5D-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



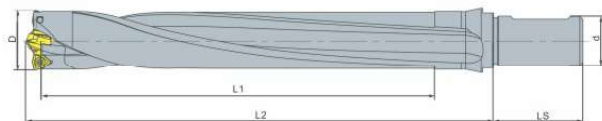
订货号 Order No.	中心钻头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 Dimensions(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	
QD2800-32-6D-D14/A04	MD-140-RA	AOMT040308	32	168	202	60	28	Key14-16 M2.5X8 T9
QD2858-32-6D-D15/A04	MD-150-RA	AOMT040308	32	172	206	60	28.58	
QD2900-32-6D-D16/A04	MD-160-RA	AOMT040308	32	174	208	60	29	
QD2936-32-6D-D16/A04	MD-160-RA	AOMT040308	32	177	211	60	29.36	
QD3000-32-6D-D16/A04	MD-160-RA	AOMT040308	32	180	215	60	30	
QD3018-32-6D-D17/A04	MD-170-RA	AOMT040308	32	182	217	60	30.18	Key17-20 M3X8 T10
QD3096-32-6D-D17/A04	MD-170-RA	AOMT040308	32	186	221	60	30.96	
QD3100-32-6D-D17/A04	MD-170-RA	AOMT040308	32	187	222	60	31	
QD3175-32-6D-D15/W08	MD-150-RA	WOMT080308--D33	32	191	228	60	31.75	
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	Key14-16 M3X8 T10
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	
QD3400-32-6D-D16/W08	MD-160-RA	WOMT080308--D33	32	204	241	60	34	
QD3493-32-6D-D18/W08	MD-180-RA	WOMT080308--D33	32	210	247	60	34.93	
QD3500-32-6D-D18/W08	MD-180-RA	WOMT080308--D33	32	211	249	60	35	Key17-20 M4X10 T15
QD3600-32-6D-D18/W08	MD-180-RA	WOMT080308--D33	32	216	254	60	36	
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	268	60	38	Key14-16 M4X10 T15
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	
QD4000-32-6D-D18/W10	MD-180-RA	WOMT100308--D39	50	240	283	70	40	Key17-20 M4X10 T15
QD4100-32-6D-D19/W10	MD-190-RA	WOMT100308--D39	50	246	289	70	41	
QD4128-32-6D-D19/W10	MD-190-RA	WOMT100308--D39	50	248	291	70	41.28	
QD4200-50-6D-D19/W10	MD-190-RA	WOMT120408--D42	50	252	296	70	42	
QD4300-50-6D-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	Key17-20 M4X10 T15
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	
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	Key21-28 M4X10 T15
QD4800 50 6D D21/W12	MD 210 RA	WOMT120408 --D42	50	288	333	70	48	
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 M4X10 T15
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	
QD5398-50-6D-D27/W12	MD-270-RA	WOMT120408--D42	50	324	369	70	53.98	
QD5400-50-6D-D27/W12	MD-270-RA	WOMT120408--D42	50	325	370	70	54	
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


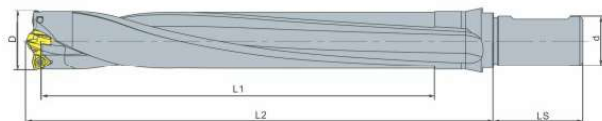
订货号 Order No.	中心钻头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 Dimensions(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	  
QD5600-50-6D-D20/W15	MD-200-RA	WOMT150308-...D55	50	336	381	70	56	Key17-20 Key21-28 M5X10 T20
QD5700-50-6D-D21/W15	MD-210-RA	WOMT150308-...D55	50	342	387	70	57	
QD5800-50-6D-D22/W15	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	
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	Key29-34
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	
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



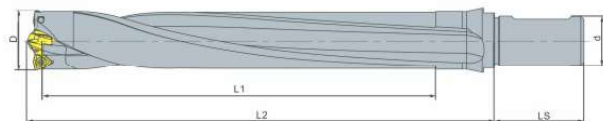
订货号 Order No.	中心钻头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 Dimensions(mm)					配件 Spare Parts
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QD2800-32-7D-D14/A04	MD-140-RA	AOMT040308	32	196	230	60	28	Key14-16 M2.5X8 T9
QD2858-32-7D-D15/A04	MD-150-RA	AOMT040308	32	201	235	60	28.58	
QD2900-32-7D-D16/A04	MD-160-RA	AOMT040308	32	203	237	60	29	
QD2936-32-7D-D16/A04	MD-160-RA	AOMT040308	32	206	240	60	29.36	
QD3000-32-7D-D16/A04	MD-160-RA	AOMT040308	32	210	245	60	30	Key17-20 M3X8 T10
QD3018-32-7D-D17/A04	MD-170-RA	AOMT040308	32	212	247	60	30.18	
QD3096-32-7D-D17/A04	MD-170-RA	AOMT040308	32	217	252	60	30.96	
QD3100-32-7D-D17/A04	MD-170-RA	AOMT040308	32	218	253	60	31	
QD3175-32-7D-D15/W08	MD-150-RA	WOMT080308--D33	32	223	260	60	31.75	Key14-16 M3X8 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 M4X10 T15
QD3400-32-7D-D16/W10	MD-160-RA	WOMT080308--D33	32	238	275	60	34	
QD3493-32-7D-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 M4X10 T15
QD3653 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 M4X10 T15
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	Key17-20 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	
QD4128-50-7D-D19/W10	MD-190-RA	WOMT100308--D39	50	289	332	70	41.28	
QD4200-50-7D-D19/W10	MD-190-RA	WOMT120408--D42	50	294	338	70	42	Key14-16 M4X10 T15
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	Key17-20 M4X10 T15
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	Key21-28 M4X10 T15
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	Key21-28 M4X10 T15
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	
QD5398-50-7D-D27/W12	MD-270-RA	WOMT120408--D42	50	378	423	70	53.98	
QD5400-50-7D-D27/W12	MD-270-RA	WOMT120408--D42	50	379	424	70	54	Key21-28 M4X10 T15
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


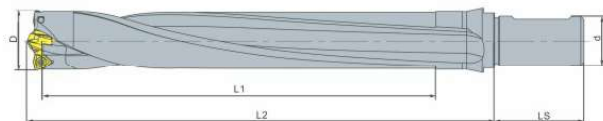
订货号 Order No.	中心钻头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 Dimensions(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	  
QD5600-50-7D-D20/W15	MD-200-RA	WOMT150308-...D55	50	392	437	70	56	Key17-20 M5X10 T20
QD5700-50-7D-D21/W15	MD-210-RA	WOMT150308-...D55	50	399	444	70	57	
QD5800-50-7D-D22/W15	MD-220-RA	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	
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	Key29-34
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



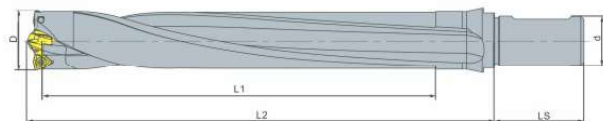
订货号 Order No.	中心钻头 Center Drill head Dia	扩孔刀片x2 Side Insert x2	尺寸 Dimensions(mm)					配件 Spare Parts
			d	L1	L2	Ls	D	  
QD2800-32-8D-D14/A04	MD-140-RA	AOMT040308	32	224	258	60	28	Key14-16 M2.5X8 T9
QD2858-32-8D-D15/A04	MD-150-RA	AOMT040308	32	229	263	60	28.58	
QD2900-32-8D-D16/A04	MD-160-RA	AOMT040308	32	232	266	60	29	
QD2936-32-8D-D16/A04	MD-160-RA	AOMT040308	32	235	269	60	29.36	
QD3000-32-8D-D16/A04	MD-160-RA	AOMT040308	32	240	275	60	30	
QD3018-32-8D-D17/A04	MD-170-RA	AOMT040308	32	242	277	60	30.18	Key17-20
QD3096-32-8D-D17/A04	MD-170-RA	AOMT040308	32	248	283	60	30.96	
QD3100-32-8D-D17/A04	MD-170-RA	AOMT040308	32	249	284	60	31	Key14-16 M3X8 T10
QD3175-32-8D-D15/W08	MD-150-RA	WOMT080308--D33	32	254	291	60	31.75	
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	
QD3493-32-8D-D18/W08	MD-180-RA	WOMT080308--D33	32	280	317	60	34.93	Key14-16 M4X10 T15
QD3500-32-8D-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	
QD3653 32 8D 19/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	Key17-20
QD3800-32-8D-D16/W10	MD-160-RA	WOMT100308--D39	32	304	344	60	38	
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 M4X10 T15
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	
QD4128-32-8D-D19/W10	MD-190-RA	WOMT100308--D39	50	331	374	70	41.28	
QD4200-50-8D-D19/W10	MD-190-RA	WOMT120408--D42	50	336	380	70	42	
QD4300-50-8D-D16/W12	MD-160-RA	WOMT120408--D42	50	344	388	70	43	Key17-20
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	
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	Key21-28
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	
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	Key21-28
QD5100-50-8D-D24/W12	MD-240-RA	WOMT120408--D42	50	408	453	70	51	
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	
QD5398-50-8D-D27/W12	MD-270-RA	WOMT120408--D42	50	432	477	70	53.98	
QD5400-50-8D-D27/W12	MD-270-RA	WOMT120408--D42	50	433	478	70	54	Key21-28
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 Key21-28 M5X10 Key29-34 T20
QD5700-50-8D-D21/W15	MD-210-RA	WOMT150308-...D55	50	456	501	70	57	
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	
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	

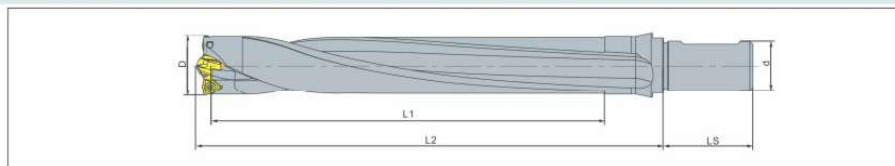


QD...-10D.. Multi Tip系列整体式复合钻头刀体 Multi Tip Line Solid Toolholders



订货号 Order No.	中心钻头 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	  
QD2800-32-10D-D14/A04	MD-140-RA	AOMT040308	32	280	314	60	28	Key14-16 M2.5X8 T9
QD2858-32-10D-D15/A04	MD-150-RA	AOMT040308	32	286	320	60	28.58	
QD2900-32-10D-D16/A04	MD-160-RA	AOMT040308	32	290	324	60	29	
QD2936-32-10D-D16/A04	MD-160-RA	AOMT040308	32	294	328	60	29.36	
QD3000-32-10D-D16/A04	MD-160-RA	AOMT040308	32	300	335	60	30	
QD3018-32-10D-D17/A04	MD-170-RA	AOMT040308	32	302	337	60	30.18	Key17-20
QD3096-32-10D-D17/A04	MD-170-RA	AOMT040308	32	310	345	60	30.96	
QD3100-32-10D-D17/A04	MD-170-RA	AOMT040308	32	311	346	60	31	Key14-16 M3X8 T10
QD3175-32-10D-D15/W08	MD-150-RA	WOMT080308--D33	32	318	355	60	31.75	
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
QD3400-32-10D-D16/W08	MD-160-RA	WOMT080308--D33	32	340	377	60	34	
QD3493-32-10D-D18/W08	MD-180-RA	WOMT080308--D33	32	350	387	60	34.93	Key14-16 M4X10 T15
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	
QD3653-32-10D-D19/W08	MD-190-RA	WOMT080308--D33	32	366	404	60	36.53	
QD3700-32-10D-D16/W10	MD-160-RA	WOMT100308--D39	32	370	408	60	37	
QD3750-32-10D-D16/W10	MD-160-RA	WOMT100308--D39	32	375	413	60	37.5	Key17-20
QD3800-32-10D-D16/W10	MD-160-RA	WOMT100308--D39	32	380	420	60	38	
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 M4X10 T15
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	
QD4300-50-10D-D16/W12	MD-160-RA	WOMT120408--D42	50	430	474	70	43	Key17-20
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	
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	Key21-28
QD4763-50-10D-D21/W12	MD-210-RA	WOMT120408--D42	50	477	521	70	47.63	
QD4800-50-10D-D21/W12	MD-210-RA	WOMT120408--D42	50	480	525	70	48	
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	Key21-28
QD5100-50-10D-D24/W12	MD-240-RA	WOMT120408--D42	50	510	555	70	51	
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	
QD5398-50-10D-D27/W12	MD-270-RA	WOMT120408--D42	50	540	585	70	53.98	
QD5400-50-10D-D27/W12	MD-270-RA	WOMT120408--D42	50	541	586	70	54	Key21-28
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-D20/W15	MD-200-RA	WOMT150308-...D55	50	560	605	70	56	Key17-20 Key21-28 Key29-34 MSX10 T20
QD5700-50-10D-D21/W15	MD-210-RA	WOMT150308-...D55	50	570	615	70	57	
QD5800-50-10D-D22/W15	MD-220-RA	WOMT150308-...D55	50	580	625	70	58	
QD5900-50-10D-D23/W15	MD-230-RA	WOMT150308-...D55	50	590	635	70	59	
QD6000-50-10D-D24/W15	MD-240-RA	WOMT150308-...D55	50	600	645	70	60	
QD6100-50-10D-D25/W15	MD-250-RA	WOMT150308-...D55	50	610	655	70	61	
QD6200-50-10D-D26/W15	MD-260-RA	WOMT150308-...D55	50	620	665	70	62	
QD6300-50-10D-D27/W15	MD-270-RA	WOMT150308-...D55	50	630	675	70	63	
QD6400-50-10D-D28/W15	MD-280-RA	WOMT150308-...D55	50	640	685	70	64	
QD6500-50-10D-D29/W15	MD-290-RA	WOMT150308-...D55	50	650	695	70	65	
QD6600-50-10D-D30/W15	MD-300-RA	WOMT150308-...D55	50	660	705	70	66	
QD6700-50-10D-D31/W15	MD-310-RA	WOMT150308-...D55	50	670	715	70	67	
QD6800-50-10D-D32/W15	MD-320-RA	WOMT150308-...D55	50	680	725	70	68	
QD6900-50-10D-D33/W15	MD-330-RA	WOMT150308-...D55	50	690	735	70	69	
QD7000-50-10D-D34/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

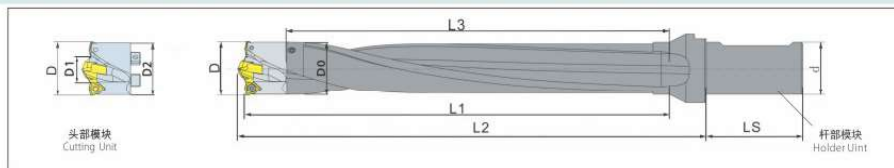
柄部直径
Shank Dia.
(mm)
32.0mm

-

3D

杆部长度
Holder
Length

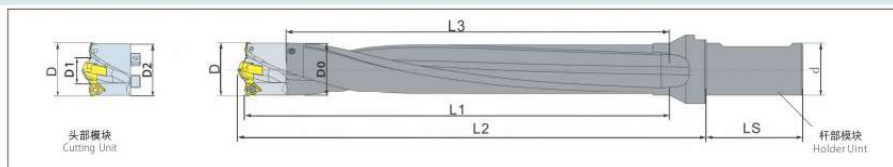
3D...Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



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	LS					
	H2800-D14/A04	28.00	MD-140-RA	AOMT040308	S27-32-3D	27.5	27	32	95	134	75	60	IF28	Key14-16	M2.5X8	T9
	H2858-D15/A04	28.58	MD-150-RA	AOMT040308		27.5	27	32	95	134	75	60				
	H2900-D16/A04	29.00	MD-160-RA	AOMT040308		27.5	27	32	95	134	75	60				
	H2936-D16/A04	29.36	MD-160-RA	AOMT040308		27.5	27	32	95	134	75	60				
	H3000-D16/A04	30.00	MD-160-RA	AOMT040308	S29-32-3D	29.5	29	32	100	138	80	60	IF28	Key17-20	M2.5X8	T9
	H3018-D17/A04	30.18	MD-170-RA	AOMT040308		29.5	29	32	100	138	80	60				
	H3096-D17/A04	30.96	MD-170-RA	AOMT040308		29.5	29	32	100	138	80	60				
	H3100-D17/A04	31.00	MD-170-RA	AOMT040308		29.5	29	32	100	138	80	60				
	H3175-D15/W08	31.75	MD-150-RA	WOMT080308-...D33	S31-32-3D	31.25	30.75	32	112	148	90	60	IF32	Key14-16	M3X10	T10
	H3200-D15/W08	32.00	MD-150-RA	WOMT080308-...D33		31.25	30.75	32	112	148	90	60				
	H3300-D16/W08	33.00	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	112	148	90	60				
	H3320-D16/W08	33.20	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	112	148	90	60				
	H3335-D16/W08	33.35	MD-160-RA	WOMT080308-...D33	S34-32-3D	31.25	30.75	32	112	148	90	60	IF32	Key17-20	M3X10	T10
	H3400-D16/W08	34.00	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	112	148	90	60				
	H3493-D18/W08	34.93	MD-180-RA	WOMT080308-...D33		31.25	30.75	32	112	148	90	60				
	H3500-D18/W08	35.00	MD-180-RA	WOMT080308-...D33		34.5	34	32	122	160	100	60				
	H3600-D18/W08	36.00	MD-180-RA	WOMT080308-...D33	S34-32-3D	34.5	34	32	122	160	100	60	IF32	Key17-20	M3X10	T10
	H3653-D19/W08	36.53	MD-190-RA	WOMT080308-...D33		34.5	34	32	122	160	100	60				
	H3700-D16/W10	37.00	MD-160-RA	WOMT100308-...D39		34.5	34	32	122	160	100	60				
	H3750-D16/W10	37.50	MD-160-RA	WOMT100308-...D39		34.5	34	32	122	160	100	60				
	H3800-D16/W10	38.00	MD-160-RA	WOMT100308-...D39	S37-32-3D	37.5	37	32	125	165	100	60	IF38	Key17-20	M4X12	T15
	H3810-D16/W10	38.10	MD-160-RA	WOMT100308-...D39		37.5	37	32	125	165	100	60				
	H3900-D18/W10	39.00	MD-180-RA	WOMT100308-...D39		37.5	37	32	125	165	100	60				
	H3920-D18/W10	39.20	MD-180-RA	WOMT100308-...D39		37.5	37	32	125	165	100	60				
	H3970-D18/W10	39.70	MD-180-RA	WOMT100308-...D39	S39-50-3D	37.5	37	32	125	165	100	60	IF38	Key17-20	M4X12	T15
	H4000-D18/W10	40.00	MD-180-RA	WOMT100308-...D39		39.5	39	50	135	180	110	70				
	H4100-D19/W10	41.00	MD-190-RA	WOMT100308-...D39		39.5	39	50	135	180	110	70				
	H4128-D19/W10	41.28	MD-190-RA	WOMT100308-...D39		39.5	39	50	135	180	110	70				
	H4200-D19/W10	42.00	MD-190-RA	WOMT120408-...D42	S41-50-3D	41.5	41	50	140	185	115	70	IF42	Key14-16	M4X12	T15
	H4300-D16/W12	43.00	MD-160-RA	WOMT120408-...D42		41.5	41	50	140	185	115	70				
	H4400-D18/W12	44.00	MD-180-RA	WOMT120408-...D42		41.5	41	50	140	185	115	70				
	H4445-D18/W12	44.45	MD-180-RA	WOMT120408-...D42		41.5	41	50	140	185	115	70				
	H4500-D18/W12	45.00	MD-180-RA	WOMT120408-...D42	S44-50-3D	44.5	44	50	150	195	124	70	IF42	Key17-20	M4X12	T15
	H4600-D19/W12	46.00	MD-190-RA	WOMT120408-...D42		44.5	44	50	150	195	124	70				
	H4700-D20/W12	47.00	MD-200-RA	WOMT120408-...D42		44.5	44	50	150	195	124	70				
	H4763-D21/W12	47.63	MD-210-RA	WOMT120408-...D42		44.5	44	50	150	195	124	70				
	H4800-D21/W12	48.00	MD-210-RA	WOMT120408-...D42	S47-50-3D	47.5	47	50	160	200	125	70	IF48	Key21-28		
	H4900-D22/W12	49.00	MD-220-RA	WOMT120408-...D42		47.5	47	50	160	200	125	70				
	H5000-D23/W12	50.00	MD-230-RA	WOMT120408-...D42		47.5	47	50	160	200	125	70				
	H5080-D24/W12	50.80	MD-240-RA	WOMT120408-...D42		50.3	49.8	50	170	210	135	70				
	H5100-D24/W12	51.00	MD-240-RA	WOMT120408-...D42	S50-50-3D	50.3	49.8	50	170	210	135	70	IF48	Key21-28		
	H5200-D25/W12	52.00	MD-250-RA	WOMT120408-...D42		50.3	49.8	50	170	210	135	70				
	H5300-D26/W12	53.00	MD-260-RA	WOMT120408-...D42		50.3	49.8	50	170	210	135	70				
	H5398-D27/W12	53.98	MD-270-RA	WOMT120408-...D42		53.4	53	50	175	215	140	70				
	H5400-D27/W12	54.00	MD-270-RA	WOMT120408-...D42	S53-50-3D	53.4	53	50	175	215	140	70	IF48	Key21-28		
	H5500-D28/W12	55.00	MD-280-RA	WOMT120408-...D42		53.4	53	50	175	215	140	70				

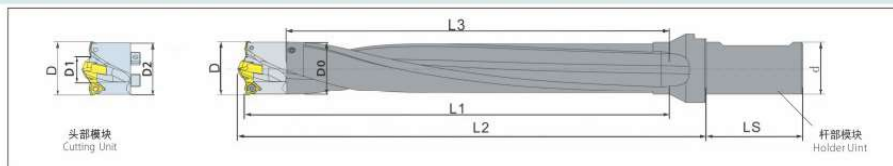


5D...Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



头部模块	钻孔尺寸	中心刀头	扩孔刀片x2	杆部模块	尺寸								接口型号	配件	
Cutting Unit	Drill Dia.D (mm)	Center Drill head Dia.D1	Side Insert x2	Holder Unit	D2	D0	d	L1	L2	L3	LS	Interface Code	Spare Parts		
															
H2800-D14/A04	28.00	MD-140-RA	AOMT040308	S27-32-5D	27.5	27	32	155	194	135	60	IF28	Key14-16	M2.5X8	T9
H2858-D15/A04	28.58	MD-150-RA	AOMT040308		27.5	27	32	155	194	135	60				
H2900-D16/A04	29.00	MD-160-RA	AOMT040308		27.5	27	32	155	194	135	60				
H2936-D16/A04	29.36	MD-160-RA	AOMT040308		27.5	27	32	155	194	135	60				
H3000-D16/A04	30.00	MD-160-RA	AOMT040308	S29-32-5D	29.5	29	32	160	199	140	60	IF28	Key17-20	M2.5X8	T9
H3018-D17/A04	30.18	MD-170-RA	AOMT040308		29.5	29	32	160	199	140	60				
H3096-D17/A04	30.96	MD-170-RA	AOMT040308		29.5	29	32	160	199	140	60				
H3100-D17/A04	31.00	MD-170-RA	AOMT040308		29.5	29	32	160	199	140	60				
H3175-D15/W08	31.75	MD-150-RA	WOMT080308-...D33	S31-32-5D	31.25	30.75	32	177	212	155	60	IF32	Key14-16	M3X10	T10
H3200-D15/W08	32.00	MD-150-RA	WOMT080308-...D33		31.25	30.75	32	177	212	155	60				
H3300-D16/W08	33.00	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	177	212	155	60				
H3320-D16/W08	33.20	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	177	212	155	60				
H3335-D16/W08	33.35	MD-160-RA	WOMT080308-...D33	S34-32-5D	31.25	30.75	32	177	212	155	60	IF32	Key17-20	M3X10	T10
H3400-D16/W08	34.00	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	177	212	155	60				
H3493-D18/W08	34.93	MD-180-RA	WOMT080308-...D33		31.25	30.75	32	177	212	155	60				
H3500-D18/W08	35.00	MD-180-RA	WOMT080308-...D33		34.5	34	32	192	230	170	60				
H3600-D18/W08	36.00	MD-180-RA	WOMT080308-...D33	S34-32-5D	34.5	34	32	192	230	170	60	IF32	Key17-20	M3X10	T10
H3653-D19/W08	36.53	MD-190-RA	WOMT080308-...D33		34.5	34	32	192	230	170	60				
H3700-D16/W10	37.00	MD-160-RA	WOMT100308-...D39		34.5	34	32	192	230	170	60				
H3750-D16/W10	37.50	MD-160-RA	WOMT100308-...D39		34.5	34	32	192	230	170	60				
H3800-D16/W10	38.00	MD-160-RA	WOMT100308-...D39	S37-32-5D	37.5	37	32	215	245	190	60	IF38	Key17-20	M4X12	T15
H3810-D16/W10	38.10	MD-160-RA	WOMT100308-...D39		37.5	37	32	215	245	190	60				
H3900-D18/W10	39.00	MD-180-RA	WOMT100308-...D39		37.5	37	32	215	245	190	60				
H3920-D18/W10	39.20	MD-180-RA	WOMT100308-...D39		37.5	37	32	215	245	190	60				
H3970-D18/W10	39.70	MD-180-RA	WOMT100308-...D39	S39-50-5D	37.5	37	32	215	245	190	60	IF38	Key17-20	M4X12	T15
H4000-D18/W10	40.00	MD-180-RA	WOMT100308-...D39		39.5	39	50	220	265	195	70				
H4100-D19/W10	41.00	MD-190-RA	WOMT100308-...D39		39.5	39	50	220	265	195	70				
H4128-D19/W10	41.28	MD-190-RA	WOMT100308-...D39		39.5	39	50	220	265	195	70				
H4200-D19/W10	42.00	MD-190-RA	WOMT120408-...D42	S41-50-5D	41.5	41	50	230	277	205	70	IF42	Key14-16	M4X12	T15
H4300-D16/W12	43.00	MD-160-RA	WOMT120408-...D42		41.5	41	50	230	277	205	70				
H4400-D18/W12	44.00	MD-180-RA	WOMT120408-...D42		41.5	41	50	230	277	205	70				
H4445-D18/W12	44.45	MD-180-RA	WOMT120408-...D42		41.5	41	50	230	277	205	70				
H4500-D18/W12	45.00	MD-180-RA	WOMT120408-...D42	S44-50-5D	44.5	44	50	245	285	219	70	IF42	Key17-20	M4X12	T15
H4600-D19/W12	46.00	MD-190-RA	WOMT120408-...D42		44.5	44	50	245	285	219	70				
H4700-D20/W12	47.00	MD-200-RA	WOMT120408-...D42		44.5	44	50	245	285	219	70				
H4763-D21/W12	47.63	MD-210-RA	WOMT120408-...D42		44.5	44	50	245	285	219	70				
H4800-D21/W12	48.00	MD-210-RA	WOMT120408-...D42	S47-50-5D	47.5	47	50	260	305	225	70	IF48	Key21-28		
H4900-D22/W12	49.00	MD-220-RA	WOMT120408-...D42		47.5	47	50	260	305	225	70				
H5000-D23/W12	50.00	MD-230-RA	WOMT120408-...D42		47.5	47	50	260	305	225	70				
H5080-D24/W12	50.80	MD-240-RA	WOMT120408-...D42		50.3	49.8	50	275	315	240	70				
H5100-D24/W12	51.00	MD-240-RA	WOMT120408-...D42	S50-50-5D	50.3	49.8	50	275	315	240	70	IF48	Key21-28		
H5200-D25/W12	52.00	MD-250-RA	WOMT120408-...D42		50.3	49.8	50	275	315	240	70				
H5300-D26/W12	53.00	MD-260-RA	WOMT120408-...D42		50.3	49.8	50	275	315	240	70				
H5398-D27/W12	53.98	MD-270-RA	WOMT120408-...D42		53.4	53	50	280	320	245	70				
H5400-D27/W12	54.00	MD-270-RA	WOMT120408-...D42	S53-50-5D	53.4	53	50	280	320	245	70	IF48	Key21-28		
H5500-D28/W12	55.00	MD-280-RA	WOMT120408-...D42		53.4	53	50	280	320	245	70				

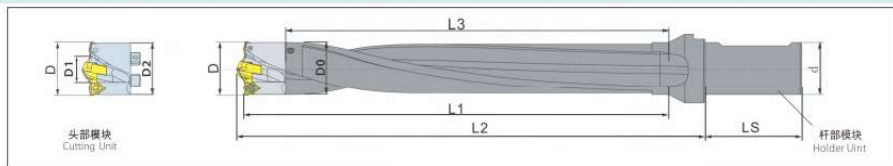
6D...Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



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	LS					
	H2800-D14/A04	28.00	MD-140-RA	AOMT040308	S27-32-6D	27.5	27	32	180	220	160	60	IF28	Key14-16	M2.5X8	T9
	H2858-D15/A04	28.58	MD-150-RA	AOMT040308		27.5	27	32	180	220	160	60				
	H2900-D16/A04	29.00	MD-160-RA	AOMT040308		27.5	27	32	180	220	160	60				
	H2936-D16/A04	29.36	MD-160-RA	AOMT040308		27.5	27	32	180	220	160	60				
	H3000-D16/A04	30.00	MD-160-RA	AOMT040308	S29-32-6D	29.5	29	32	195	233	175	60	IF28	Key17-20	M2.5X8	T9
	H3018-D17/A04	30.18	MD-170-RA	AOMT040308		29.5	29	32	195	233	175	60				
	H3096-D17/A04	30.96	MD-170-RA	AOMT040308		29.5	29	32	195	233	175	60				
	H3100-D17/A04	31.00	MD-170-RA	AOMT040308		29.5	29	32	195	233	175	60				
	H3175-D15/W08	31.75	MD-150-RA	WOMT080308-...D33	S31-32-6D	31.25	30.75	32	211	246	189	60	IF32	Key14-16	M3X10	T10
	H3200-D15/W08	32.00	MD-150-RA	WOMT080308-...D33		31.25	30.75	32	211	246	189	60				
	H3300-D16/W08	33.00	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	211	246	189	60				
	H3320-D16/W08	33.20	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	211	246	189	60				
	H3335-D16/W08	33.35	MD-160-RA	WOMT080308-...D33	S34-32-6D	31.25	30.75	32	211	246	189	60	IF32	Key17-20	M3X10	T10
	H3400-D16/W08	34.00	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	211	246	189	60				
	H3493-D18/W08	34.93	MD-180-RA	WOMT080308-...D33		31.25	30.75	32	211	246	189	60				
	H3500-D18/W08	35.00	MD-180-RA	WOMT080308-...D33		34.5	34	32	227	265	205	60				
	H3600-D18/W08	36.00	MD-180-RA	WOMT080308-...D33	S34-32-6D	34.5	34	32	227	265	205	60	IF32	Key17-20	M3X10	T10
	H3653-D19/W08	36.53	MD-190-RA	WOMT080308-...D33		34.5	34	32	227	265	205	60				
	H3700-D16/W10	37.00	MD-160-RA	WOMT100308-...D39		34.5	34	32	227	265	205	60				
	H3750-D16/W10	37.50	MD-160-RA	WOMT100308-...D39		34.5	34	32	227	265	205	60				
	H3800-D16/W10	38.00	MD-160-RA	WOMT100308-...D39	S37-32-6D	37.5	37	32	255	290	230	60	IF38	Key17-20	M4X12	T15
	H3810-D16/W10	38.10	MD-160-RA	WOMT100308-...D39		37.5	37	32	255	290	230	60				
	H3900-D18/W10	39.00	MD-180-RA	WOMT100308-...D39		37.5	37	32	255	290	230	60				
	H3920-D18/W10	39.20	MD-180-RA	WOMT100308-...D39		37.5	37	32	255	290	230	60				
	H3970-D18/W10	39.70	MD-180-RA	WOMT100308-...D39	S39-50-6D	37.5	37	32	255	290	230	60	IF38	Key17-20	M4X12	T15
	H4000-D18/W10	40.00	MD-180-RA	WOMT100308-...D39		39.5	39	50	257	305	232	70				
	H4100-D19/W10	41.00	MD-190-RA	WOMT100308-...D39		39.5	39	50	257	305	232	70				
	H4128-D19/W10	41.28	MD-190-RA	WOMT100308-...D39		39.5	39	50	257	305	232	70				
	H4200-D19/W10	42.00	MD-190-RA	WOMT120408-...D42	S41-50-6D	41.5	41	50	275	320	250	70	IF42	Key14-16	M4X12	T15
	H4300-D16/W12	43.00	MD-160-RA	WOMT120408-...D42		41.5	41	50	275	320	250	70				
	H4400-D18/W12	44.00	MD-180-RA	WOMT120408-...D42		41.5	41	50	275	320	250	70				
	H4445-D18/W12	44.45	MD-180-RA	WOMT120408-...D42		41.5	41	50	275	320	250	70				
	H4500-D18/W12	45.00	MD-180-RA	WOMT120408-...D42	S44-50-6D	44.5	44	50	295	350	269	70	IF42	Key17-20	M4X12	T15
	H4600-D19/W12	46.00	MD-190-RA	WOMT120408-...D42		44.5	44	50	295	350	269	70				
	H4700-D20/W12	47.00	MD-200-RA	WOMT120408-...D42		44.5	44	50	295	350	269	70				
	H4763-D21/W12	47.63	MD-210-RA	WOMT120408-...D42		44.5	44	50	295	350	269	70				
	H4800-D21/W12	48.00	MD-210-RA	WOMT120408-...D42	S47-50-6D	47.5	47	50	310	350	275	70	IF48	Key21-28		
	H4900-D22/W12	49.00	MD-220-RA	WOMT120408-...D42		47.5	47	50	310	350	275	70				
	H5000-D23/W12	50.00	MD-230-RA	WOMT120408-...D42		47.5	47	50	310	350	275	70				
	H5080-D24/W12	50.80	MD-240-RA	WOMT120408-...D42		50.3	49.8	50	330	370	295	70				
	H5100-D24/W12	51.00	MD-240-RA	WOMT120408-...D42	S50-50-6D	50.3	49.8	50	330	370	295	70	IF48	Key21-28		
	H5200-D25/W12	52.00	MD-250-RA	WOMT120408-...D42		50.3	49.8	50	330	370	295	70				
	H5300-D26/W12	53.00	MD-260-RA	WOMT120408-...D42		50.3	49.8	50	330	370	295	70				
	H5398-D27/W12	53.98	MD-270-RA	WOMT120408-...D42		53.4	53	50	340	380	305	70				
	H5400-D27/W12	54.00	MD-270-RA	WOMT120408-...D42	S53-50-6D	53.4	53	50	340	380	305	70	IF48	Key21-28		
	H5500-D28/W12	55.00	MD-280-RA	WOMT120408-...D42		53.4	53	50	340	380	305	70				

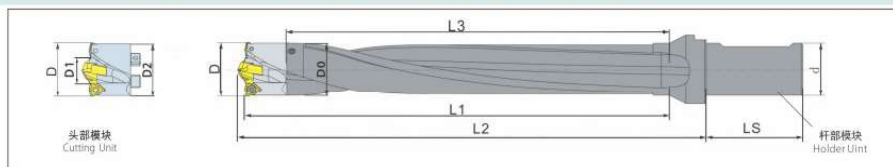


7D..Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



头部模块	钻孔尺寸	中心刀头	扩孔刀片x2	杆部模块	尺寸							接口型号	配件		
Cutting Unit	Drill Dia.D (mm)	Center Drill head Dia.D1	Side Insert x2	Holder Unit	D2	D0	d	L1	L2	L3	LS	Interface Code	Spare Parts		
													 		
H2800-D14/A04	28.00	MD-140-RA	AOMT040308	S27-32-7D	27.5	27	32	215	255	195	60	IF28	Key14-16	M2.5X8	T9
H2858-D15/A04	28.58	MD-150-RA	AOMT040308		27.5	27	32	215	255	195	60				
H2900-D16/A04	29.00	MD-160-RA	AOMT040308		27.5	27	32	215	255	195	60				
H2936-D16/A04	29.36	MD-160-RA	AOMT040308		27.5	27	32	215	255	195	60				
H3000-D16/A04	30.00	MD-160-RA	AOMT040308	S29-32-7D	29.5	29	32	220	258	200	60	IF28	Key17-20	M2.5X8	T9
H3018-D17/A04	30.18	MD-170-RA	AOMT040308		29.5	29	32	220	258	200	60				
H3096-D17/A04	30.96	MD-170-RA	AOMT040308		29.5	29	32	220	258	200	60				
H3100-D17/A04	31.00	MD-170-RA	AOMT040308		29.5	29	32	220	258	200	60				
H3175-D15/W08	31.75	MD-150-RA	WOMT080308...-D33	S31-32-7D	31.25	30.75	32	251	286	229	60	IF32	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	S34-32-7D	31.25	30.75	32	251	286	229	60	IF32	Key17-20	M3X10	T10
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		34.5	34	32	272	308	250	60				
H3600-D18/W08	36.00	MD-180-RA	WOMT080308...-D33	S34-32-7D	34.5	34	32	272	308	250	60	IF38	Key17-20	M3X10	T10
H3653-D19/W08	36.53	MD-190-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	S37-32-7D	37.5	37	32	295	329	270	60	IF38	Key17-20	M3X10	T10
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	S39-50-7D	37.5	37	32	295	329	270	60	IF38	Key17-20	M3X10	T10
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-D19/W10	42.00	MD-190-RA	WOMT120408...-D42	S41-50-7D	41.5	41	50	320	360	295	70	IF42	Key17-20	M4X12	T15
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	S44-50-7D	44.5	44	50	346	390	320	70	IF42	Key17-20	M4X12	T15
H4600-D19/W12	46.00	MD-190-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	S47-50-7D	47.5	47	50	360	400	325	70	IF48	Key21-28	M4X12	T15
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	S50-50-7D	50.3	49.8	50	375	415	340	70	IF48	Key21-28	M4X12	T15
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	S53-50-7D	53.4	53	50	385	425	350	70	IF48	Key21-28	M4X12	T15
H5500-D28/W12	55.00	MD-280-RA	WOMT120408...-D42		53.4	53	50	385	425	350	70				

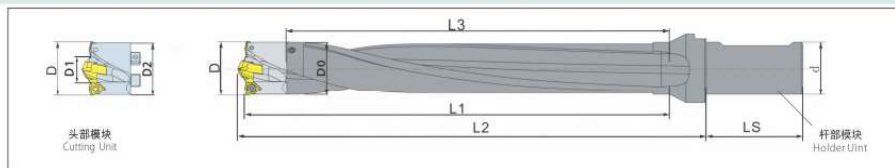
8D...Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



头部模块 Cutting Unit	钻孔尺寸 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	LS				
															
H2800-D14/A04	28.00	MD-140-RA	AOMT040308	S27-32-8D	27.5	27	32	245	285	225	60	IF28	Key14-16	M2.5X8	T9
H2858-D15/A04	28.58	MD-150-RA	AOMT040308		27.5	27	32	245	285	225	60				
H2900-D16/A04	29.00	MD-160-RA	AOMT040308		27.5	27	32	245	285	225	60				
H2936-D16/A04	29.36	MD-160-RA	AOMT040308		27.5	27	32	245	285	225	60				
H3000-D16/A04	30.00	MD-160-RA	AOMT040308	S29-32-8D	29.5	29	32	250	288	230	60	IF28	Key17-20	M2.5X8	T9
H3018-D17/A04	30.18	MD-170-RA	AOMT040308		29.5	29	32	250	288	230	60				
H3096-D17/A04	30.96	MD-170-RA	AOMT040308		29.5	29	32	250	288	230	60				
H3100-D17/A04	31.00	MD-170-RA	AOMT040308		29.5	29	32	250	288	230	60				
H3175-D15/W08	31.75	MD-150-RA	WOMT080308...-D33	S31-32-8D	31.25	30.75	32	279	314	257	60	IF32	Key14-16	M3X10	T10
H3200-D15/W08	32.00	MD-150-RA	WOMT080308...-D33		31.25	30.75	32	279	314	257	60				
H3300-D16/W08	33.00	MD-160-RA	WOMT080308...-D33		31.25	30.75	32	279	314	257	60				
H3320-D16/W08	33.20	MD-160-RA	WOMT080308...-D33		31.25	30.75	32	279	314	257	60				
H3335-D16/W08	33.35	MD-160-RA	WOMT080308...-D33	S34-32-8D	31.25	30.75	32	279	314	257	60	IF32	Key17-20	M3X10	T10
H3400-D16/W08	34.00	MD-160-RA	WOMT080308...-D33		31.25	30.75	32	279	314	257	60				
H3493-D18/W08	34.93	MD-180-RA	WOMT080308...-D33		31.25	30.75	32	279	314	257	60				
H3500-D18/W08	35.00	MD-180-RA	WOMT080308...-D33		34.5	34	32	312	348	290	60				
H3600-D18/W08	36.00	MD-180-RA	WOMT080308...-D33	S34-32-8D	34.5	34	32	312	348	290	60	IF32	Key17-20	M3X10	T10
H3653-D19/W08	36.53	MD-190-RA	WOMT080308...-D33		34.5	34	32	312	348	290	60				
H3700-D16/W10	37.00	MD-160-RA	WOMT100308...-D39		34.5	34	32	312	348	290	60				
H3750-D16/W10	37.50	MD-160-RA	WOMT100308...-D39		34.5	34	32	312	348	290	60				
H3800-D16/W10	38.00	MD-160-RA	WOMT100308...-D39	S37-32-8D	37.5	37	32	335	366	310	60	IF38	Key17-20	M3X10	T10
H3810-D16/W10	38.10	MD-160-RA	WOMT100308...-D39		37.5	37	32	335	366	310	60				
H3900-D18/W10	39.00	MD-180-RA	WOMT100308...-D39		37.5	37	32	335	366	310	60				
H3920-D18/W10	39.20	MD-180-RA	WOMT100308...-D39		37.5	37	32	335	366	310	60				
H3970-D18/W10	39.70	MD-180-RA	WOMT100308...-D39	S39-50-8D	37.5	37	32	335	366	310	60	IF38	Key17-20	M3X10	T10
H4000-D18/W10	40.00	MD-180-RA	WOMT100308...-D39		39.5	39	50	345	395	320	70				
H4100-D19/W10	41.00	MD-190-RA	WOMT100308...-D39		39.5	39	50	345	395	320	70				
H4128-D19/W10	41.28	MD-190-RA	WOMT100308...-D39		39.5	39	50	345	395	320	70				
H4200-D19/W10	42.00	MD-190-RA	WOMT120408...-D42	S41-50-8D	41.5	41	50	365	405	340	70	IF42	Key14-16	M4X12	T15
H4300-D16/W12	43.00	MD-160-RA	WOMT120408...-D42		41.5	41	50	365	405	340	70				
H4400-D18/W12	44.00	MD-180-RA	WOMT120408...-D42		41.5	41	50	365	405	340	70				
H4445-D18/W12	44.45	MD-180-RA	WOMT120408...-D42		41.5	41	50	365	405	340	70				
H4500-D18/W12	45.00	MD-180-RA	WOMT120408...-D42	S44-50-8D	44.5	44	50	390	435	364	70	IF42	Key17-20	M4X12	T15
H4600-D19/W12	46.00	MD-190-RA	WOMT120408...-D42		44.5	44	50	390	435	364	70				
H4700-D20/W12	47.00	MD-200-RA	WOMT120408...-D42		44.5	44	50	390	435	364	70				
H4763-D21/W12	47.63	MD-210-RA	WOMT120408...-D42		44.5	44	50	390	435	364	70				
H4800-D21/W12	48.00	MD-210-RA	WOMT120408...-D42	S47-50-8D	47.5	47	50	410	450	375	70	IF48	Key21-28	M4X12	T15
H4900-D22/W12	49.00	MD-220-RA	WOMT120408...-D42		47.5	47	50	410	450	375	70				
H5000-D23/W12	50.00	MD-230-RA	WOMT120408...-D42		47.5	47	50	410	450	375	70				
H5080-D24/W12	50.80	MD-240-RA	WOMT120408...-D42		50.3	49.8	50	425	465	390	70				
H5100-D24/W12	51.00	MD-240-RA	WOMT120408...-D42	S50-50-8D	50.3	49.8	50	425	465	390	70	IF48	Key21-28	M4X12	T15
H5200-D25/W12	52.00	MD-250-RA	WOMT120408...-D42		50.3	49.8	50	425	465	390	70				
H5300-D26/W12	53.00	MD-260-RA	WOMT120408...-D42		50.3	49.8	50	425	465	390	70				
H5398-D27/W12	53.98	MD-270-RA	WOMT120408...-D42		53.4	53	50	440	480	405	70				
H5400-D27/W12	54.00	MD-270-RA	WOMT120408...-D42	S53-50-8D	53.4	53	50	440	480	405	70	IF48	Key21-28	M4X12	T15
H5500-D28/W12	55.00	MD-280-RA	WOMT120408...-D42		53.4	53	50	440	480	405	70				

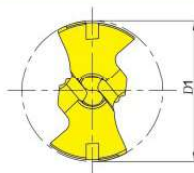
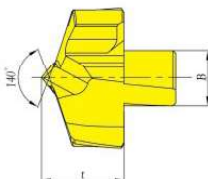


10D..Multi Tip系列分体式复合钻头刀体 Multi Tip Line Modular Toolholders



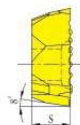
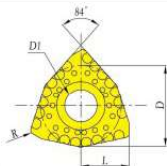
头部模块	钻孔尺寸	中心刀头	扩孔刀片x2	杆部模块	尺寸								接口型号	配件
Cutting Unit	Drill Dia.D (mm)	Center Drill head Dia.D1	Side Insert x2	Holder Unit	D2	D0	d	L1	L2	L3	L5	Interface Code	Spare Parts	
													 	
H2800-D14/A04	28.00	MD-140-RA	AOMT040308	S27-32-10D	27.5	27	32	300	340	280	60	IF28	Key14-16	M2.5X8 T9
H2858-D15/A04	28.58	MD-150-RA	AOMT040308		27.5	27	32	300	340	280	60			
H2900-D16/A04	29.00	MD-160-RA	AOMT040308		27.5	27	32	300	340	280	60			
H2936-D16/A04	29.36	MD-160-RA	AOMT040308		27.5	27	32	300	340	280	60			
H3000-D16/A04	30.00	MD-160-RA	AOMT040308	S29-32-10D	29.5	29	32	310	348	290	60	IF28	Key17-20	
H3018-D17/A04	30.18	MD-170-RA	AOMT040308		29.5	29	32	310	348	290	60			
H3096-D17/A04	30.96	MD-170-RA	AOMT040308		29.5	29	32	310	348	290	60			
H3100-D17/A04	31.00	MD-170-RA	AOMT040308		29.5	29	32	310	348	290	60			
H3175-D15/W08	31.75	MD-150-RA	WOMT080308-...D33	S31-32-10D	31.25	30.75	32	349	384	327	60	IF32	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	S34-32-10D	31.25	30.75	32	349	384	327	60	IF32	Key17-20	
H3400-D16/W08	34.00	MD-160-RA	WOMT080308-...D33		31.25	30.75	32	349	384	327	60			
H3493-D18/W08	34.93	MD-180-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	S34-32-10D	34.5	34	32	382	418	360	60	IF38	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	S37-32-10D	37.5	37	32	412	443	387	60	IF38	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	S39-50-10D	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	S41-50-10D	41.5	41	50	455	500	430	70	IF42	Key14-16	
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	S44-50-10D	44.5	44	50	485	530	459	70	IF42	Key17-20	M4X12 T15
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	S47-50-10D	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	S50-50-10D	50.3	49.8	50	530	570	495	70	IF48	Key21-28	
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	S53-50-10D	53.4	53	50	550	590	515	70	IF48	Key21-28	
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 Dimensions(mm)		
	D1	B	t
MD-140-RA	14	6	8.1
MD-150-RA	15	6	8.7
MD-160-RA	16	8	8.8
MD-170-RA	17	8	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



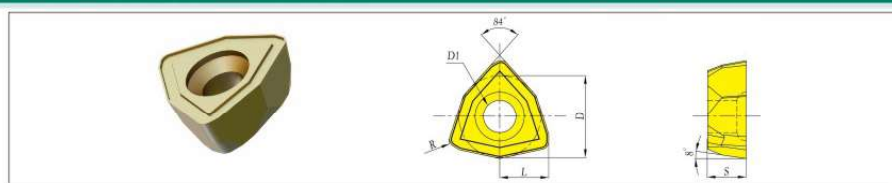
订货号 Order No.	尺寸 Dimensions(mm)			
	D	D1	R	S
WOMT080308-W5-D33	8	3.4	0.8	3.75
WOMT100308-W5-D39	10	4.4	0.8	3.75
WOMT120408-W5-D42	12	4.4	0.8	4.75
WOMT150508-W5-D55	15	5.5	0.8	5.25



WOMT...W... 扩孔刀片 Side Inserts

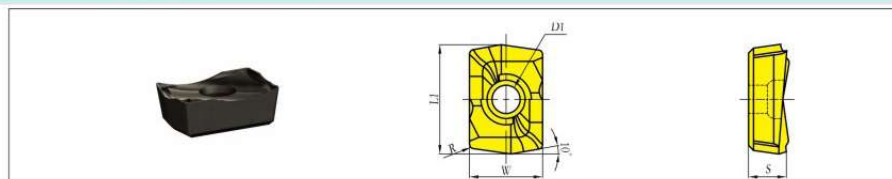
订货号 Order No.	尺寸 Dimensions(mm)			
	D	D1	R	S
WOMT080308-W6-D33	8	3.4	0.8	3.75
WOMT100308-W6-D39	10	4.4	0.8	3.75
WOMT120408-W6-D42	12	4.4	0.8	4.75
WOMT150508-W6-D55	15	5.5	0.8	5.25

WOMT...V... 扩孔刀片 Side Inserts



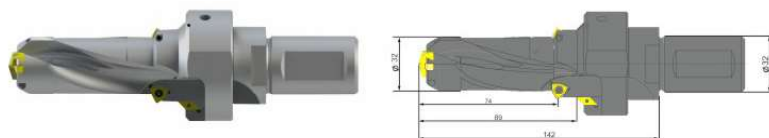
订货号 Order No.	尺寸 Dimensions(mm)			
	D	D1	R	S
WOMT080308-V1-D33	8	3.4	0.8	3.75
WOMT100308-V1-D39	10	4.4	0.8	3.75
WOMT120408-V1-D42	12	4.4	0.8	4.75
WOMT150508-V1-D55	15	5.5	0.8	5.25
WOMT080308-V2-D33	8	3.4	0.8	3.75
WOMT100308-V2-D39	10	4.4	0.8	3.75
WOMT120408-V2-D42	12	4.4	0.8	4.75
WOMT150508-V2-D55	15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

AOMT... 扩孔刀片 Side Inserts

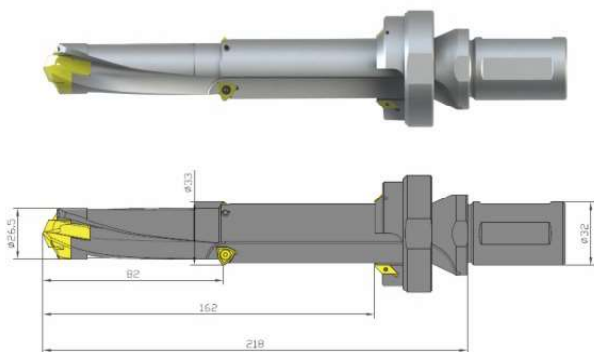


订货号 Order No.	尺寸 Dimensions(mm)				
	W	L1	D1	R	S
AOMT040308	7.26	10.76	2.85	0.4	3.79

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/r)			
			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
M	1	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
	2	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
	3	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
	4	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