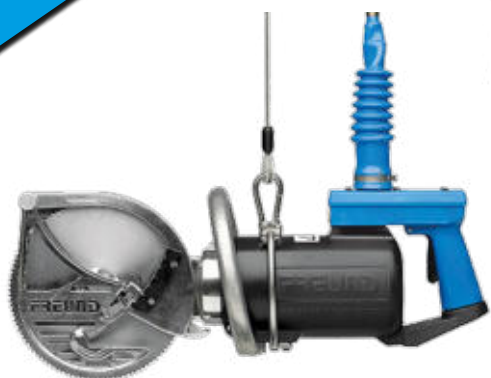
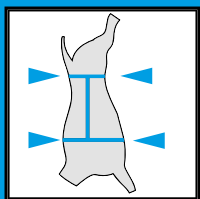


PRIMAL CUTTING



**TRADITION
+ INNOVATION
= FUTURE**





PRIMAL CUTTING



FREUND circular breaking and quartering saws offer state-of-the-art technology of the highest quality.

Tailored to each application, the individual products provide the right configuration for every kind of processing.

Safety and flexibility when handling saws is just as much at the core of this product group as high-quality processing.

The FREUND service department supports the user by offering expert advice in all technical matters relating to the individual machines.

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Quartering

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PRIMAL CUTTING



AS28

Hydraulic shear for quartering cattle

- Clean and smooth cut through the backbone and back muscles
- Two-hand safety switch
- Adjustable handle for better ergonomics



ST40-13

Quartering breaking saw

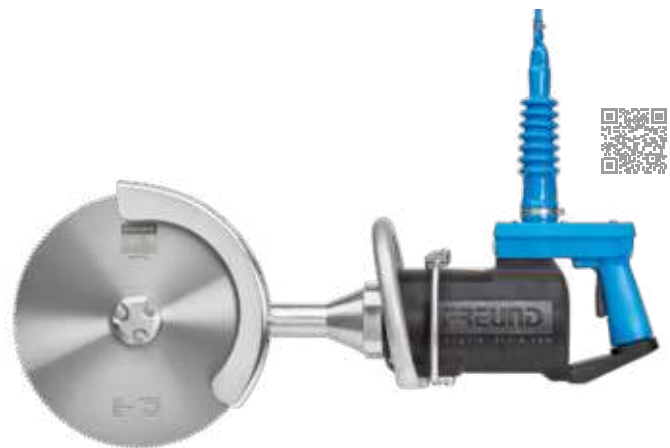
- Smallest machine of its kind with a completely enclosed three-phase motor
- Breaking saw blade, fine tooth STFZ
- Spiral cable SK
- Round handle R (D type)
- Low-vibration operation thanks to the counterweights installed

TECHNICAL DATA

	AS28	ST40-13	K28-06L	K32-06L
Weight (kg)	32	12,7	19	19
Diameter (mm)	-	-	280	320
Cutting depth (mm)	300	-	100	120
Shear opening (mm)	280	-	-	-
Saw blade / cutting length	-	400	-	-
Protection class	IP 65	IP 65	IP 65	IP 65
Drive type	hydraulic	electric, 3-phase	electric, 3-phase	electric, 3-phase
Power		950 Watt (50-60Hz)	1700 Watt (50Hz)	1700 Watt (50Hz)
		1-3 hp (50-60Hz)	2,4 hp (50Hz)	2,4 hp (50Hz)



K28-06L



K32-06L

Quartering and circular breaking saws for general cutting work in high throughput plants

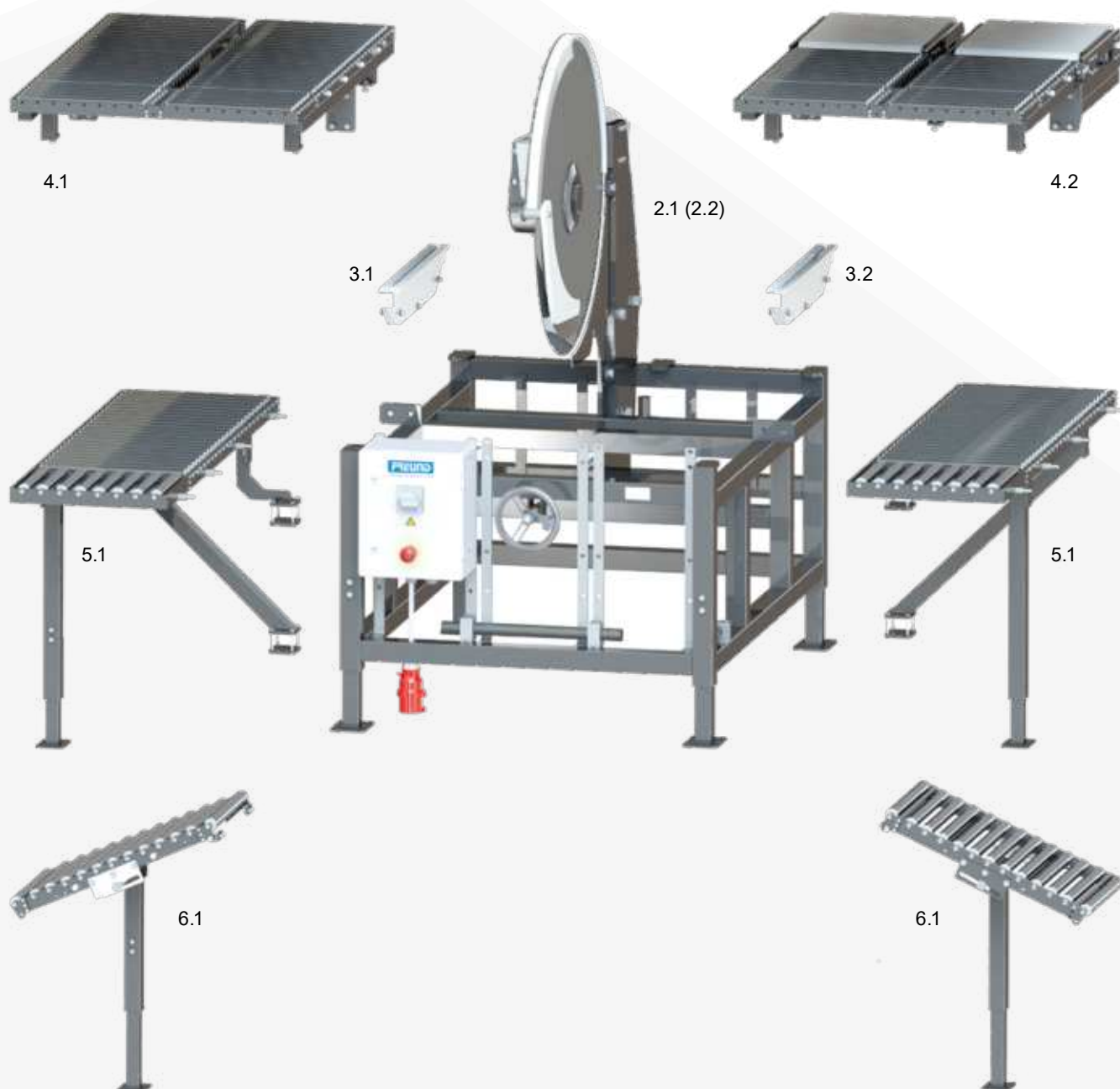
- Long gear neck as a second handle
- Circular saw blade, coarse tooth, rust-free KGZ
- Mechanical motor brake MMB
- Spiral cable SK

OPTIONAL:

- Two-hand safety switch

CIRCULAR CUTTING KNIFE AS A MODULAR TABLE VERSION

PRIMAL CUTTING



TECHNICAL DATA

	ZKM75-T
Weight (kg)	300
Diameter (mm)	750
Cutting depth (mm)	300
Protection class	IP 65
Drive type	electric, 3-phase
Power	2300 Watt (50Hz)



ZKM75-T

Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor

- Compact unit for pre-head positioning in advance of a pig/sheep cutting line
- Loss-free, cleaner and hygienic cut without any smearing
- One operator can coarse cut up to 160 pig halves (3 cuts) per hour
- Design: Table with modular, exchangeable roller frame
- Stainless steel circular knife blade
INOX / rust-free
- WHT (wave high/low) micro-serration enables the best possible cut in the industrial separation of pork forequarter and ham
- GS-certified: EC type examination as per German Product Safety Act

Pos.	Designation
1	ZKM75-08-T basic model
2.1	KM750S-1F circular knife for pigs
2.2	KM750S-2F circular knife for sheep
3.1	Guide insert for pigs
3.2	Guide insert for sheep
4.1	ZKM-T roller conveyors (left/right)
4.2	ZKM-T roller conveyors with conveyor belts (left/right)
5.1	Roller table attachment RTA
6.1	Buffer roller conveyor RTA
Page 11	Modular circular foot saw FK40-08 for lateral attachment

CIRCULAR CUTTING KNIVES

WHT - WAVE HIGH/LOW micro-serration on all circular knives for all ZKM models

A unique selling point and a clear advantage for our customers is the reduced likelihood of bone fractures when separating from the belly and from the chop row on the middles thanks to the WHT (wave high/low) micro-serration on the circular blade.



ZKM75-DA

Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor

- Manual or electromotive lifting of the blade up to 200 mm above the cutting belt
- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- WHT (wave high/low) micro-serration enables the best possible cut in the industrial separation of pork forequarter and ham

ZKM75-DA-JHS

Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor

- Manual or electromotive lifting of the blade up to 200 mm above the cutting belt
- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- With lateral movement option
- WHT (wave high/low) micro-serration enables the best possible cut in the industrial separation of pork forequarter and ham

TECHNICAL DATA

	ZKM75-DA	ZKM75-DA-JHS	ZKM60-DA-MS	ZKM95-DA
Weight (kg)	11,5	19,5	20	3,1
Diameter (mm)	750	750	600	950
Cutting depth (mm)	300	100	120	15-51
Protection class	IP 65	IP 65	IP 65	
Rotation speed (min) [Power]				
-Motor 08	190 [2300 Watt (50Hz)]	190 [2300 Watt (50Hz)]	190 [2300 Watt (50Hz)]	-
-Motor 08	190 [3000 Watt (50Hz)]	190 [3000 Watt (50Hz)]	190 [3000 Watt (50Hz)]	-
-Motor 46B	-	-	-	94 [3000 Watt (50Hz)]



ZKM60-DA-MS

Circular knife blade for optimum separation of pig mid-sections in belly & cutlet series

- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- Continuous cutting angle adjustment $\pm 15^\circ$ can be set for optimum yield

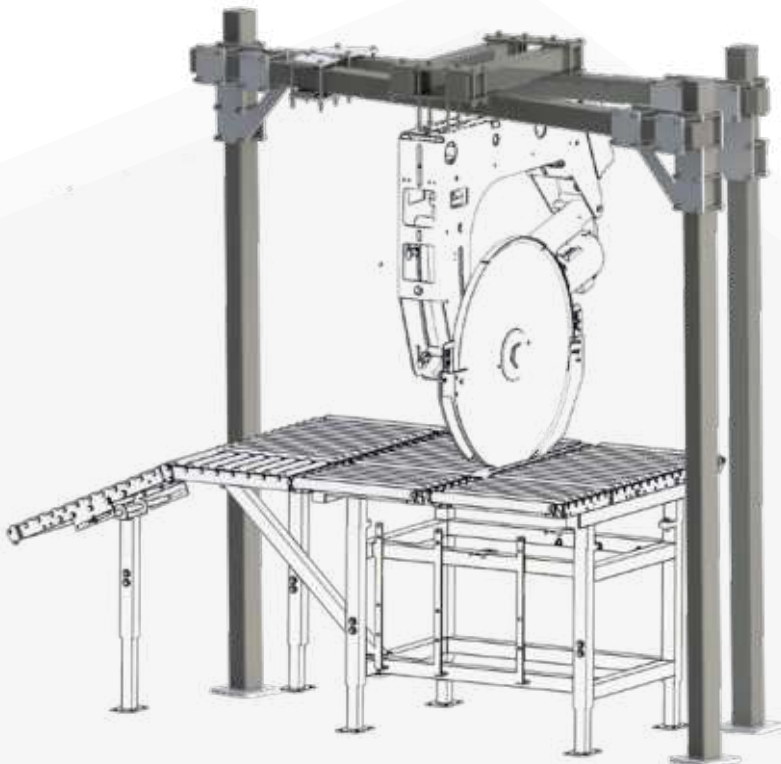


ZKM95-DA

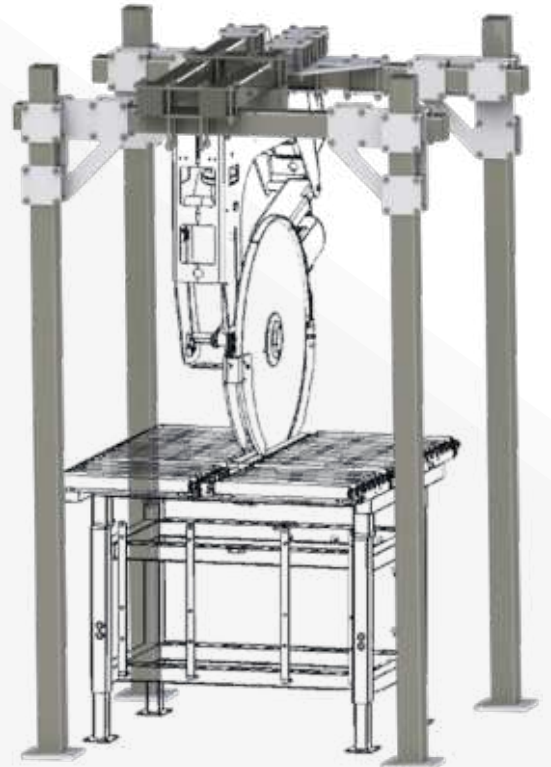
Circular cutting knife for low-loss coarse cutting of horizontal carcasses, e.g. on a cutting belt conveyor

- Space-saving suspension of ceiling or frame structure (suspended installation) in cutting equipment
- Motor in stainless steel housing with fan cooling
- Large saw blade with a diameter of 950 mm
- Cutting depth of the circular knife blade is 340 mm

UNIVERSAL FRAME DESIGN



UNI-PORTAL UP3



UNI-PORTAL UP4



Universally combinable frame design

- for ZKM circular breaking knife and other machines
- Diverse configuration options thanks to the modular design
- Straightforward adjustment of dimensions on-site

For easy set-up or integration of circular knife blades in cutting lines for example:

- ZKM75-DA
- ZKM60-DA-MS

TECHNICAL DATA

	FK40-08
Weight (kg)	58
Diameter (mm)	400
Cutting depth (mm)	125
Protection class	IP 65
Saw blade rotations (min)	1170
Cutting speed (min)	1470
Drive type	electric, 3-phase
Power	2300 Watt (50Hz)/VA



ZKM-T-2CB

Space-saving cutting table with automatic discharge conveyor, suitable for use with ZKM60-DA-MS

- Space-saving 1x1 design principle (1000x1000 mm work surface)
- Effortless cleaning thanks to table modules at the side that can be folded up/down
- Optimised installation options thanks to easily accessible drum motors and optimised chain link belts, thereby significantly reducing installation time
- Enhanced flushing of the chain link belts
- Automatic outward conveyance of the product
- Significant reduction in bone fragments thanks to stable body
- Tailored to ceiling-suspended ZKM-DA-MS and portal solutions



FK40-08

Circular foot saw for lateral attachment of cutting equipment

- E meat crate is used to collect bone dust
- Circular saw swivel-mounted on the tabletop for optimum cleaning
- Completely encased, powerful bevel gear drive: specifically designed for use in slaughtering & cutting up
- Stable stainless steel design **INOX / rust-free **
- Left and right-hand version available respectively for installation on a table or belt (please specify)
- Including electronic motor brake
- Up to 1200 cuts per hour

CIRCULAR BREAKING SAWS

PRIMAL CUTTING



K16-P4_evo2

One-hand circular breaking saw with pneumatical drive type for universal use

- One-hand adjustable depth control
- Powerful 800W pneumatic motor "Made in Germany"
- Stainless steel blade guard & depth control
- Even balance and force transmission protects the wrist joints
- Robust and low-wear gear unit
- Adjustable handle for better ergonomics

TECHNICAL DATA

	K16-P4_evo2	K18-01	K18-13
Weight (kg)	3,1	6,3	11,5
Diameter (mm)	160	180	180
Cutting depth (mm)	15-51	15-65	15-65
Bore (mm)	30	30	30
Cutting speed (m/s)	10	13,5	15,5
Speed	20 /s	24 /s	27 /s
Protection class		IP 24	IP 65
Drive type	pneumatic	electric, 1-phase	electric, 3-phase
Power	800 W	1050 Watt (50Hz)/VA	950 Watt (50Hz)/VA
	6 bar / 950 l/min	1,4 hp (50Hz)/VA	1,3 hp (50Hz)/VA



K18-01

Circular breaking saw for general cutting work in medium plants

- Suitable for trade
- Integrated electronic motor brake (standstill in less than 3 seconds)
- One-hand adjustable depth control
- Round handle R (D type)
- Spiral cable SK

K18-13

Circular breaking saw for general cutting work in medium plants

- Small, compact and completely enclosed design
- One-hand adjustable depth control
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Round handle R (D type)
- Spiral cable SKf

CIRCULAR BREAKING SAWS



K23-03

Circular breaking saw for general cutting work in medium plants

- One-hand adjustable depth control 15-75mm
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ
- Round handle R (D type)
- Spiral cable SK



K23-06

Circular breaking saw for general cutting work in industry

- One-hand adjustable depth control
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ
- Round handle R (D type)
- Spiral cable SK

TECHNICAL DATA

	K23-03	K23-06	K28-06	K32-06
Weight (kg)	14,5	19	19,5	20
Diameter (mm)	230	230	280	320
Cutting depth (mm)	15-75	15-75	100	120
Bore (mm)	52	52	52	52
Cutting speed (m/s)	16	16	19,5	22
Speed	22 /s	22 /s	22 /s	22 /s
Protection class	IP 65	IP 65	IP 65	IP 65
Drive type	electric, 3-phase	electric, 3-phase	electric, 3-phase	electric, 3-phase
Power	1300 Watt (50Hz)/VA 1,8 hp (50Hz)/VA	1800 Watt (50Hz)/VA 2,4 hp (50Hz)/VA	1800 Watt (50Hz)/VA 2,4 hp (50Hz)/VA	1800 Watt (50Hz)/VA 2,4 hp (50Hz)/VA



K28-06

Circular breaking saw for general cutting work in trade and medium plants

- One-hand adjustable depth control
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ
- Round handle R (D type)
- Spiral cable SK

K32-06

Circular breaking saw for general cutting work in medium plants

- One-hand adjustable depth control
- Saw blade stop within 3 seconds after switch-off (EU standard)
- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ
- Round handle R (D type)
- Spiral cable SK

TECHNICAL DATA

	RTK18-13	BCK23-03	SRC34-H5_evo2	RTC34
Weight (kg)	12,3	13	250	260
Diameter (mm)	160	230	345	345
Cutting depth (mm)	15-65	15-75	-	-
Bore (mm)	30	52	-	-
Cutting speed (m/s)	14 m/s	16	-	-
Speed	27 /s	22 /s	-	-
Protection class	IP 65	IP 65	IP 65	IP 65
Drive type	electric, 3-phase	electric, 3-phase	electric, 3-phase	
Power	950 Watt (50Hz)/VA 1,3 hp (50Hz)/VA	1300 Watt (50Hz)/VA 1,8 hp (50Hz)/VA	2800 Watt (50Hz) 3 hp (50Hz)	2800 Watt (50Hz) 3 hp (50Hz)



RTK18-13

For separating the loin ribs of the spinal column on the complete mid-section

- Two adjustable depth stops for precise cutting guide
- high degree of operator safety
- Horizontal cutting guide for correct posture
- Thin saw blade 0.8 mm for less sawdust
- optimum yield

BCK23-03

Circular breaking saw with horizontal saw blade for medium & high throughput plants

For coarse cutting, cutting out the backbone of bacon half-carasses of pigs

- Mechanical motor brake MMB
- Circular saw blade, coarse tooth, rust-free KGZ
- Spiral cable SK
- Saw blade stop within 3 seconds after switch-off (EU standard)

PRIMAL CUTTING

RIBS CUTTER

SRC34-H5_evo2 - Spare ribs cutter

For optimum separation of the ribs (loin or back ribs) of split backbone

- Up to 2000 items/hour with trained personnel
- Clean, smooth and even cut
- Optimum extraction of the meat thanks to an additional extraction plate
- Consistent yield (practically no meat loss)
- Longer shelf life of the product thanks to better hygiene (hardly any sawdust)
- Safe working
- Laterally integrated conveyor belt for the ribs
- Low space requirement
- Transport rollers for a quick change of location
- High degree of stability for the guides thanks to being locked via the tension lever
- Quick payback time due to the attractive price/performance ratio
- Circular knife blade can be re-sharpened
- Quick and easy to clean



RTC34 - Rib Top Cutter

- High performance with up to 1500 cutlet strands per hour
- Circular knife blade technology
- Automatic cutting guide and ejection as well as outward conveyance of the portions
- Consistent precise cuts, less bone removal
- Less bone dust
- Good level of adjustability, including quick adjustment of the cutting depth
- Easy maintenance and cleaning
- Proven SRC drive technology
- Highly robust design
- Increased operator safety



SPRING BALANCERS



SPRING BALANCERS WITH CABLE EXTENSIONS UP TO 3,0 M

TYPE		CABLE EXTENSION		BALANCING RANGE		WEIGHT, GROSS		PART NO.
		m	ft	kg	lbs	kg	lbs	
F20-3SK	S	3	10	15-20	33-44	19	42	920-470-100
F25-3		3	10	20-25	44-56	20	44	920-471-000
F35-3	S	3	10	25-35	56-78	21	46	920-472-000
F45-3	S	3	10	35-45	78-100	24	53	920-473-000
F50-3	S	3	10	40-50	89-111	24	53	920-474-000
F60-3	S	3	10	50-60	111-133	25	56	920-475-000
F70-3	S	3	10	60-70	133-156	27	60	920-476-000
F80-3		3	10	70-80	156-178	28	62	920-477-000
F90-3	S	3	10	80-90	178-200	29	64	920-478-000
F100-3	S	3	10	80-100	178-222	29	64	920-479-000
F115-3		3	10	100-115	222-253	40	88	920-480-000
F130-3		3	10	115-130	253-260	40	88	920-481-000
F140-3		3	10	130-140	260-308	43	95	920-482-000
F150-3		3	10	140-150	308-330	46	100	920-483-000
F160-3		3	10	150-160	330-352	49	108	920-484-000
F180-3		3	10	160-180	352-396	50	110	920-485-000

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